

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057554.D
 Acq On : 29 Aug 2019 17:04
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 9/3/2019 2:38:43 AM

Quant Time: Aug 29 17:44:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 17:26:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	532123	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	838790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	810302	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	447007	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	788697	86.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	172.06%	
35) Dibromofluoromethane	7.58	113	695056	115.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	230.66%	
50) Toluene-d8	10.09	98	2698078	117.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	235.98%	
62) 4-Bromofluorobenzene	12.40	95	984550	126.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	253.90%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	585285	94.214	ug/l	95
3) Chloromethane	2.05	50	514937	60.477	ug/l	98
4) Vinyl Chloride	2.18	62	779163	73.552	ug/l	98
5) Bromomethane	2.54	94	677448	97.271	ug/l	99
6) Chloroethane	2.69	64	489948	71.254	ug/l	98
7) Trichlorofluoromethane	3.01	101	1599558	92.581	ug/l	99
8) Diethyl Ether	3.40	74	507558	79.714	ug/l	65
9) 1,1,2-Trichlorotrifluoroet	3.74	101	943675	97.231	ug/l #	83
10) Methyl Iodide	3.93	142	1613432	177.967	ug/l	92
11) Tert butyl alcohol	4.80	59	387175	349.531	ug/l	97
12) 1,1-Dichloroethene	3.72	96	896364	96.054	ug/l #	73
13) Acrolein	3.59	56	299680	311.778	ug/l	96
14) Allyl chloride	4.30	41	688013	55.704	ug/l #	85
15) Acrylonitrile	4.97	53	1012896	339.077	ug/l	98
16) Acetone	3.81	43	1466942	331.216	ug/l	94
17) Carbon Disulfide	4.03	76	1282163	76.052	ug/l	99
18) Methyl Acetate	4.31	43	465614	44.469	ug/l #	83
19) Methyl tert-butyl Ether	5.03	73	1822527	84.048	ug/l #	89
20) Methylene Chloride	4.53	84	574238	82.380	ug/l #	79
21) trans-1,2-Dichloroethene	5.01	96	605841	94.035	ug/l #	81
22) Diisopropyl ether	5.94	45	1558332	63.953	ug/l #	91
23) Vinyl Acetate	5.88	43	5969936	312.072	ug/l #	79
24) 1,1-Dichloroethane	5.83	63	1026740	77.277	ug/l	97
25) 2-Butanone	6.83	43	1288444	292.388	ug/l #	78
26) 2,2-Dichloropropane	6.81	77	1048808	88.555	ug/l	97
27) cis-1,2-Dichloroethene	6.81	96	732954	95.553	ug/l	79
28) Bromochloromethane	7.18	49	442413	64.530	ug/l #	39
29) Tetrahydrofuran	7.20	42	802887	279.044	ug/l #	68
30) Chloroform	7.36	83	1265505	88.863	ug/l	100
31) Cyclohexane	7.64	56	886426	70.590	ug/l #	78
32) 1,1,1-Trichloroethane	7.56	97	1204695	101.106	ug/l #	92
36) 1,1-Dichloropropene	7.78	75	904069	102.842	ug/l	93
37) Ethyl Acetate	6.92	43	543116	66.857	ug/l #	91
38) Carbon Tetrachloride	7.76	117	1073155	119.153	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057554.D
 Acq On : 29 Aug 2019 17:04
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 9/3/2019 2:38:43 AM

Quant Time: Aug 29 17:44:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 29 17:26:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.07	83	1163305	110.326	ug/l #	83
40) Benzene	8.03	78	2701489	102.165	ug/l	99
41) Methacrylonitrile	7.17	41	285645	74.333	ug/l #	86
42) 1,2-Dichloroethane	8.11	62	931425	92.740	ug/l	96
43) Isopropyl Acetate	8.16	43	1050783	70.129	ug/l #	88
44) Trichloroethene	8.83	130	787613	128.508	ug/l	82
45) 1,2-Dichloropropane	9.11	63	626911	86.628	ug/l	99
46) Dibromomethane	9.20	93	501149	104.761	ug/l #	84
47) Bromodichloromethane	9.40	83	1053814	106.489	ug/l	99
48) Methyl methacrylate	9.19	41	479306	67.674	ug/l #	75
49) 1,4-Dioxane	9.20	88	195569	2016.761	ug/l #	75
51) 4-Methyl-2-Pentanone	9.98	43	2792774	335.580	ug/l #	83
52) Toluene	10.15	92	1885600	120.479	ug/l	92
53) t-1,3-Dichloropropene	10.38	75	1084034	105.422	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	1162222	101.957	ug/l #	82
55) 1,1,2-Trichloroethane	10.56	97	713160	113.214	ug/l	93
56) Ethyl methacrylate	10.43	69	970720	101.734	ug/l #	76
57) 1,3-Dichloropropane	10.71	76	1109367	103.717	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	1329913	589.494	ug/l #	80
59) 2-Hexanone	10.75	43	2020442	353.275	ug/l	84
60) Dibromochloromethane	10.90	129	901602	132.477	ug/l	98
61) 1,2-Dibromoethane	11.00	107	776314	124.400	ug/l	97
64) Tetrachloroethene	10.63	164	775803	127.327	ug/l	94
65) Chlorobenzene	11.43	112	2086613	120.776	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	832304	124.933	ug/l	97
67) Ethyl Benzene	11.51	91	3237049	98.607	ug/l #	76
68) m/p-Xylenes	11.62	106	2853871	250.177	ug/l #	65
69) o-Xylene	11.95	106	1426183	126.748	ug/l	80
70) Styrene	11.96	104	2341020	131.216	ug/l	93
71) Bromoform	12.13	173	619666	136.928	ug/l #	99
73) Isopropylbenzene	12.25	105	3302309	66.067	ug/l	87
74) N-amyl acetate	12.07	43	907185	42.405	ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.51	83	863428	60.228	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	788756m	71.161	ug/l	
77) Bromobenzene	12.53	156	942112	92.796	ug/l	67
78) n-propylbenzene	12.59	91	3415857	64.903	ug/l	81
79) 2-Chlorotoluene	12.68	91	2339176	74.586	ug/l	86
80) 1,3,5-Trimethylbenzene	12.73	105	2929757	74.001	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.30	75	263685	62.585	ug/l	85
82) 4-Chlorotoluene	12.77	91	2373500	79.177	ug/l	86
83) tert-Butylbenzene	12.99	119	2683468	75.863	ug/l	92
84) 1,2,4-Trimethylbenzene	13.04	105	2864802	81.564	ug/l	89
85) sec-Butylbenzene	13.17	105	3185417	73.885	ug/l	88
86) p-Isopropyltoluene	13.29	119	3023239	84.964	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	1640013	109.919	ug/l	96
88) 1,4-Dichlorobenzene	13.37	146	1597785	109.850	ug/l	94
89) n-Butylbenzene	13.62	91	2480629	84.164	ug/l	92
90) Hexachloroethane	13.88	117	610270	75.718	ug/l	82
91) 1,2-Dichlorobenzene	13.66	146	1550093	108.932	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.27	75	150056	65.028	ug/l #	59

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
Data File : VN057554.D
Acq On : 29 Aug 2019 17:04
Operator : JC/SP
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM

Quant Time: Aug 29 17:44:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 17:26:16 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	666167	127.990	ug/l	98
94) Hexachlorobutadiene	15.01	225	420014	94.658	ug/l	99
95) Naphthalene	15.13	128	1896387	112.410	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	656064	121.660	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

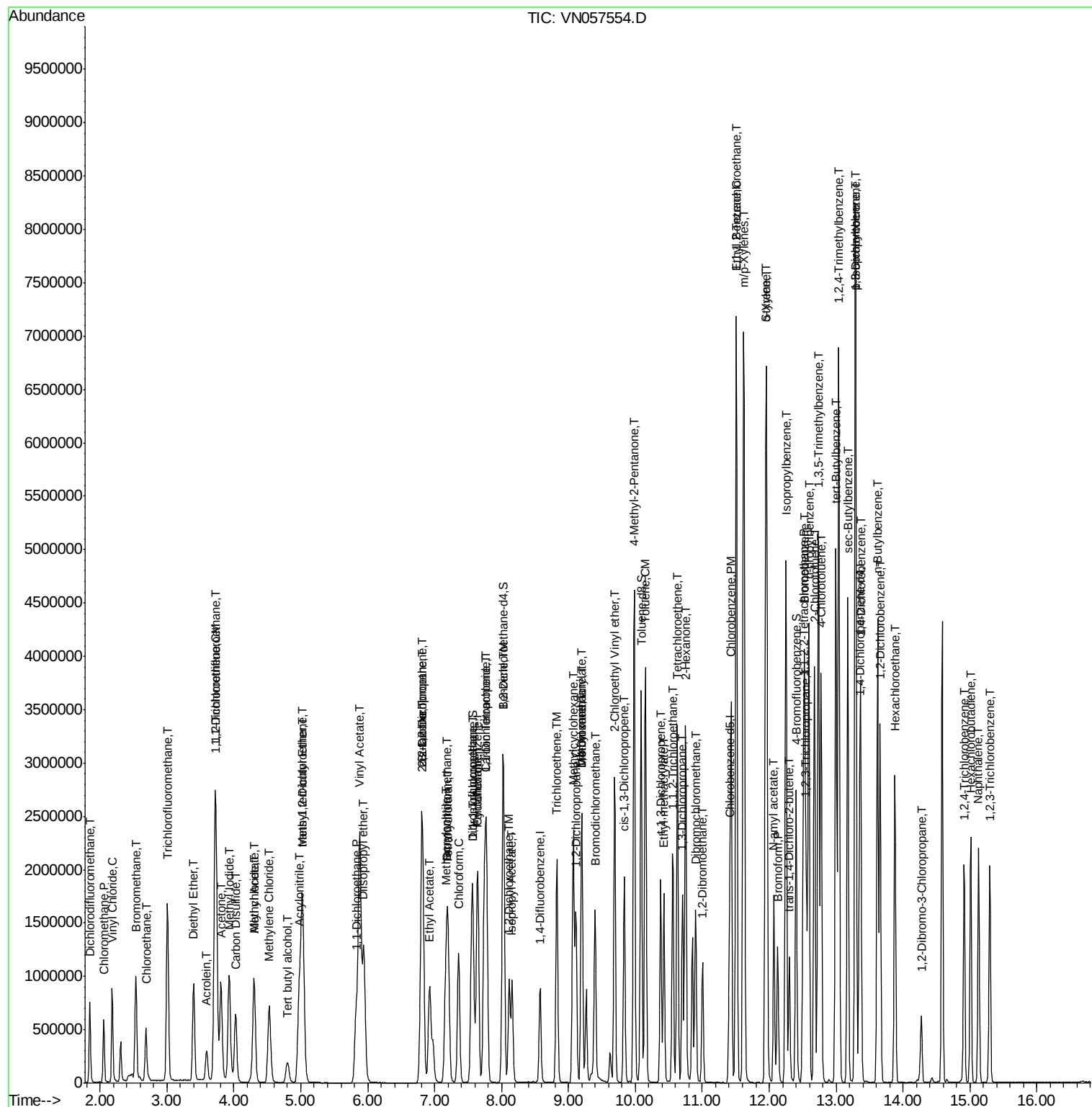
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082919\
Data File : VN057554.D
Acq On : 29 Aug 2019 17:04
Operator : JC/SP
Sample : VSTDICC100
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 8 Sample Multiplier: 1

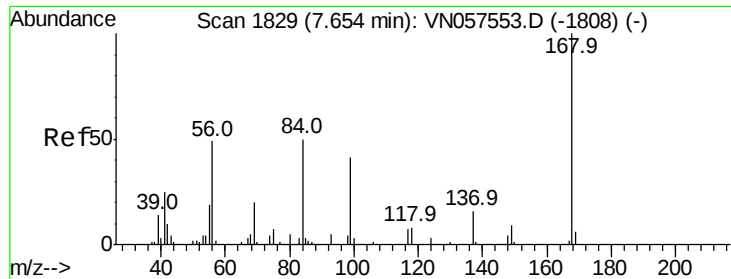
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC100

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM

Quant Time: Aug 29 17:44:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 29 17:26:16 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 532123

Ion Ratio Lower Upper

168 100

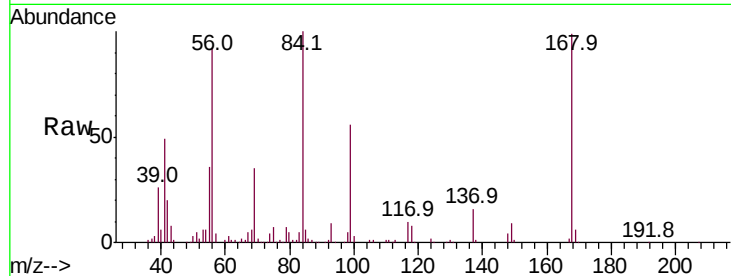
99 56.6 50.6 76.0

Manual Integrations

APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

300000

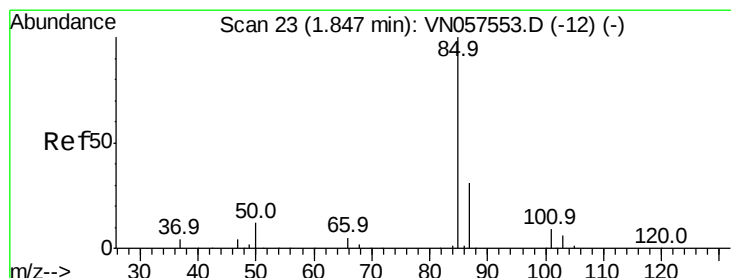
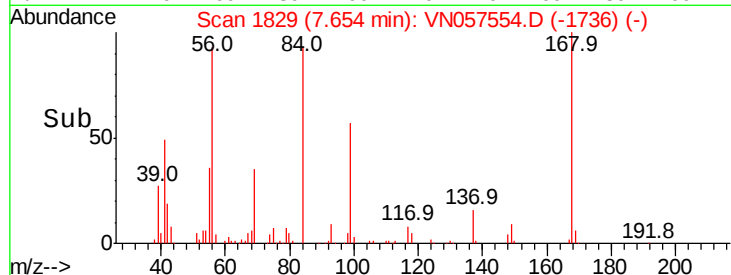
200000

100000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 94.214 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057554.D

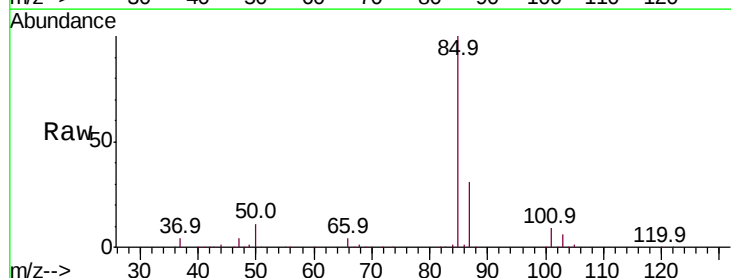
Acq: 29 Aug 2019 17:04

Tgt Ion: 85 Resp: 585285

Ion Ratio Lower Upper

85 100

87 31.0 17.1 51.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

500000

400000

300000

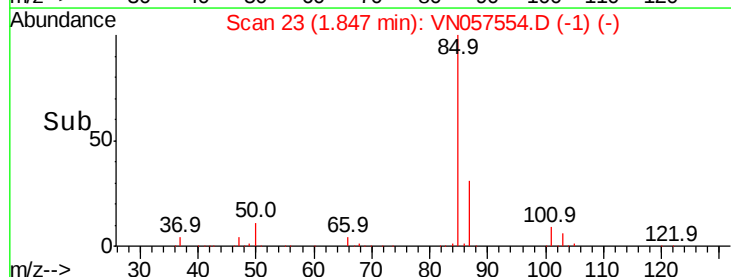
200000

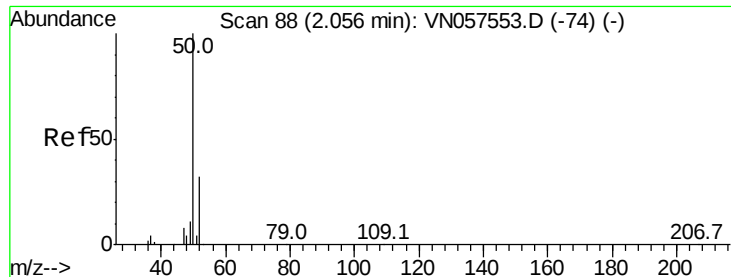
100000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 60.477 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 514937

Ion Ratio Lower Upper

50 100

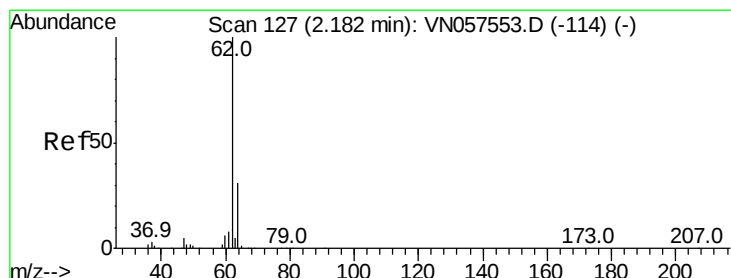
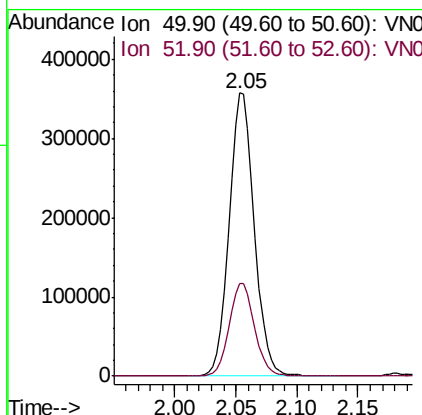
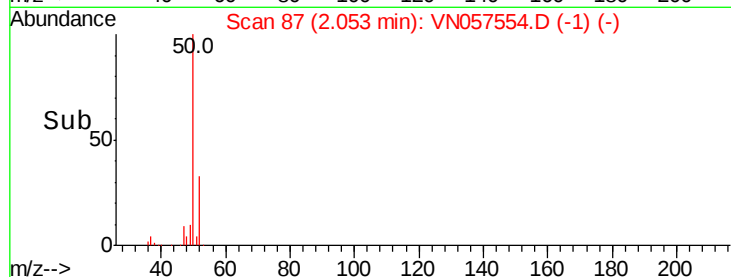
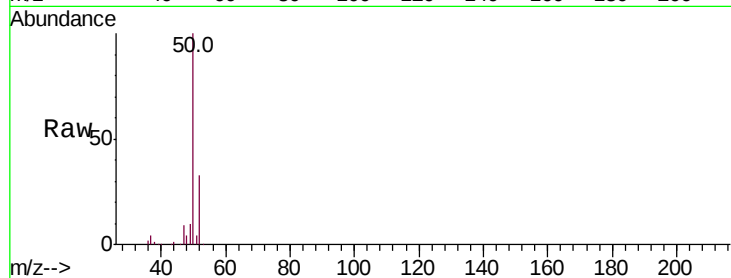
52 32.7 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#4

Vinyl Chloride

Concen: 73.552 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057554.D

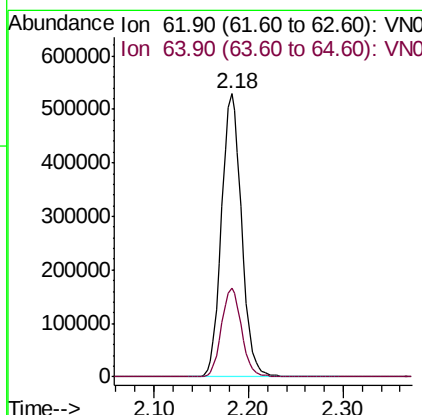
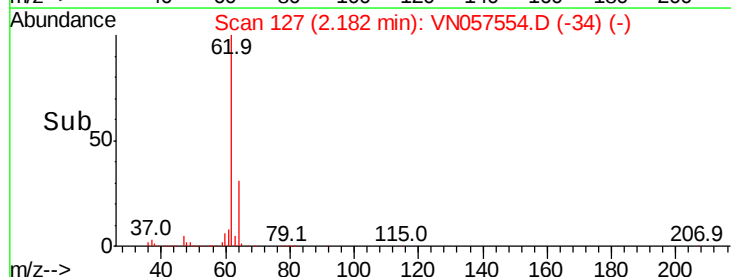
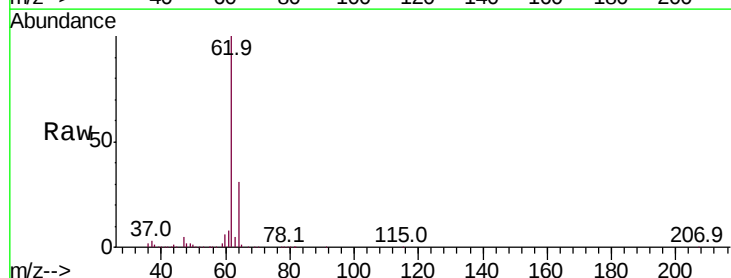
Acq: 29 Aug 2019 17:04

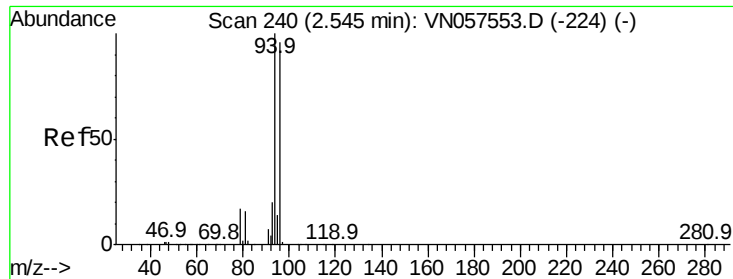
Tgt Ion: 62 Resp: 779163

Ion Ratio Lower Upper

62 100

64 31.2 25.8 38.8





#5

Bromomethane

Concen: 97.271 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.01 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 677448

Ion Ratio Lower Upper

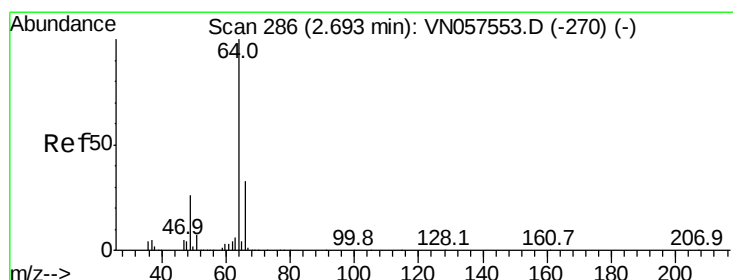
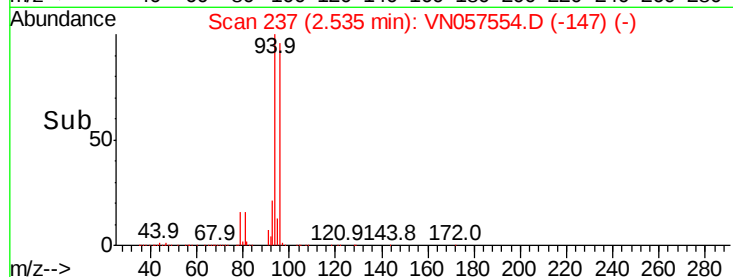
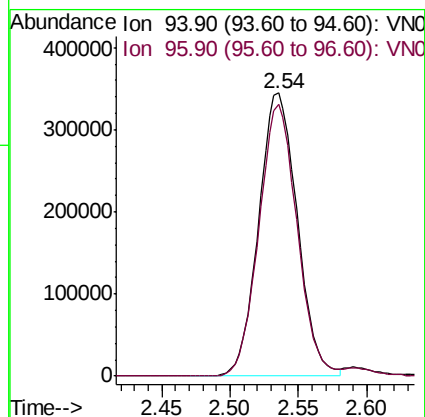
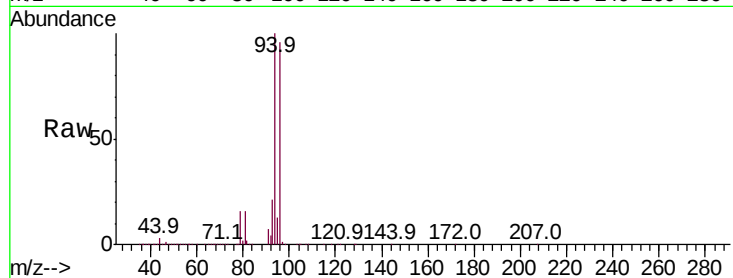
94 100

96 96.0 76.2 114.4

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#6

Chloroethane

Concen: 71.254 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.01 min

Lab File: VN057554.D

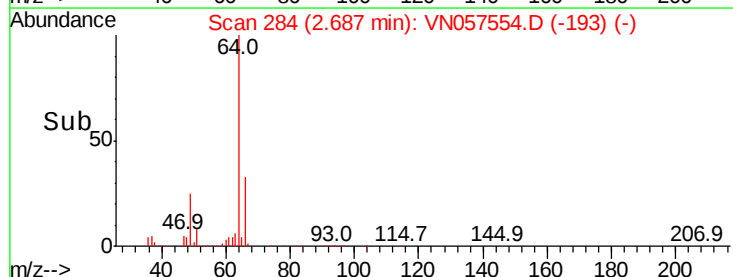
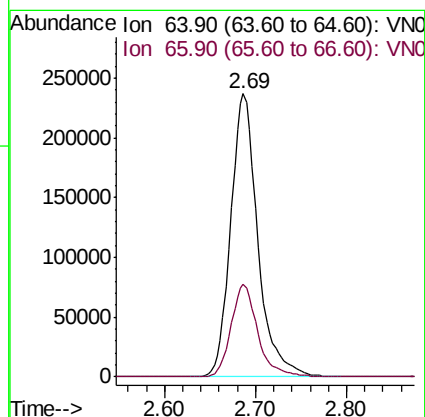
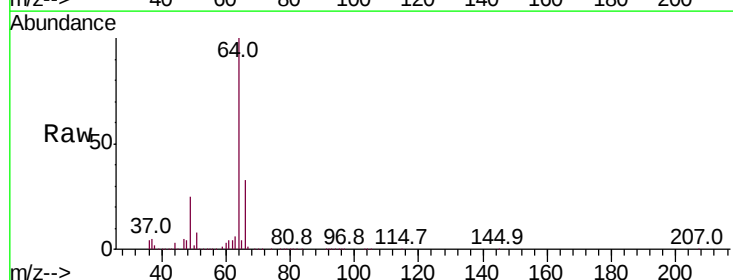
Acq: 29 Aug 2019 17:04

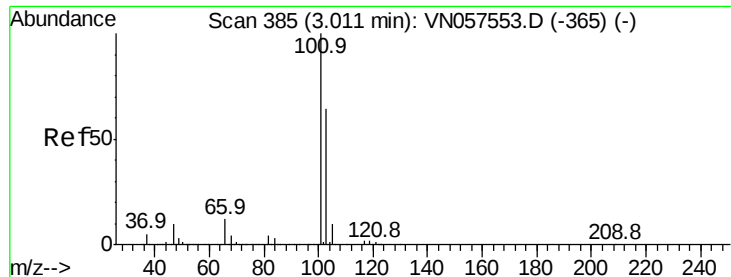
Tgt Ion: 64 Resp: 489948

Ion Ratio Lower Upper

64 100

66 32.5 26.8 40.2





#7

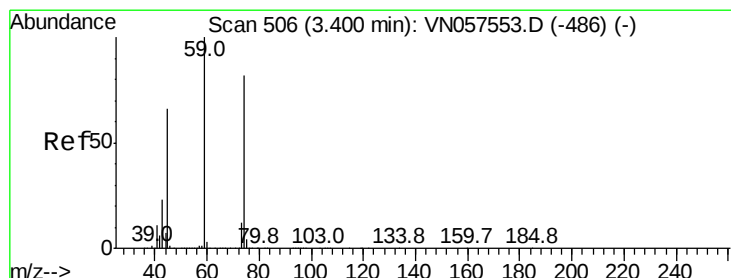
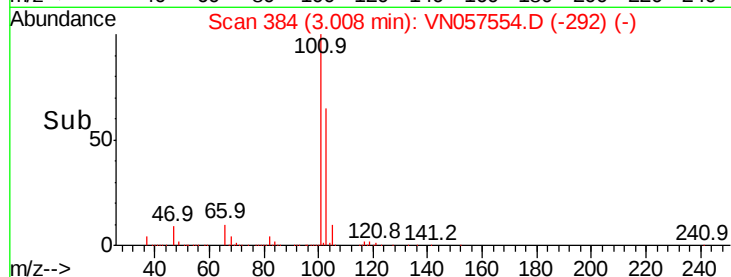
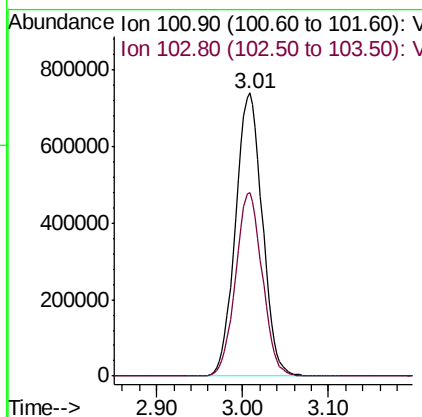
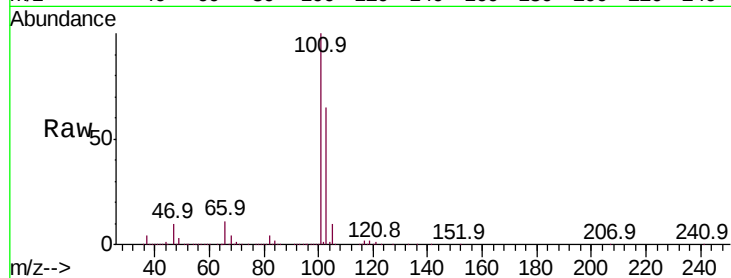
Trichlorofluoromethane
 Concen: 92.581 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion:101 Resp: 1599558
 Ion Ratio Lower Upper
 101 100
 103 64.9 52.6 78.8

Manual Integrations
 APPROVED

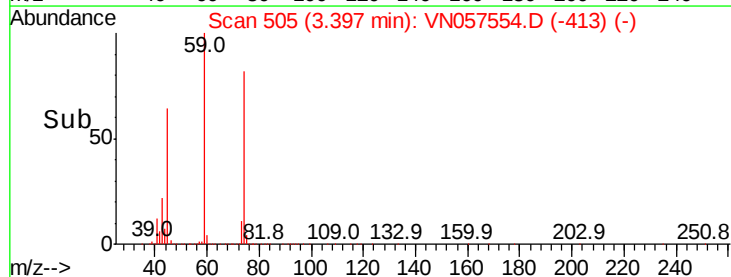
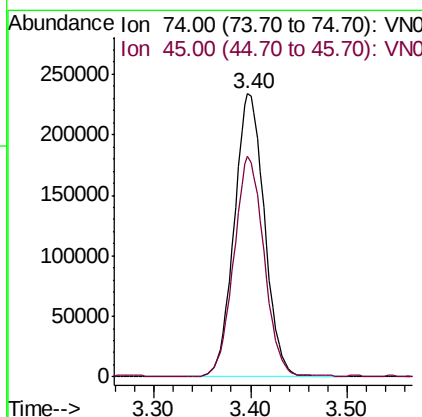
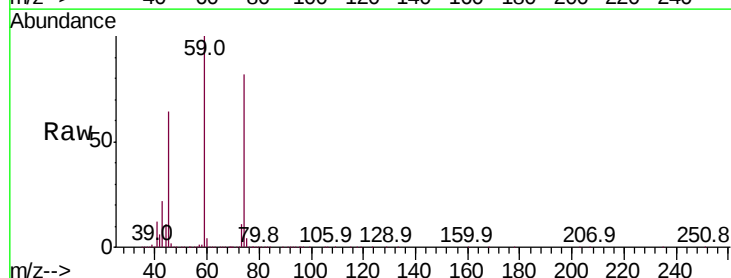
MMDadoda
 9/3/2019 2:38:43 AM

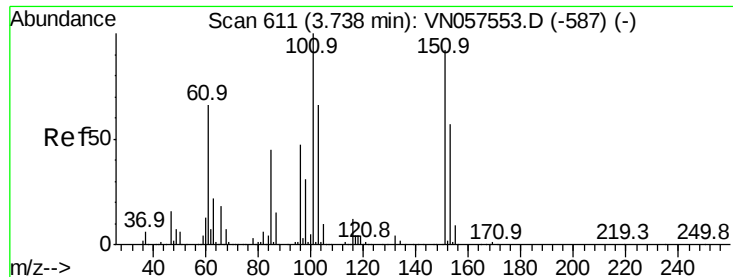


#8

Diethyl Ether
 Concen: 79.714 ug/l
 RT: 3.40 min Scan# 505
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion: 74 Resp: 507558
 Ion Ratio Lower Upper
 74 100
 45 77.1 57.9 173.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 97.231 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

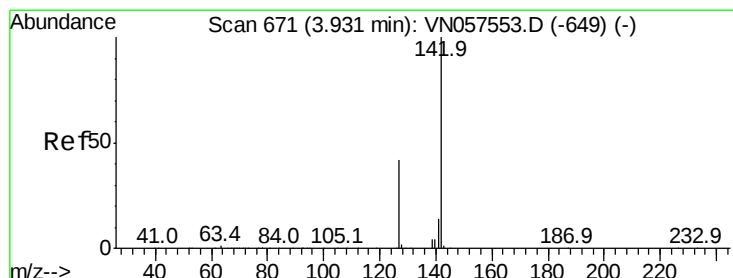
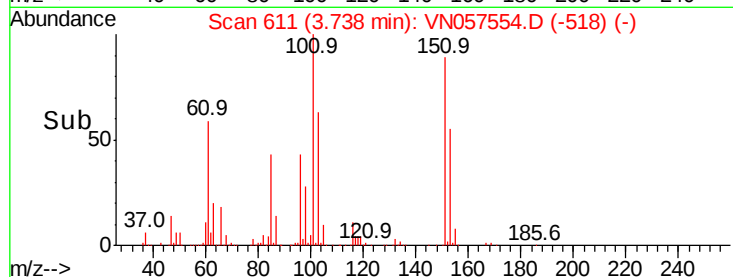
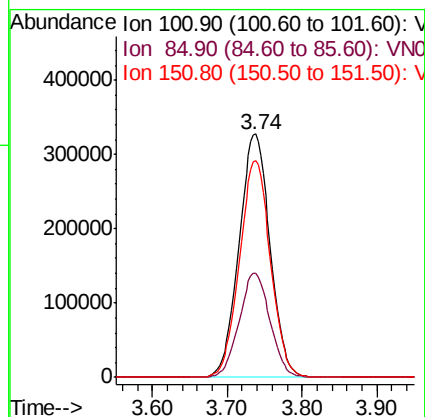
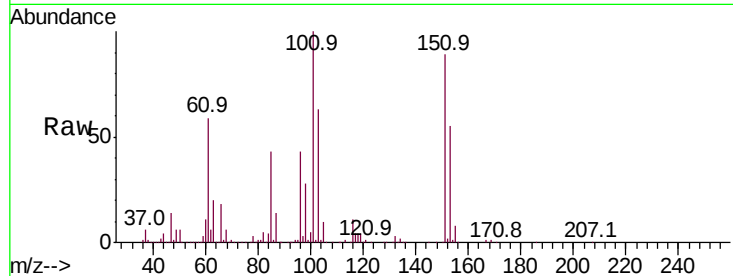
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	943675
Ion Ratio	Lower	Upper	
101	100		
85	42.7	40.0	60.0
151	88.7	57.0	85.6#

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM



#10

Methyl Iodide

Concen: 177.967 ug/l

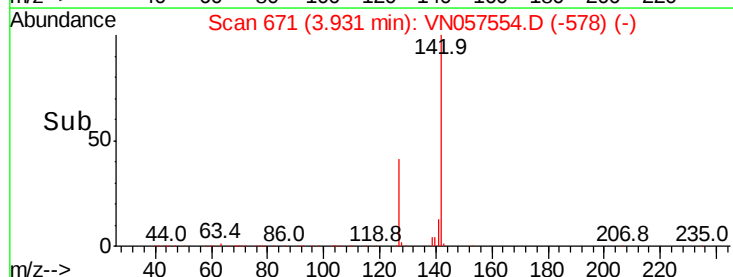
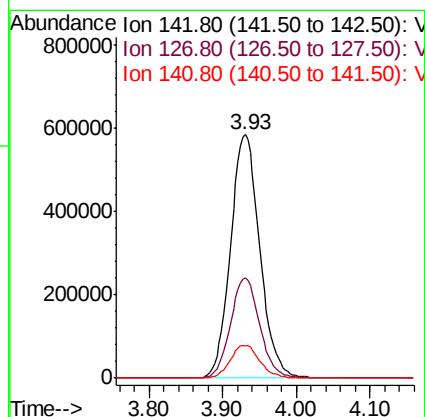
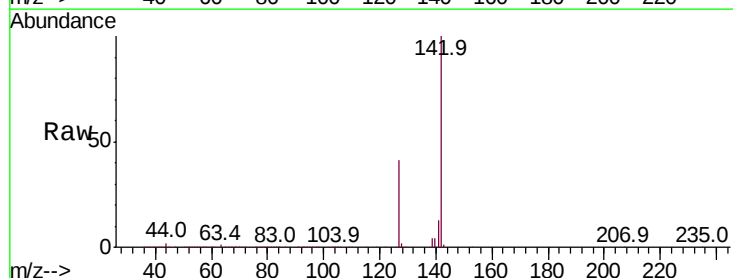
RT: 3.93 min Scan# 671

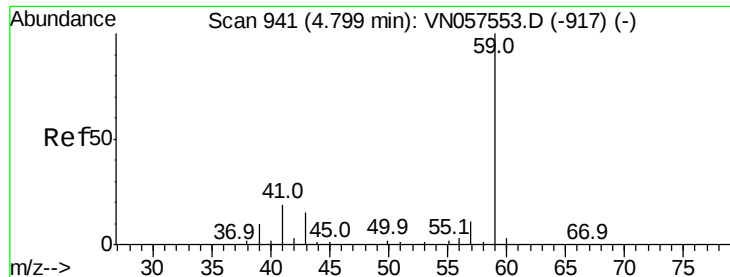
Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Tgt Ion:	142	Resp:	1613432
Ion Ratio	Lower	Upper	
142	100		
127	41.1	37.8	56.8
141	13.7	11.9	17.9





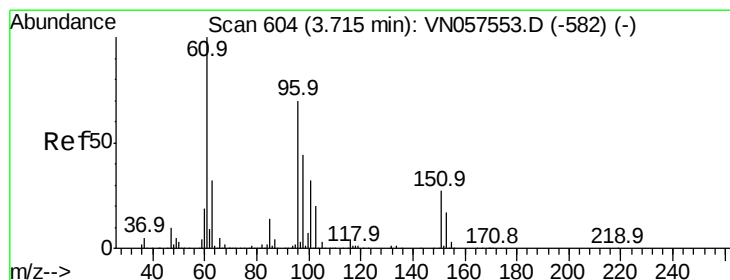
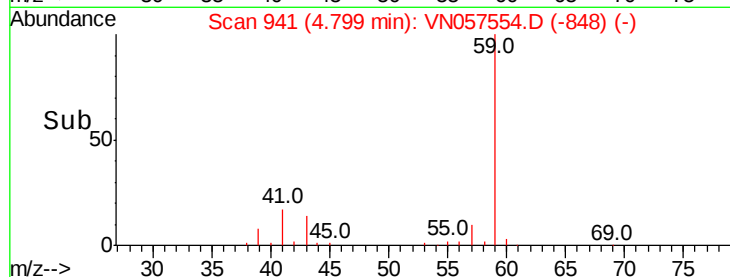
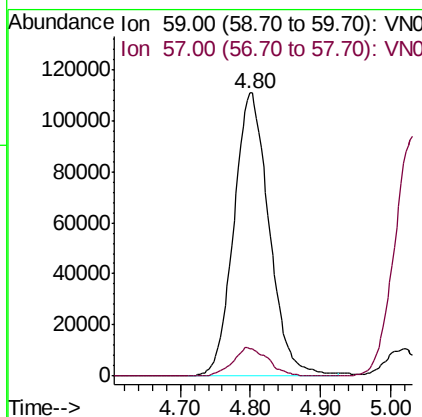
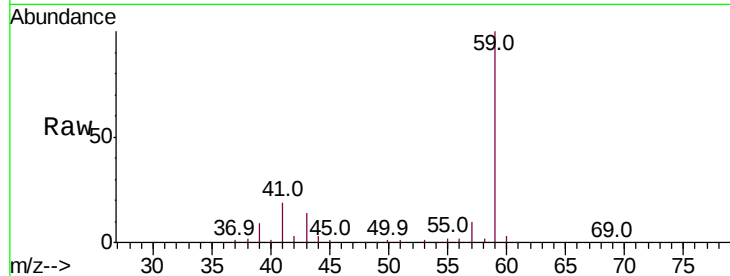
#11
Tert butyl alcohol
Concen: 349.531 ug/l
RT: 4.80 min Scan# 941
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
59	100	387175		
57	10.1		9.1	13.7

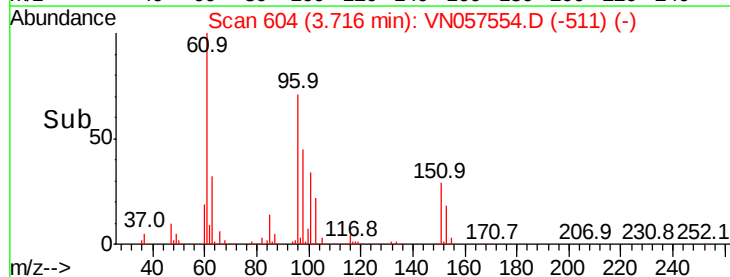
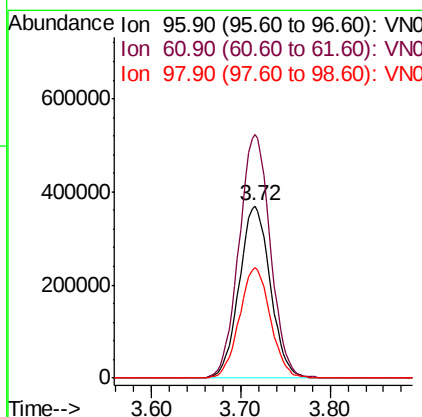
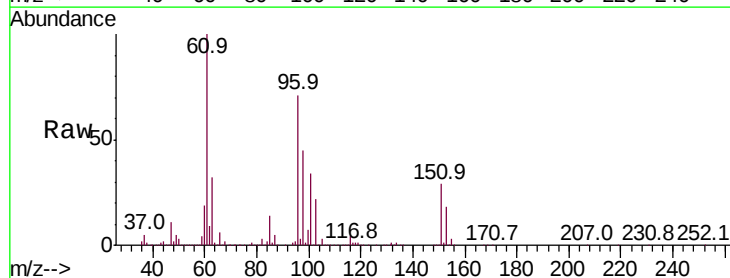
Manual Integrations
APPROVED

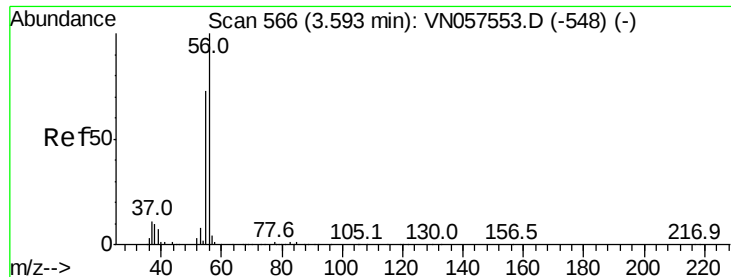
MMDadoda
9/3/2019 2:38:43 AM



#12
1,1-Dichloroethene
Concen: 96.054 ug/l
RT: 3.72 min Scan# 604
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	896364		
61	141.7		155.3	232.9#
98	64.2		50.2	75.2





#13

Acrolein

Concen: 311.778 ug/l

RT: 3.59 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 299680

Ion Ratio Lower Upper

56 100

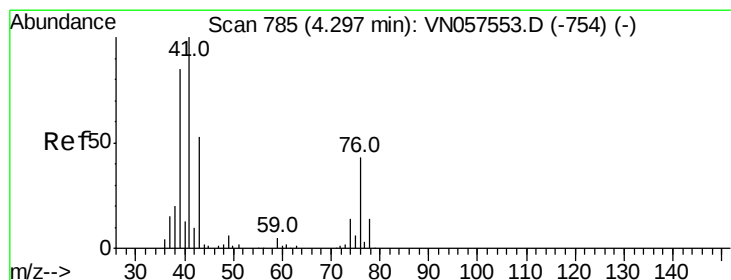
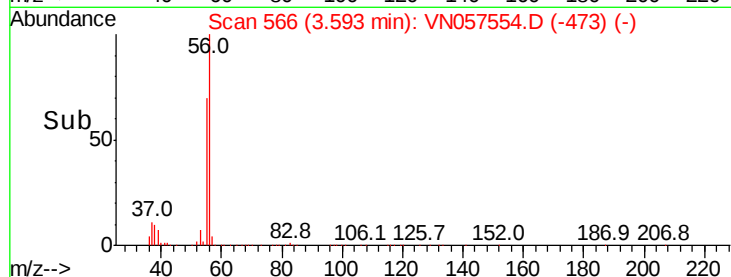
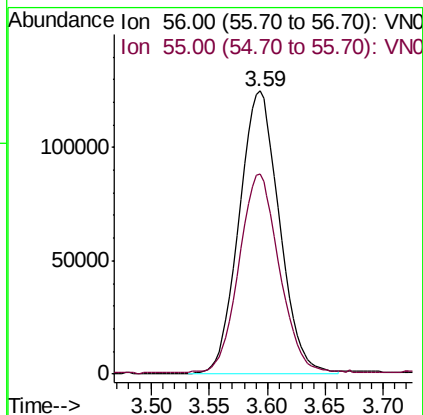
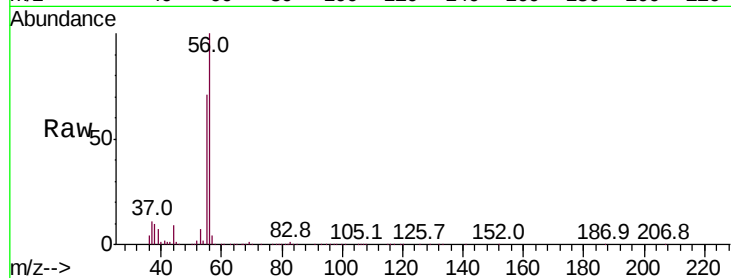
55 70.6 59.0 88.4

Manual Integrations

APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#14

Allyl chloride

Concen: 55.704 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

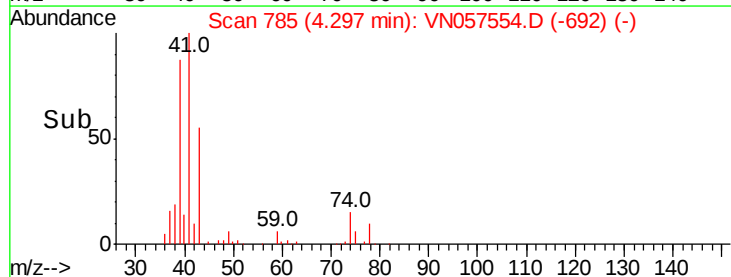
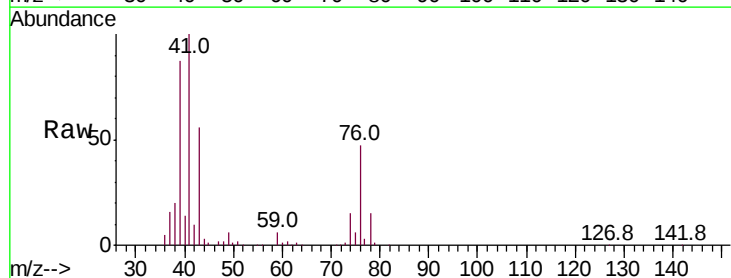
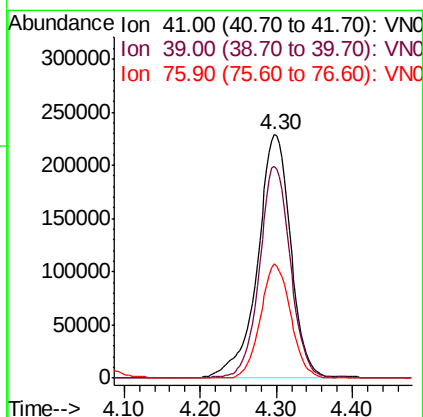
Tgt Ion: 41 Resp: 688013

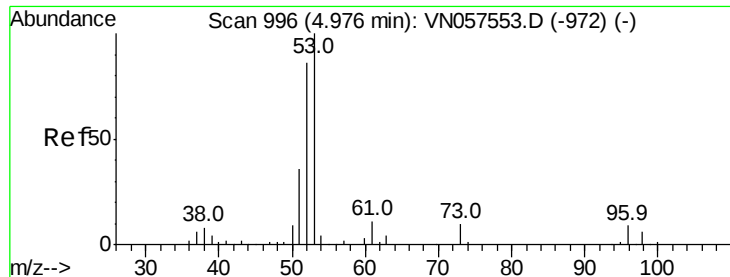
Ion Ratio Lower Upper

41 100

39 81.0 57.4 86.2

76 42.4 22.9 34.3#





#15

Acrylonitrile

Concen: 339.077 ug/l

RT: 4.97 min Scan# 995

Delta R.T. -0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 53 Resp: 1012896

Ion Ratio Lower Upper

53 100

52 81.9 67.0 100.6

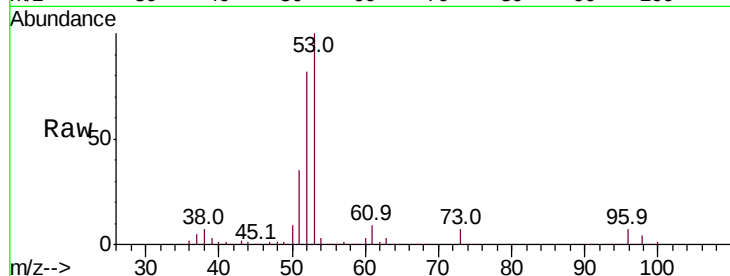
51 36.6 29.9 44.9

Manual Integrations

APPROVED

MMDadoda

9/3/2019 2:38:43 AM

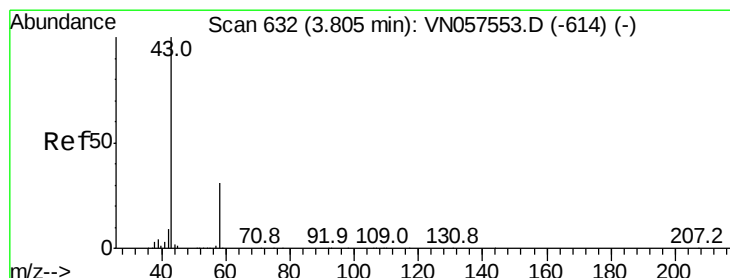
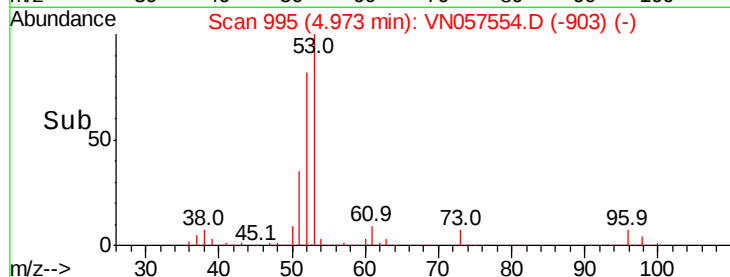
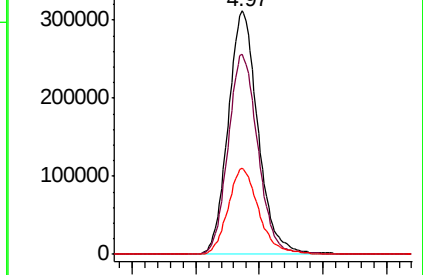


Abundance Ion 53.00 (52.70 to 53.70): VN057553.D (-972) (-)

Ion 52.00 (51.70 to 52.70): VN057553.D (-972) (-)

Ion 51.00 (50.70 to 51.70): VN057553.D (-972) (-)

4.97



#16

Acetone

Concen: 331.216 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN057554.D

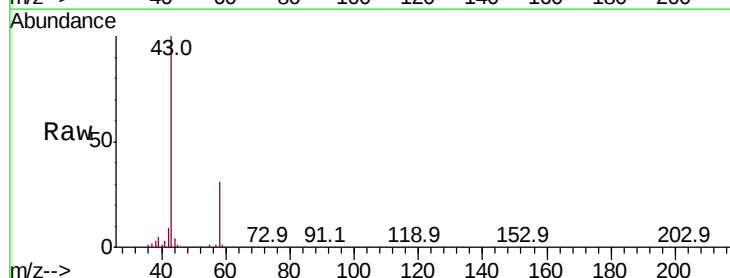
Acq: 29 Aug 2019 17:04

Tgt Ion: 43 Resp: 1466942

Ion Ratio Lower Upper

43 100

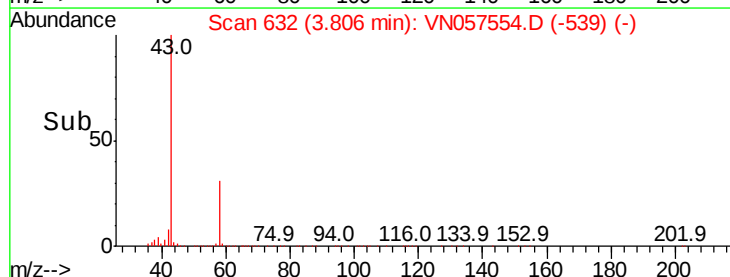
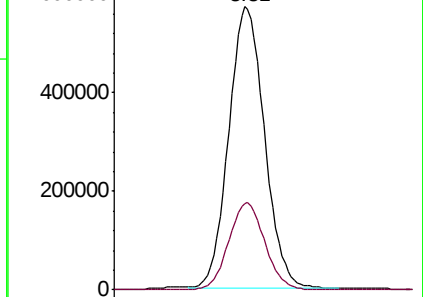
58 30.7 22.1 33.1

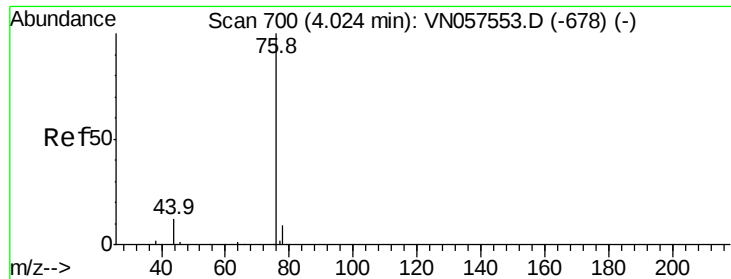


Abundance Ion 43.00 (42.70 to 43.70): VN057553.D (-614) (-)

Ion 58.00 (57.70 to 58.70): VN057553.D (-614) (-)

3.81





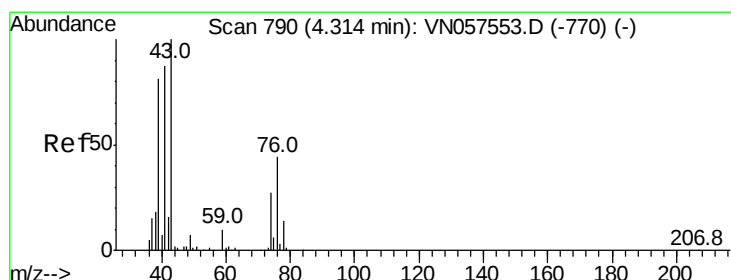
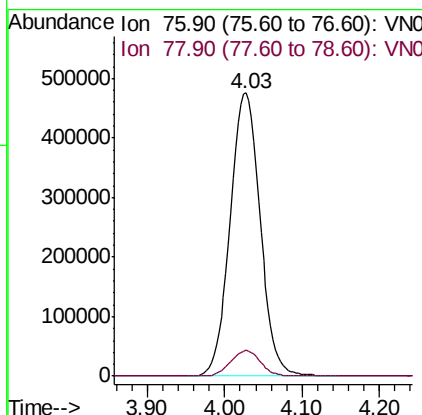
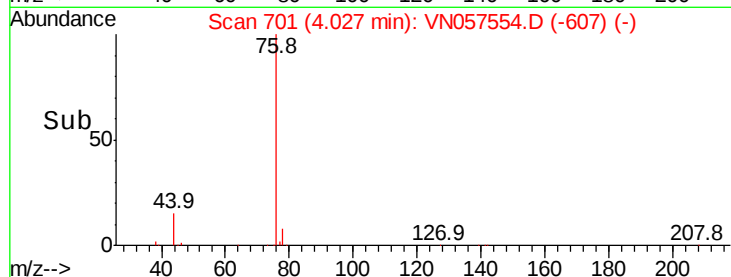
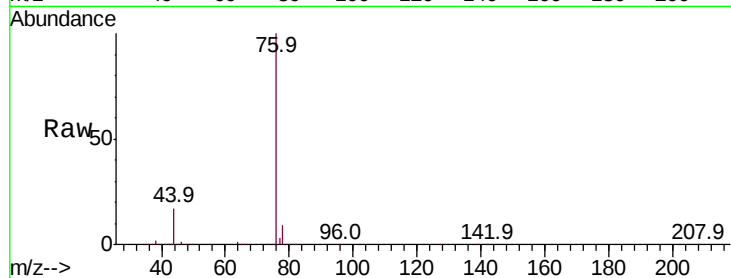
#17
Carbon Disulfide
Concen: 76.052 ug/l
RT: 4.03 min Scan# 701
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 76 Resp: 1282163
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7

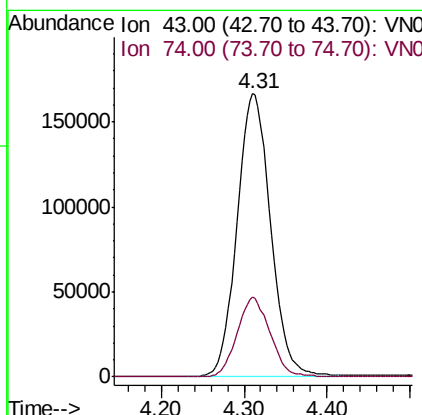
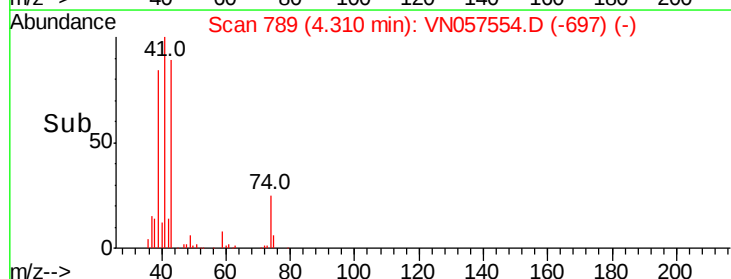
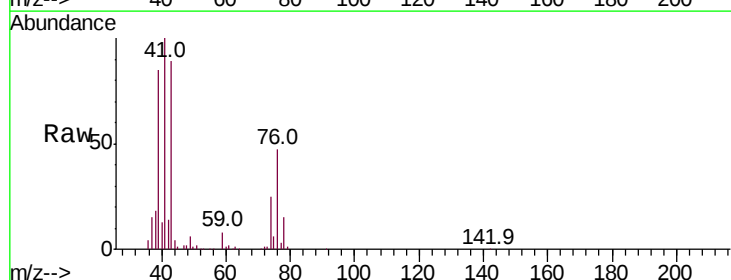
Manual Integrations
APPROVED

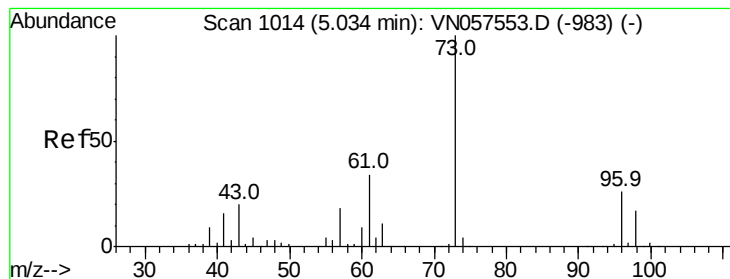
MMDadoda
9/3/2019 2:38:43 AM



#18
Methyl Acetate
Concen: 44.469 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion: 43 Resp: 465614
Ion Ratio Lower Upper
43 100
74 27.7 15.9 23.9#





#19

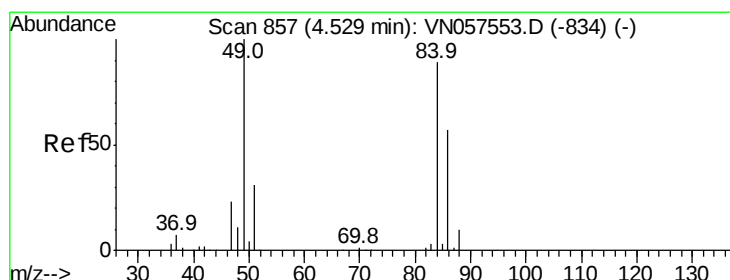
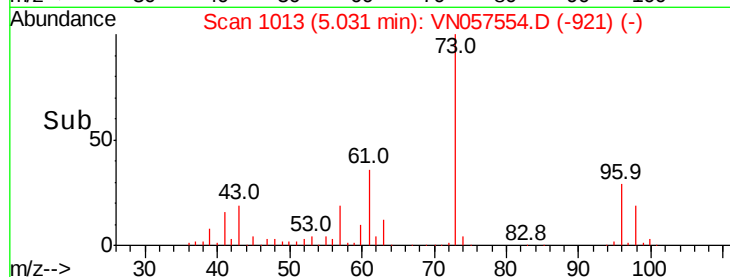
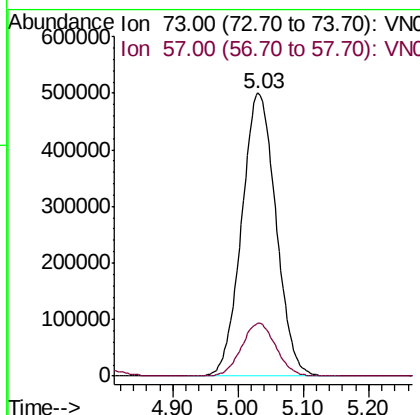
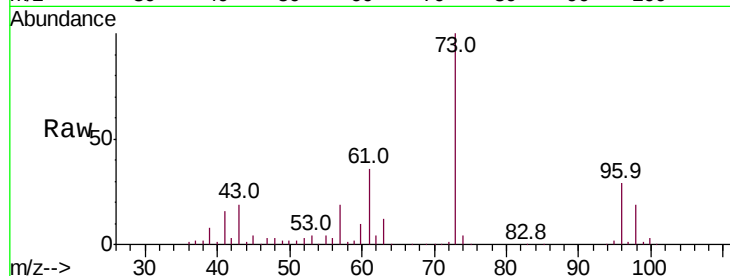
Methyl tert-butyl Ether
 Concen: 84.048 ug/l
 RT: 5.03 min Scan# 1013
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 73 Resp: 1822527
 Ion Ratio Lower Upper
 73 100
 57 18.7 19.1 28.7#

Manual Integrations
 APPROVED

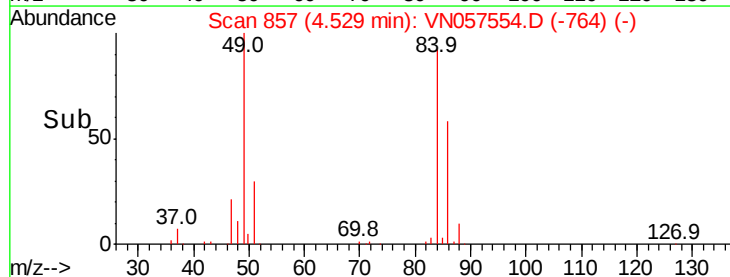
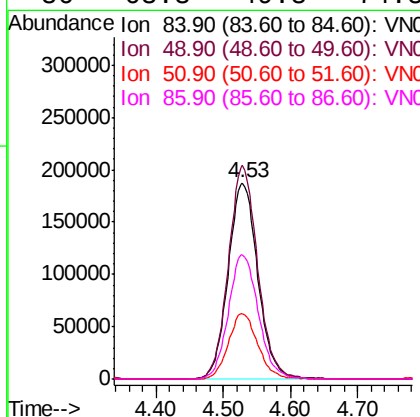
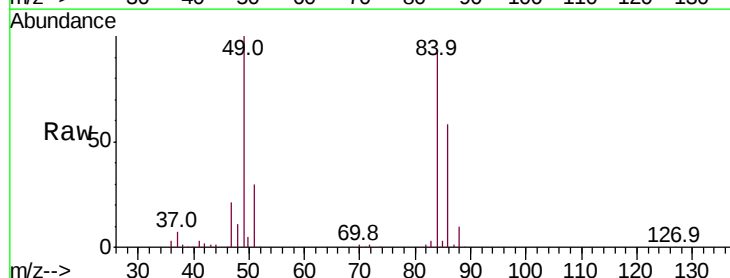
MMDadoda
 9/3/2019 2:38:43 AM

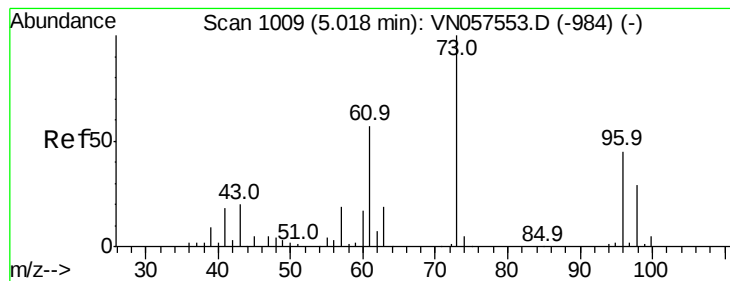


#20

Methylene Chloride
 Concen: 82.380 ug/l
 RT: 4.53 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion: 84 Resp: 574238
 Ion Ratio Lower Upper
 84 100
 49 109.1 117.0 175.4#
 51 33.1 35.5 53.3#
 86 63.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 94.035 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 605841

Ion Ratio Lower Upper

96 100

61 124.8 127.9 191.9#

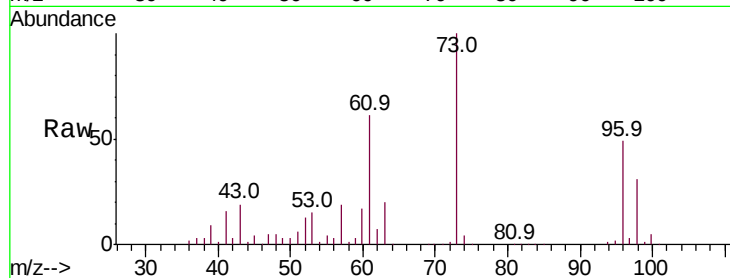
98 63.9 50.6 76.0

Manual Integrations

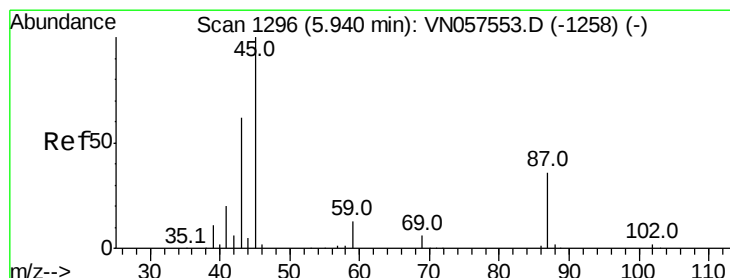
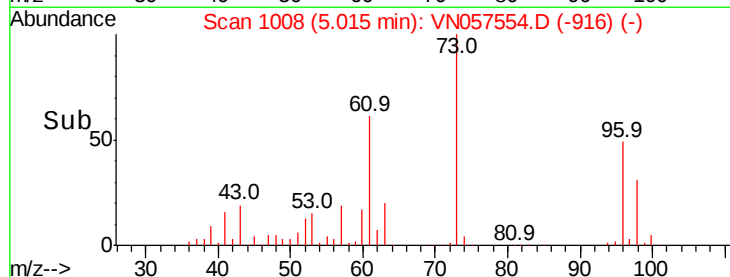
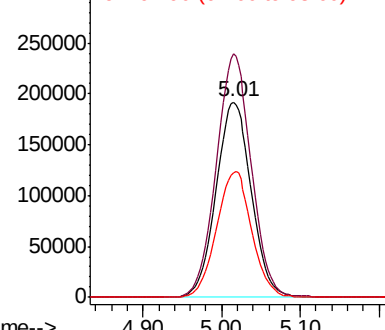
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 63.953 ug/l

RT: 5.94 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Tgt Ion: 45 Resp: 1558332

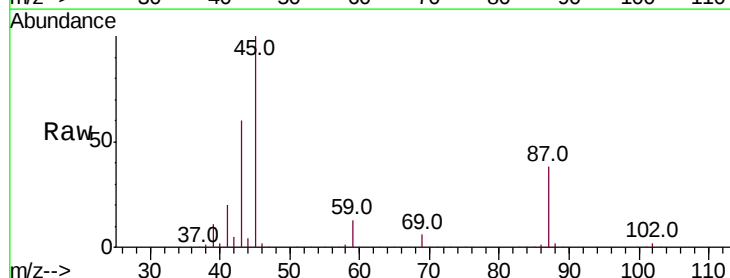
Ion Ratio Lower Upper

45 100

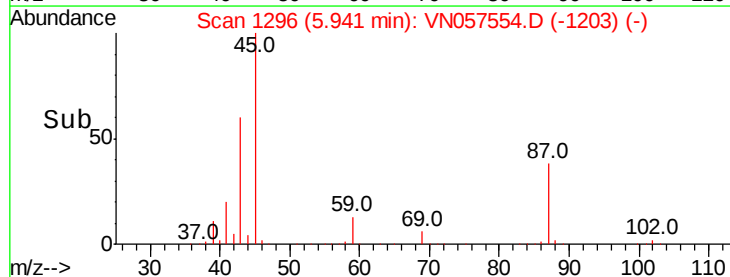
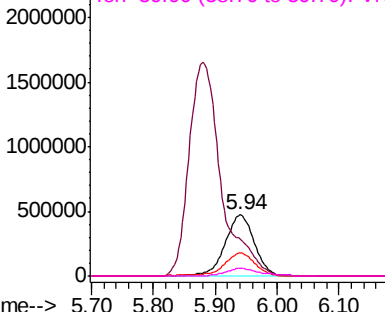
43 59.8 46.9 70.3

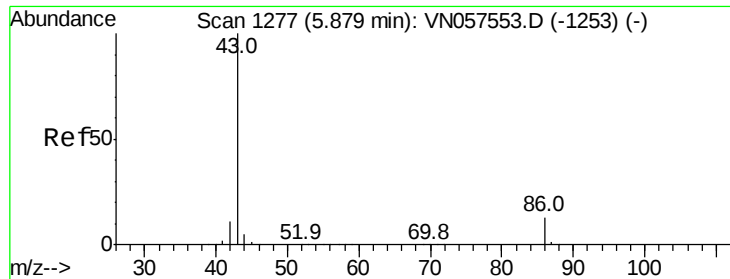
87 38.1 19.3 28.9#

59 13.0 8.7 13.1



Abundance Ion 45.00 (44.70 to 45.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 87.00 (86.70 to 87.70): VNO
Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 312.072 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tot Ion: 43 Resp: 5969936

Ion Ratio Lower Upper

43 100

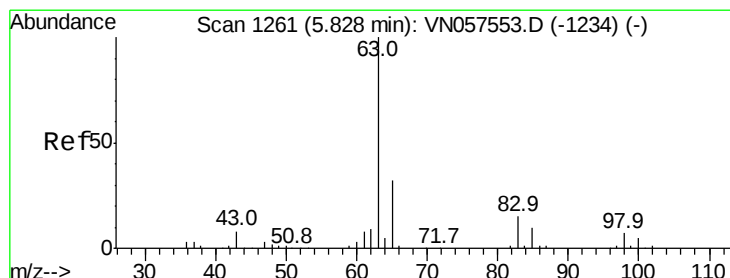
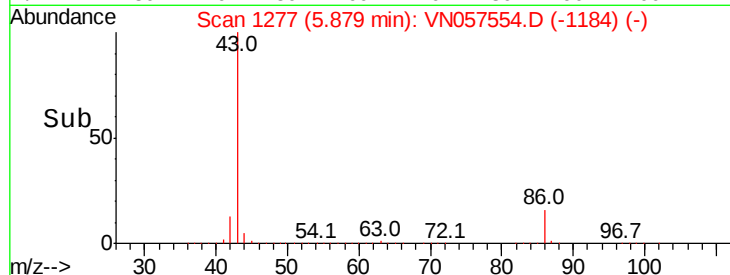
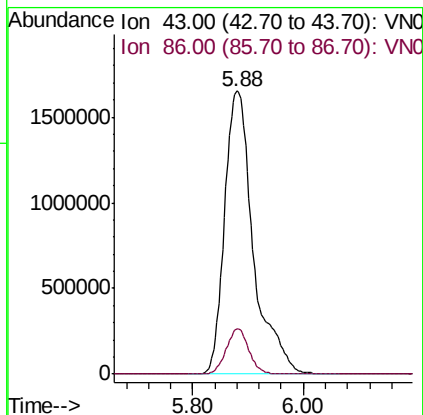
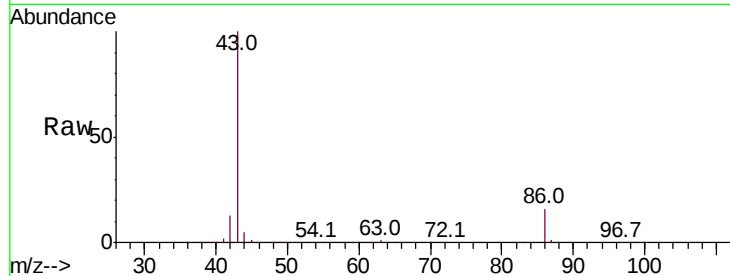
86 15.8 6.7 10.1#

Manual Integrations

APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#24

1,1-Dichloroethane

Concen: 77.277 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

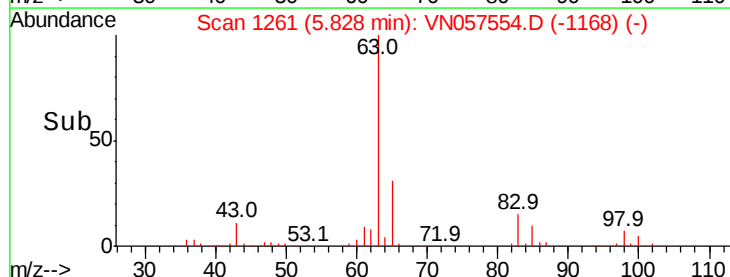
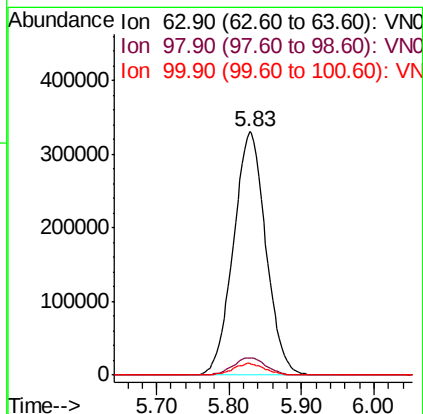
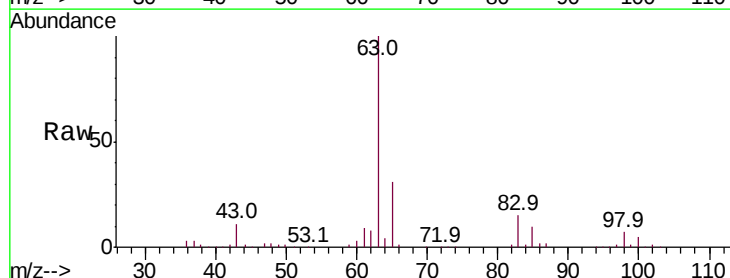
Tgt Ion: 63 Resp: 1026740

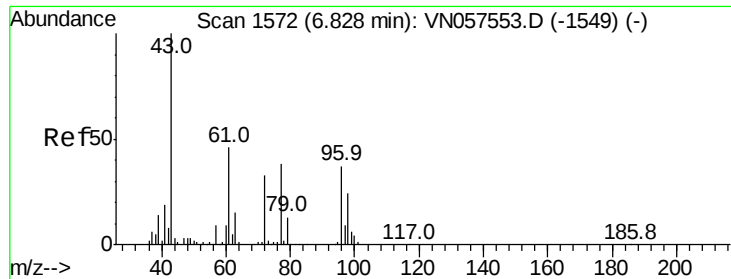
Ion Ratio Lower Upper

63 100

98 7.0 2.9 8.6

100 4.7 2.1 6.3





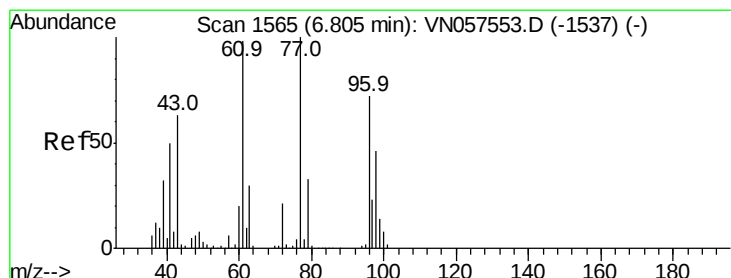
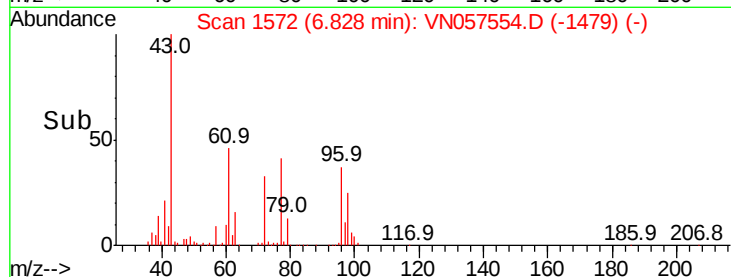
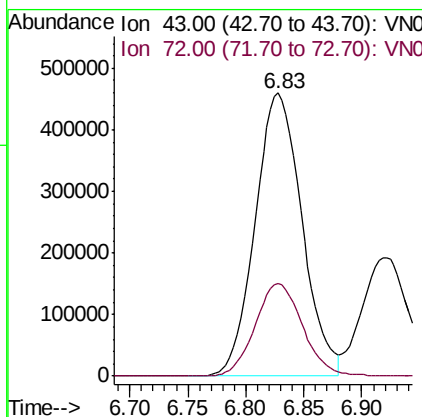
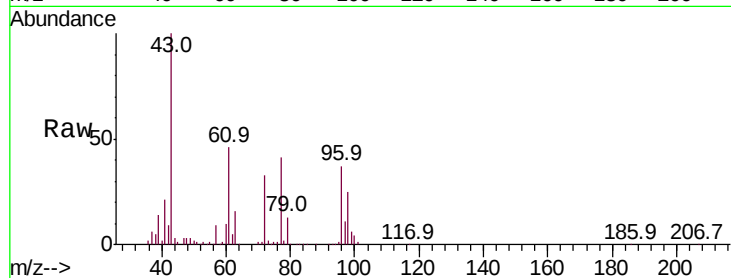
#25
 2-Butanone
 Concen: 292.388 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion: 43 Resp: 1288444
 Ion Ratio Lower Upper
 43 100
 72 32.7 17.8 26.8#

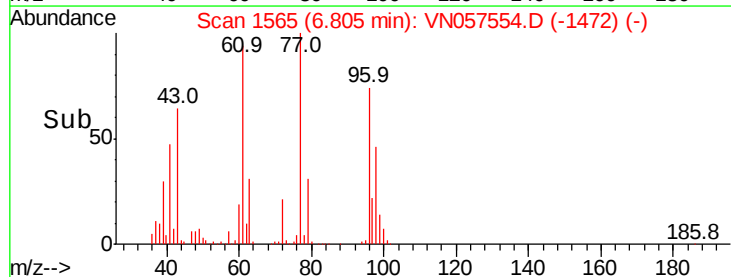
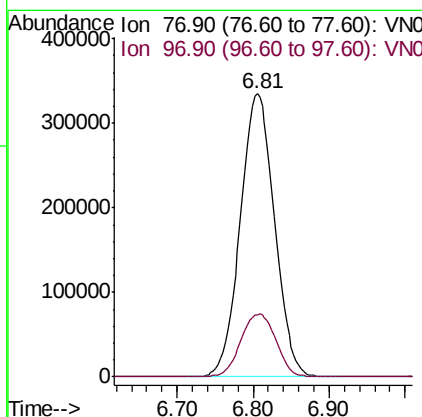
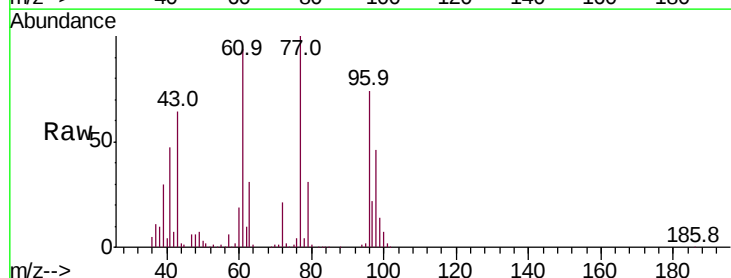
Manual Integrations
 APPROVED

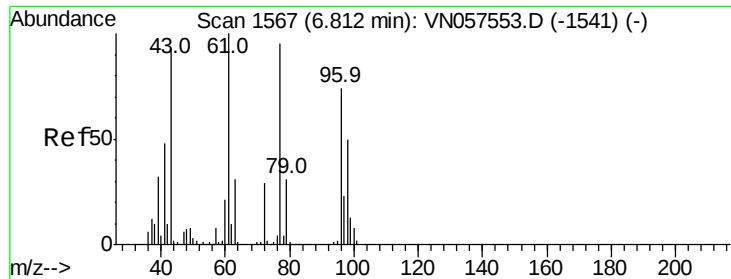
MMDadoda
 9/3/2019 2:38:43 AM



#26
 2,2-Dichloropropane
 Concen: 88.555 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion: 77 Resp: 1048808
 Ion Ratio Lower Upper
 77 100
 97 22.9 10.8 32.3





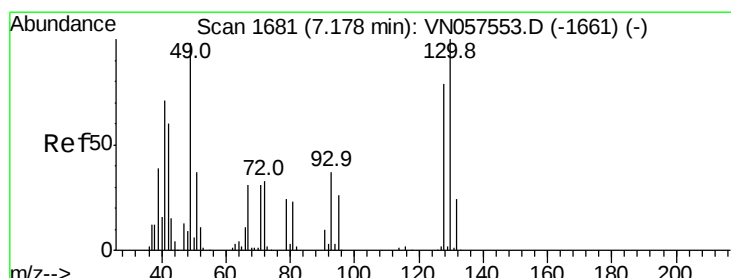
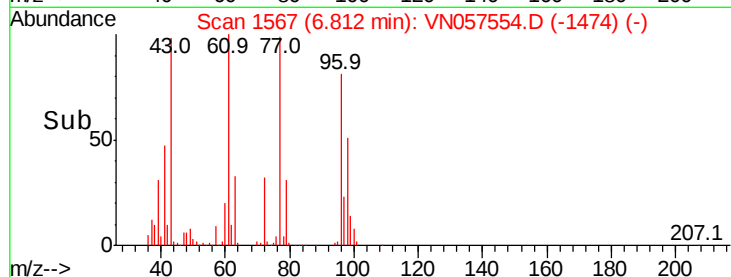
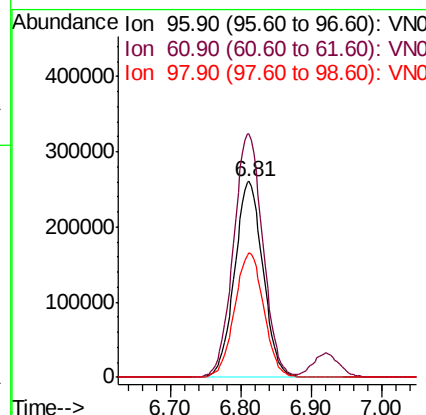
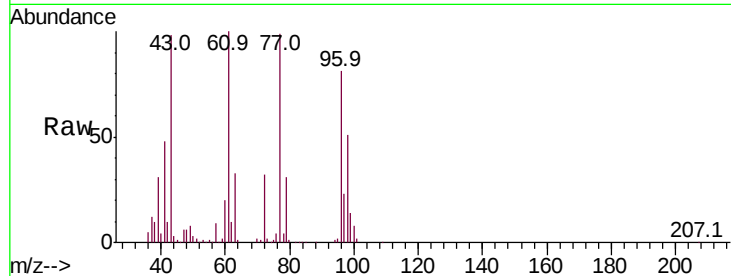
#27
 cis-1,2-Dichloroethene
 Concen: 95.553 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	128.6	0.0	334.8	
98	65.3	0.0	127.4	

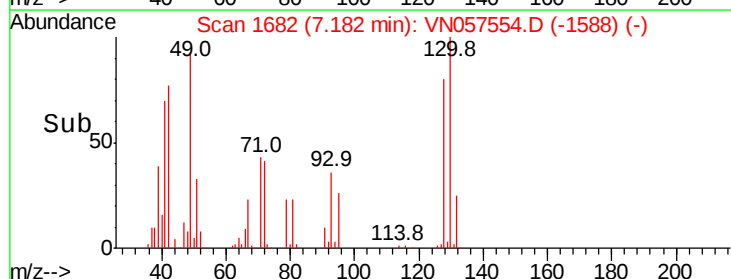
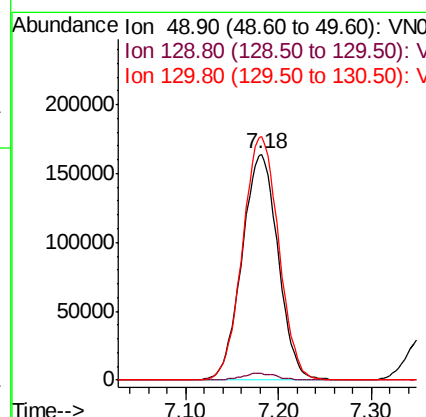
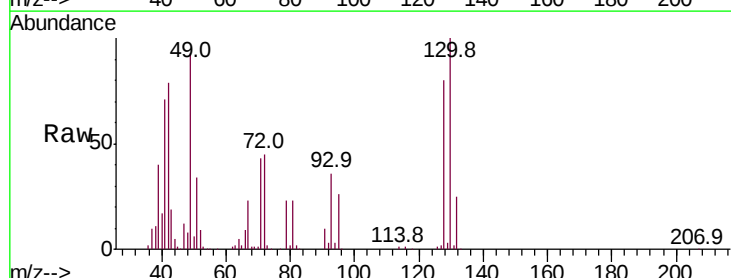
Manual Integrations
 APPROVED

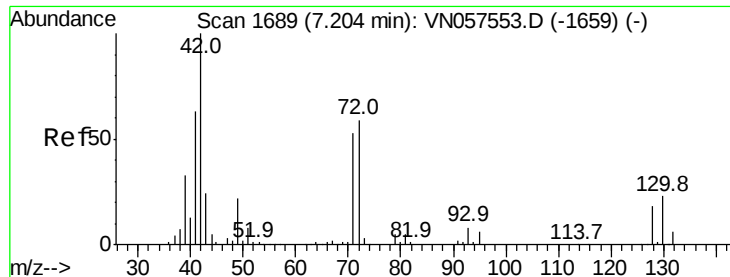
MMDadoda
 9/3/2019 2:38:43 AM



#28
 Bromochloromethane
 Concen: 64.530 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.9	0.0	3.6	
130	108.2	48.6	72.8#	





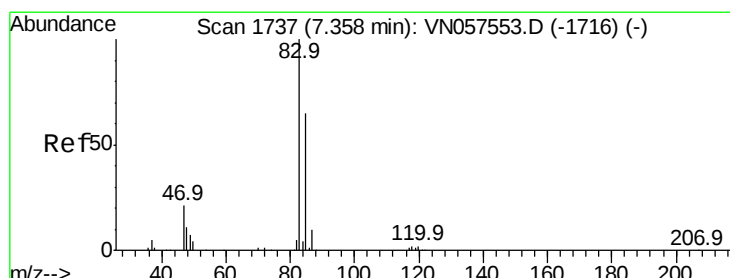
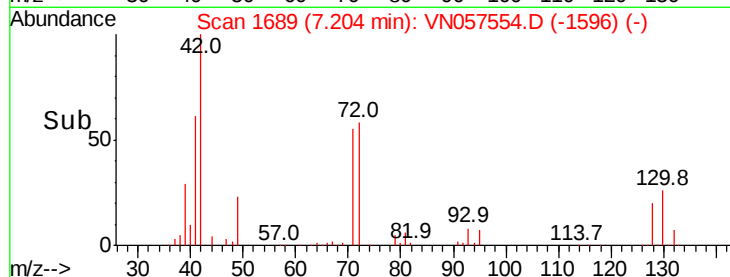
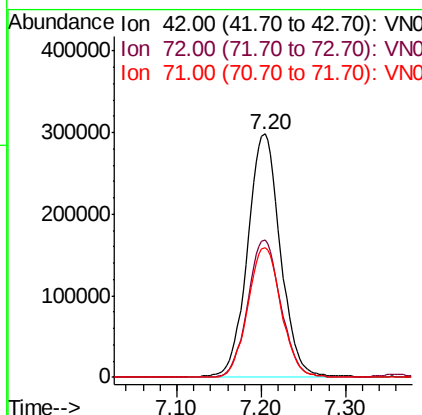
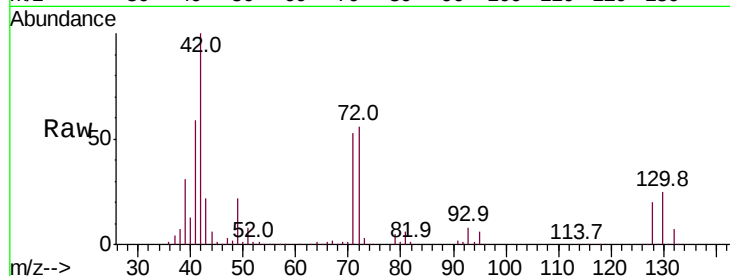
#29
Tetrahydrofuran
Concen: 279.044 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
42	100		
72	57.1	30.1	45.1#
71	54.5	28.8	43.2#

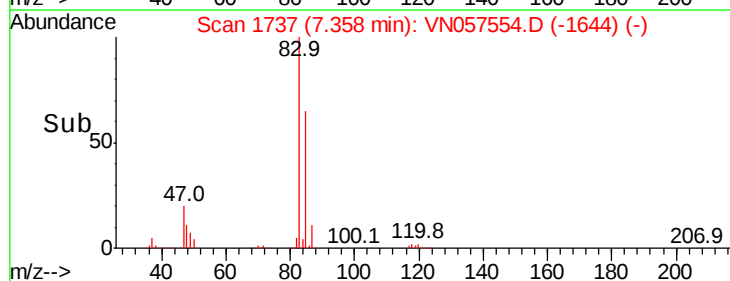
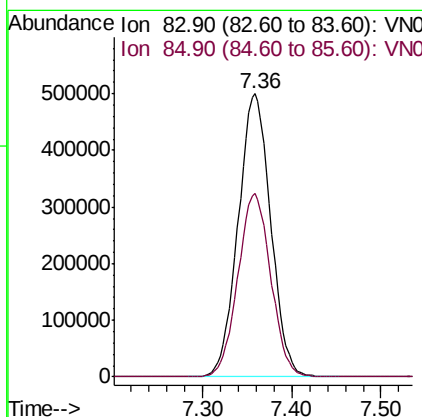
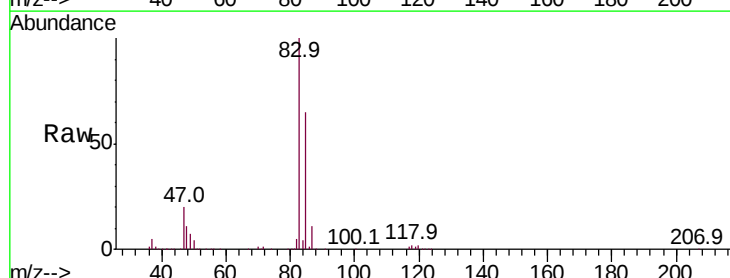
Manual Integrations
APPROVED

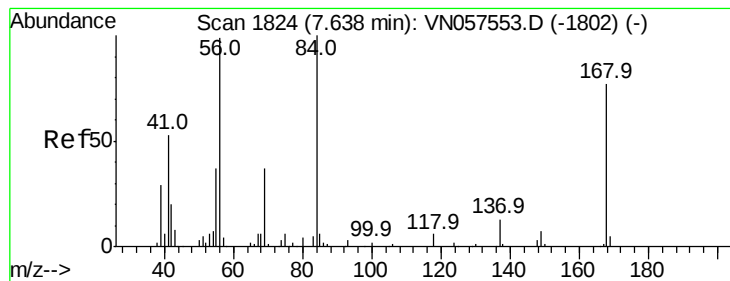
MMDadoda
9/3/2019 2:38:43 AM



#30
Chloroform
Concen: 88.863 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.9	77.9





#31

Cyclohexane

Concen: 70.590 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 886426

Ion Ratio Lower Upper

56 100

69 35.9 25.0 37.6

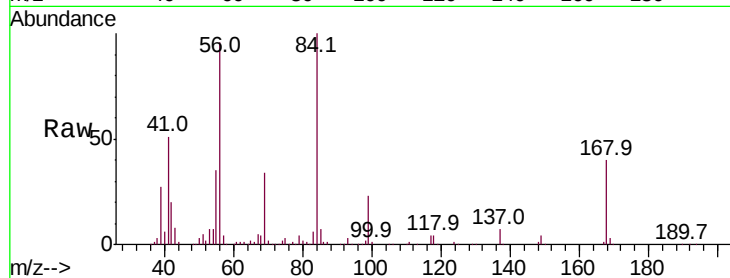
84 102.3 62.5 93.7#

Manual Integrations

APPROVED

MMDadoda

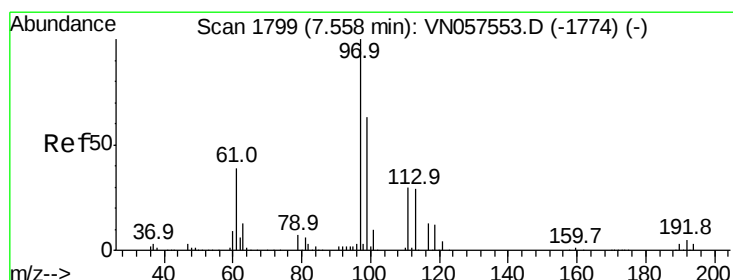
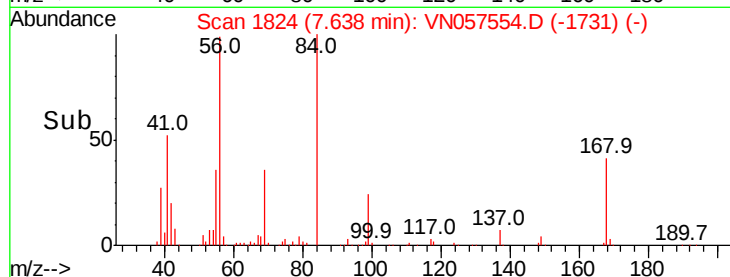
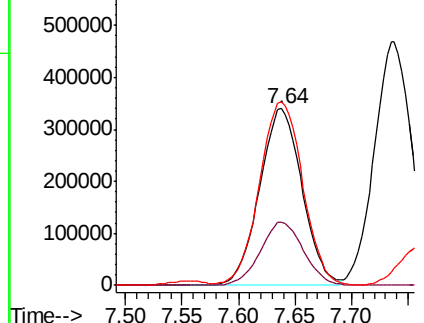
9/3/2019 2:38:43 AM



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 101.106 ug/l

RT: 7.56 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

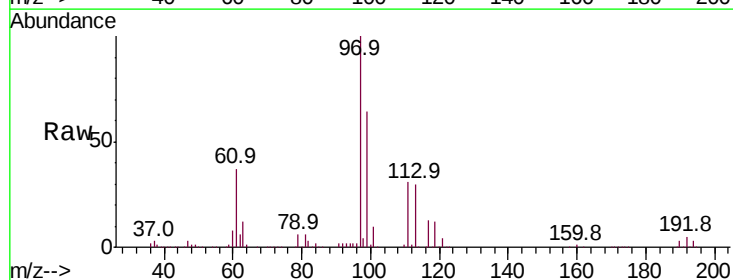
Tgt Ion: 97 Resp: 1204695

Ion Ratio Lower Upper

97 100

99 64.2 51.0 76.6

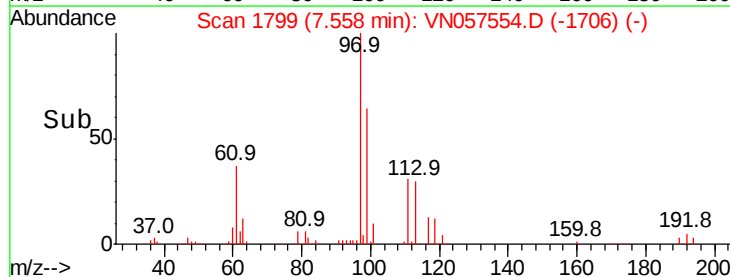
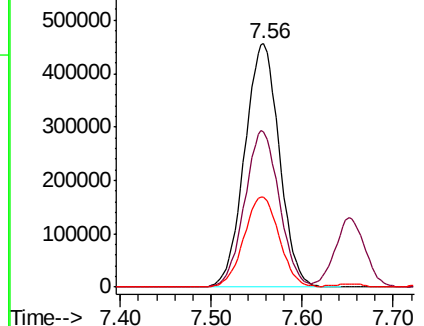
61 37.8 39.8 59.6#

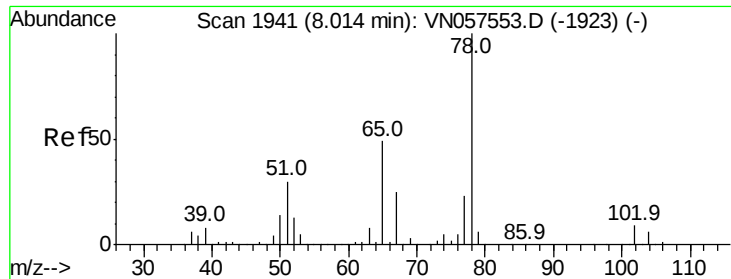


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





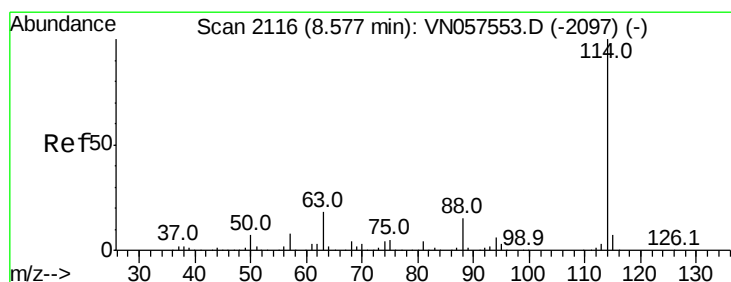
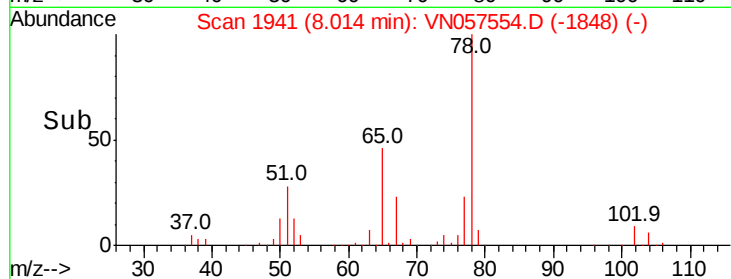
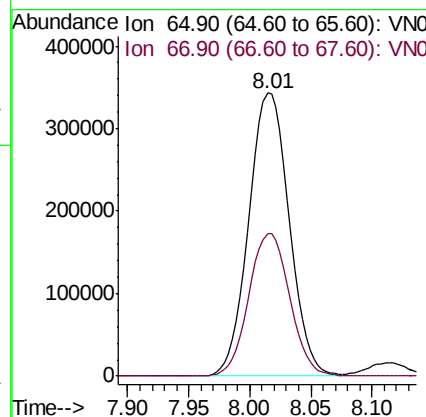
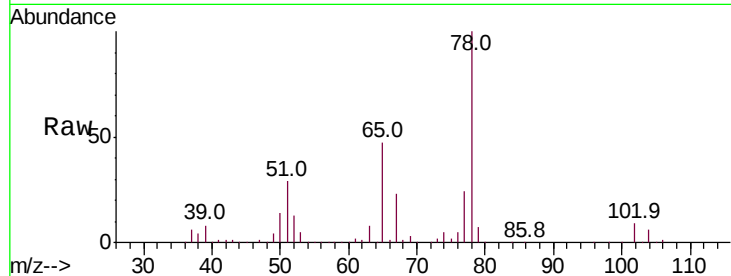
#33
 1,2-Dichloroethane-d4
 Concen: 86.025 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	788697		
67	51.0	0.0	103.8	

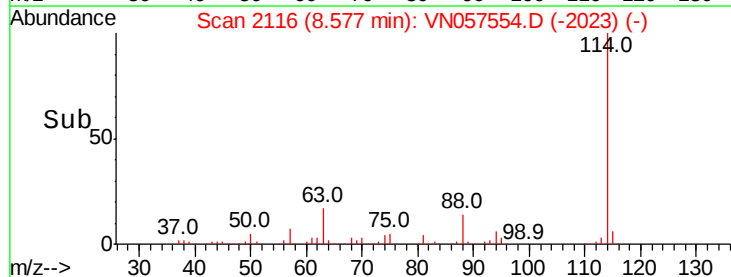
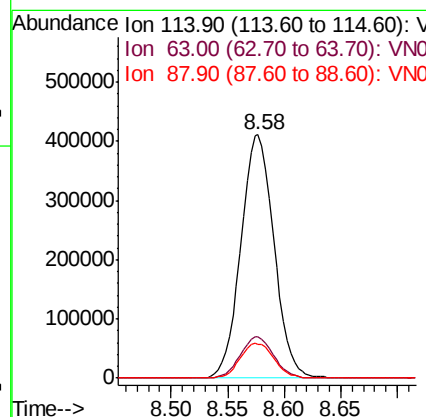
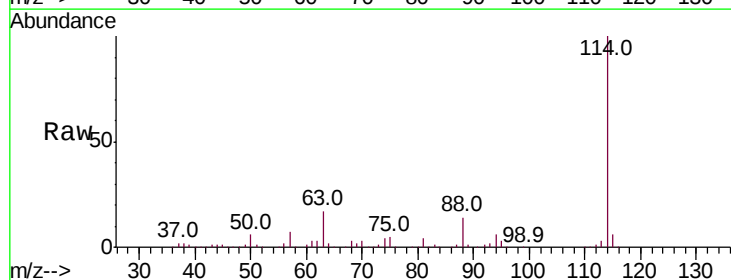
Manual Integrations
 APPROVED

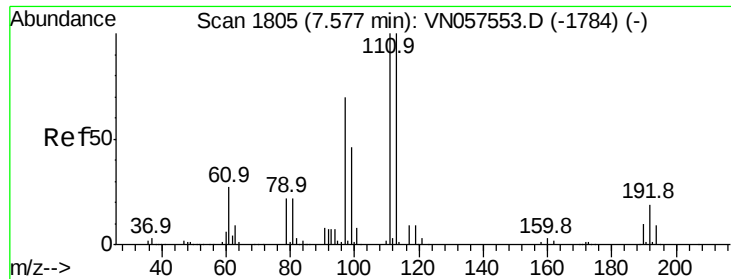
MMDadoda
 9/3/2019 2:38:43 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	838790		
63	17.1	0.0	50.2	
88	14.1	0.0	34.6	





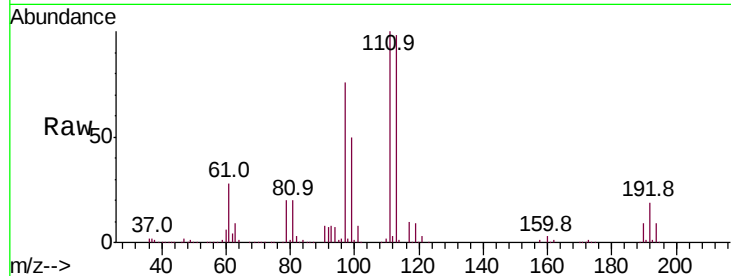
#35
 Dibromofluoromethane
 Concen: 115.333 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

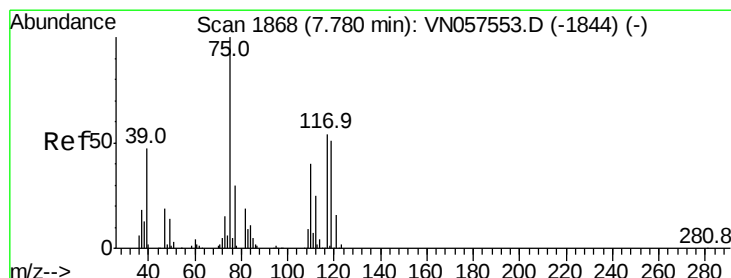
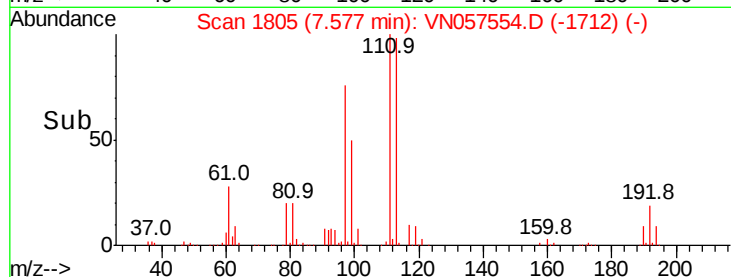
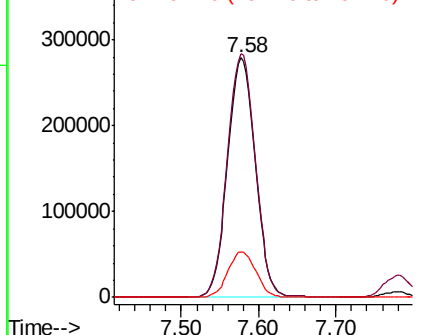
Tot Ion	Ratio	Resp	Lower	Upper
113	100	695056		
111	102.7	83.8	125.6	
192	19.1	13.5	20.3	

Manual Integrations
 APPROVED

MMDadoda
 9/3/2019 2:38:43 AM

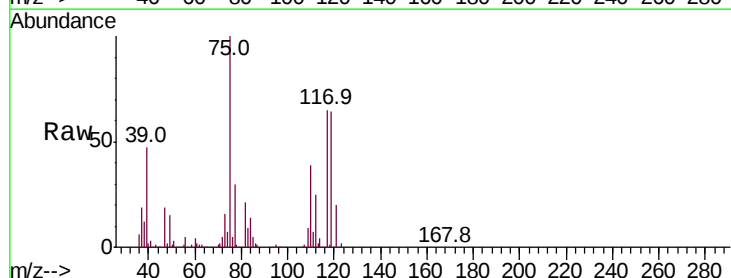


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

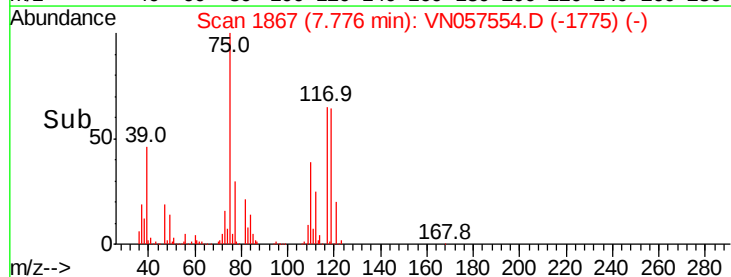
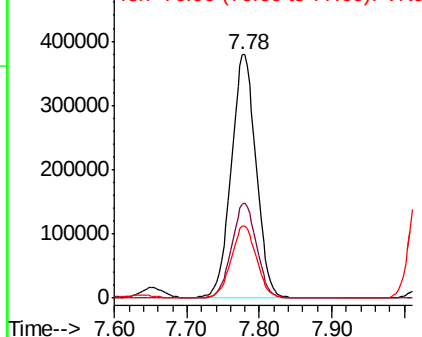


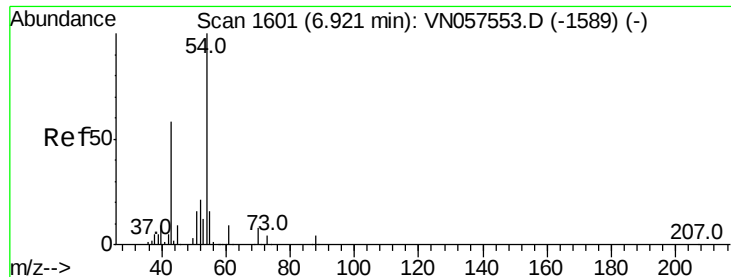
#36
 1,1-Dichloropropene
 Concen: 102.842 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	904069		
110	39.3	16.1	48.3	
77	30.2	24.8	37.2	



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





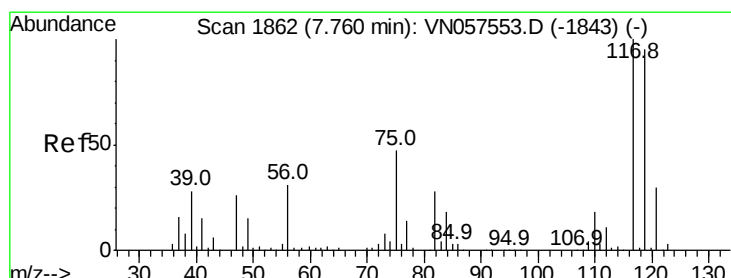
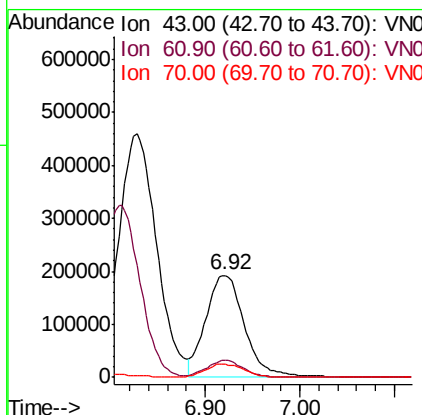
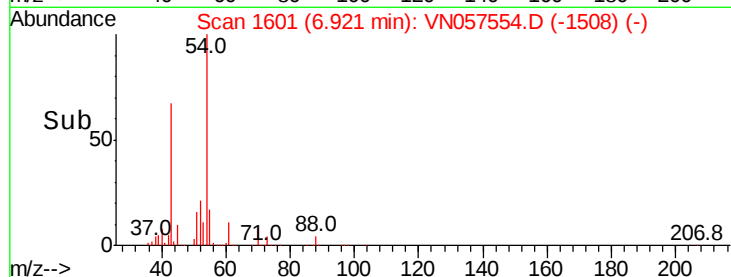
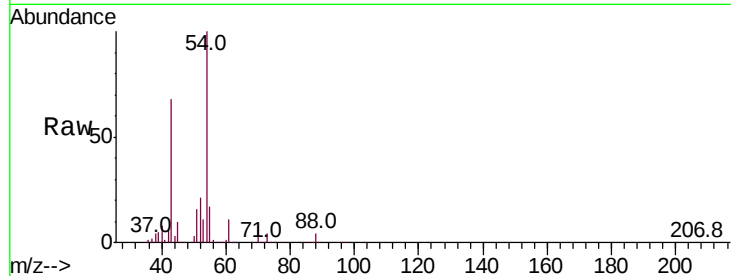
#37
Ethyl Acetate
Concen: 66.857 ug/l
RT: 6.92 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.7	9.9	14.9#
70	12.7	7.0	10.6#

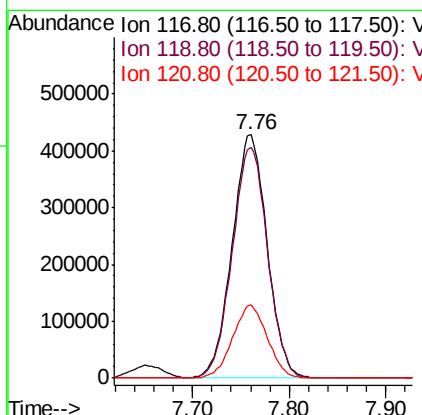
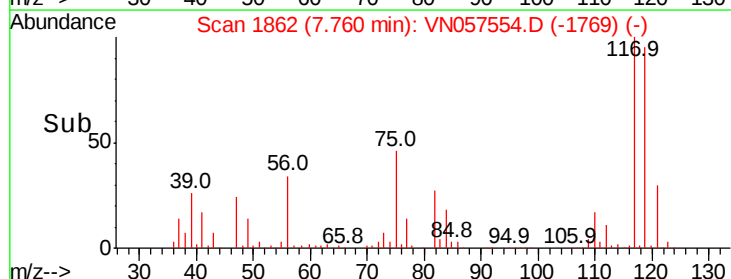
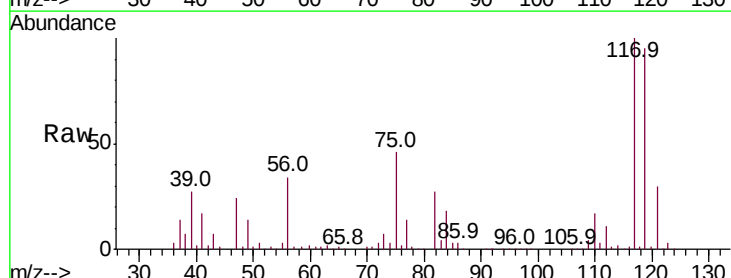
Manual Integrations
APPROVED

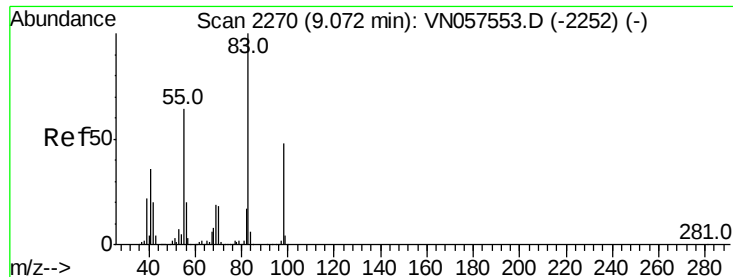
MMDadoda
9/3/2019 2:38:43 AM



#38
Carbon Tetrachloride
Concen: 119.153 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.2	114.4
121	29.9	23.8	35.6





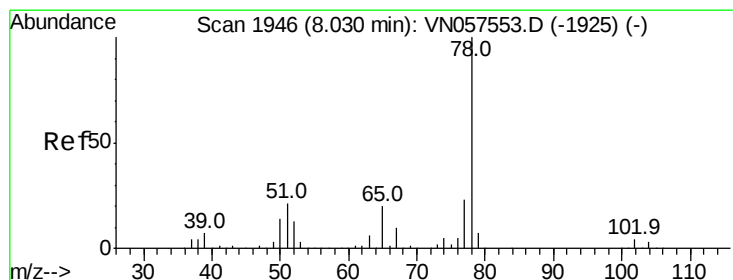
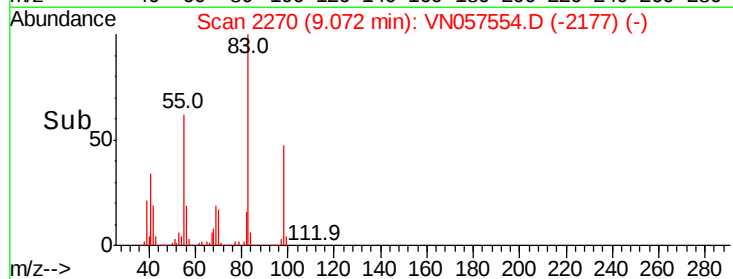
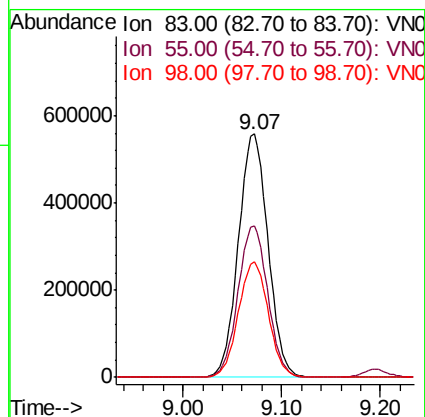
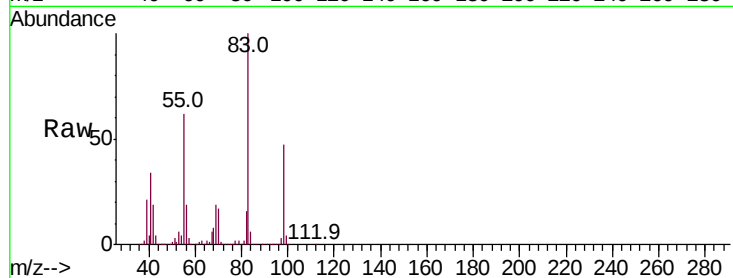
#39
Methvlcvclohexane
Concen: 110.326 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
83	100		
55	62.5	68.6	102.8#
98	47.3	36.6	54.8

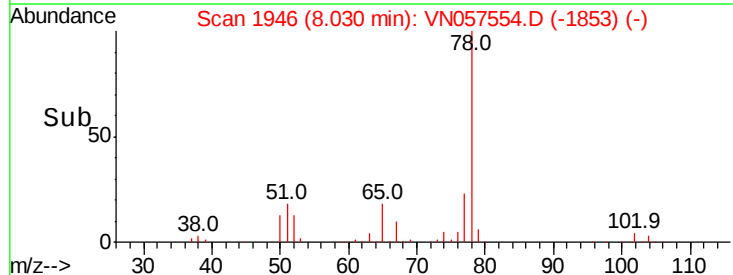
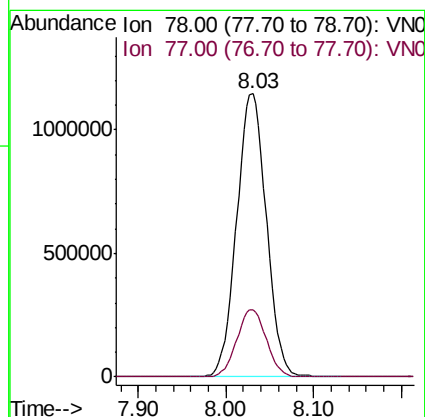
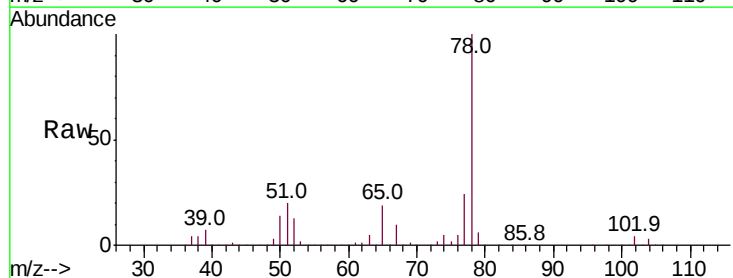
Manual Integrations
APPROVED

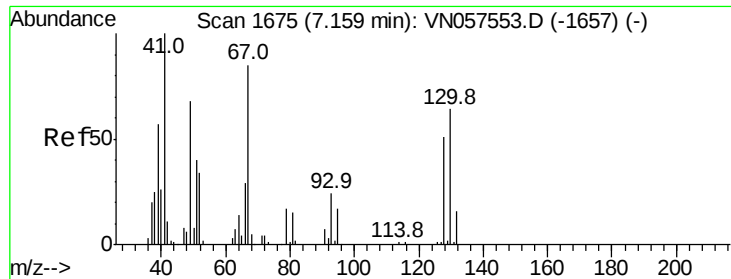
MMDadoda
9/3/2019 2:38:43 AM



#40
Benzene
Concen: 102.165 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.5	27.7





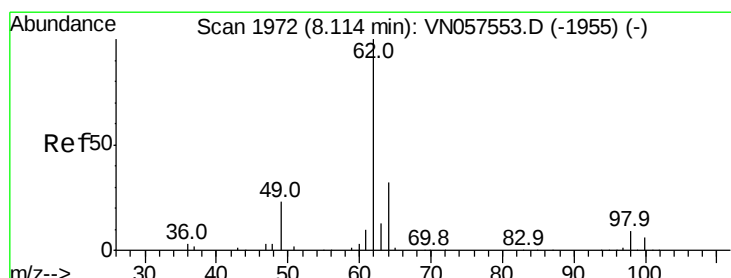
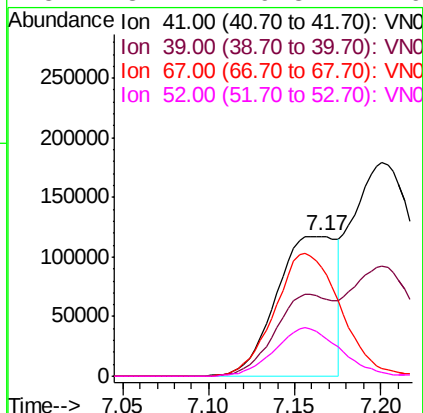
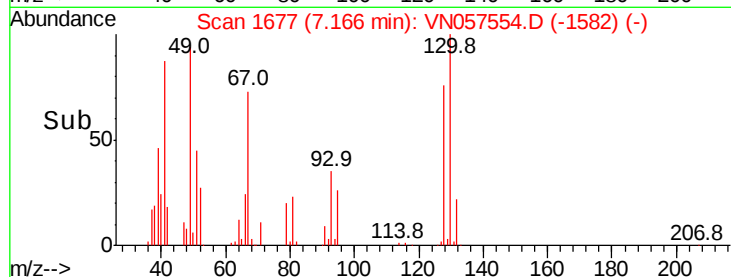
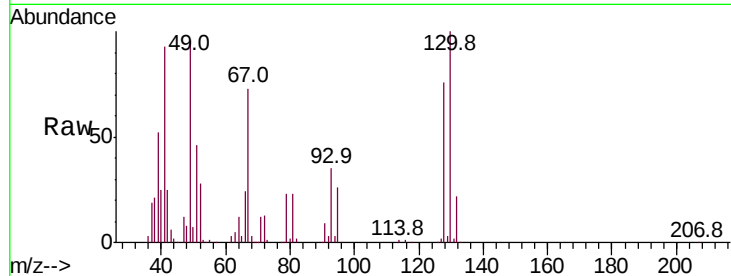
#41
Methacrylonitrile
Concen: 74.333 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.01 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	41	Ratio	100	Resp	285645	Lower	Upper
Ion	41	100					
	39	53.1		53.6	80.4#		
	67	96.7		65.4	98.2		
	52	37.4		29.8	44.6		

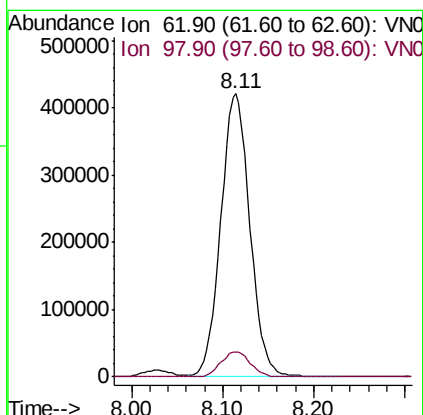
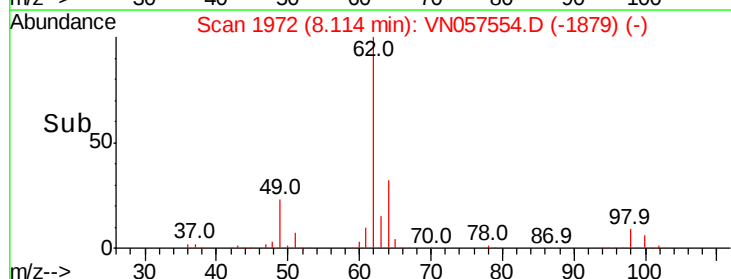
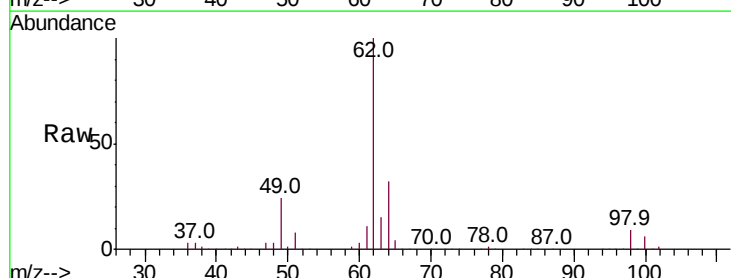
Manual Integrations
APPROVED

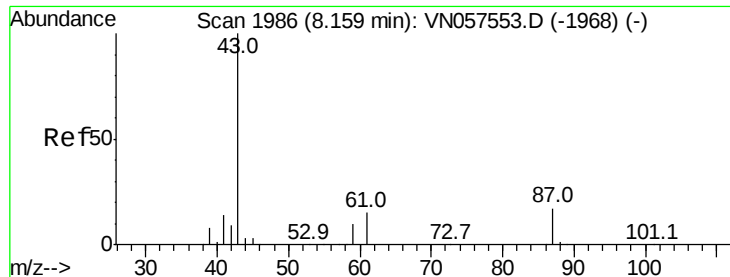
MMDadoda
9/3/2019 2:38:43 AM



#42
1,2-Dichloroethane
Concen: 92.740 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	62	Ratio	100	Resp	931425	Lower	Upper
Ion	62	100					
	98	9.1		0.0	15.4		





#43

Isopropyl Acetate

Concen: 70.129 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. -0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1050783

Ion Ratio Lower Upper

43 100

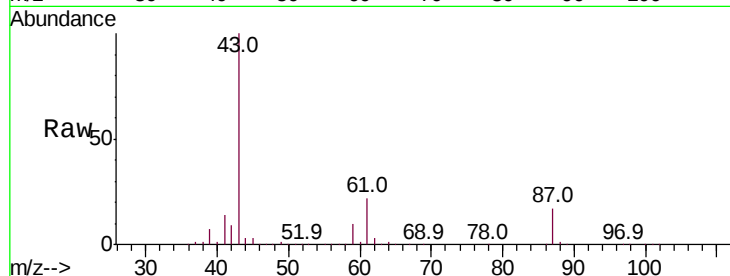
61 21.8 14.5 21.7#

87 17.5 8.6 12.8#

Manual Integrations
APPROVED

MMDadoda

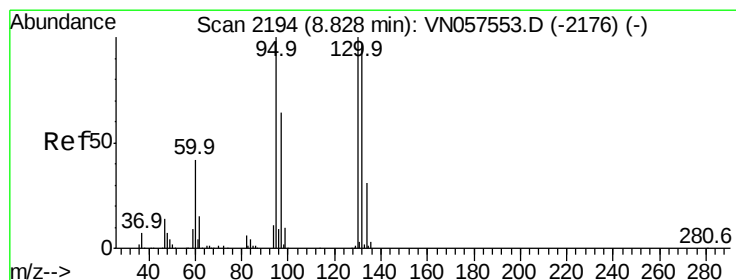
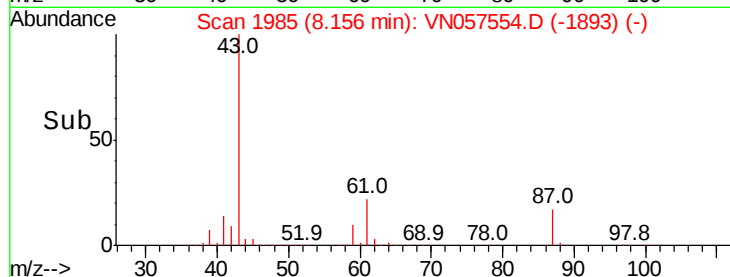
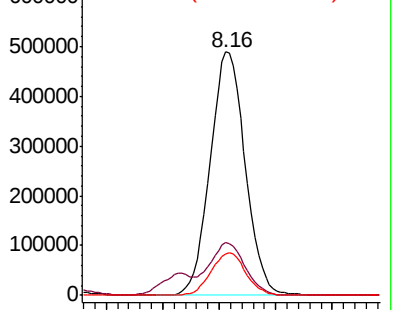
9/3/2019 2:38:43 AM



Abundance Ion 43.00 (42.70 to 43.70): VN057553.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN057553.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN057553.D (-1968) (-)



#44

Trichloroethene

Concen: 128.508 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN057554.D

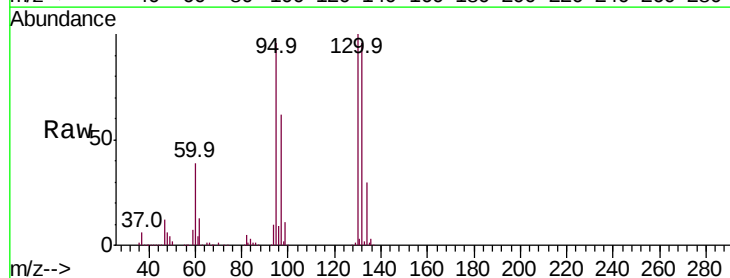
Acq: 29 Aug 2019 17:04

Tgt Ion:130 Resp: 787613

Ion Ratio Lower Upper

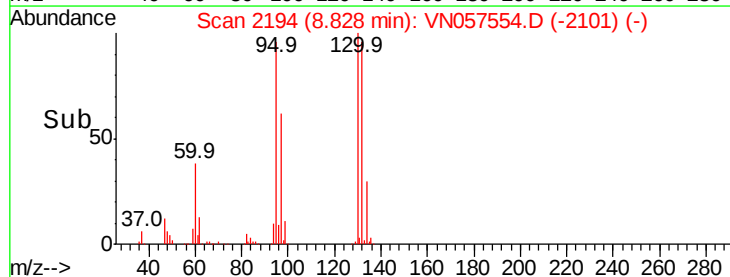
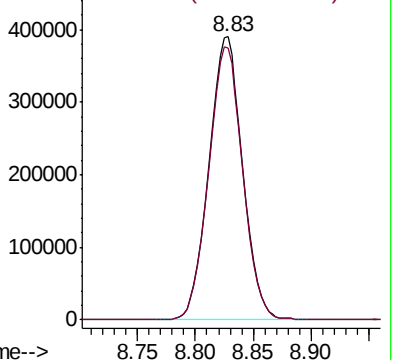
130 100

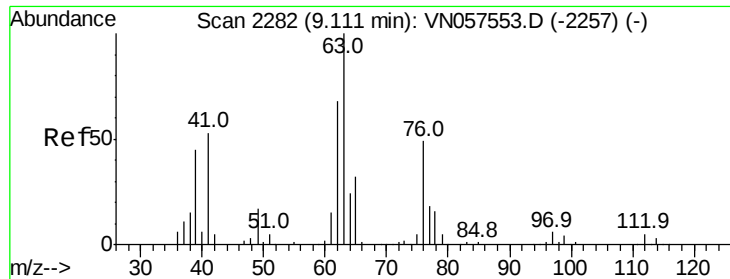
95 96.1 0.0 231.6



Abundance Ion 129.80 (129.50 to 130.50): VN057553.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN057553.D (-2176) (-)





#45

1,2-Dichloropropane

Concen: 86.628 ug/l

RT: 9.11 min Scan# 2282

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 626911

Ion Ratio Lower Upper

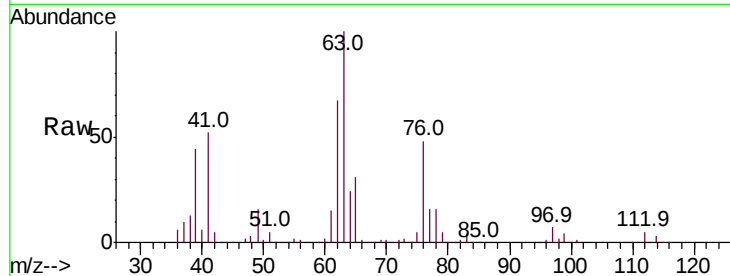
63 100

65 30.5 24.7 37.1

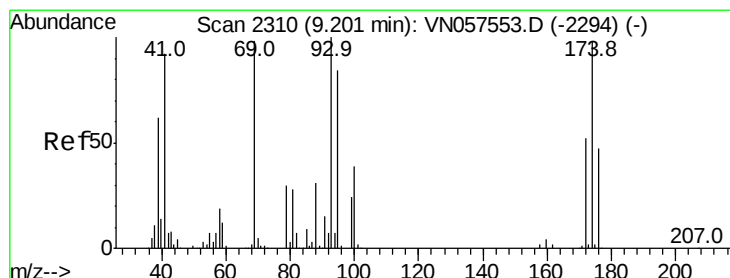
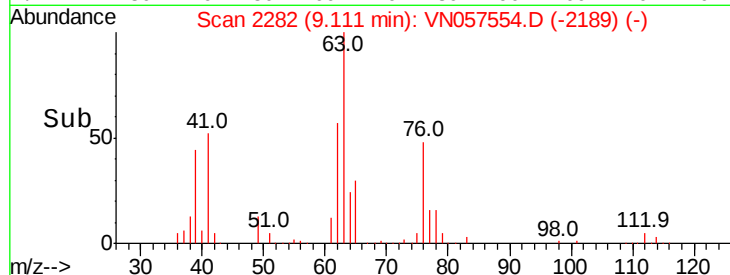
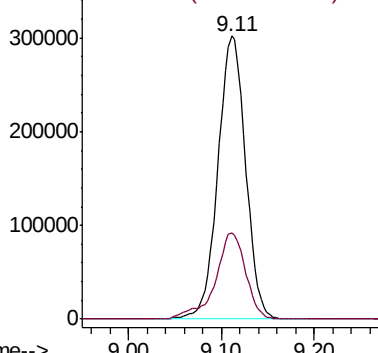
Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 104.761 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

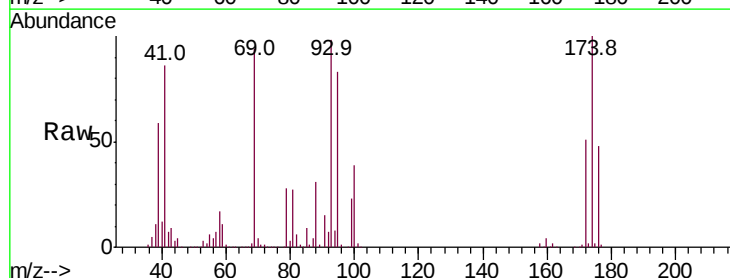
Tgt Ion: 93 Resp: 501149

Ion Ratio Lower Upper

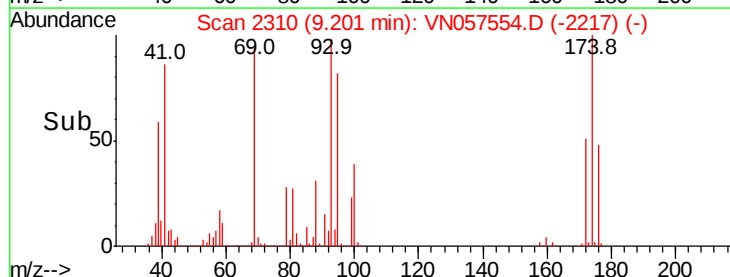
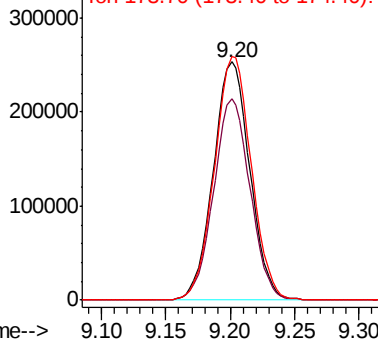
93 100

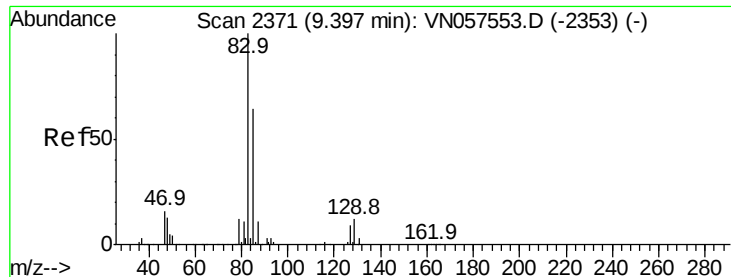
95 84.4 64.7 97.1

174 103.4 62.3 93.5#



Abundance Ion 92.80 (92.50 to 93.50): VNO
Ion 94.80 (94.50 to 95.50): VNO
Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 106.489 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 1053814

Ion Ratio Lower Upper

83 100

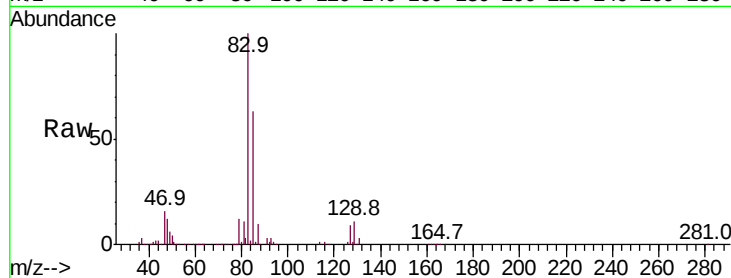
85 63.3 51.2 76.8

127 8.7 6.6 10.0

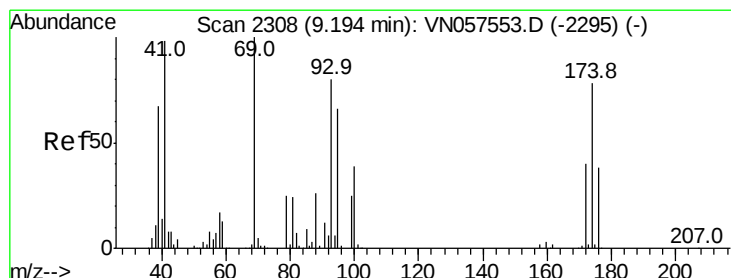
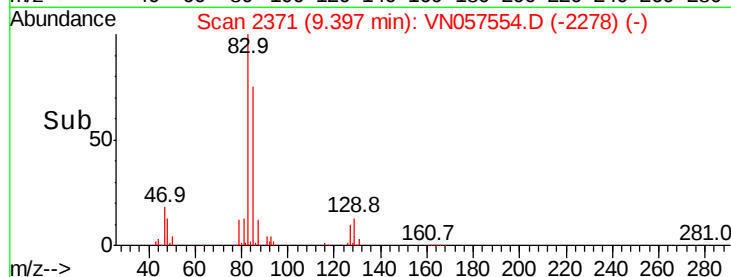
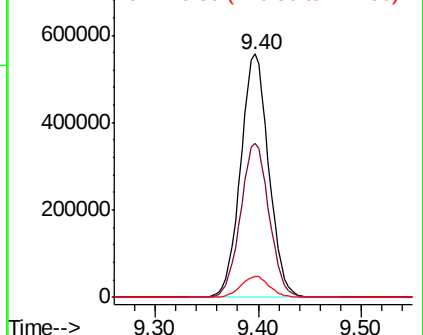
Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 67.674 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

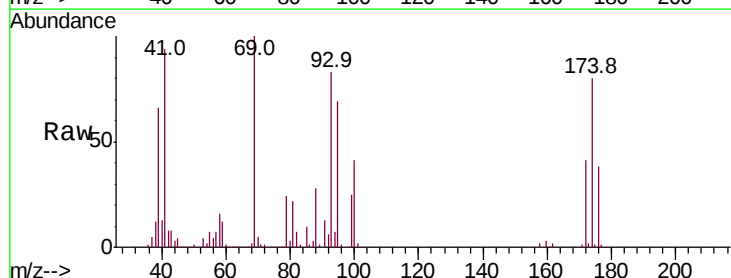
Tgt Ion: 41 Resp: 479306

Ion Ratio Lower Upper

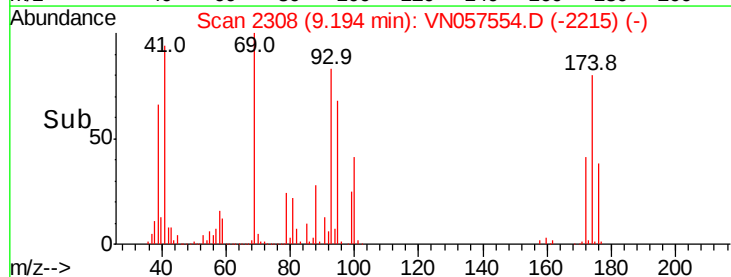
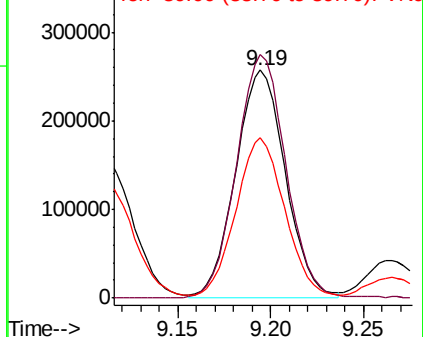
41 100

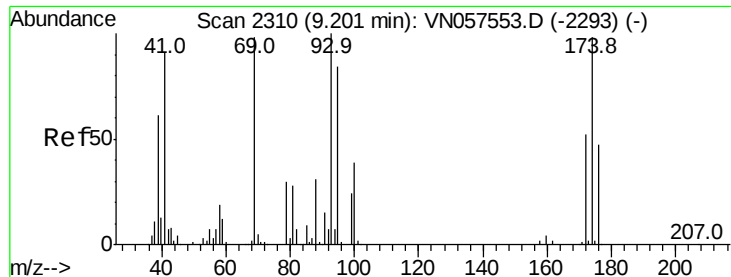
69 107.0 59.3 88.9#

39 69.5 50.6 75.8



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





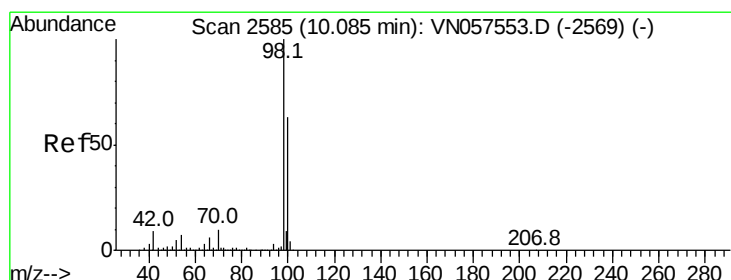
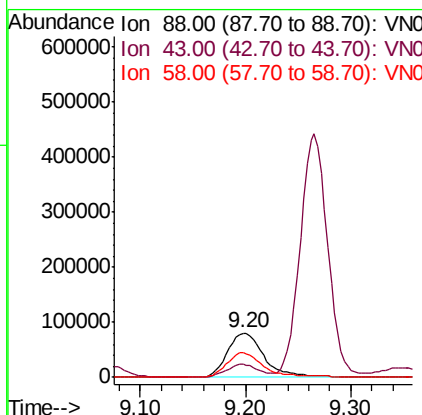
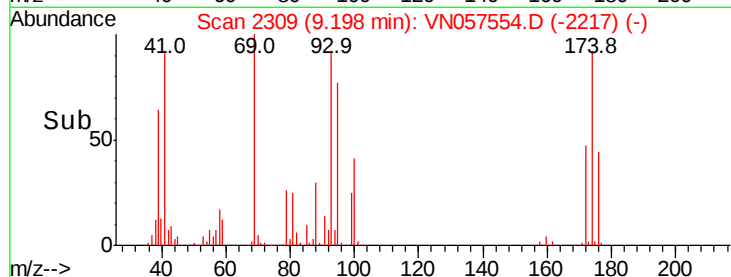
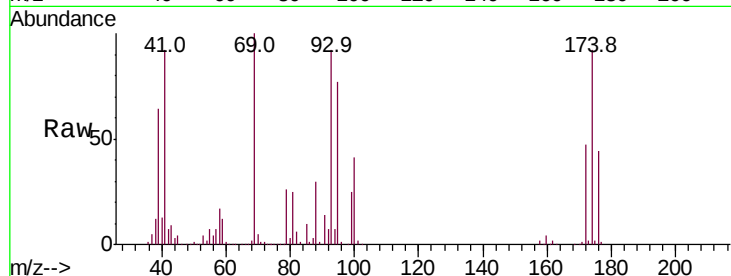
#49
1,4-Dioxane
Concen: 2016.761 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
88	100	195569		
43	24.7	31.0	46.6#	
58	57.1	64.5	96.7#	

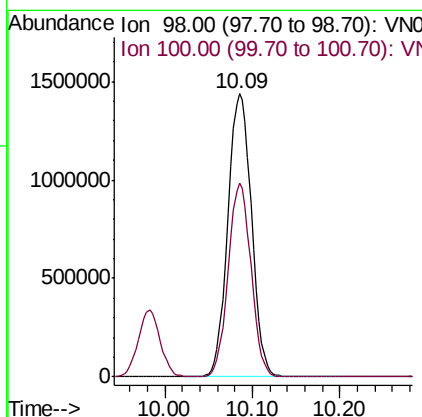
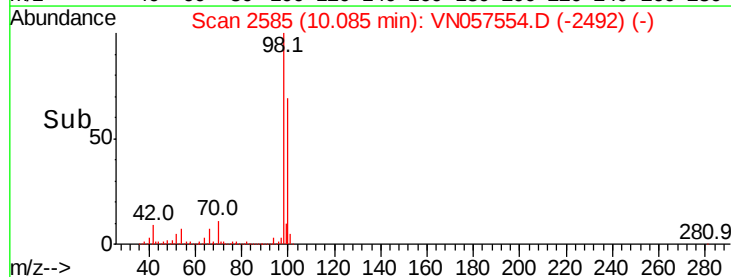
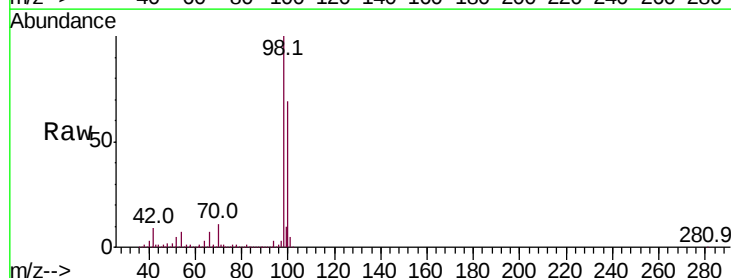
Manual Integrations
APPROVED

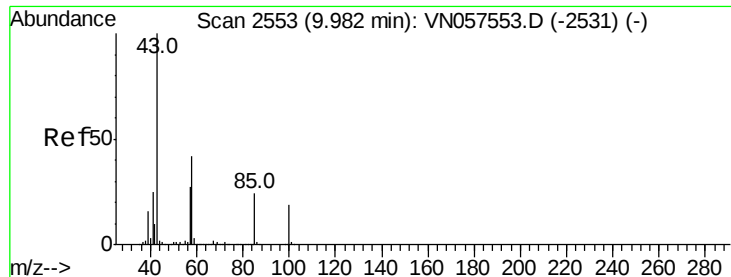
MMDadoda
9/3/2019 2:38:43 AM



#50
Toluene-d8
Concen: 117.993 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	2698078		
100	65.9	50.4	75.6	





#51

4-Methyl-2-Pentanone

Concen: 335.580 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 2792774

Ion Ratio Lower Upper

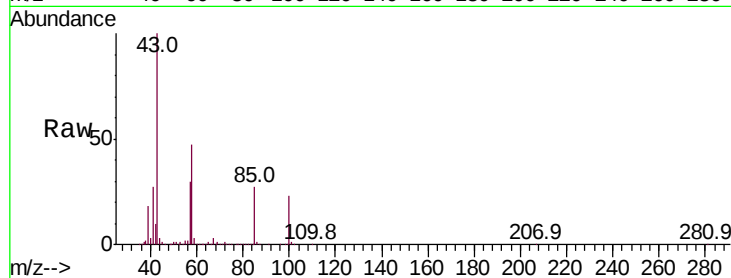
43 100

58 44.7 27.9 41.9#

Manual Integrations
APPROVED

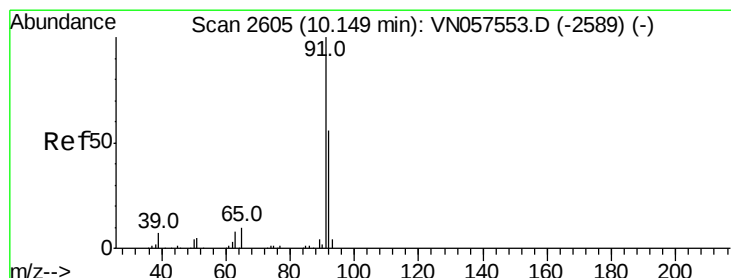
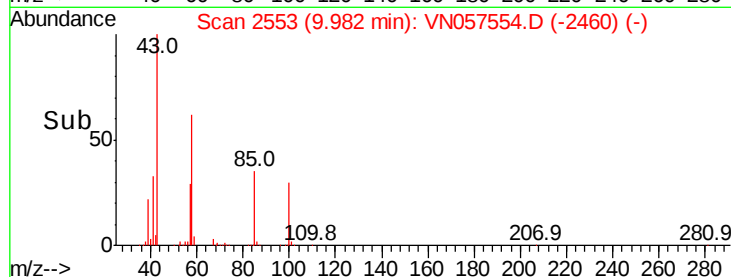
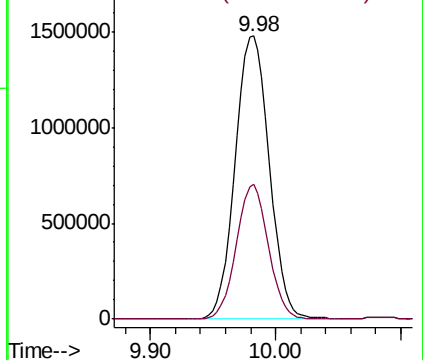
MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 120.479 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VN057554.D

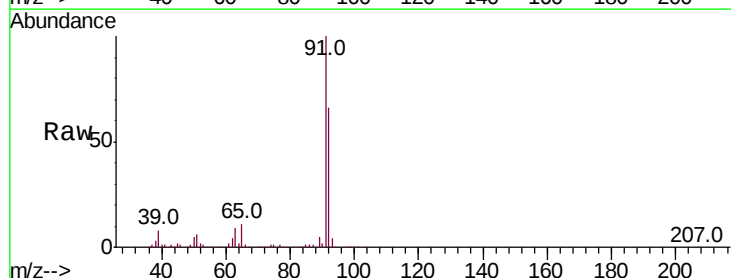
Acq: 29 Aug 2019 17:04

Tgt Ion: 92 Resp: 1885600

Ion Ratio Lower Upper

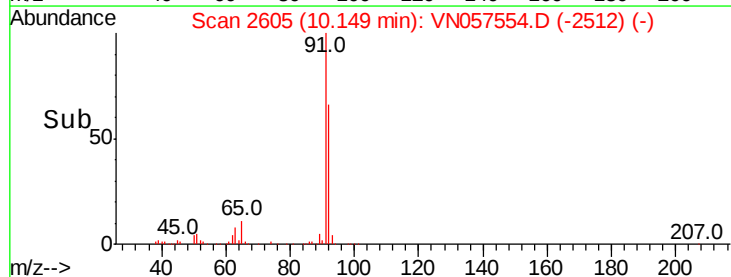
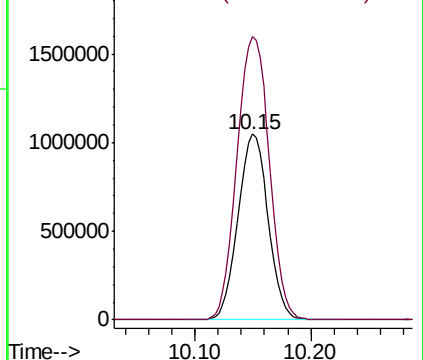
92 100

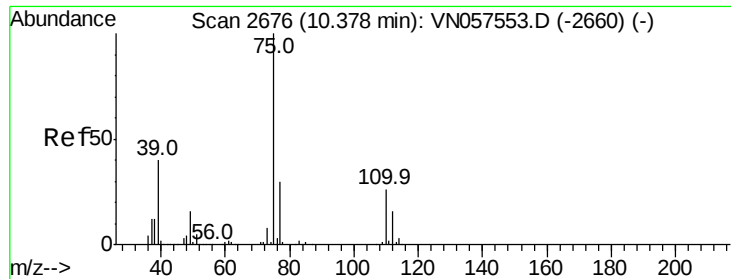
91 164.2 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





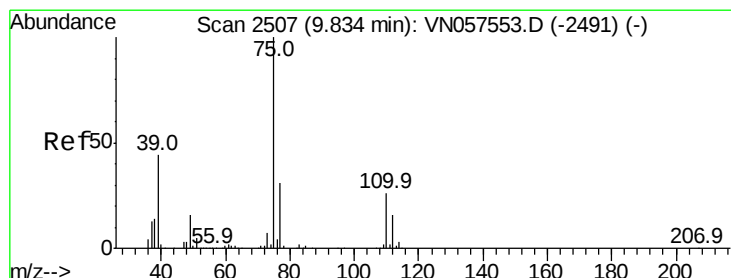
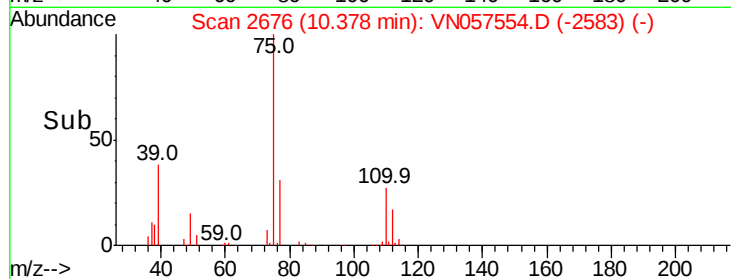
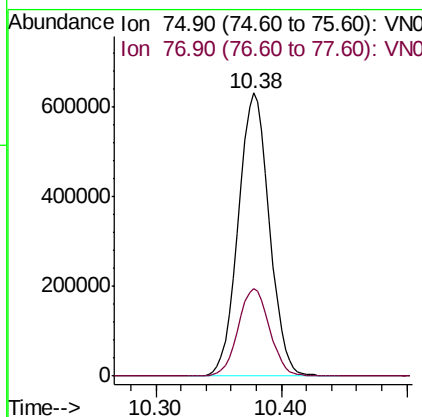
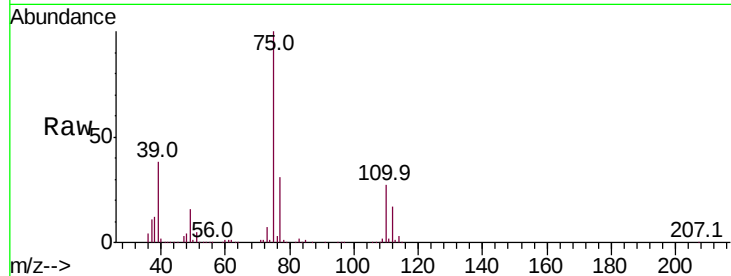
#53
t-1,3-Dichloropropene
Concen: 105.422 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 75 Resp: 1084034
Ion Ratio Lower Upper
75 100
77 31.0 25.0 37.6

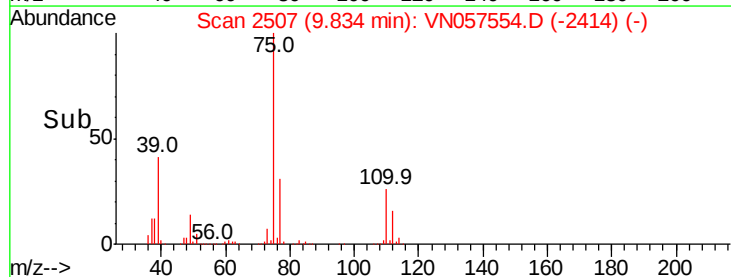
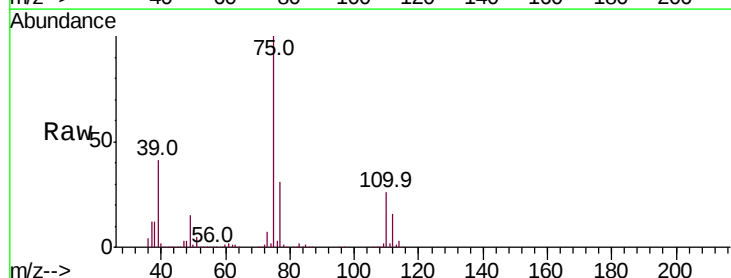
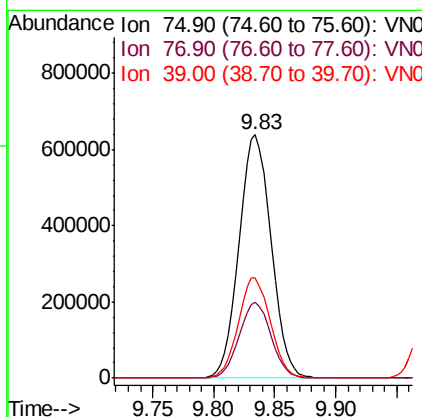
Manual Integrations
APPROVED

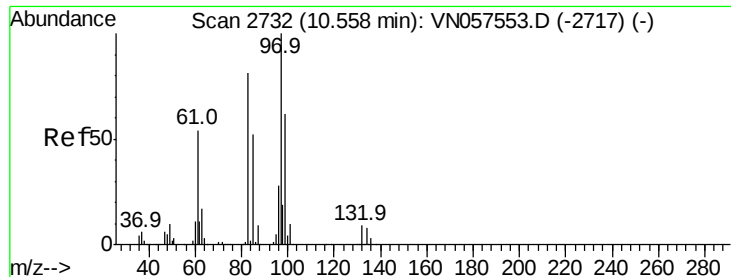
MMDadoda
9/3/2019 2:38:43 AM



#54
cis-1,3-Dichloropropene
Concen: 101.957 ug/l
RT: 9.83 min Scan# 2507
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion: 75 Resp: 1162222
Ion Ratio Lower Upper
75 100
77 31.0 25.0 37.6
39 41.0 49.2 73.8#





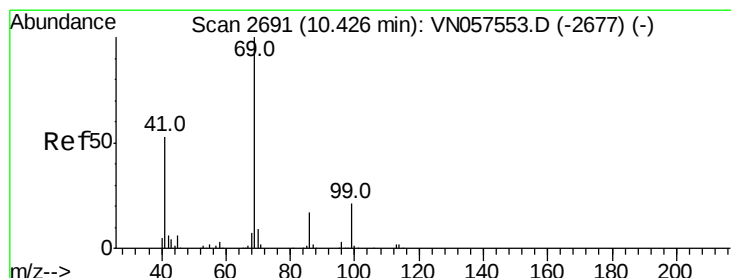
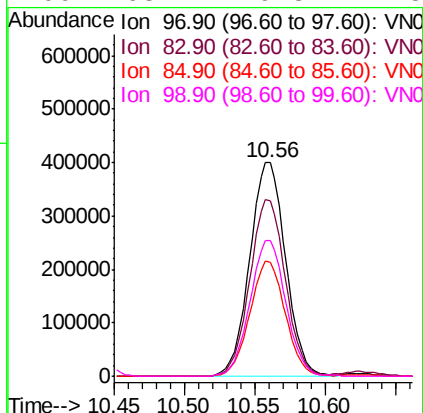
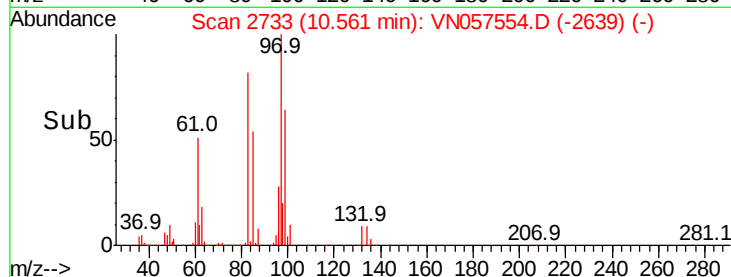
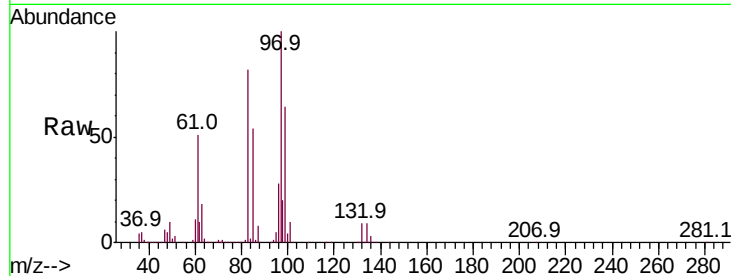
#55
1,1,2-Trichloroethane
Concen: 113.214 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
97	100		
83	82.2	73.7	110.5
85	53.6	46.8	70.2
99	63.7	49.8	74.8

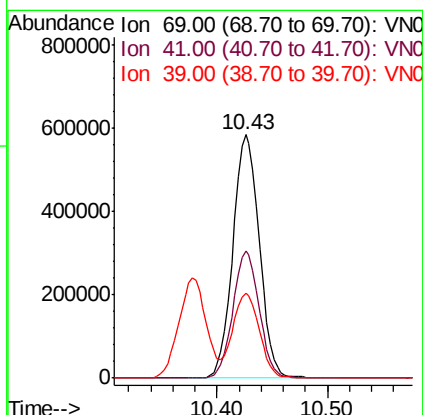
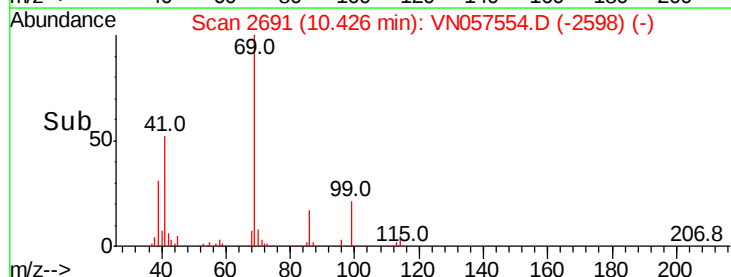
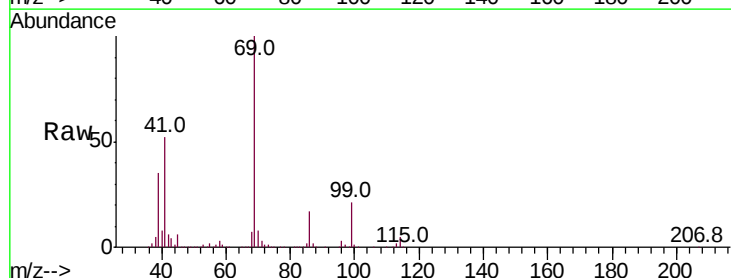
Manual Integrations
APPROVED

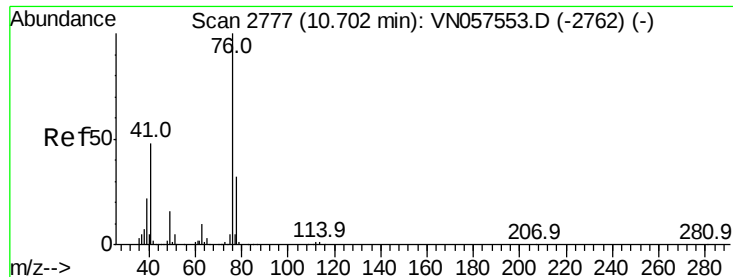
MMDadoda
9/3/2019 2:38:43 AM



#56
Ethyl methacrylate
Concen: 101.734 ug/l
RT: 10.43 min Scan# 2691
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
69	100		
41	51.2	60.8	91.2#
39	34.8	36.5	54.7#





#57

1,3-Dichloropropane

Concen: 103.717 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 1109367

Ion Ratio Lower Upper

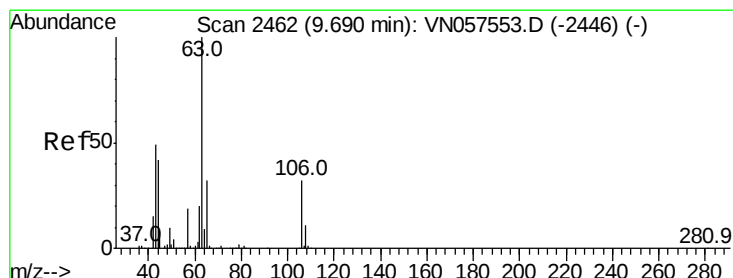
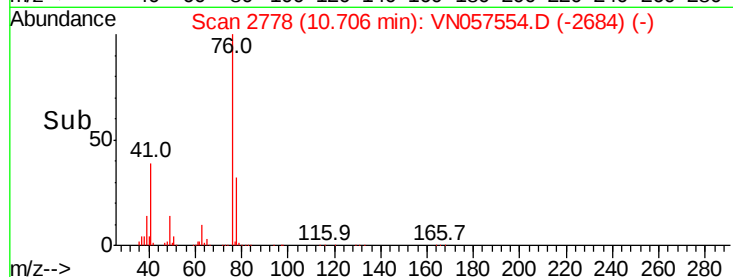
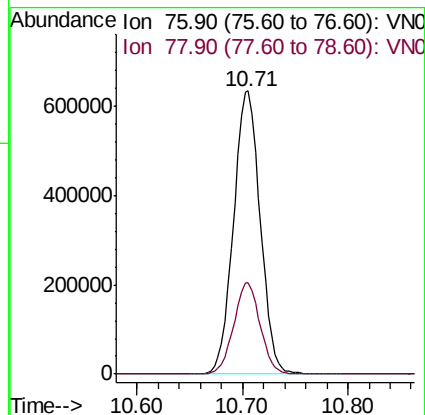
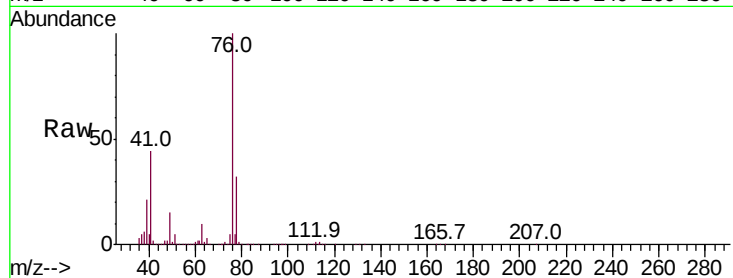
76 100

78 32.0 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#58

2-Chloroethyl Vinyl ether

Concen: 589.494 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN057554.D

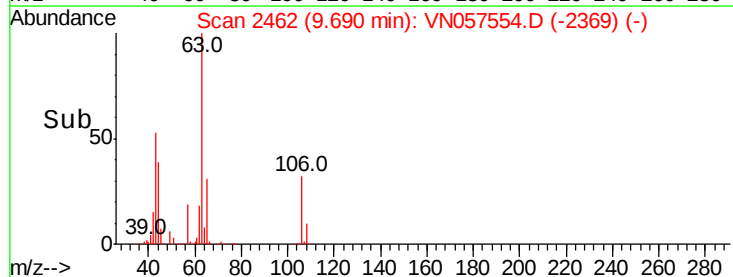
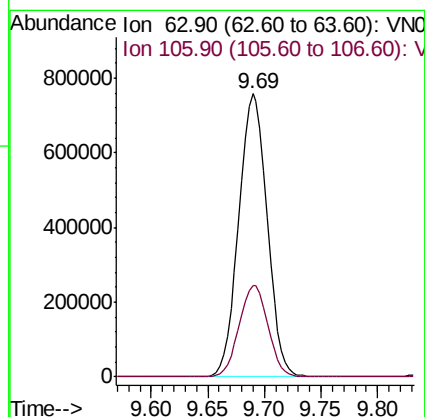
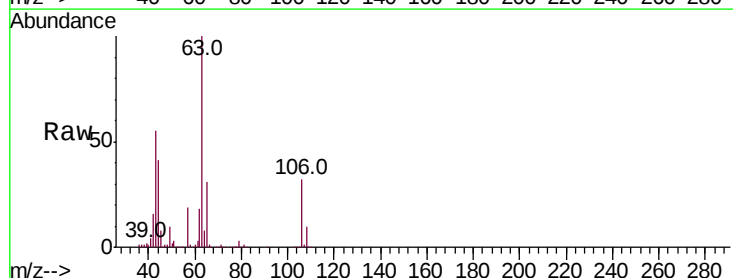
Acq: 29 Aug 2019 17:04

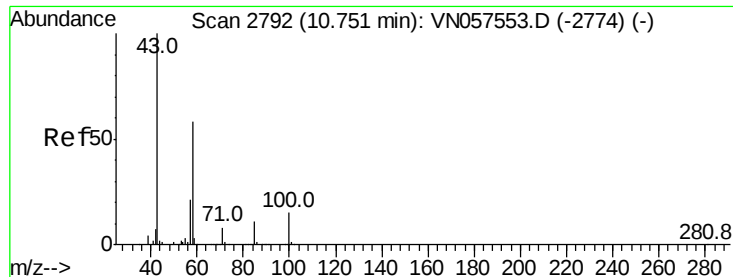
Tgt Ion: 63 Resp: 1329913

Ion Ratio Lower Upper

63 100

106 32.7 18.6 27.8#





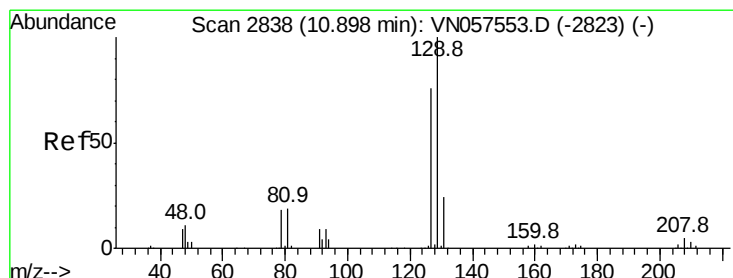
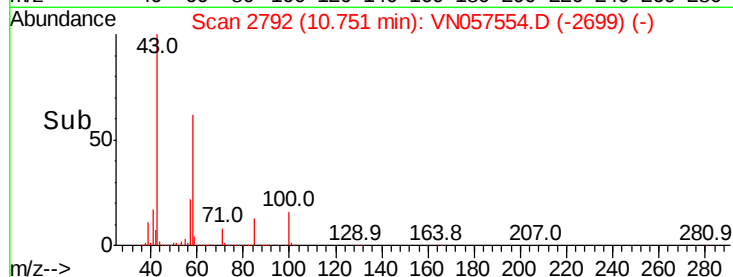
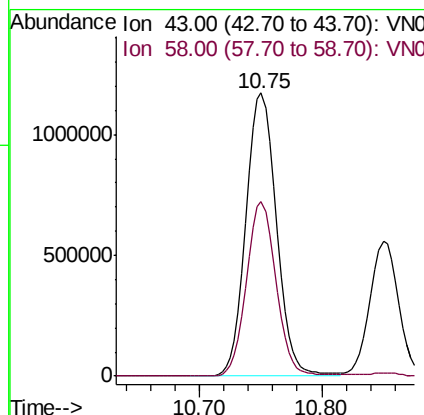
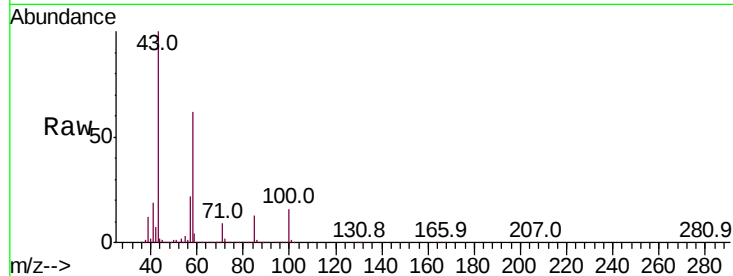
#59
2-Hexanone
Concen: 353.275 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 43 Resp: 2020442
Ion Ratio Lower Upper
43 100
58 60.0 24.6 73.6

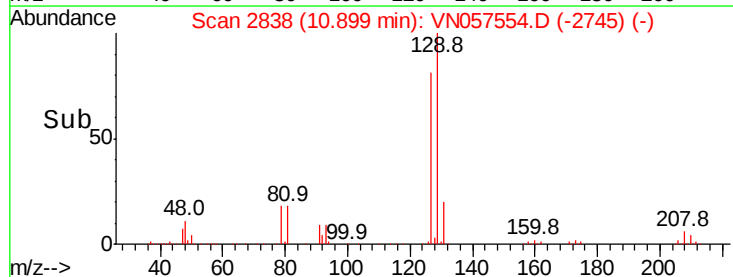
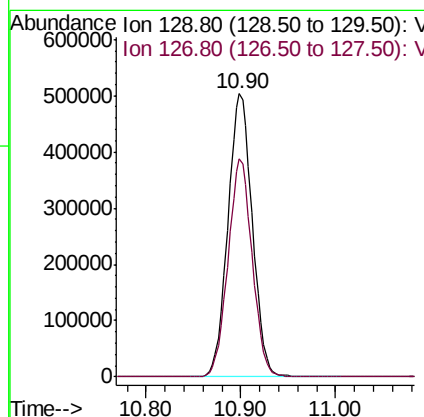
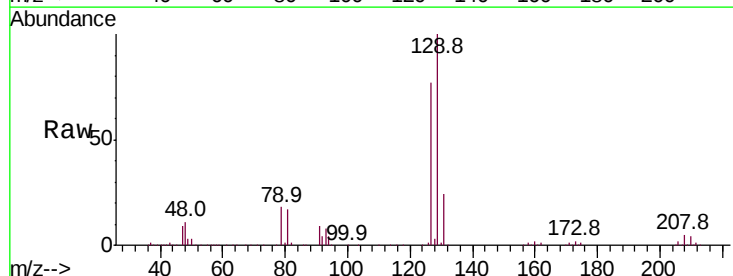
Manual Integrations
APPROVED

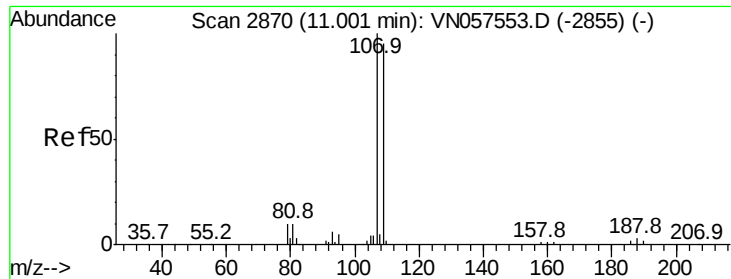
MMDadoda
9/3/2019 2:38:43 AM



#60
Dibromochloromethane
Concen: 132.477 ug/l
RT: 10.90 min Scan# 2838
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion: 129 Resp: 901602
Ion Ratio Lower Upper
129 100
127 76.4 39.0 116.9





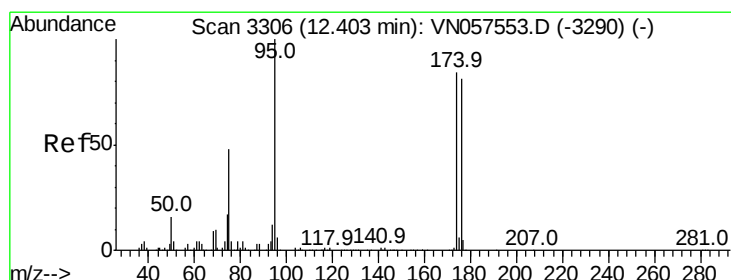
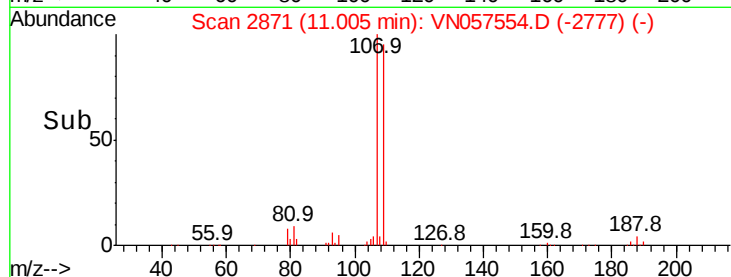
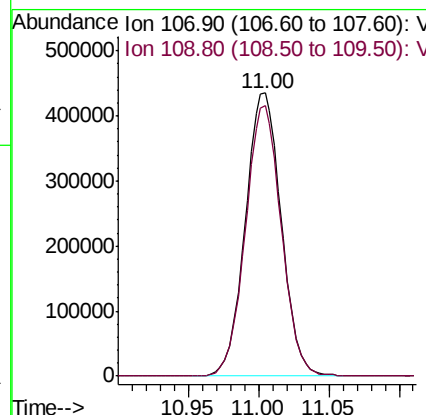
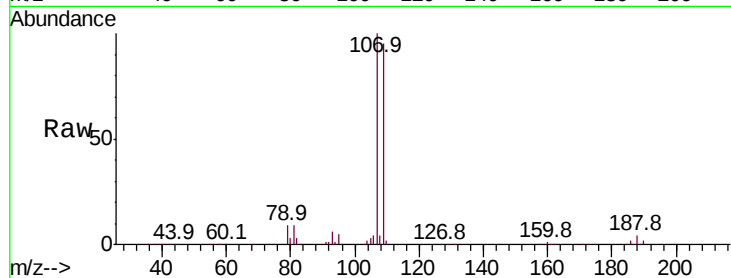
#61
 1,2-Dibromoethane
 Concen: 124.400 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	73.8	110.8

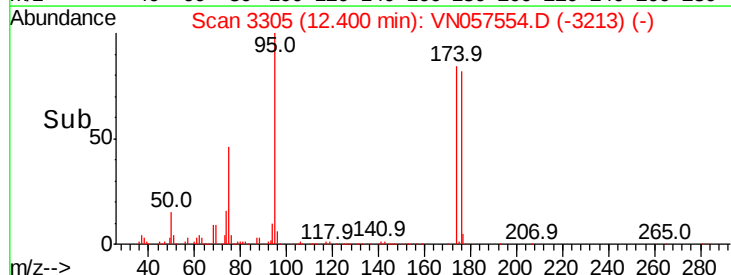
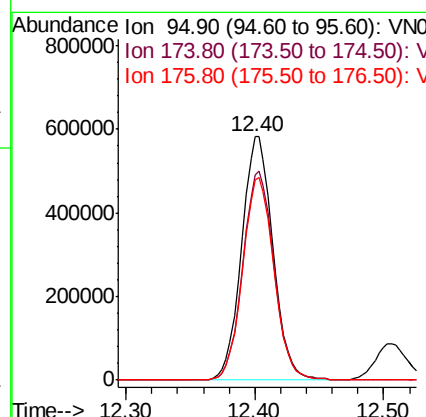
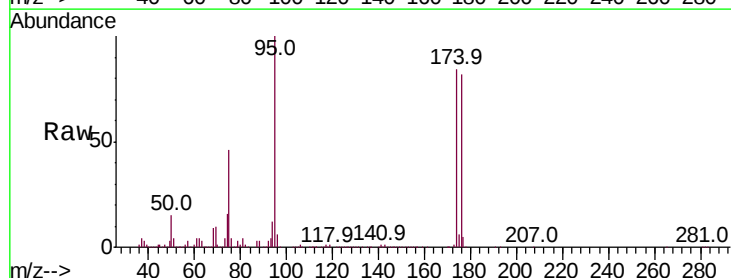
Manual Integrations
 APPROVED

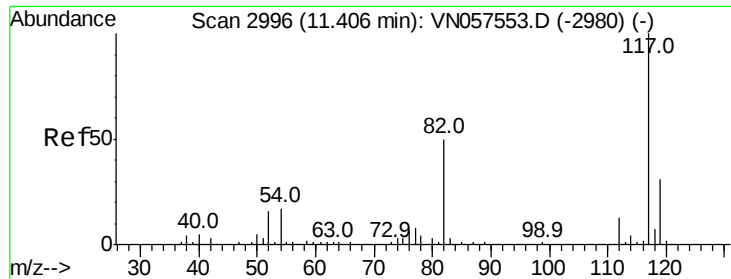
MMDadoda
 9/3/2019 2:38:43 AM



#62
 4-Bromofluorobenzene
 Concen: 126.950 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	85.5	0.0	133.0
176	83.1	0.0	130.8





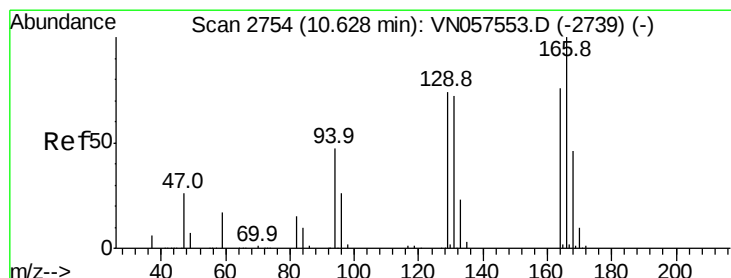
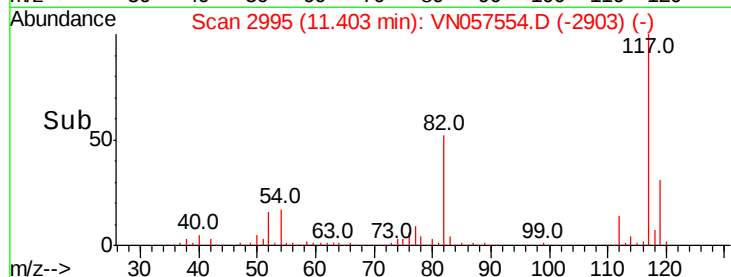
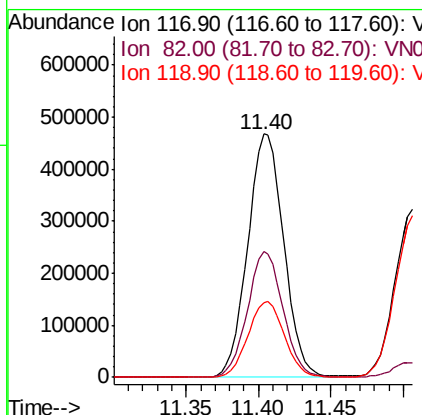
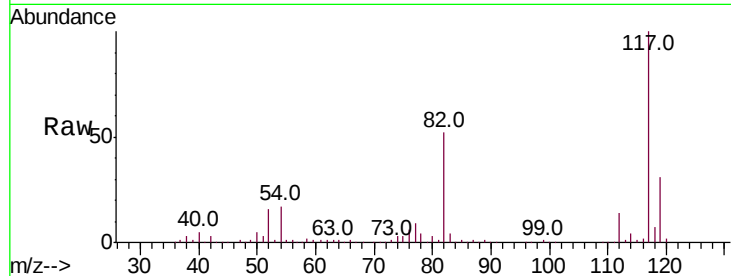
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampled :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	50.6	75.8
119	30.8	24.6	36.8

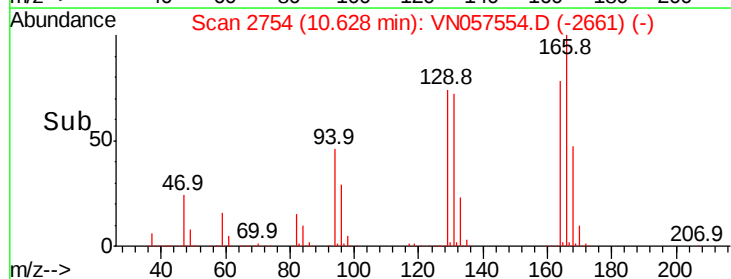
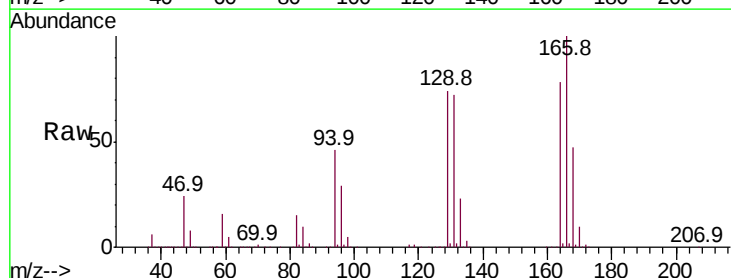
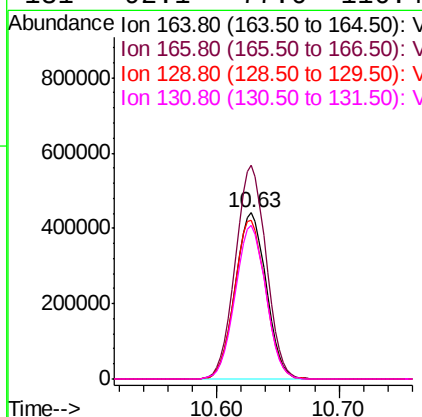
Manual Integrations
APPROVED

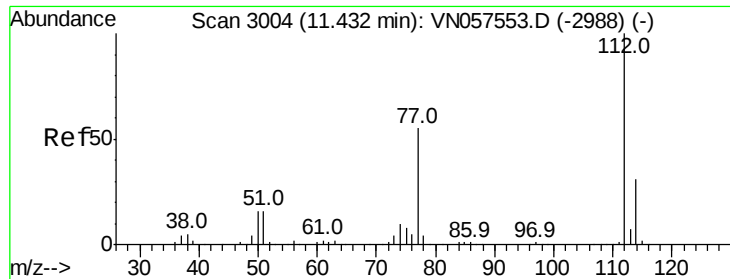
MMDadoda
9/3/2019 2:38:43 AM



#64
Tetrachloroethene
Concen: 127.327 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	104.4	156.6
129	95.5	86.6	130.0
131	92.1	77.6	116.4





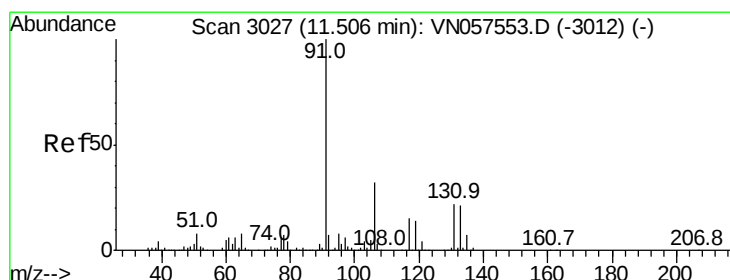
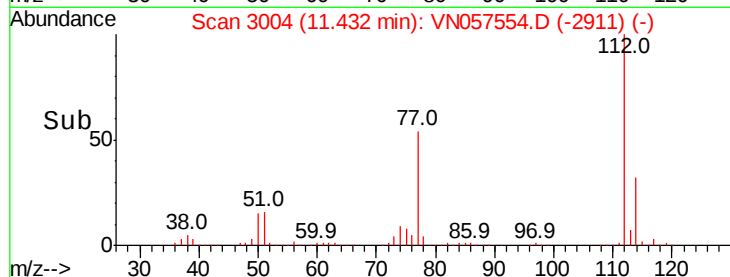
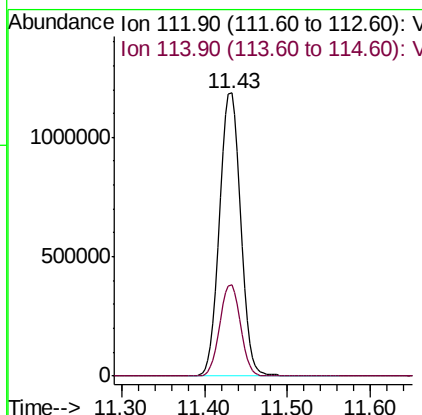
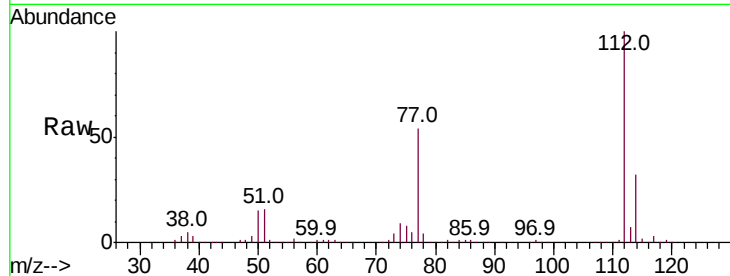
#65
Chlorobenzene
Concen: 120.776 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:112 Resp: 2086613
Ion Ratio Lower Upper
112 100
114 32.1 24.8 37.2

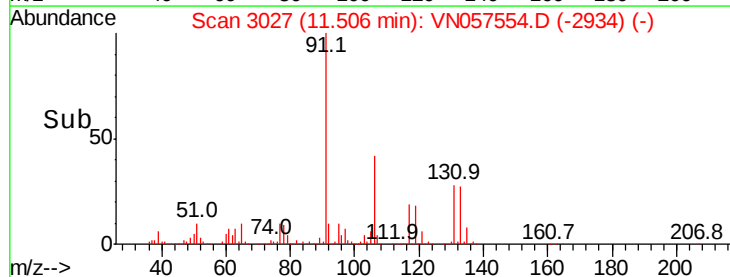
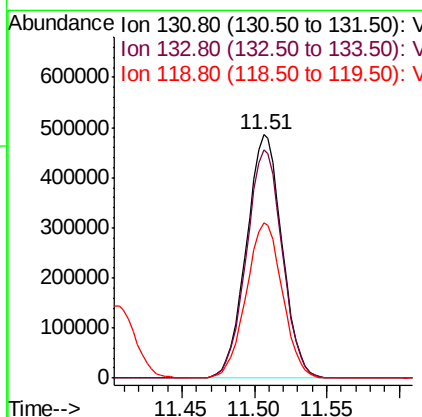
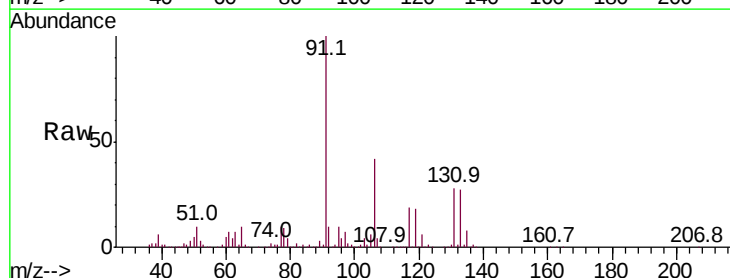
Manual Integrations
APPROVED

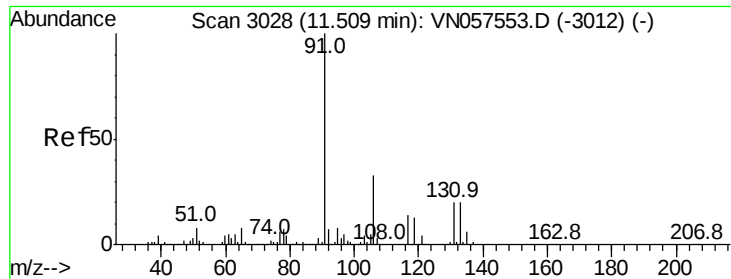
MMDadoda
9/3/2019 2:38:43 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 124.933 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion:131 Resp: 832304
Ion Ratio Lower Upper
131 100
133 94.6 47.6 142.8
119 64.6 34.4 103.2





#67

Ethyl Benzene

Concen: 98.607 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 3237049

Ion Ratio Lower Upper

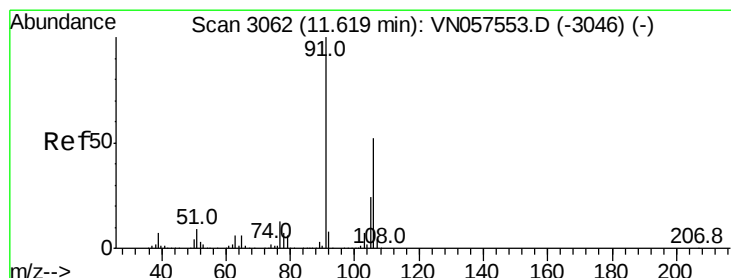
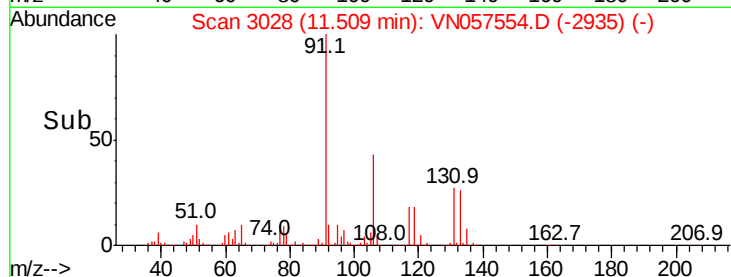
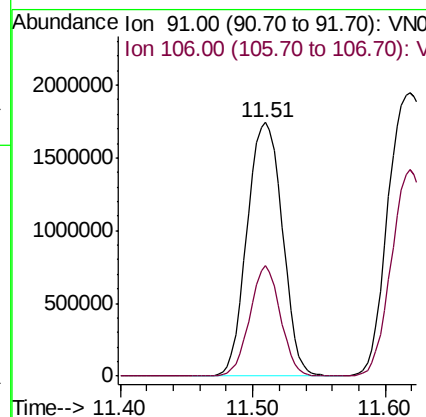
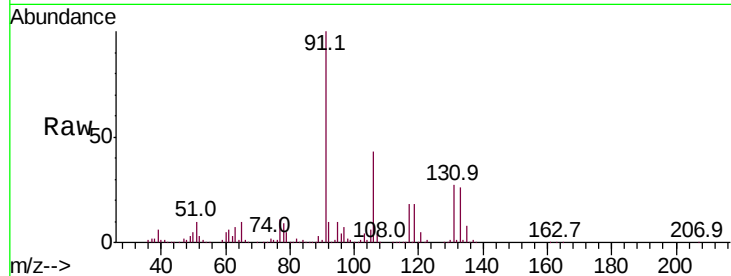
91 100

106 43.3 24.1 36.1#

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#68

m/p-Xylenes

Concen: 250.177 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057554.D

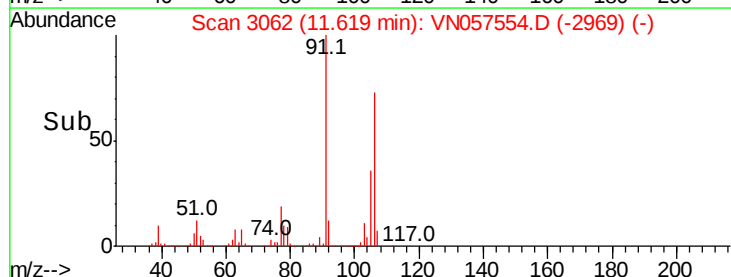
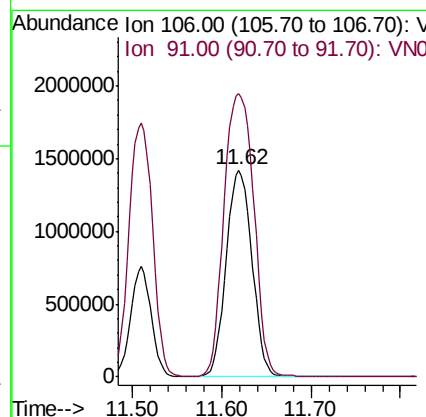
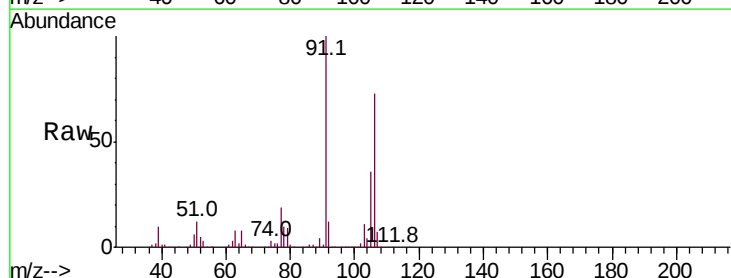
Acq: 29 Aug 2019 17:04

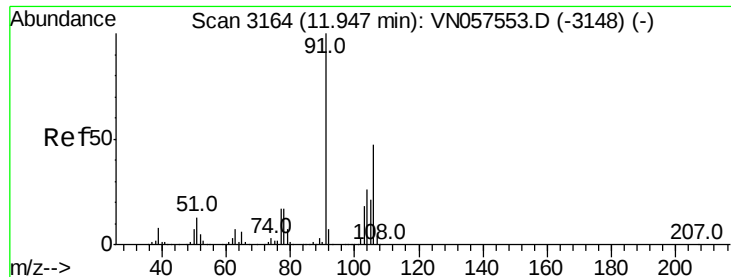
Tgt Ion: 106 Resp: 2853871

Ion Ratio Lower Upper

106 100

91 158.5 171.8 257.6#





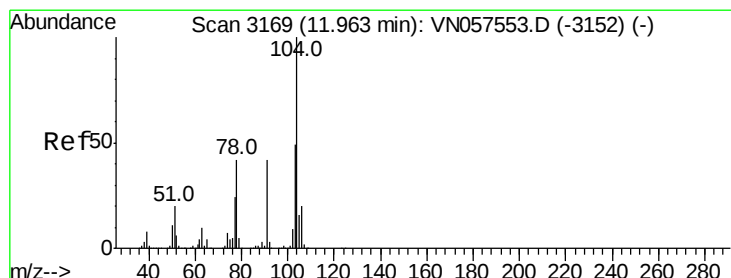
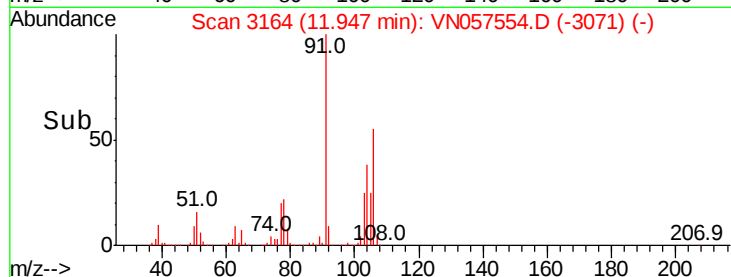
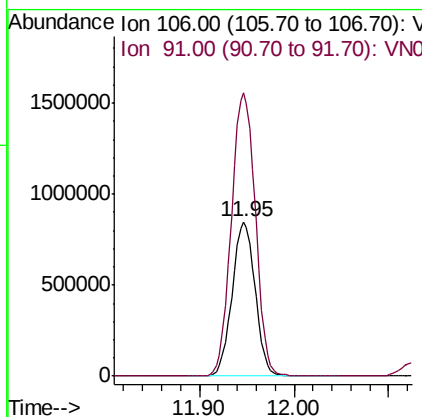
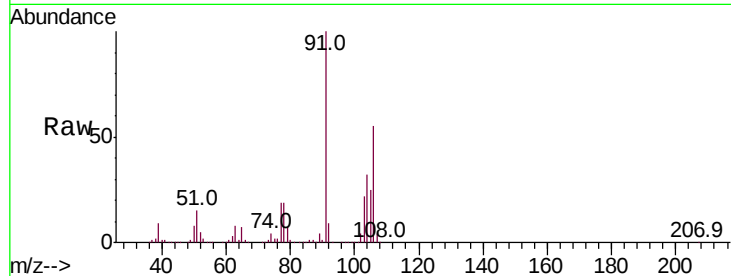
#69
o-Xylene
Concen: 126.748 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 1426183
Ion Ratio Lower Upper
106 100
91 192.3 112.3 336.9

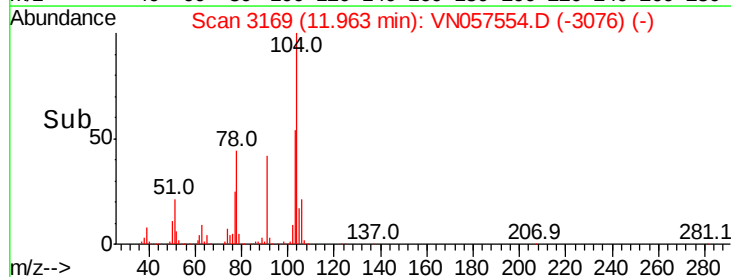
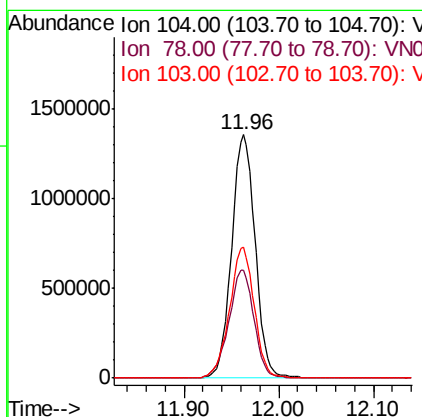
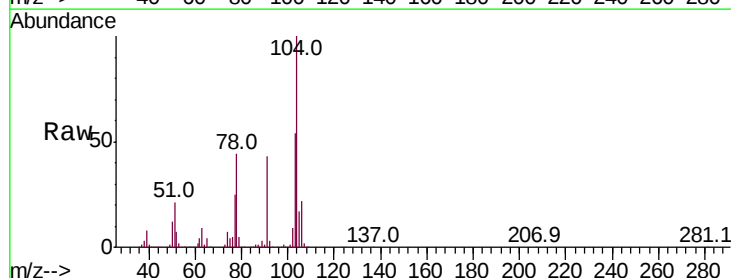
Manual Integrations
APPROVED

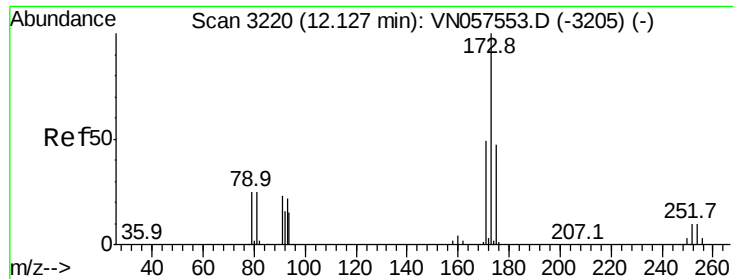
MMDadoda
9/3/2019 2:38:43 AM



#70
Styrene
Concen: 131.216 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion:104 Resp: 2341020
Ion Ratio Lower Upper
104 100
78 47.5 44.7 67.1
103 56.6 44.4 66.6





#71

Bromoform

Concen: 136.928 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:173 Resp: 619666

Ion Ratio Lower Upper

173 100

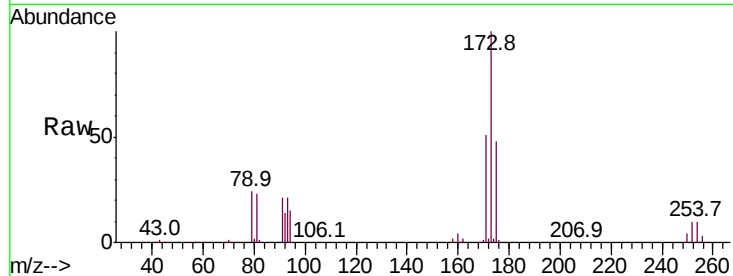
175 47.5 23.9 71.8

254 0.2 0.1 0.1#

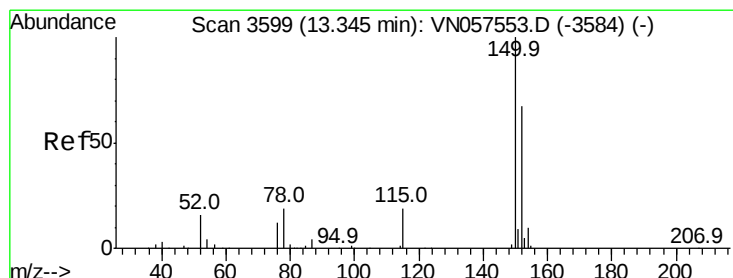
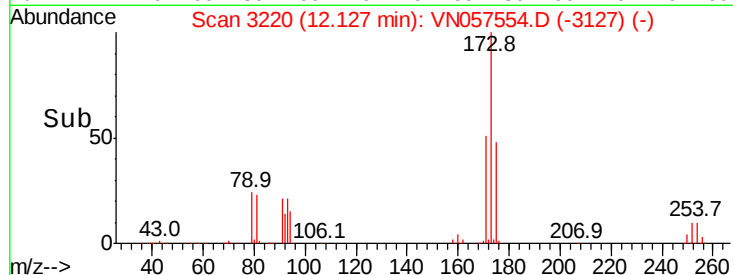
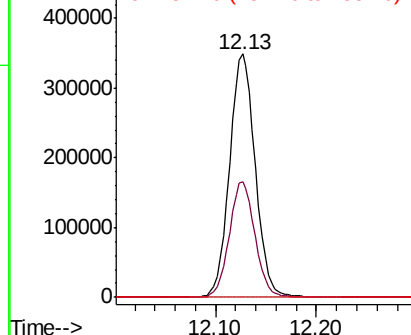
Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

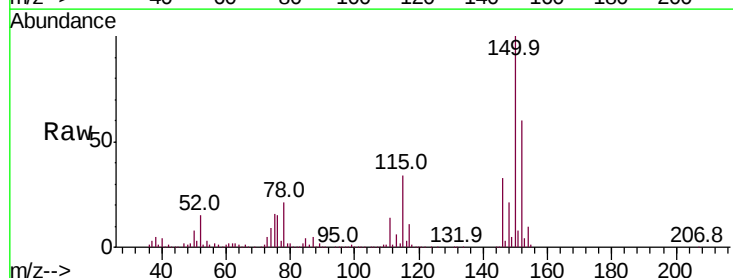
Tgt Ion:152 Resp: 447007

Ion Ratio Lower Upper

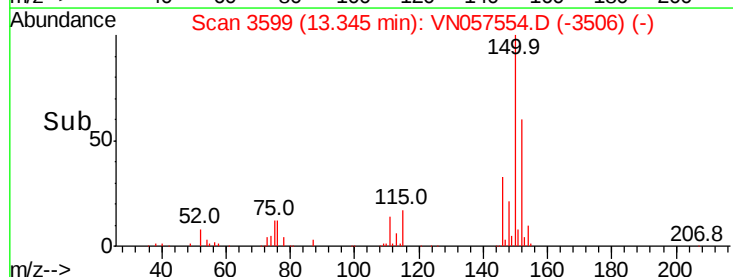
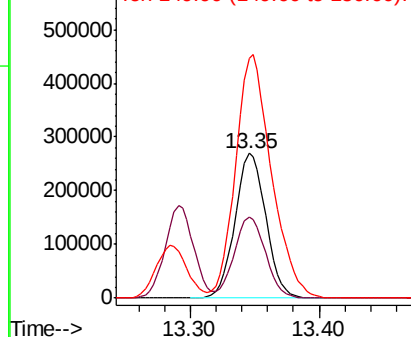
152 100

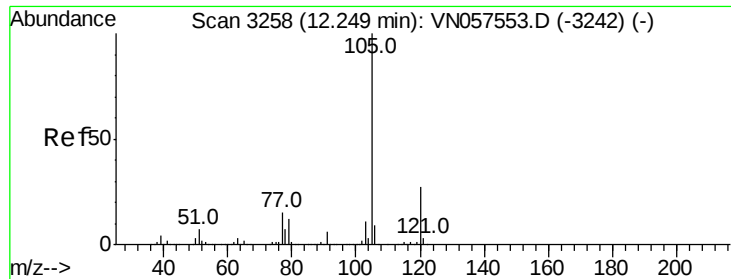
115 56.7 32.0 96.0

150 196.1 0.0 346.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 66.067 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 3302309

Ion Ratio Lower Upper

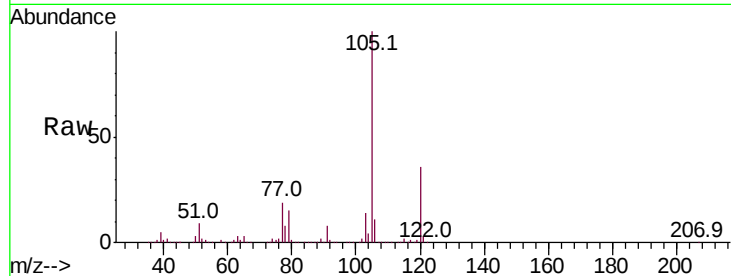
105 100

120 31.7 12.7 38.0

Manual Integrations
APPROVED

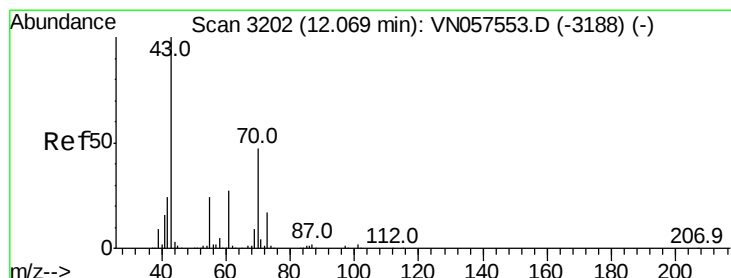
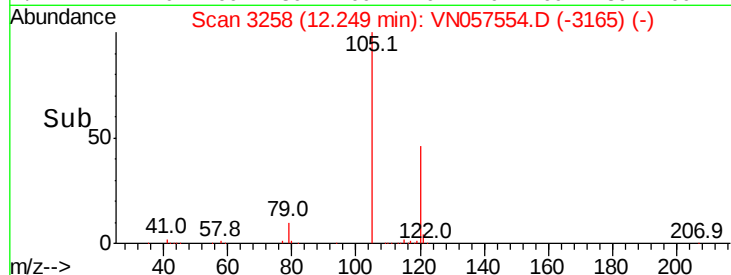
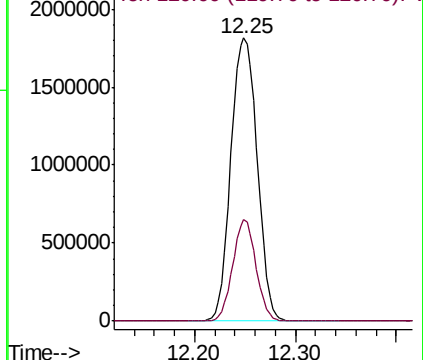
MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 42.405 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Tgt Ion: 43 Resp: 907185

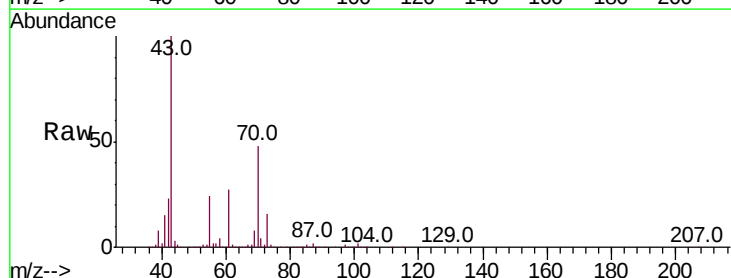
Ion Ratio Lower Upper

43 100

70 48.7 27.8 41.6#

55 24.2 17.0 25.4

61 26.6 17.0 25.6#

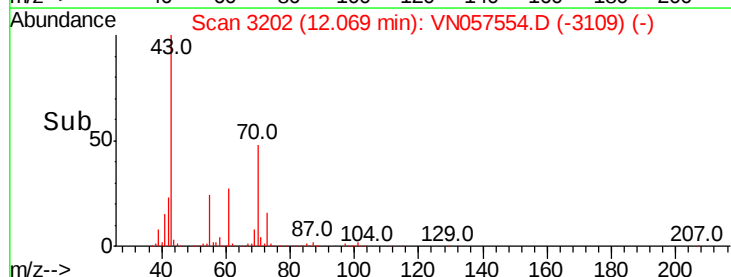
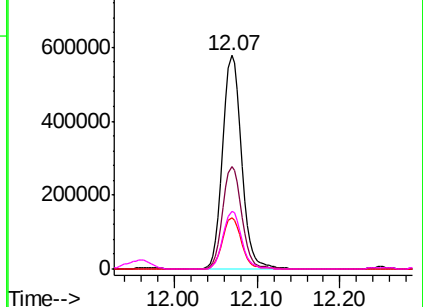


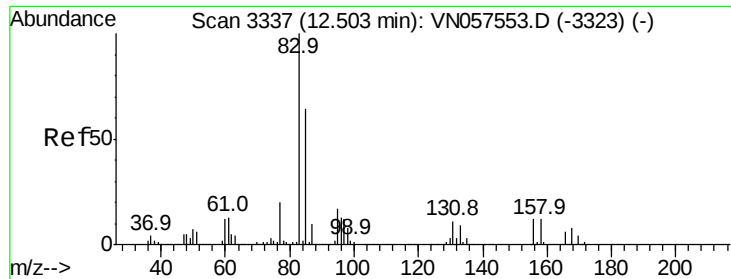
Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC





#75

1,1,2,2-Tetrachloroethane

Concen: 60.228 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 863428

Ion Ratio Lower Upper

83 100

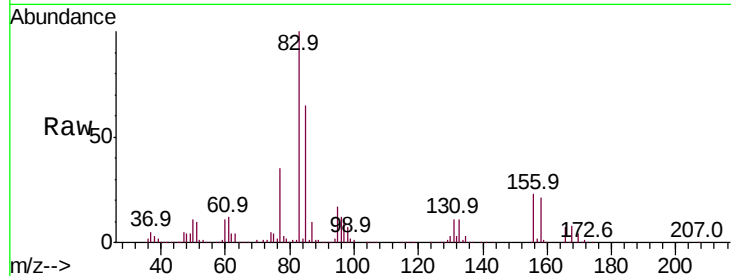
131 11.3 4.3 13.1

85 65.6 32.3 96.8

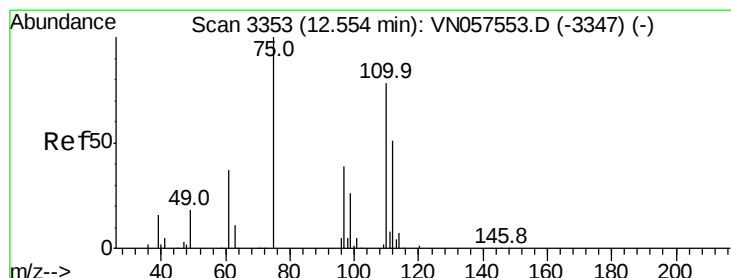
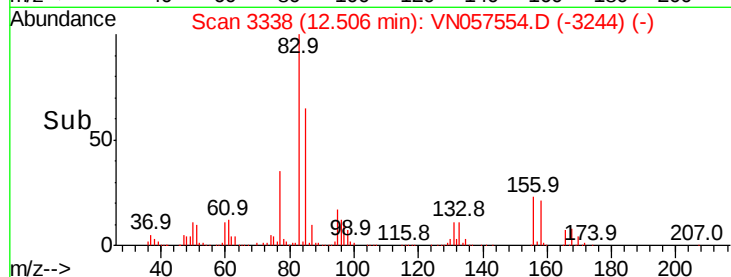
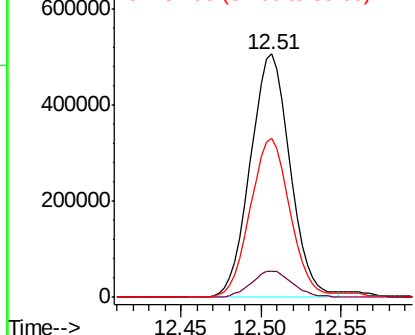
Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 71.161 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN057554.D

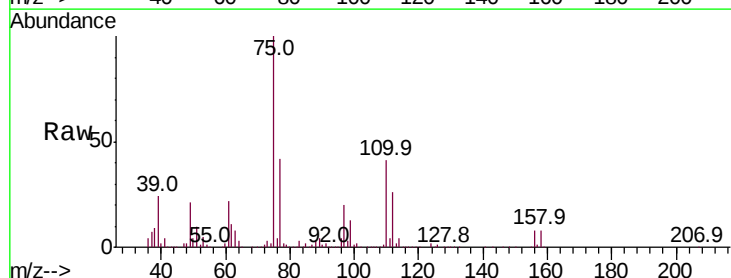
Acq: 29 Aug 2019 17:04

Tgt Ion: 75 Resp: 788756

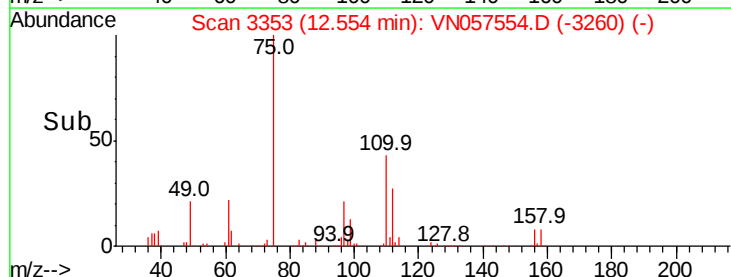
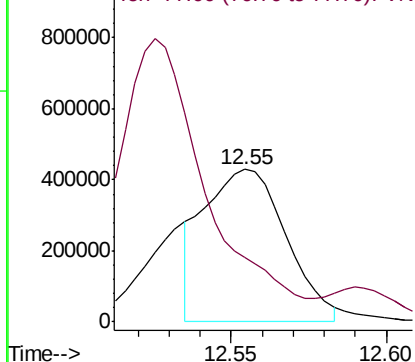
Ion Ratio Lower Upper

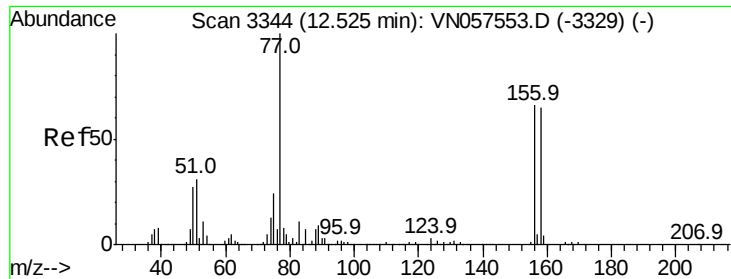
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 92.796 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

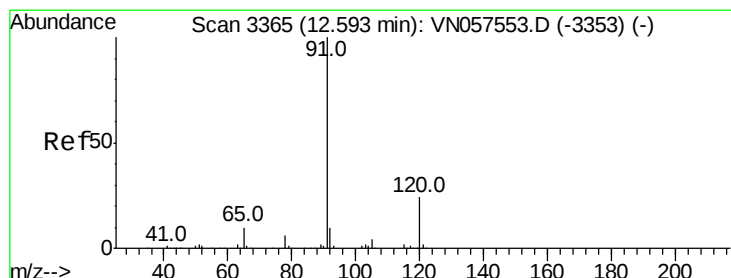
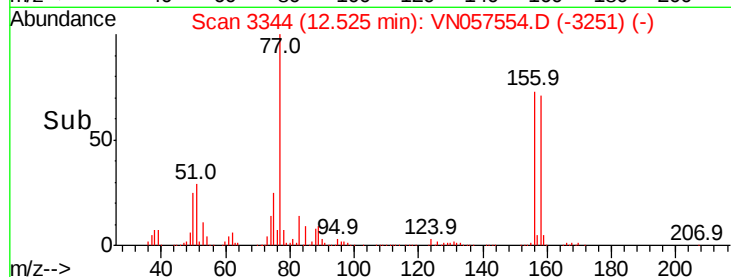
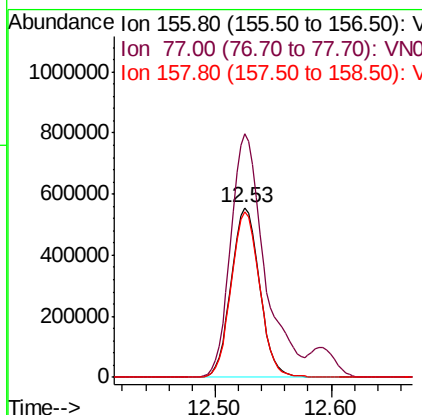
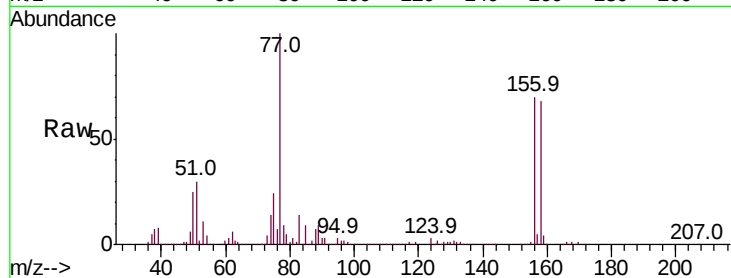
ClientSampled :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
156	100		
77	170.8	124.4	373.3
158	97.7	48.3	144.8

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM



#78

n-propylbenzene

Concen: 64.903 ug/l

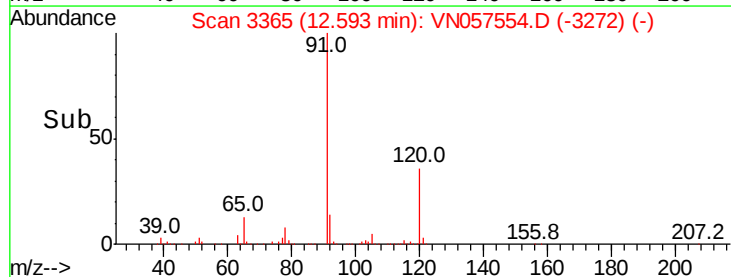
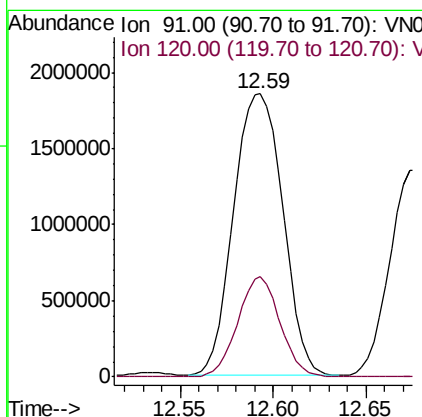
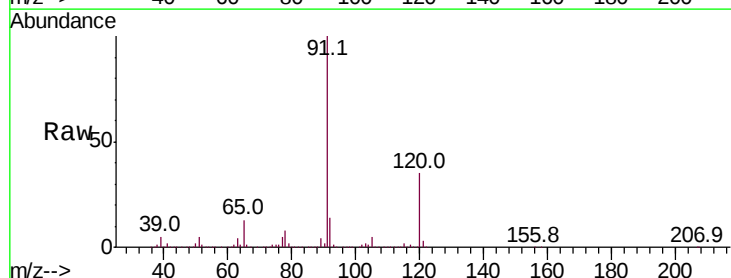
RT: 12.59 min Scan# 3365

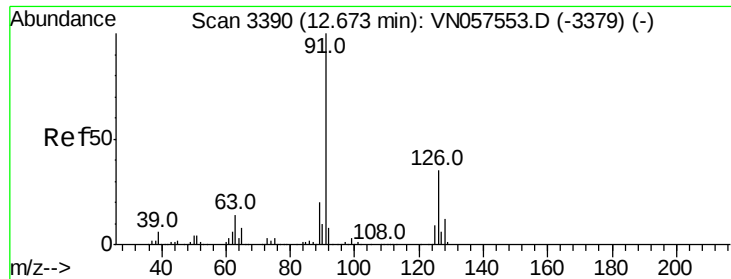
Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
91	100		
120	30.6	10.7	32.1





#79

2-Chlorotoluene

Concen: 74.586 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 2339176

Ion Ratio Lower Upper

91 100

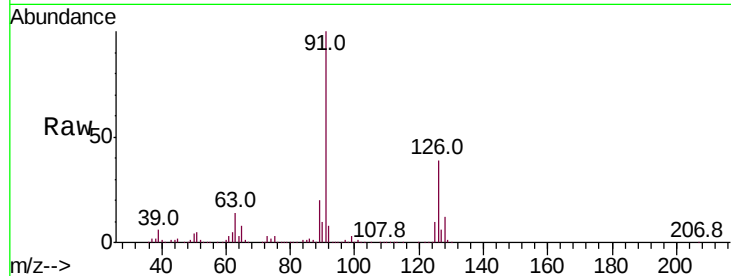
126 38.2 15.3 45.8

Manual Integrations

APPROVED

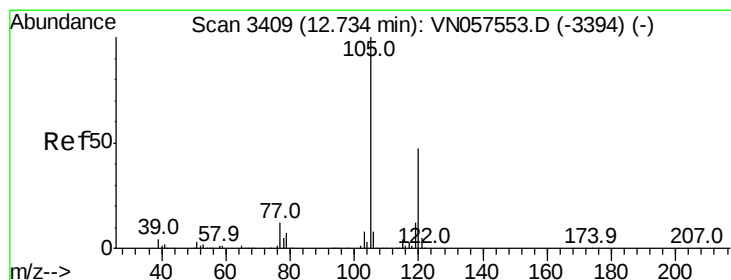
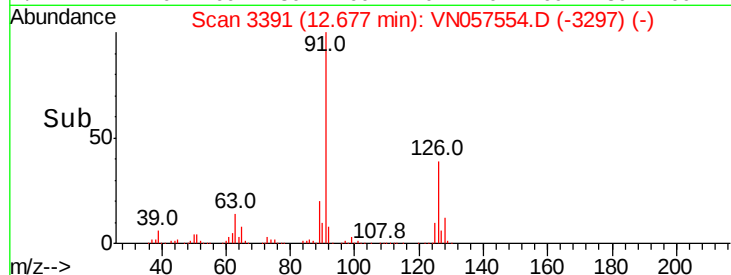
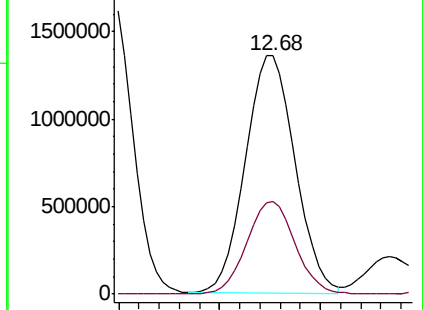
MMDadoda

9/3/2019 2:38:43 AM



Abundance Ion 91.00 (90.70 to 91.70): VN057553.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN057553.D (-3379) (-)



#80

1,3,5-Trimethylbenzene

Concen: 74.001 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN057554.D

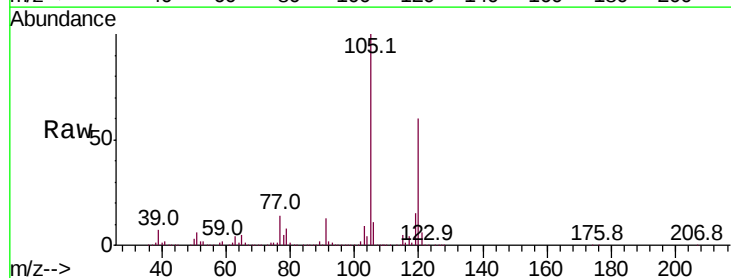
Acq: 29 Aug 2019 17:04

Tgt Ion:105 Resp: 2929757

Ion Ratio Lower Upper

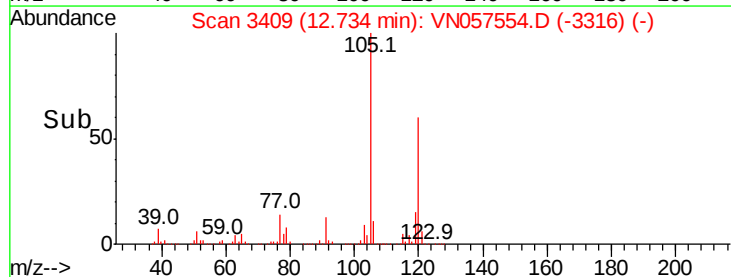
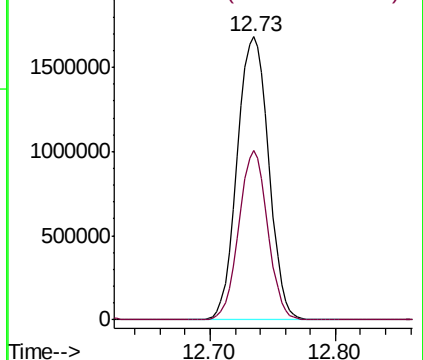
105 100

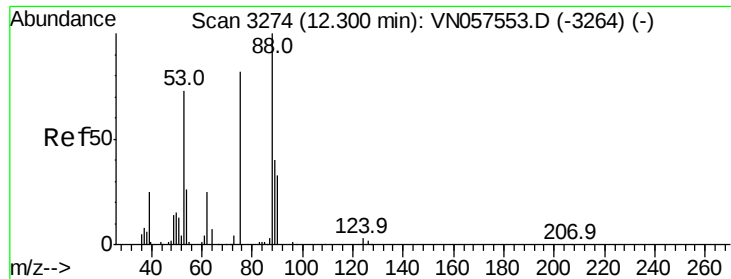
120 54.8 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): VN057553.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN057553.D (-3394) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 62.585 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 263685

Ion Ratio Lower Upper

75 100

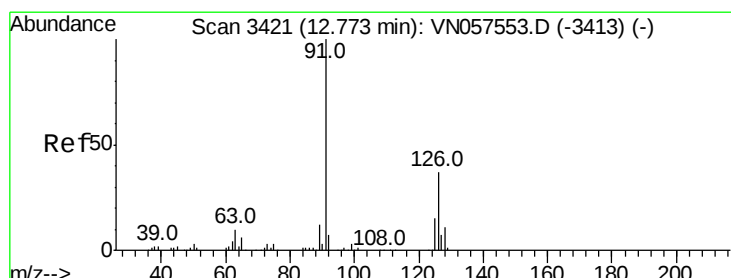
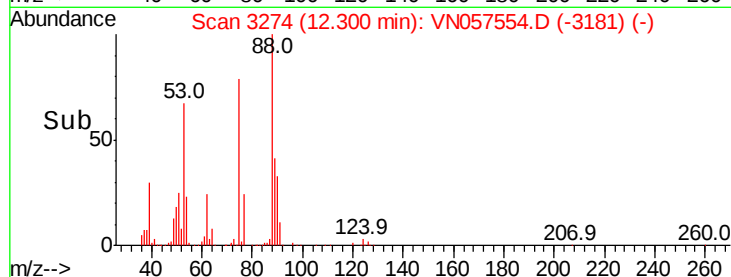
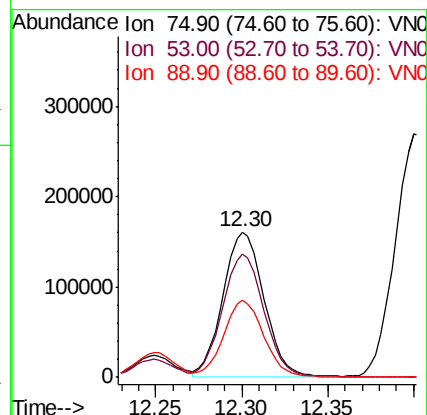
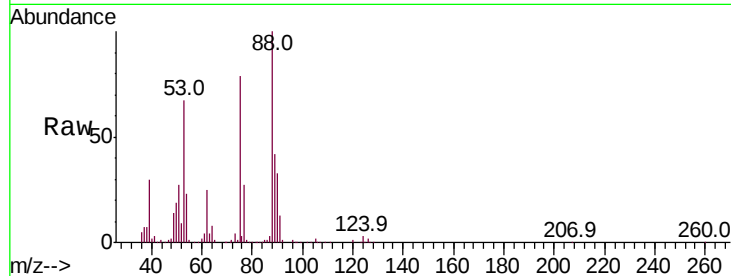
53 87.5 82.7 124.1

89 53.2 35.8 53.8

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#82

4-Chlorotoluene

Concen: 79.177 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN057554.D

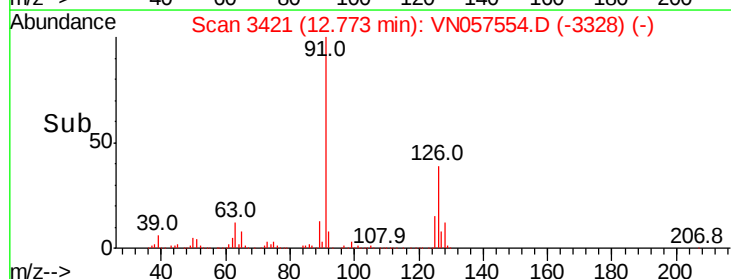
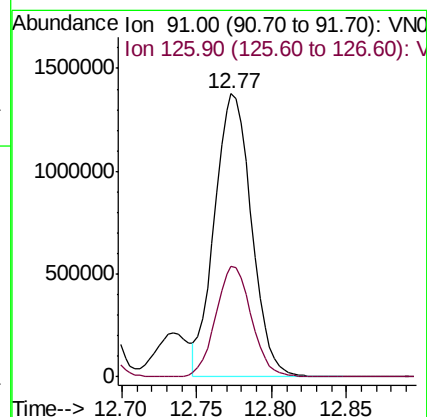
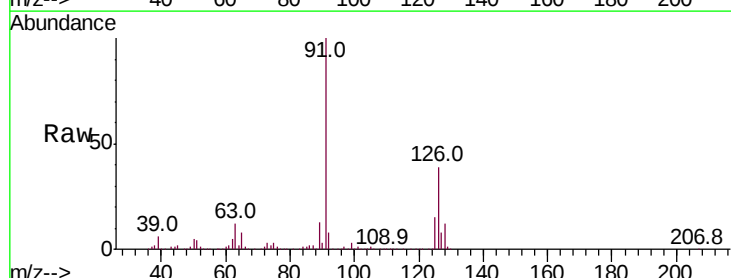
Acq: 29 Aug 2019 17:04

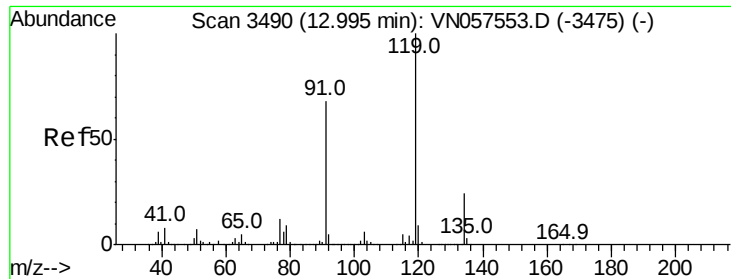
Tgt Ion: 91 Resp: 2373500

Ion Ratio Lower Upper

91 100

126 37.8 15.0 45.0





#83

tert-Butylbenzene

Concen: 75.863 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:119 Resp: 2683468

Ion Ratio Lower Upper

119 100

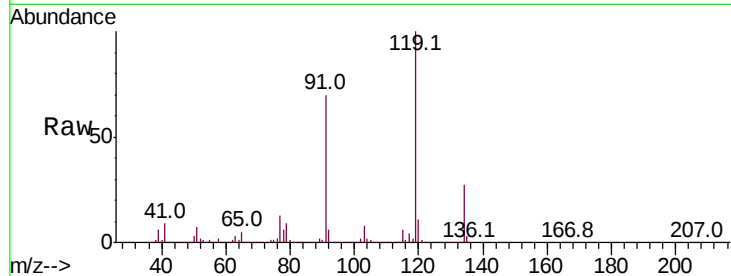
91 66.2 37.0 111.0

134 27.0 12.2 36.6

Manual Integrations
APPROVED

MMDadoda

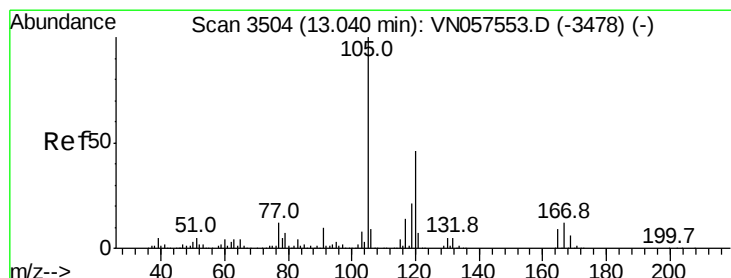
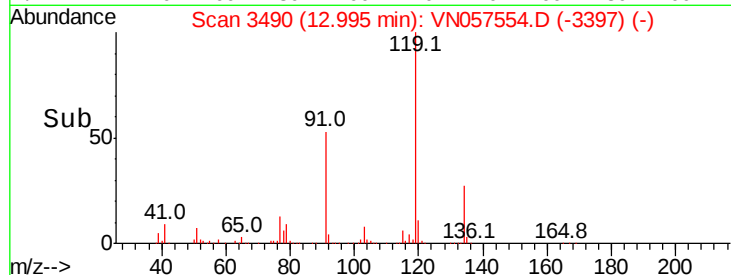
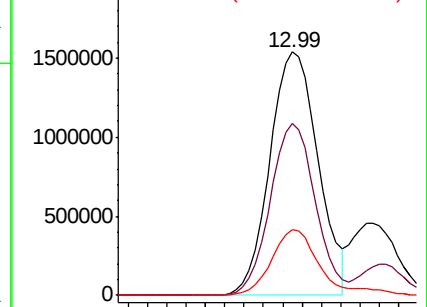
9/3/2019 2:38:43 AM



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 81.564 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN057554.D

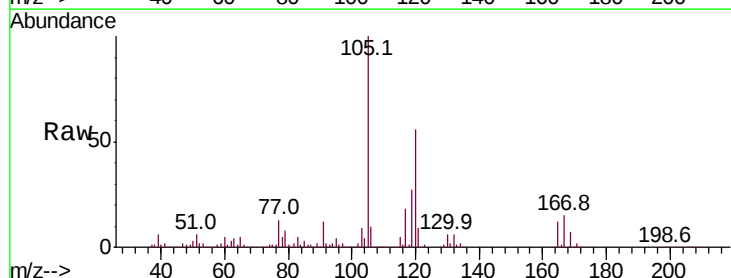
Acq: 29 Aug 2019 17:04

Tgt Ion:105 Resp: 2864802

Ion Ratio Lower Upper

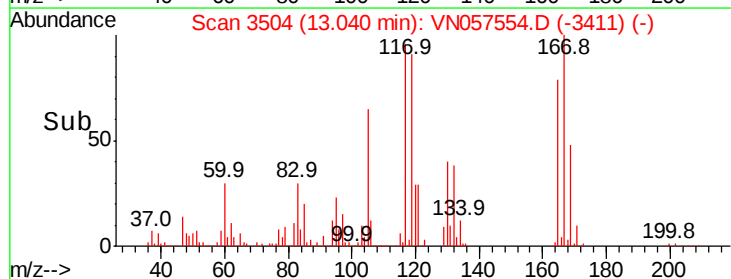
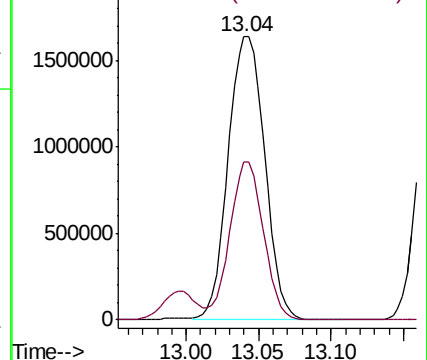
105 100

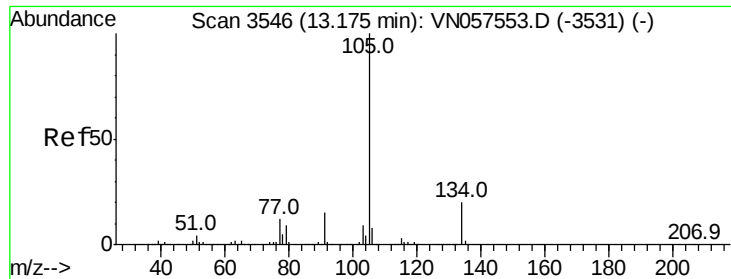
120 51.1 21.9 65.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 73.885 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 3185417

Ion Ratio Lower Upper

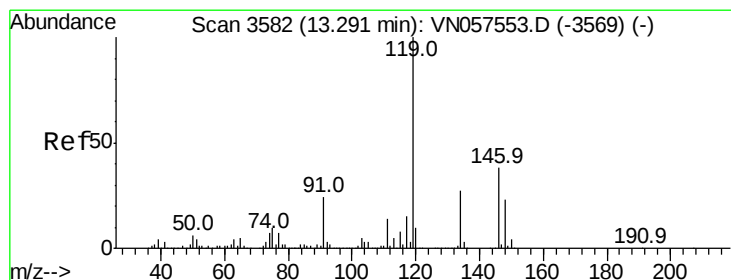
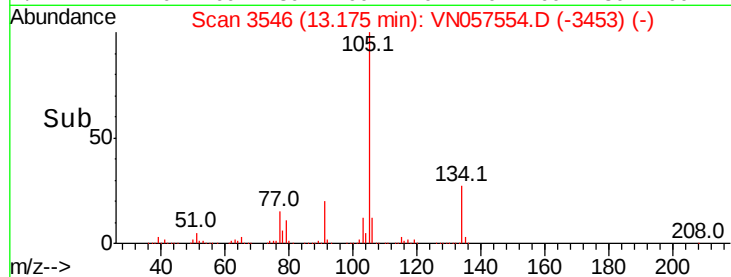
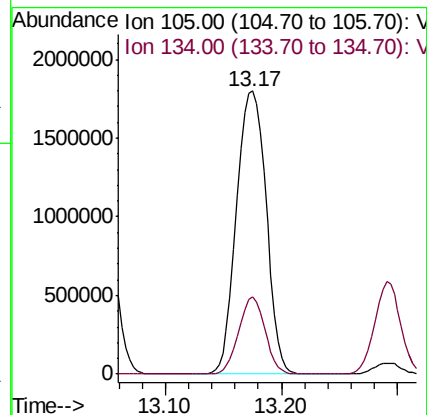
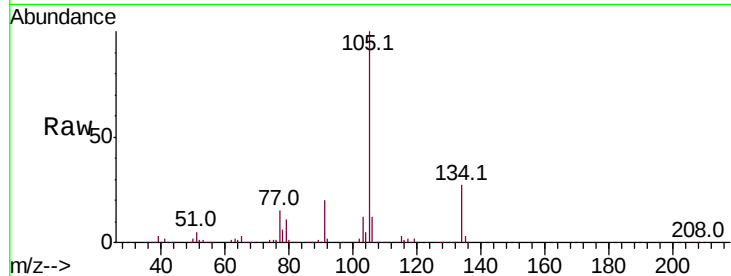
105 100

134 24.0 9.3 27.9

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM



#86

p-Isopropyltoluene

Concen: 84.964 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

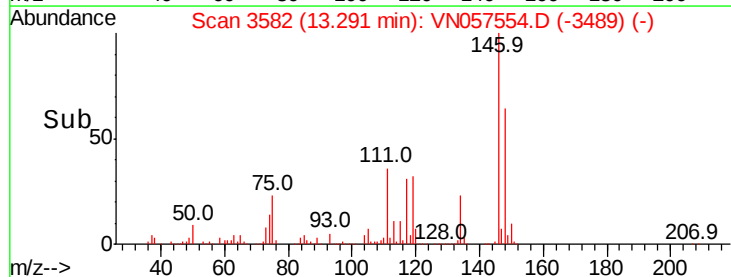
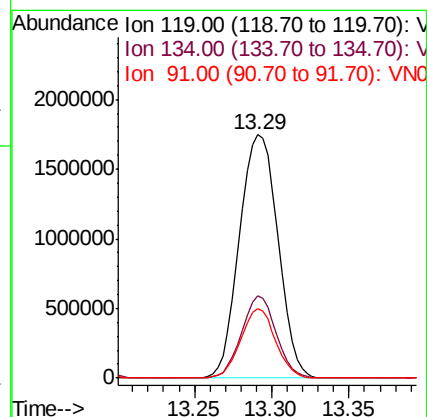
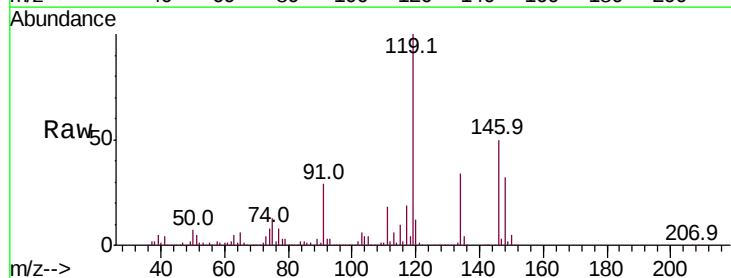
Tgt Ion:119 Resp: 3023239

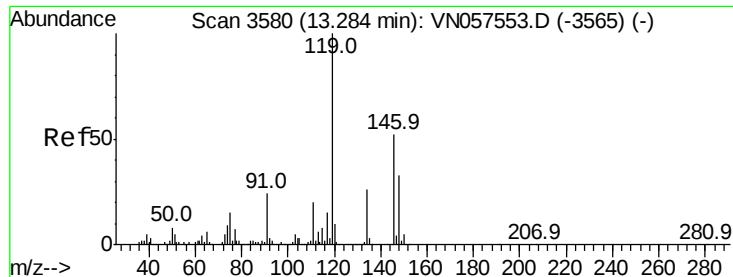
Ion Ratio Lower Upper

119 100

134 30.2 12.7 38.1

91 25.8 13.9 41.6





#87

1,3-Dichlorobenzene

Concen: 109.919 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

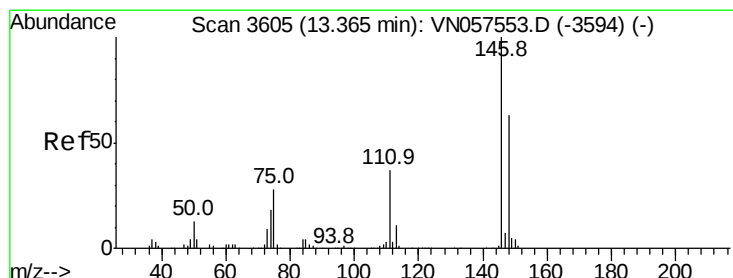
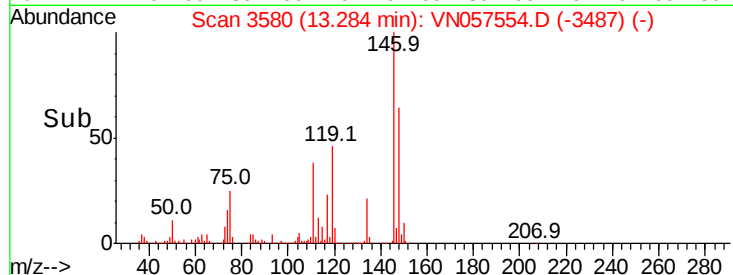
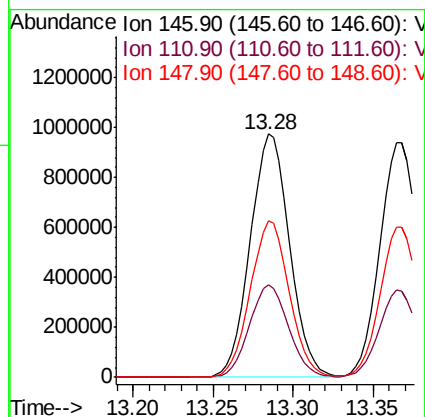
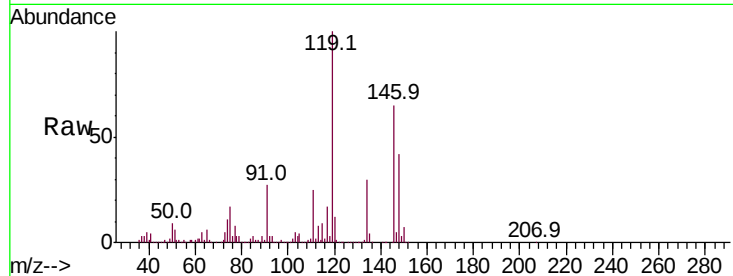
ClientSampleId :

VSTDIC100

Tot Ion:	146	Resp:	1640013
Ion	Ratio	Lower	Upper
146	100		
111	37.8	22.1	66.1
148	63.9	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM



#88

1,4-Dichlorobenzene

Concen: 109.850 ug/l

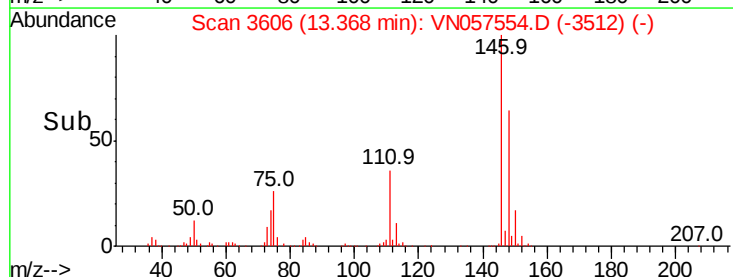
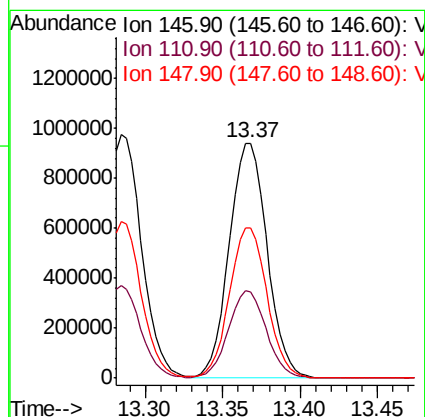
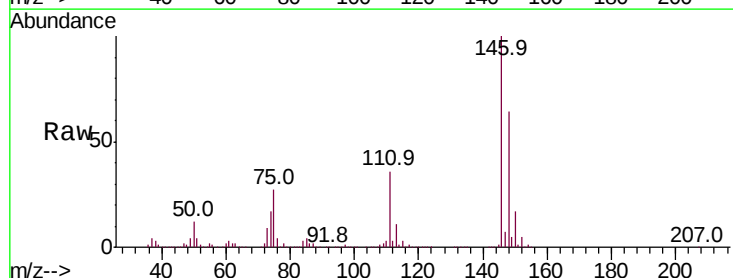
RT: 13.37 min Scan# 3606

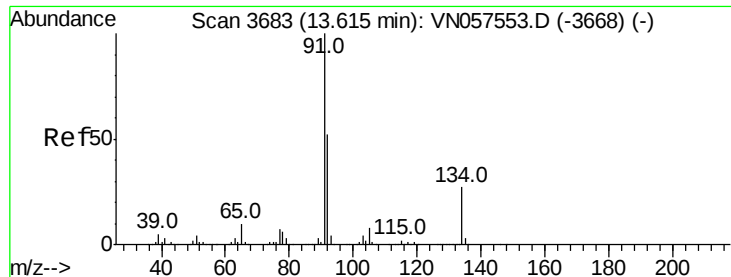
Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Tgt Ion:	146	Resp:	1597785
Ion	Ratio	Lower	Upper
146	100		
111	36.8	21.9	65.5
148	63.6	31.1	93.2





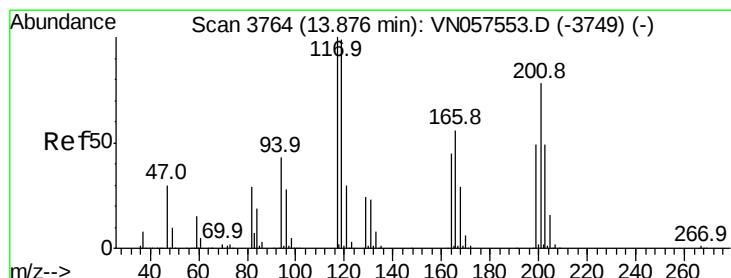
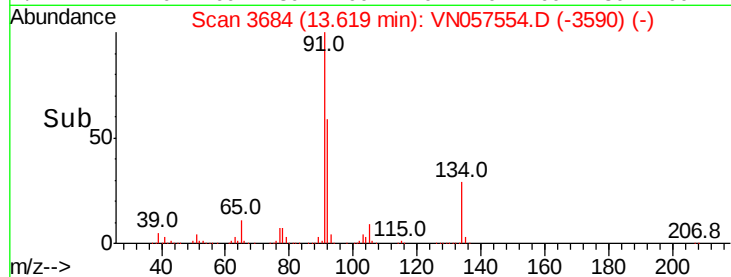
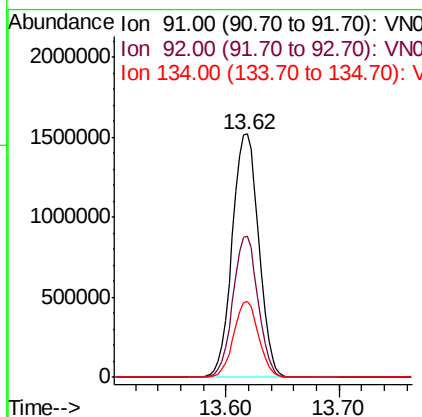
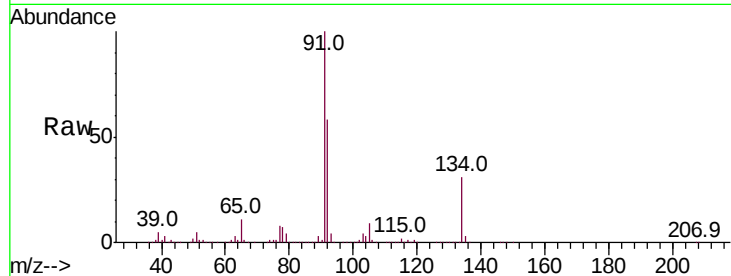
#89
n-Butylbenzene
Concen: 84.164 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 2480629
Ion Ratio Lower Upper
91 100
92 55.0 25.7 77.0
134 29.5 11.4 34.1

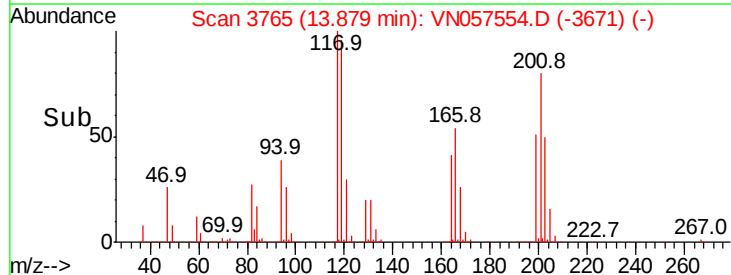
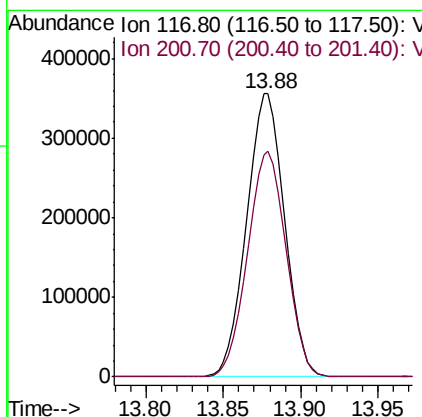
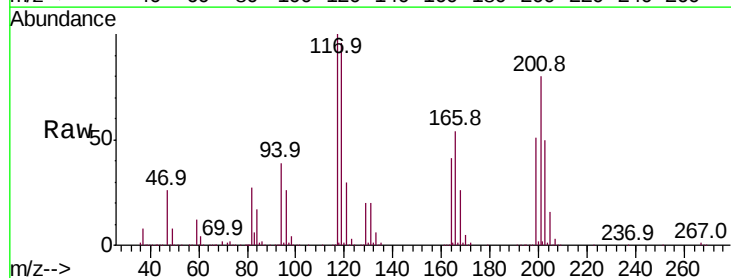
Manual Integrations
APPROVED

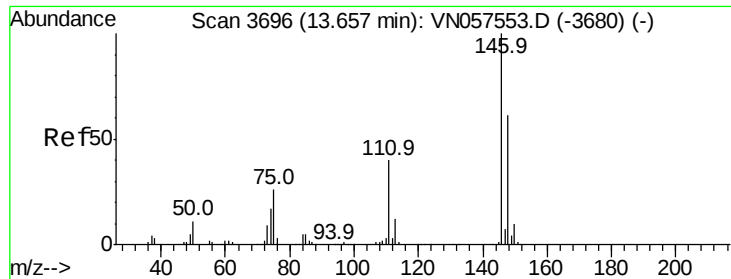
MMDadoda
9/3/2019 2:38:43 AM



#90
Hexachloroethane
Concen: 75.718 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion: 117 Resp: 610270
Ion Ratio Lower Upper
117 100
201 80.6 33.1 99.3





#91

1,2-Dichlorobenzene

Concen: 108.932 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tot Ion:146 Resp: 1550093

Ion Ratio Lower Upper

146 100

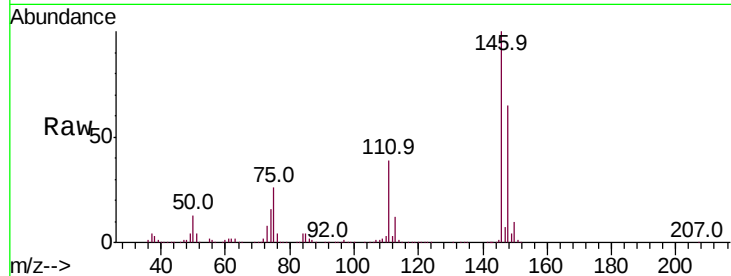
111 38.6 23.1 69.2

148 63.8 31.8 95.4

Manual Integrations
APPROVED

MMDadoda

9/3/2019 2:38:43 AM

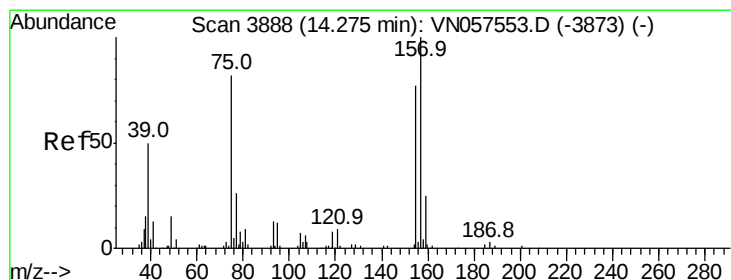
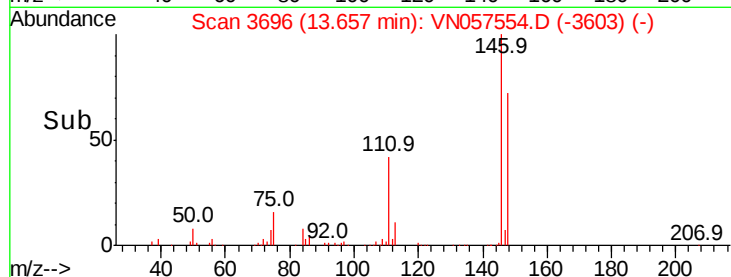
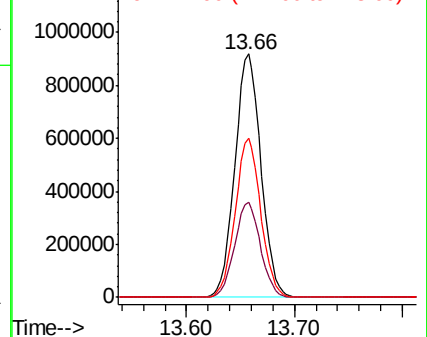


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 65.028 ug/l

RT: 14.27 min Scan# 3888

Delta R.T. 0.00 min

Lab File: VN057554.D

Acq: 29 Aug 2019 17:04

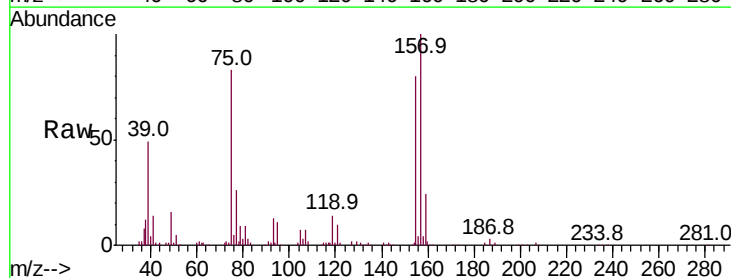
Tgt Ion: 75 Resp: 150056

Ion Ratio Lower Upper

75 100

155 97.5 31.6 94.7#

157 121.5 43.3 129.8

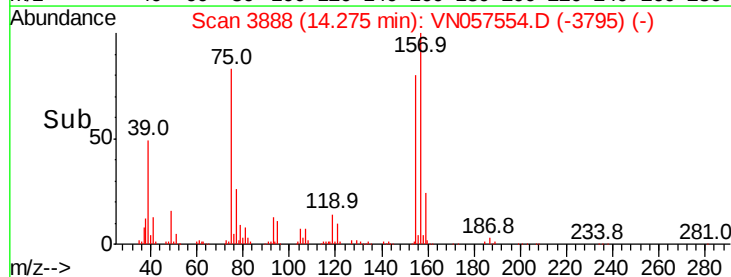
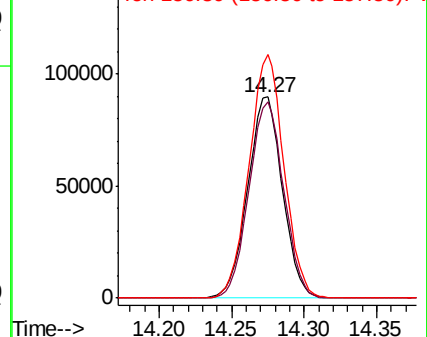


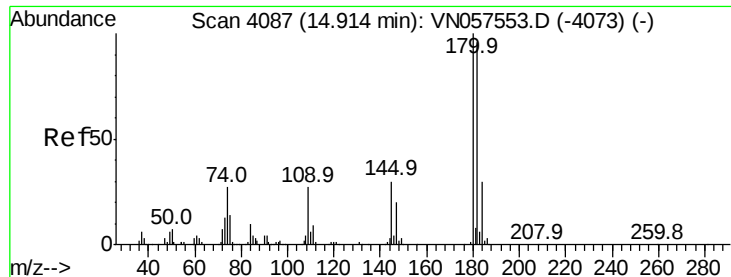
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





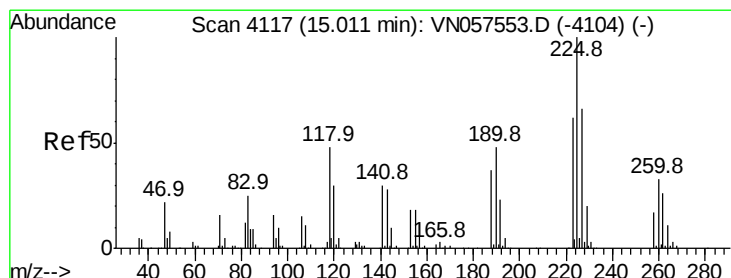
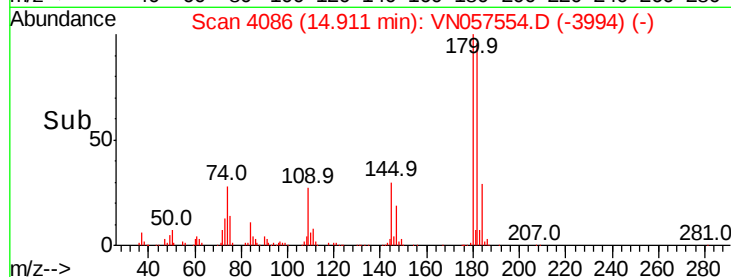
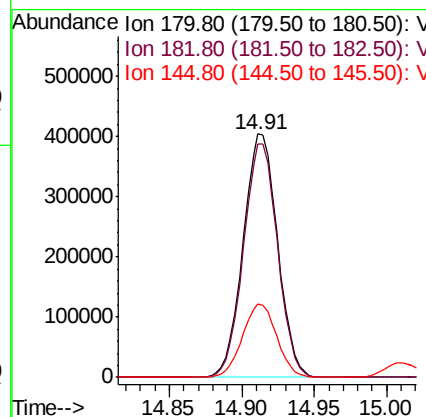
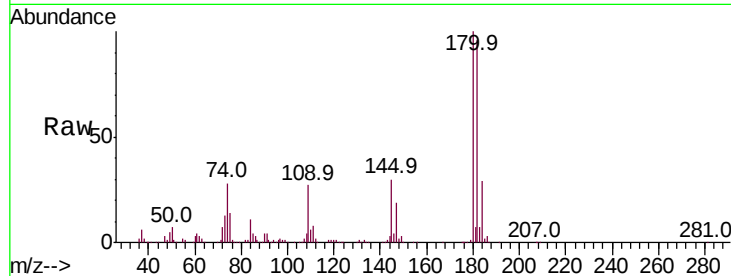
#93
 1,2,4-Trichlorobenzene
 Concen: 127.990 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.1	46.7	140.1	
145	30.1	15.6	46.8	

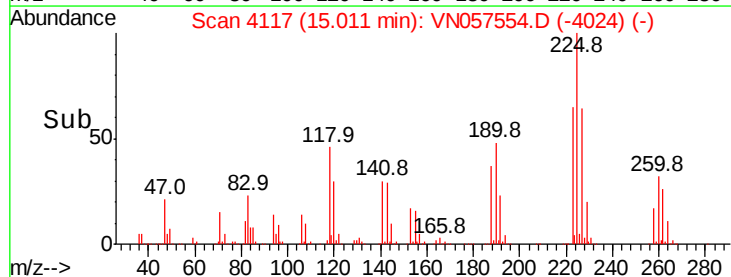
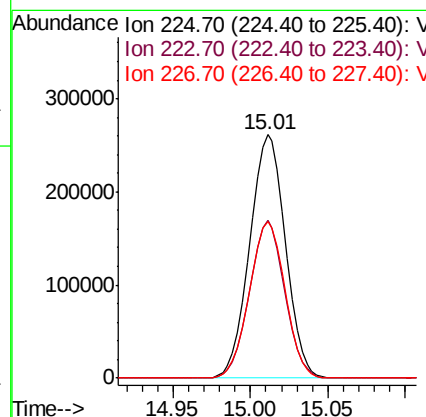
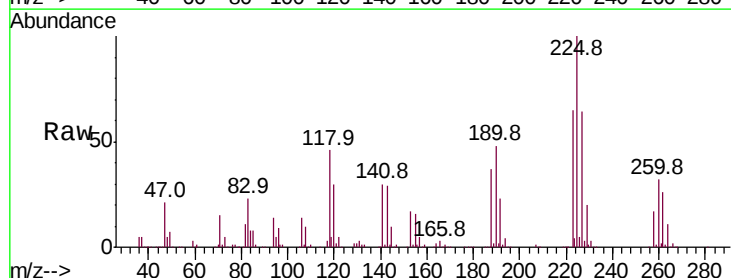
Manual Integrations
 APPROVED

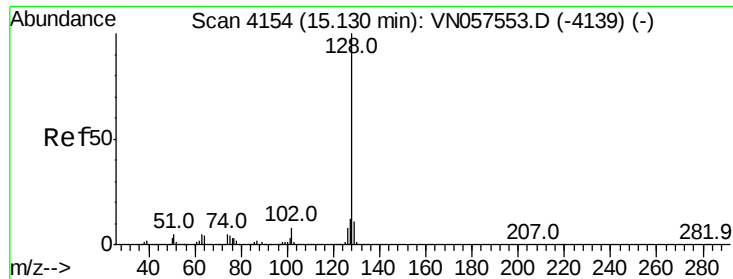
MMDadoda
 9/3/2019 2:38:43 AM



#94
 Hexachlorobutadiene
 Concen: 94.658 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN057554.D
 Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.9	32.0	96.2	
227	64.4	31.5	94.5	





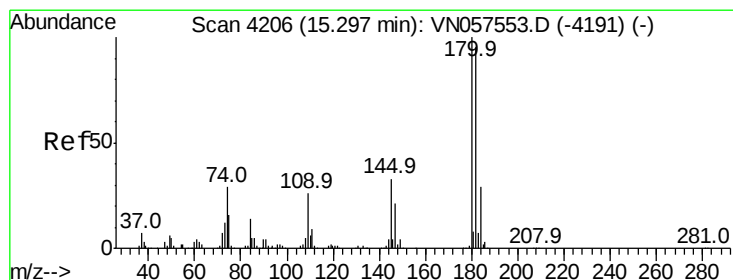
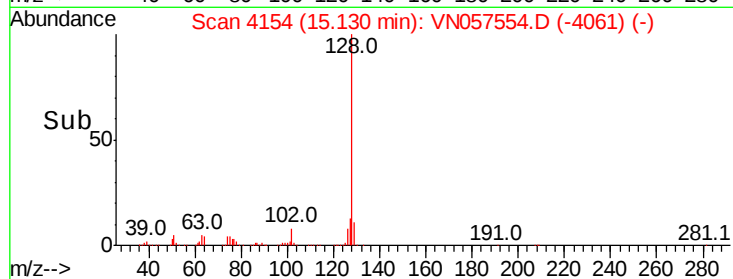
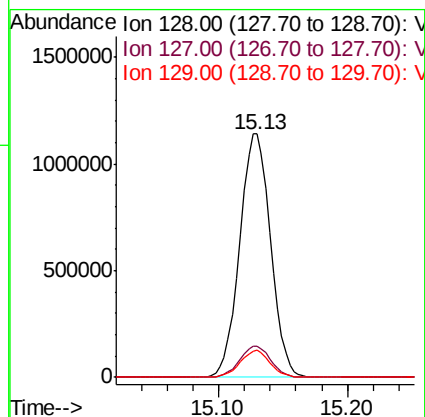
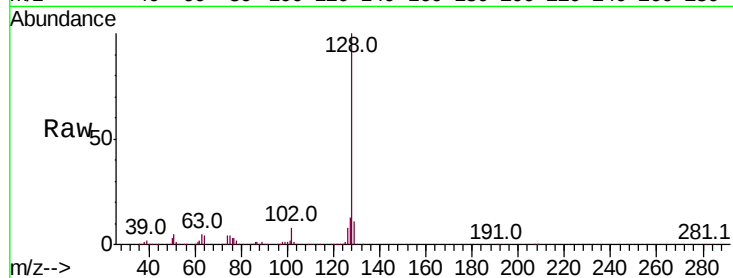
#95
Naphthalene
Concen: 112.410 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.5	15.7
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
9/3/2019 2:38:43 AM



#96
1,2,3-Trichlorobenzene
Concen: 121.660 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. 0.00 min
Lab File: VN057554.D
Acq: 29 Aug 2019 17:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	46.7	140.1
145	32.3	16.8	50.3

