

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057462.D
 Acq On : 23 Aug 2019 9:12
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:47 PM

Quant Time: Aug 23 23:03:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	73664	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	414138	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	337478	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	213797	40.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	136.03%
60) 4-Bromofluorobenzene	12.40	95	143903	28.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.93%
63) Toluene-d8	10.08	98	538025	34.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	114.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	17474	4.625 ug/l	97
3) Chloromethane	2.05	50	30448	6.506 ug/l	93
4) Vinyl Chloride	2.17	62	36991	7.560 ug/l	100
5) Bromomethane	2.54	94	25329	7.070 ug/l	87
6) Chloroethane	2.68	64	26982	8.160 ug/l	95
7) Trichlorofluoromethane	3.00	101	61956	7.975 ug/l	99
8) Diethyl Ether	3.39	74	26212	9.022 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.73	101	36779	8.079 ug/l	86
10) 1,1-Dichloroethene	3.71	96	36214	8.126 ug/l	89
11) Methyl Iodide	3.92	142	43575	6.860 ug/l	94
12) Methyl Acetate	4.30	43	43244	8.824 ug/l	100
13) Acrolein	3.58	56	23132	44.926 ug/l	98
14) Acrylonitrile	4.97	53	56933	29.970 ug/l #	36
15) Acetone	3.80	58	28996	43.979 ug/l	96
16) Carbon Disulfide	4.01	76	60799	5.548 ug/l	98
17) Allyl chloride	4.29	41	44715	6.982 ug/l	98
18) Methylene Chloride	4.52	84	24863m	5.448 ug/l	
19) trans-1,2-Dichloroethene	5.01	96	24398	5.672 ug/l	94
20) Diisopropyl ether	5.93	45	97470	7.273 ug/l #	93
21) 1,1-Dichloroethane	5.82	63	49821	6.302 ug/l	98
22) cis-1,2-Dichloroethene	6.80	96	28571	5.645 ug/l #	85
23) tert-Butyl Alcohol	4.80	59	22247m	32.661 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	77217	6.071 ug/l #	71
25) Chloroform	7.36	83	52304	6.432 ug/l	95
26) Cyclohexane	7.63	56	47932	7.201 ug/l #	97
29) 1,1-Dichloropropene	7.78	75	38106	6.185 ug/l	98
30) 2-Butanone	6.83	43	89788	34.909 ug/l	98
31) 2,2-Dichloropropane	6.79	77	44050	6.458 ug/l #	72
32) 1,1,1-Trichloroethane	7.55	97	43139	5.980 ug/l	98
33) Carbon Tetrachloride	7.76	117	34415	5.425 ug/l	94
34) Benzene	8.02	78	111662	6.003 ug/l #	50
35) Methacrylonitrile	7.16	41	15032	4.487 ug/l	95
36) 1,2-Dichloroethane	8.11	62	45171	7.154 ug/l #	85
37) Trichloroethene	8.82	130	25207	4.876 ug/l	96
38) Methylcyclohexane	9.07	83	42695	5.940 ug/l	97
39) 1,2-Dichloropropane	9.11	63	31421	6.455 ug/l	91
40) Dibromomethane	9.20	93	19234	6.067 ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057462.D
 Acq On : 23 Aug 2019 9:12
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:47 PM

Quant Time: Aug 23 23:03:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	40341	6.243	ug/l	98
42) Vinyl Acetate	5.87	43	395155	36.268	ug/l	100
43) Ethyl Acetate	6.92	43	29877	5.767	ug/l #	87
44) Isopropyl Acetate	8.16	43	66011	7.116	ug/l #	92
45) 1,4-Dioxane	9.19	88	8458m	106.569	ug/l	
46) Methyl methacrylate	9.19	41	31414	7.449	ug/l	97
47) n-amyl Acetate	12.07	43	48020	6.877	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	40832	5.885	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	45992	5.955	ug/l	98
50) 1,1,2-Trichloroethane	10.55	97	24440	5.394	ug/l	96
51) Ethyl methacrylate	10.43	69	37993	5.638	ug/l	97
52) 1,3-Dichloropropane	10.70	76	44216	5.838	ug/l	98
53) Dibromochloromethane	10.90	129	23758	4.640	ug/l	96
54) 1,2-Dibromoethane	11.00	107	24968	5.303	ug/l	94
55) 2-Chloroethyl vinyl ether	9.69	63	40037	25.426	ug/l	99
56) Bromoform	12.12	173	12807	3.437	ug/l #	92
58) 4-Methyl-2-Pentanone	9.98	43	178759	36.825	ug/l	99
59) 2-Hexanone	10.75	43	120121	34.773	ug/l	98
61) Tetrachloroethene	10.63	164	22662	4.847	ug/l	95
62) Toluene	10.15	91	116225	6.149	ug/l	98
64) Chlorobenzene	11.43	112	59130	5.126	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	23389	5.264	ug/l	96
66) Ethyl Benzene	11.51	91	117424	5.714	ug/l	98
67) m/p-Xylenes	11.62	106	76293	10.095	ug/l	96
68) o-Xylene	11.95	106	38810	5.220	ug/l	97
69) Styrene	11.96	104	54861	4.627	ug/l	99
70) Isopropylbenzene	12.25	105	99707	5.025	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	28915	5.261	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	29183m	6.194	ug/l	
73) Bromobenzene	12.53	156	19426	3.861	ug/l	98
74) n-propylbenzene	12.59	91	106539	5.064	ug/l	99
75) 2-Chlorotoluene	12.68	91	64081	4.967	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	79994	4.861	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	7597	4.223	ug/l	95
78) 4-Chlorotoluene	12.78	91	54319	4.488	ug/l	98
79) tert-butylbenzene	12.99	119	72931	5.012	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	66289	4.269	ug/l	99
81) sec-Butylbenzene	13.17	105	85326	4.675	ug/l	99
82) p-Isopropyltoluene	13.29	119	71542	4.435	ug/l	98
83) 1,3-Dichlorobenzene	13.29	146	24512	3.301	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	22386	3.197	ug/l	99
85) n-Butylbenzene	13.62	91	55865	4.608	ug/l	96
86) Hexachloroethane	13.88	117	15144	4.831	ug/l	93
87) 1,2-Dichlorobenzene	13.66	146	22915	3.246	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	3773	4.864	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	7055	2.785	ug/l	92
90) Hexachlorobutadiene	15.01	225	8100	2.706	ug/l	95
91) Naphthalene	15.13	128	21557	3.586	ug/l	96
92) 1,2,3-Trichlorobenzene	15.30	180	6000	2.442	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
Data File : VN057462.D
Acq On : 23 Aug 2019 9:12
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

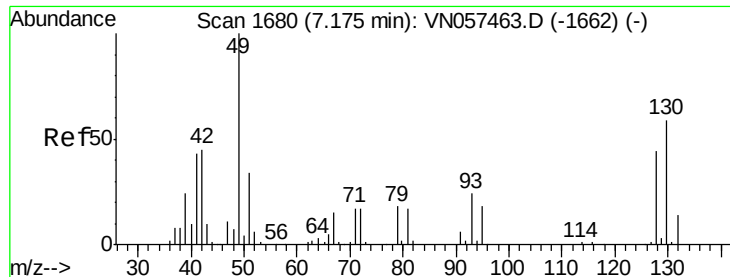
Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM

Quant Time: Aug 23 23:03:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Aug 23 22:53:43 2019
Response via : Initial Calibration

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

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

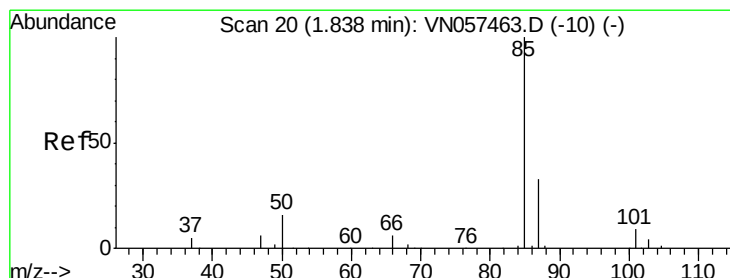
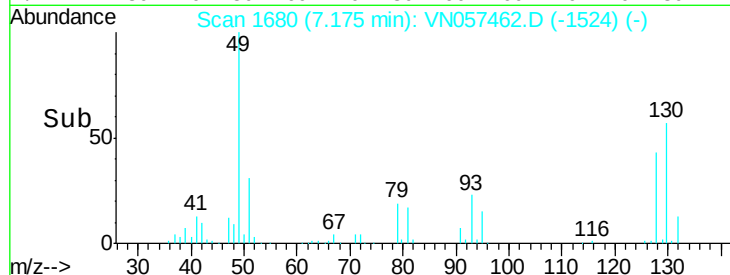
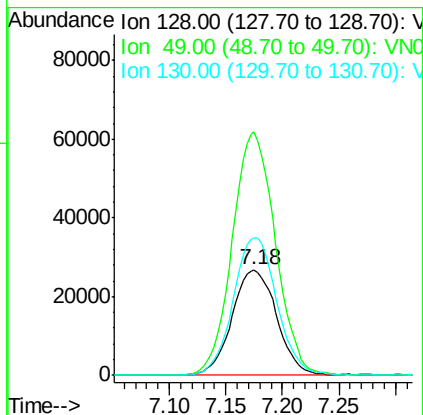
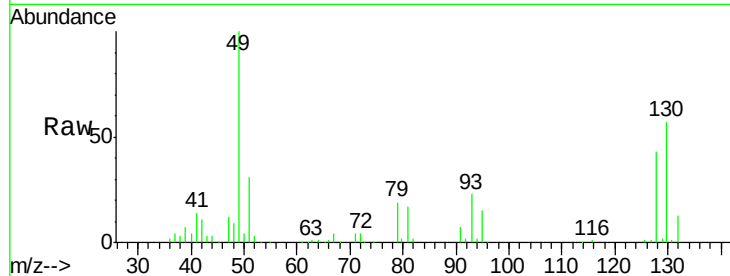
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
49	222.5	0.0	560.5
130	127.4	0.0	317.3

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#2

Dichlorodifluoromethane

Concen: 4.625 ug/l

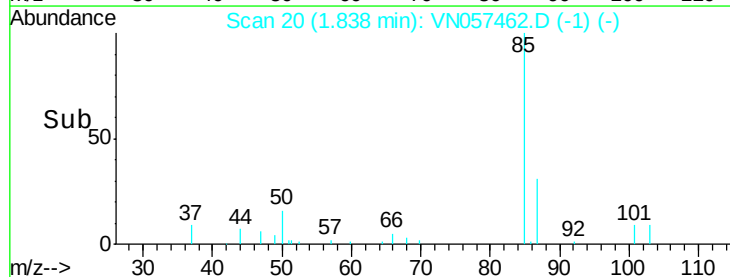
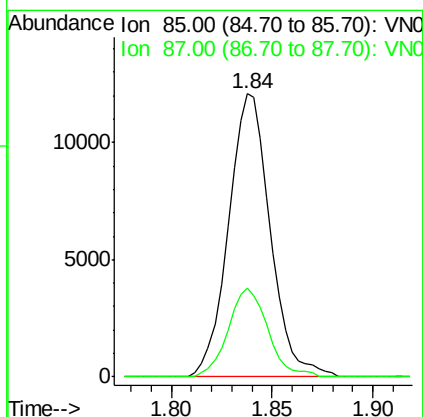
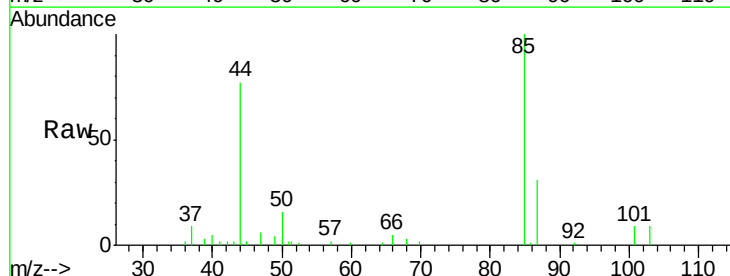
RT: 1.84 min Scan# 20

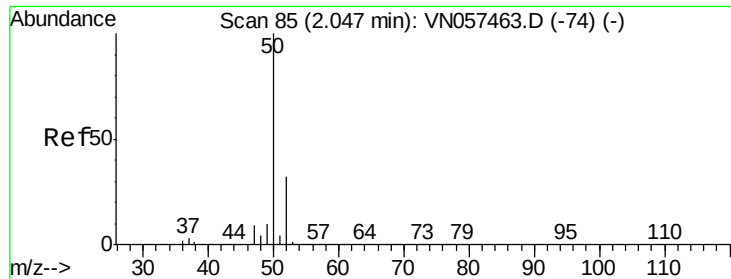
Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.4	49.1





#3

Chloromethane

Concen: 6.506 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 30448

Ion Ratio Lower Upper

50 100

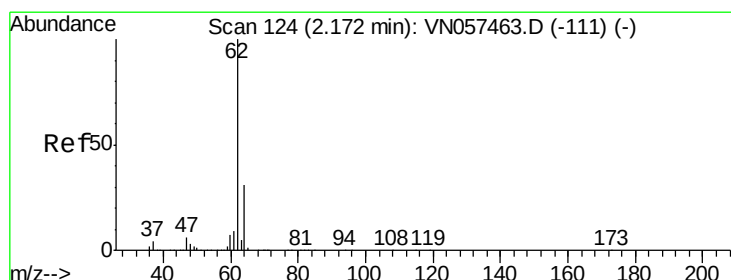
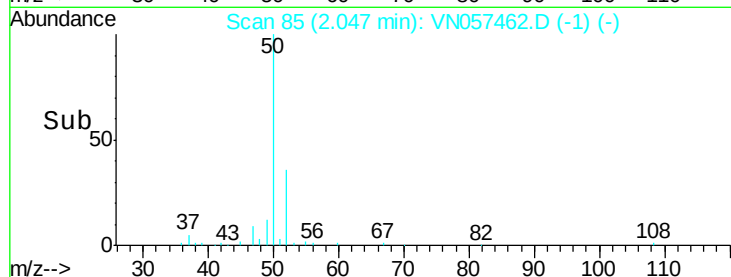
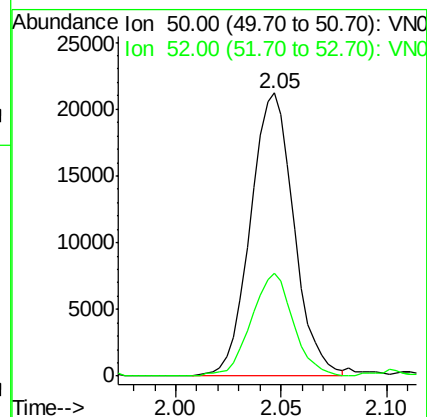
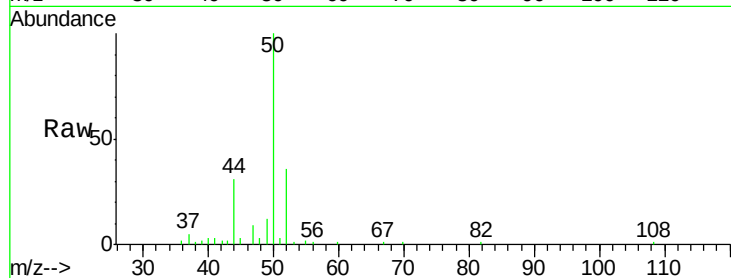
52 36.3 25.8 38.6

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



#4

Vinyl Chloride

Concen: 7.560 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN057462.D

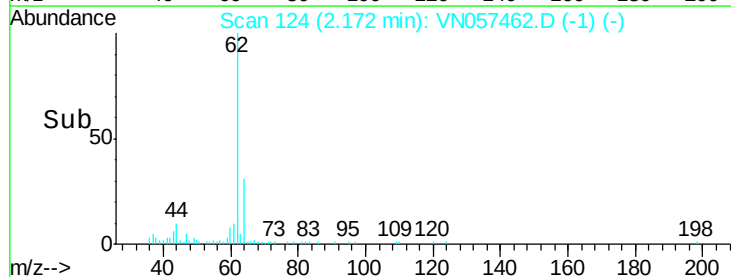
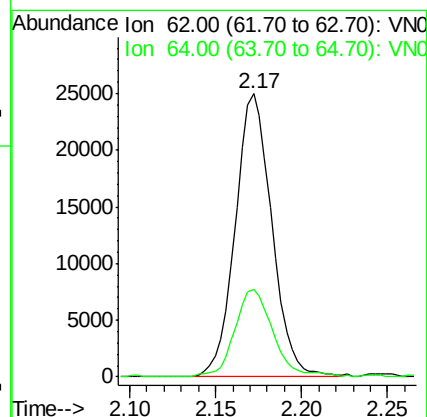
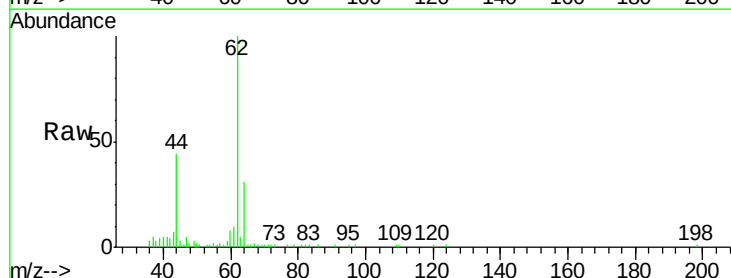
Acq: 23 Aug 2019 9:12

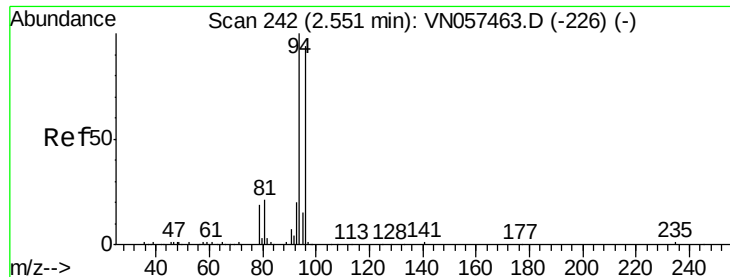
Tgt Ion: 62 Resp: 36991

Ion Ratio Lower Upper

62 100

64 31.1 24.8 37.2





#5

Bromomethane

Concen: 7.070 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 94 Resp: 25329

Ion Ratio Lower Upper

94 100

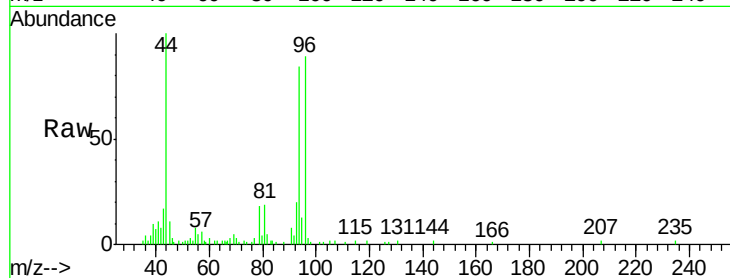
96 105.6 74.8 112.2

Manual Integrations

APPROVED

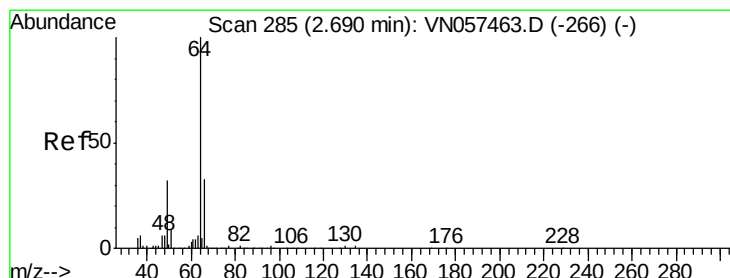
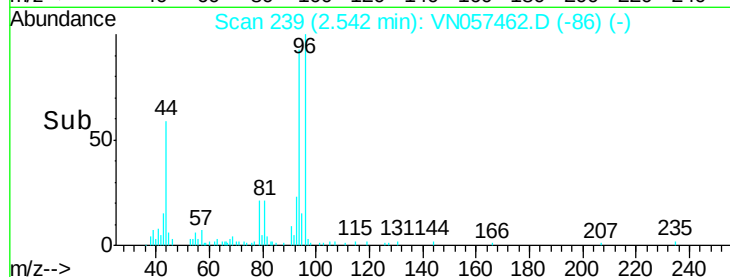
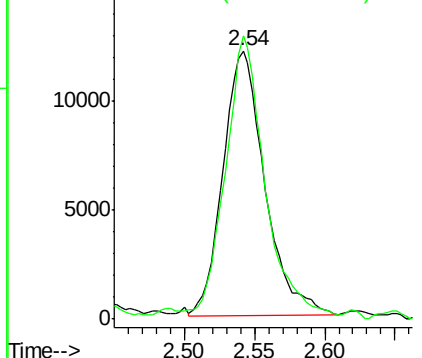
MMDadoda

8/26/2019 1:11:47 PM



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 8.160 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN057462.D

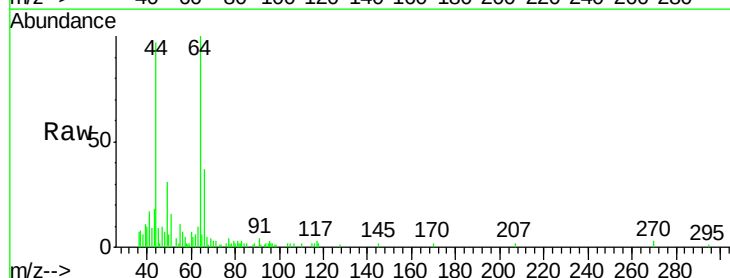
Acq: 23 Aug 2019 9:12

Tgt Ion: 64 Resp: 26982

Ion Ratio Lower Upper

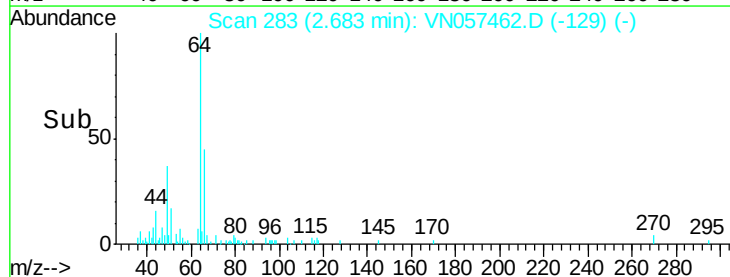
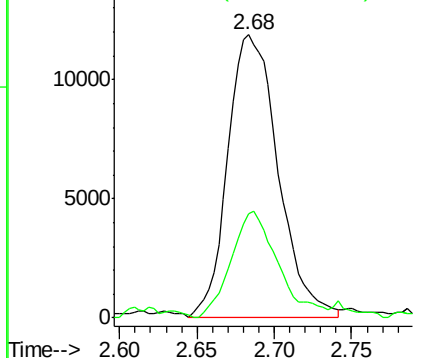
64 100

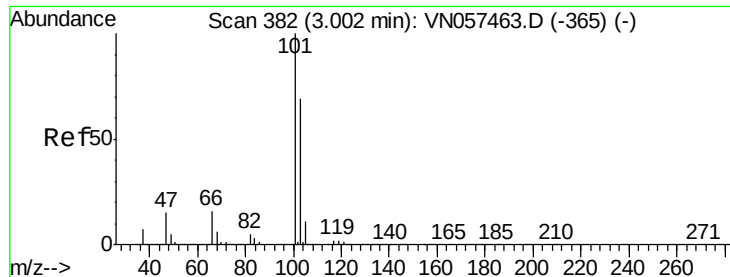
66 35.7 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

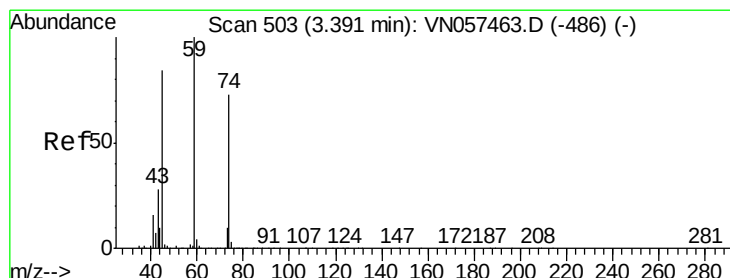
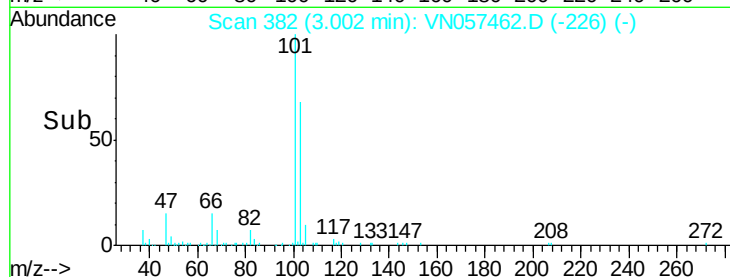
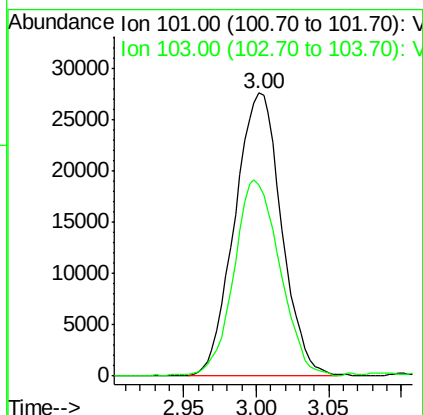
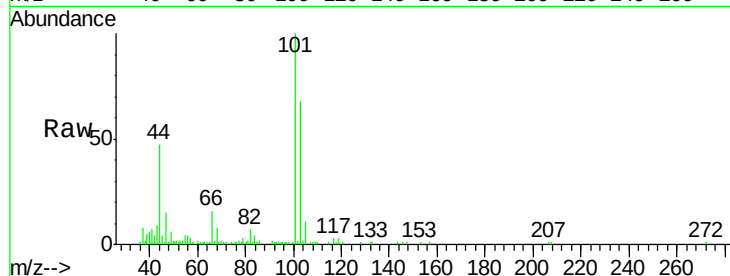
Trichlorofluoromethane
Concen: 7.975 ug/l
RT: 3.00 min Scan# 382
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.7	55.0	82.4

Manual Integrations
APPROVED

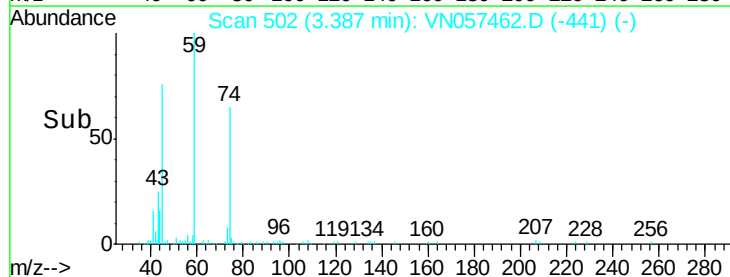
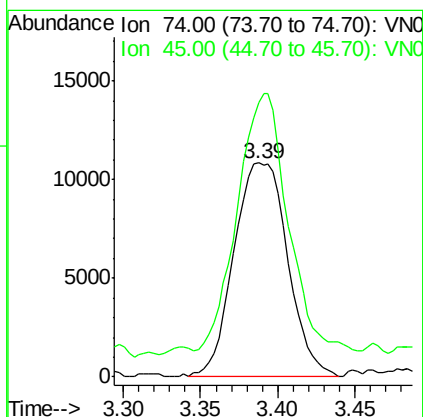
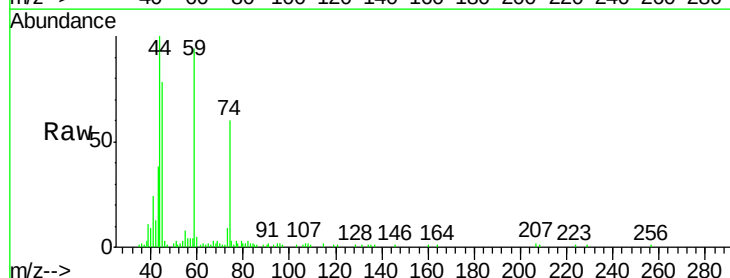
MMDadoda
8/26/2019 1:11:47 PM

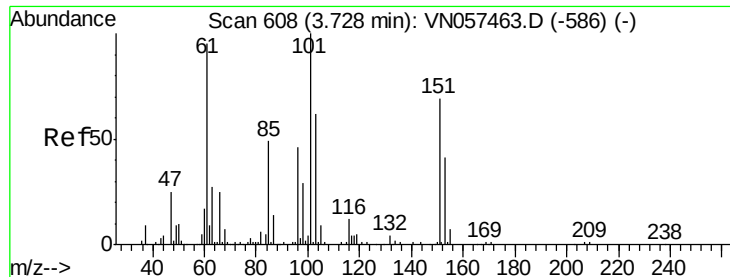


#8

Diethyl Ether
Concen: 9.022 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	111.1	23.2	209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.079 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

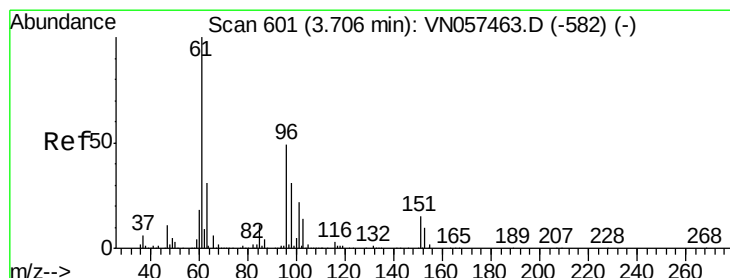
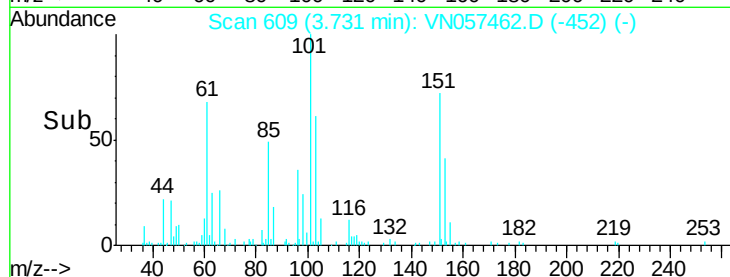
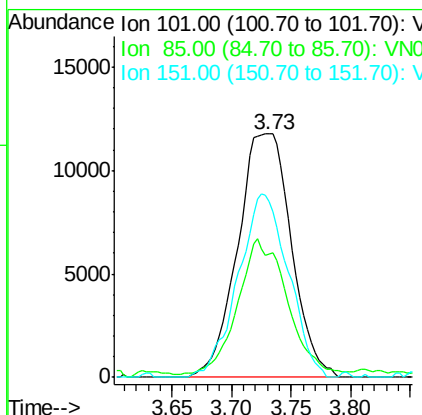
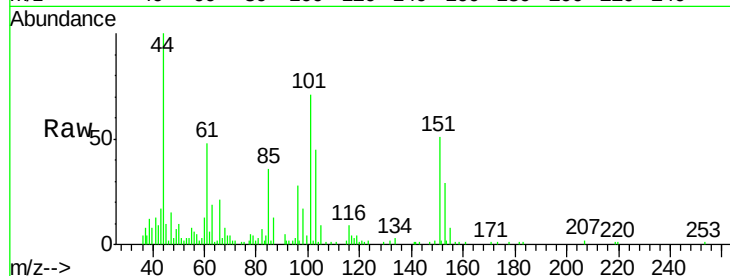
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	36779
Ion Ratio	Lower	Upper	
101	100		
85	28.3	0.0	101.6
151	70.5	0.0	139.4

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#10

1,1-Dichloroethene

Concen: 8.126 ug/l

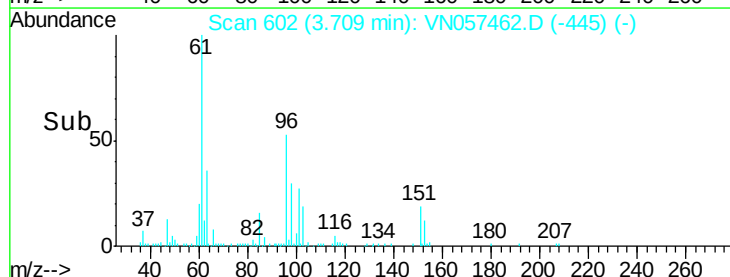
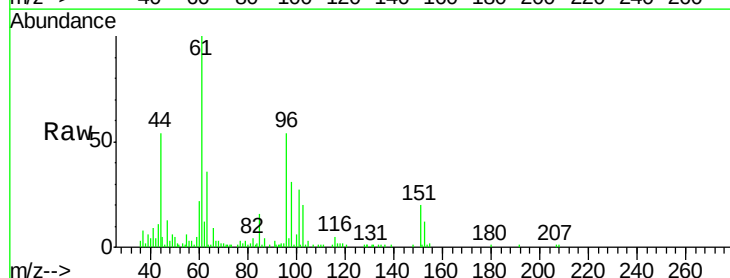
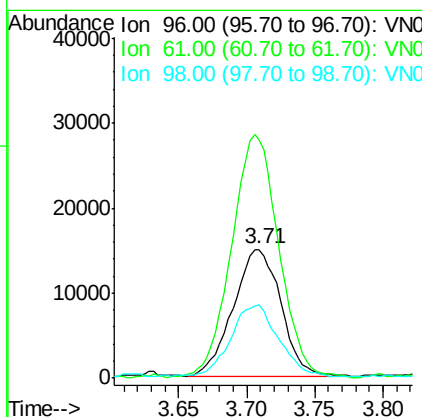
RT: 3.71 min Scan# 602

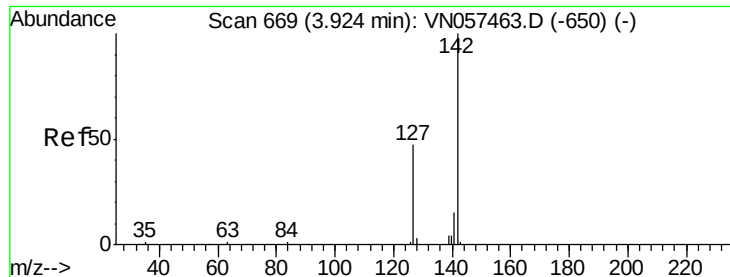
Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion:	96	Resp:	36214
Ion Ratio	Lower	Upper	
96	100		
61	185.6	162.6	244.0
98	56.6	51.1	76.7





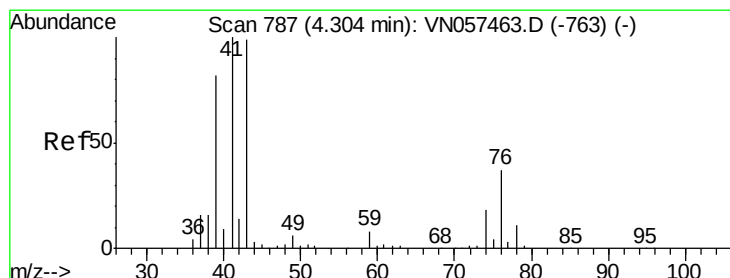
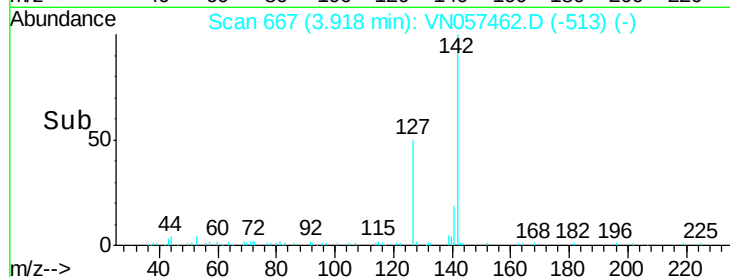
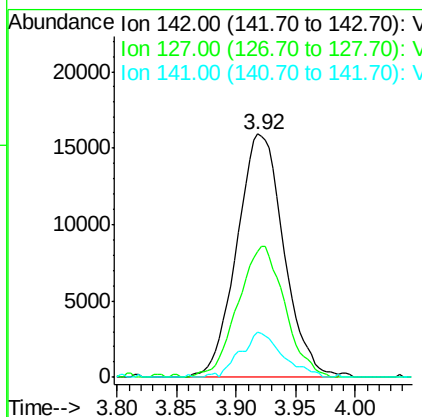
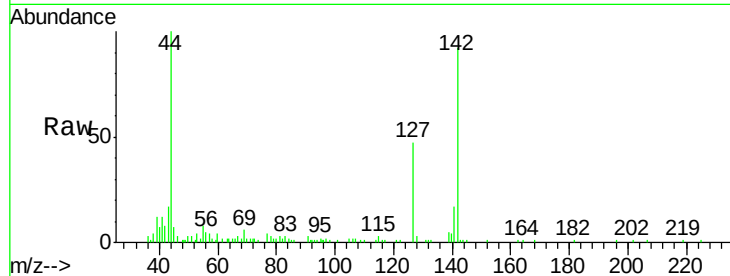
#11
Methvl Iodide
Concen: 6.860 ug/l
RT: 3.92 min Scan# 667
Delta R.T. -0.01 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
142	100		
127	51.8	24.0	72.0
141	17.7	7.0	21.1

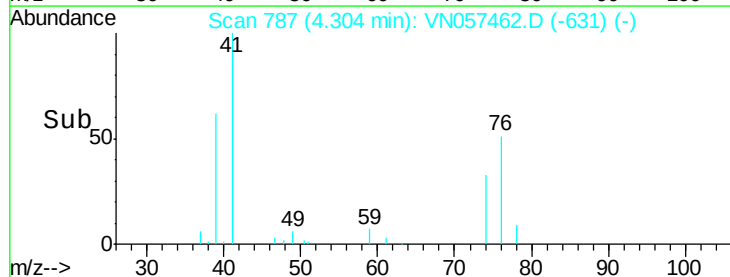
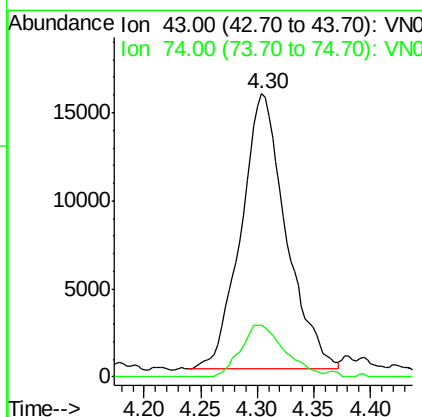
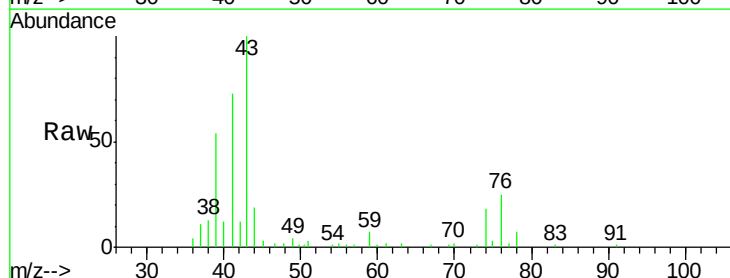
Manual Integrations
APPROVED

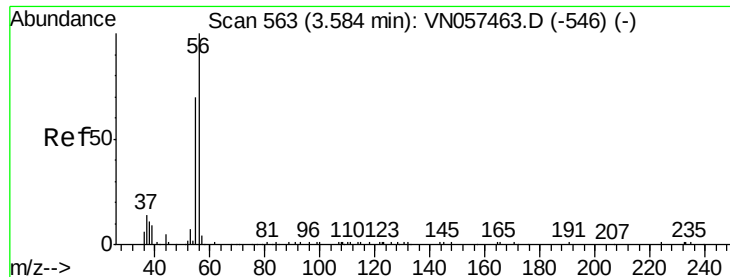
MMDadoda
8/26/2019 1:11:47 PM



#12
Methyl Acetate
Concen: 8.824 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.3	14.6	22.0





#13

Acrolein

Concen: 44.926 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 23132

Ion Ratio Lower Upper

56 100

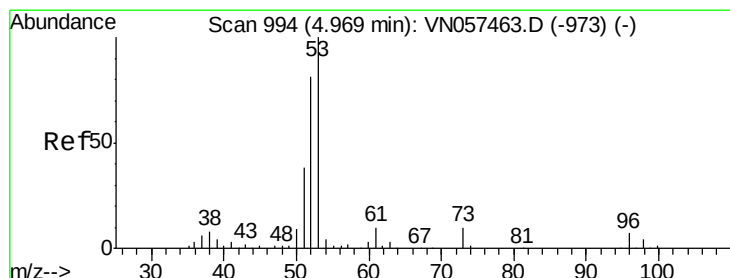
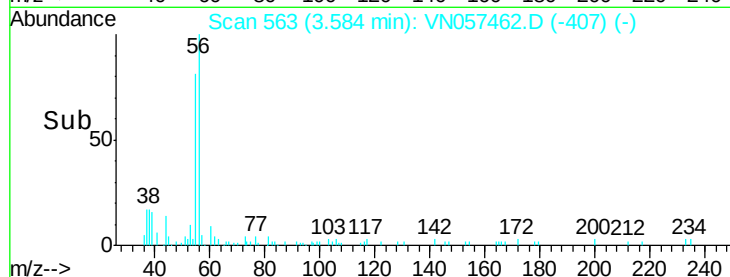
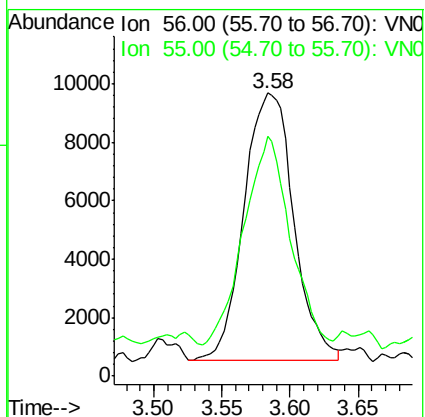
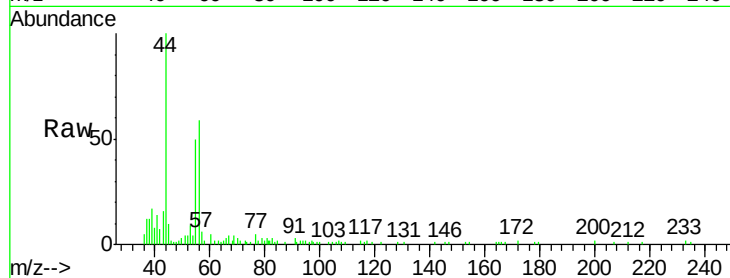
55 72.4 56.7 85.1

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



#14

Acrylonitrile

Concen: 29.970 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

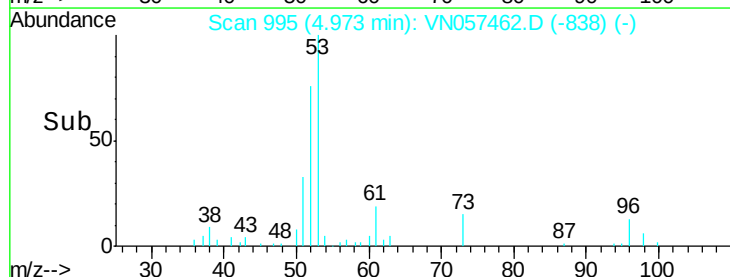
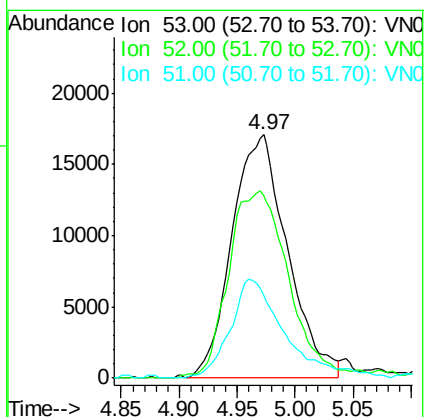
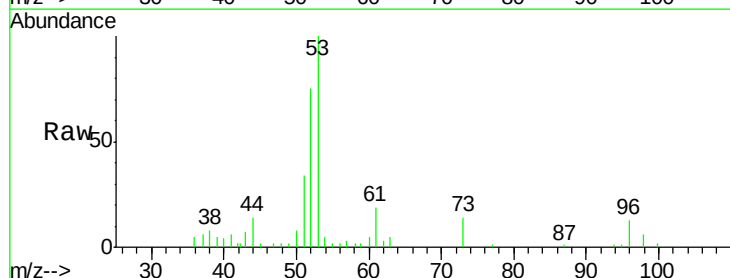
Tgt Ion: 53 Resp: 56933

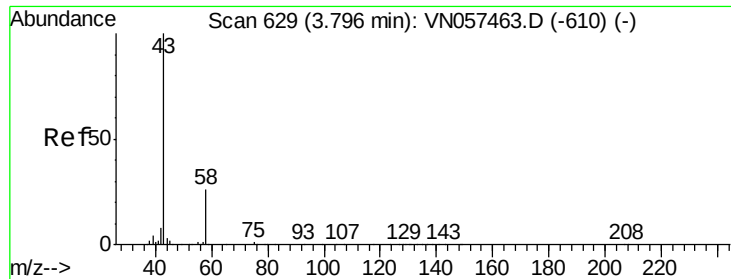
Ion Ratio Lower Upper

53 100

52 0.2 41.3 123.9#

51 35.9 18.3 54.9





#15

Acetone

Concen: 43.979 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 58 Resp: 28996

Ion Ratio Lower Upper

58 100

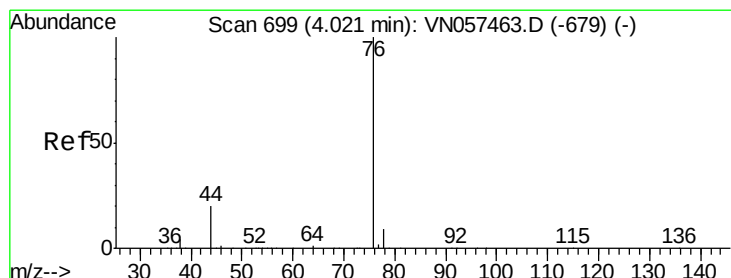
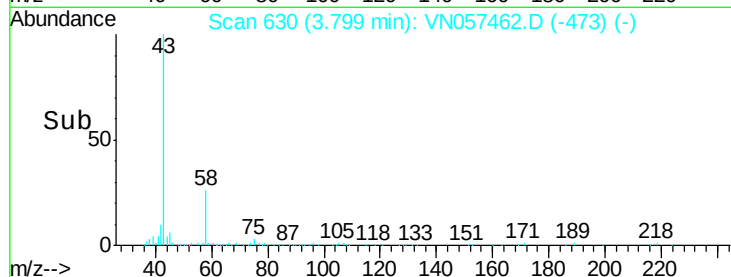
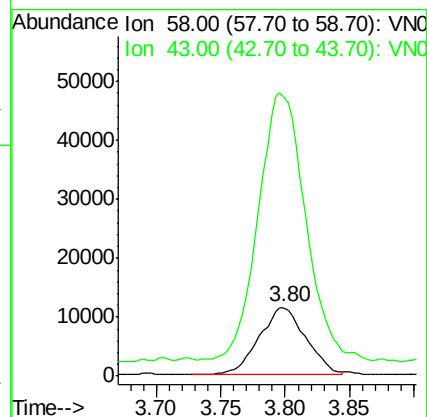
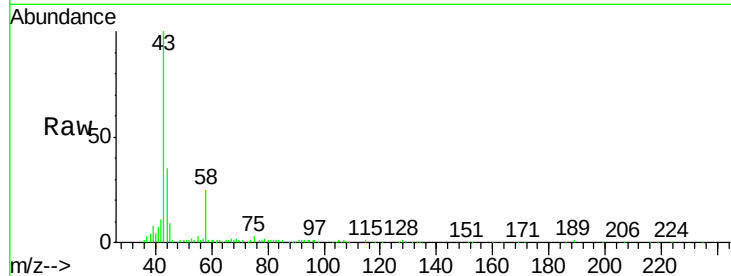
43 389.2 304.4 456.6

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



#16

Carbon Disulfide

Concen: 5.548 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.01 min

Lab File: VN057462.D

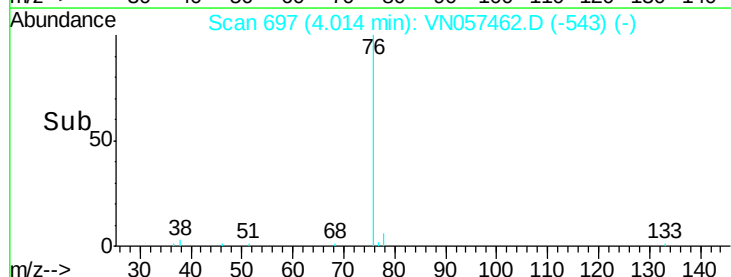
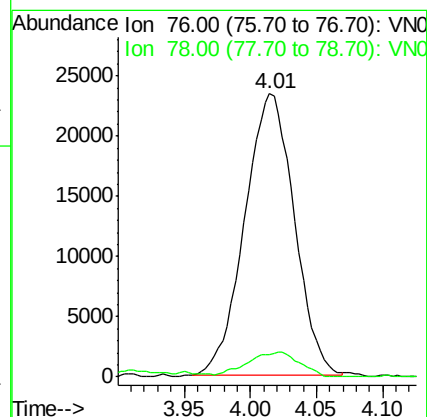
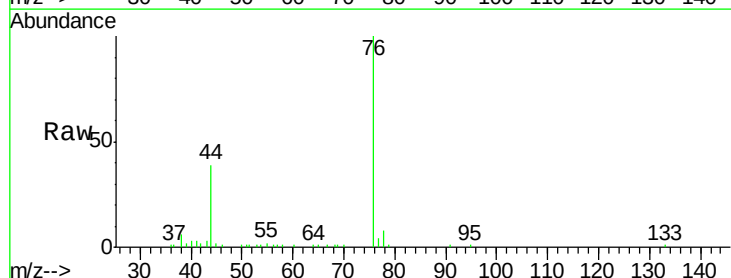
Acq: 23 Aug 2019 9:12

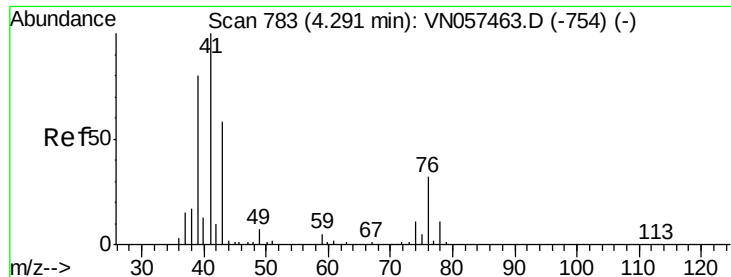
Tgt Ion: 76 Resp: 60799

Ion Ratio Lower Upper

76 100

78 8.6 7.4 11.2





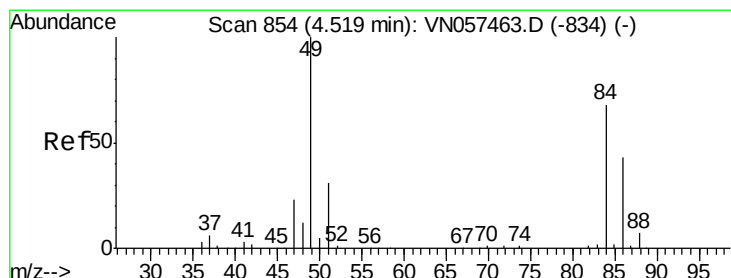
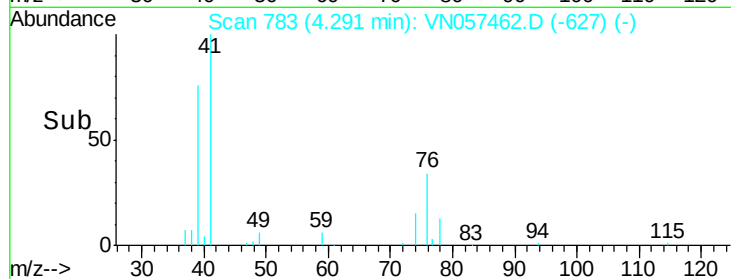
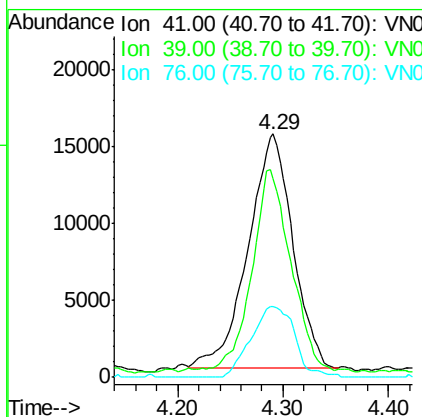
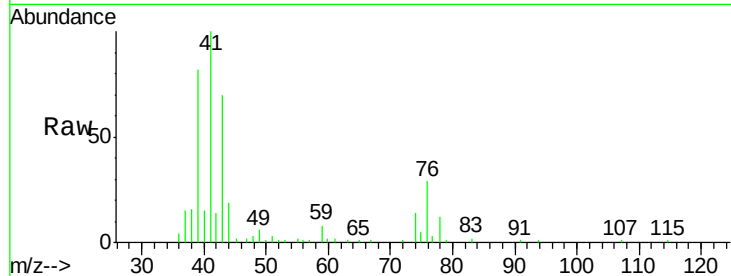
#17
Allvl chloride
Concen: 6.982 ug/l
RT: 4.29 min Scan# 783
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	81.9	40.1	120.2
76	30.4	16.2	48.6

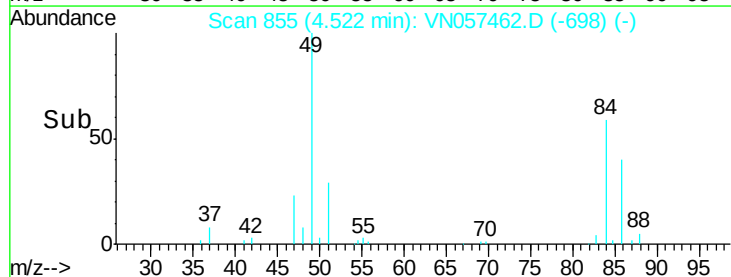
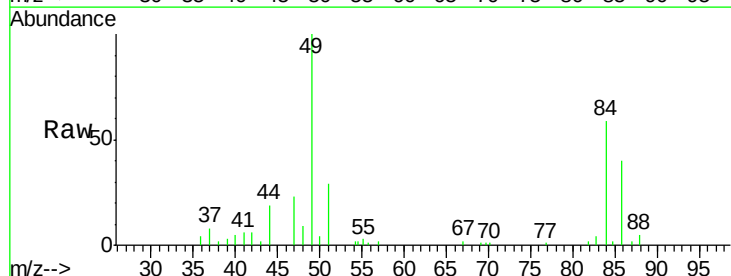
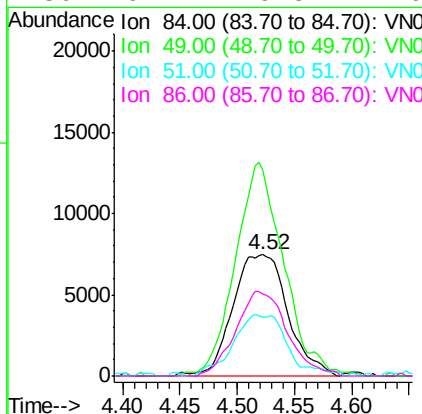
Manual Integrations
APPROVED

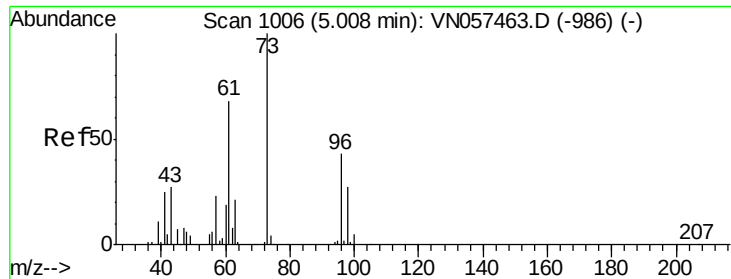
MMDadoda
8/26/2019 1:11:47 PM



#18
Methylene Chloride
Concen: 5.448 ug/l m
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
84	100		
49	169.5	116.8	175.2
51	48.4	36.4	54.6
86	67.7	49.8	74.6





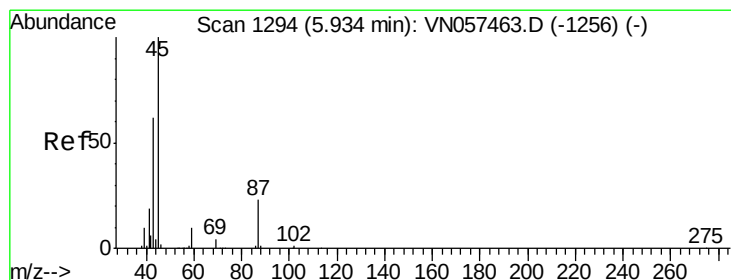
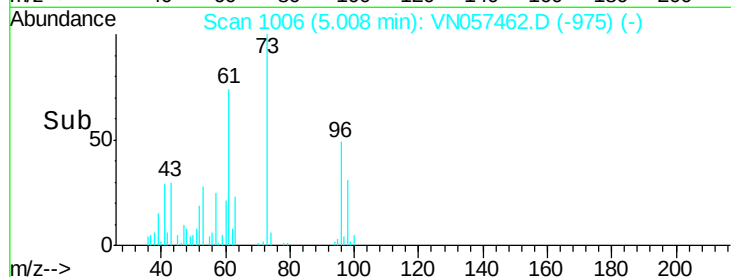
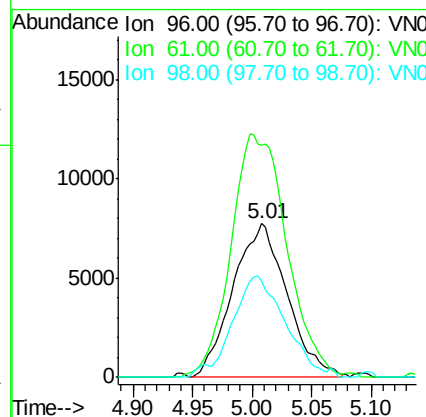
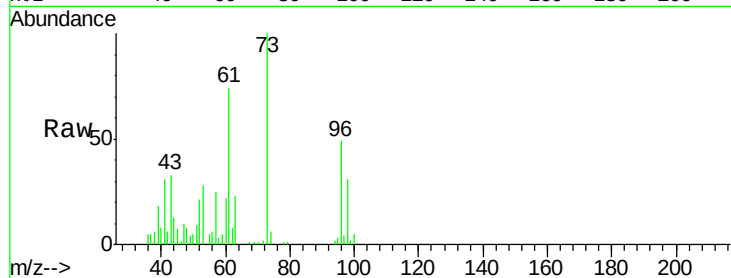
#19
trans-1,2-Dichloroethene
Concen: 5.672 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.6	127.6	191.4
98	62.8	51.5	77.3

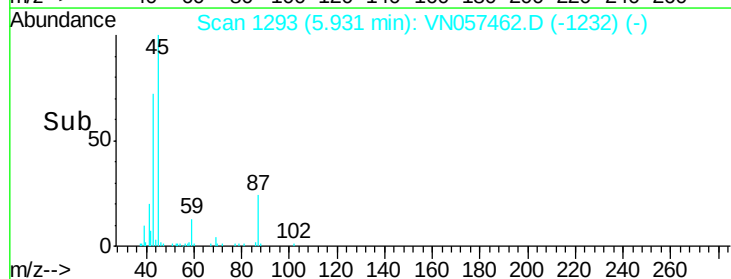
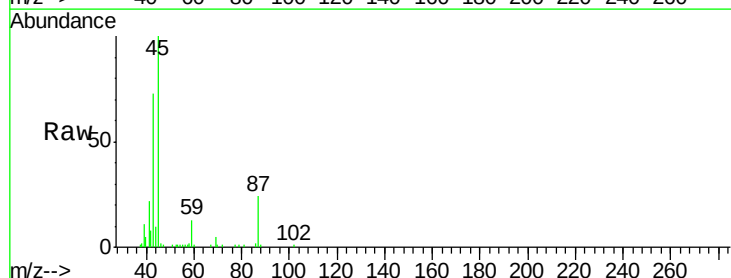
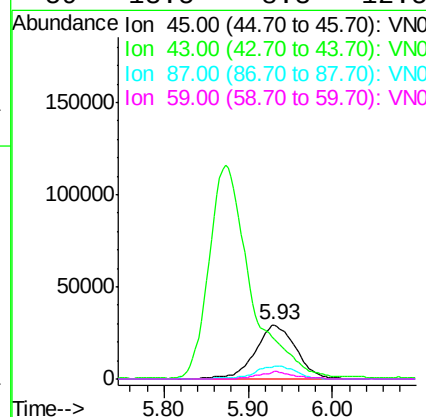
Manual Integrations
APPROVED

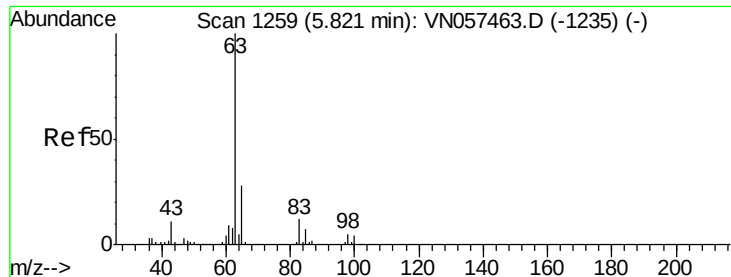
MMDadoda
8/26/2019 1:11:47 PM



#20
Diisopropyl ether
Concen: 7.273 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
45	100		
43	69.7	49.9	74.9
87	23.7	19.1	28.7
59	13.5	8.3	12.5#





#21

1,1-Dichloroethane

Concen: 6.302 ug/l

RT: 5.82 min Scan# 1258

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

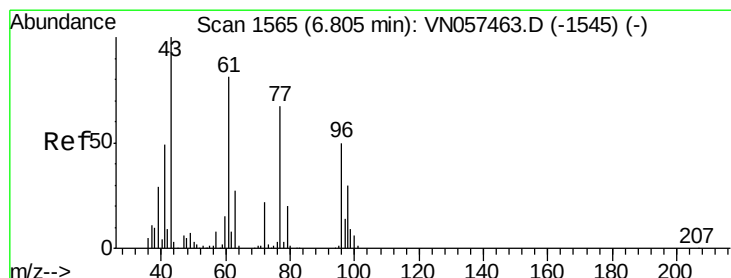
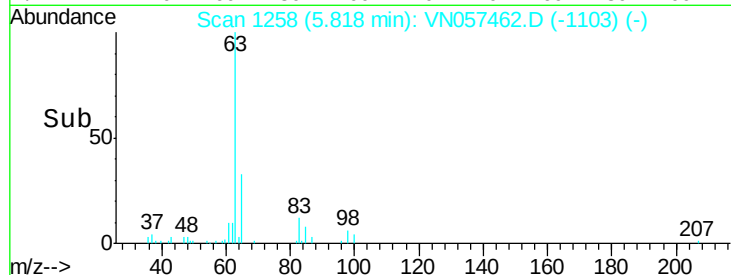
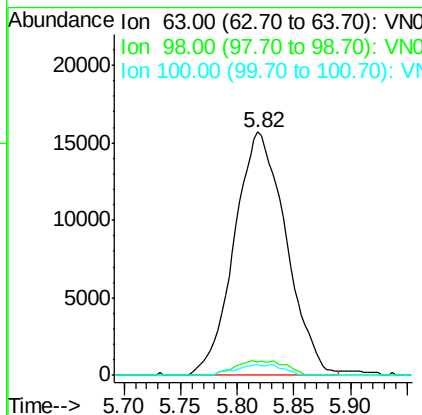
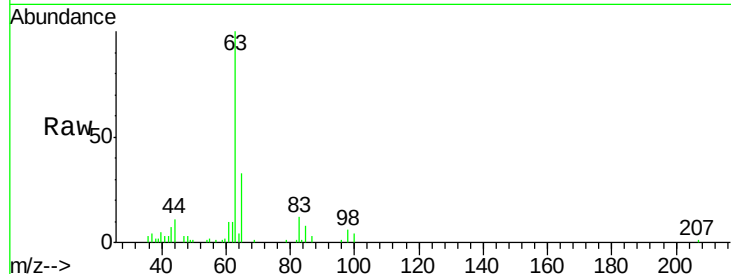
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
63	100	49821		
98	5.7		2.4	7.1
100	4.1		2.1	6.3

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#22

cis-1,2-Dichloroethene

Concen: 5.645 ug/l

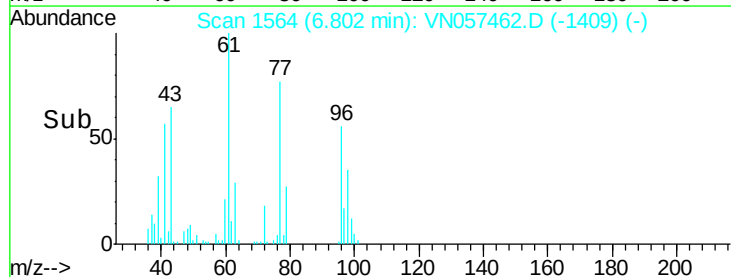
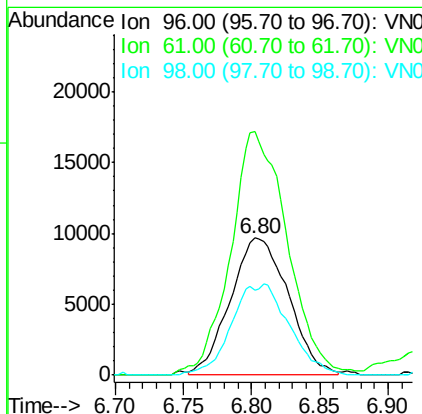
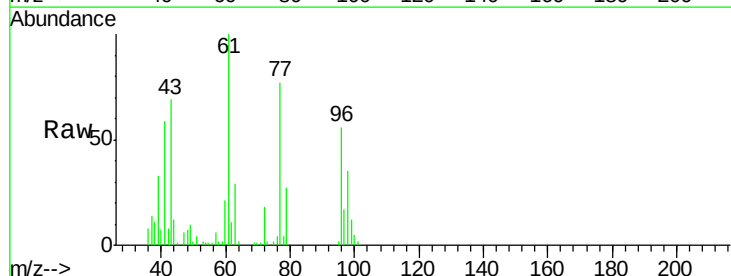
RT: 6.80 min Scan# 1564

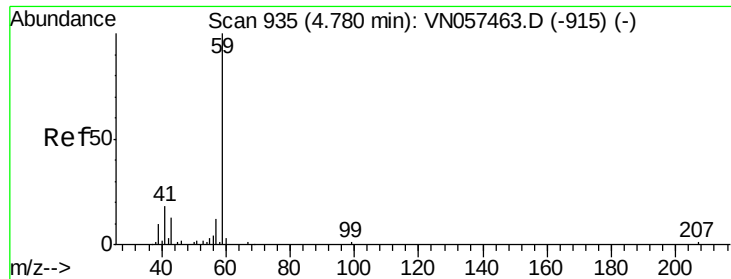
Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	28571		
61	173.7		134.4	201.6
98	29.2		51.4	77.0#





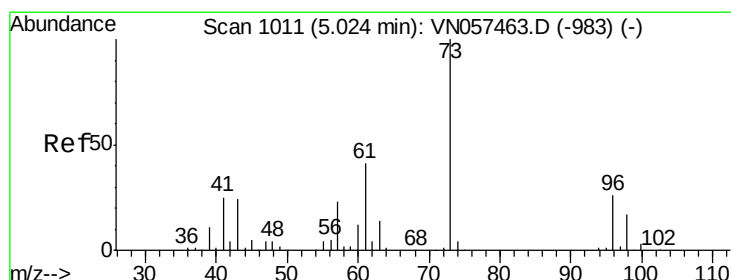
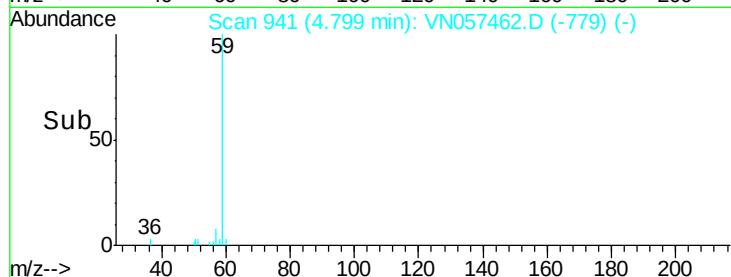
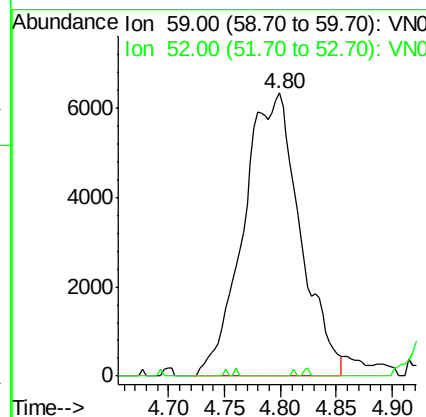
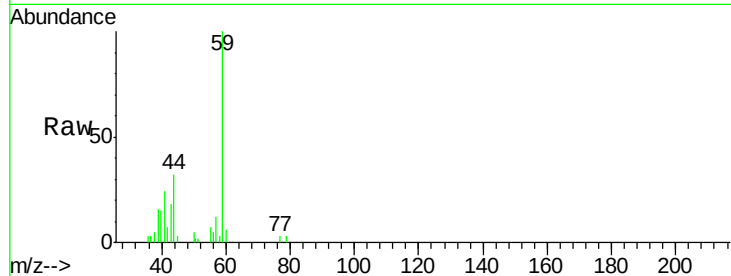
#23
 tert-Butyl Alcohol
 Concen: 32.661 ug/l m
 RT: 4.80 min Scan# 941
 Delta R.T. 0.02 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 59 Resp: 22247
 Ion Ratio Lower Upper
 59 100
 52 0.3 0.1 0.1#

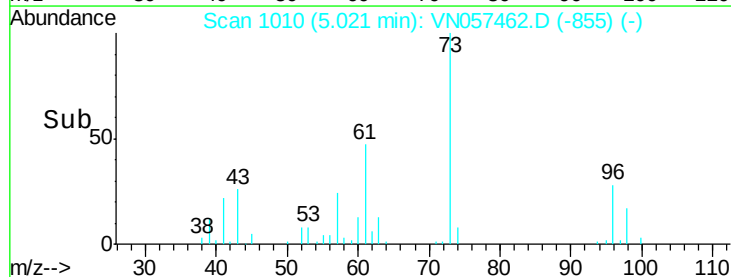
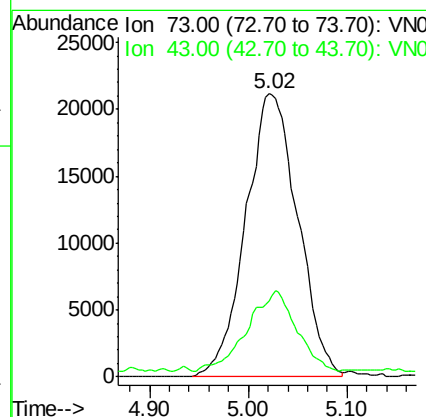
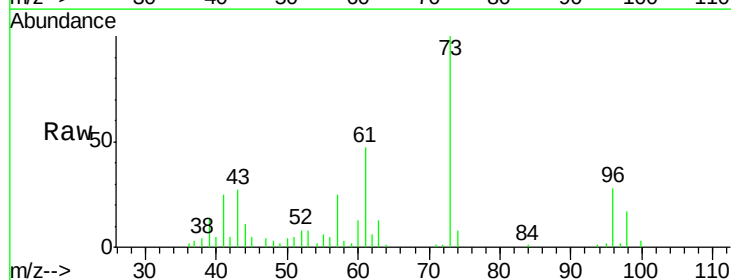
Manual Integrations
 APPROVED

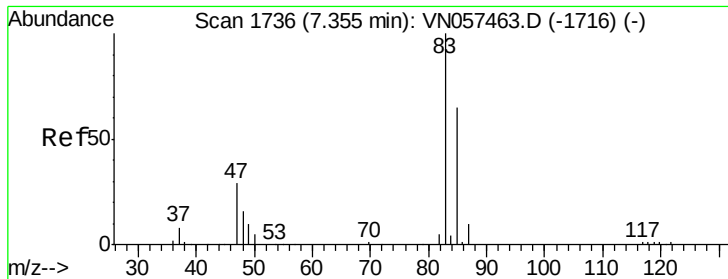
MMDadoda
 8/26/2019 1:11:47 PM



#24
 Methyl tert-Butyl Ether
 Concen: 6.071 ug/l
 RT: 5.02 min Scan# 1010
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion: 73 Resp: 77217
 Ion Ratio Lower Upper
 73 100
 43 10.5 20.1 30.1#





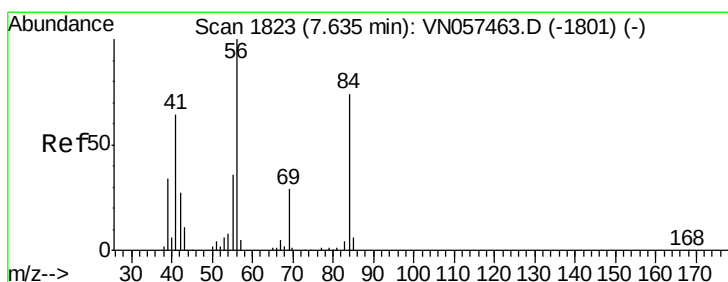
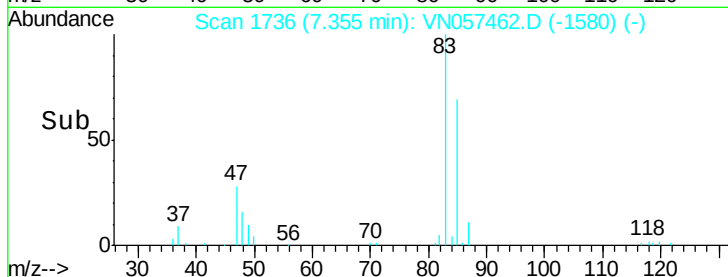
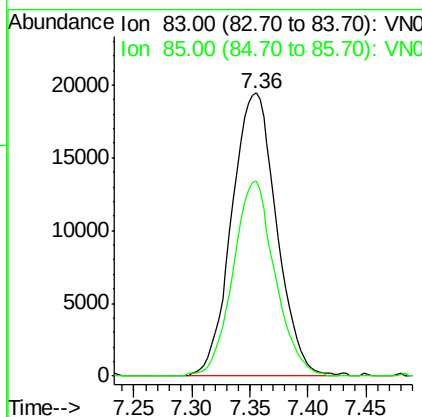
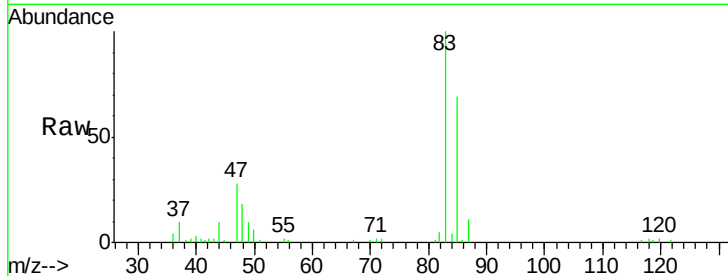
#25
Chloroform
Concen: 6.432 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	52304
Ion Ratio	100	Lower	Upper
83	100		
85	68.8	52.0	78.0

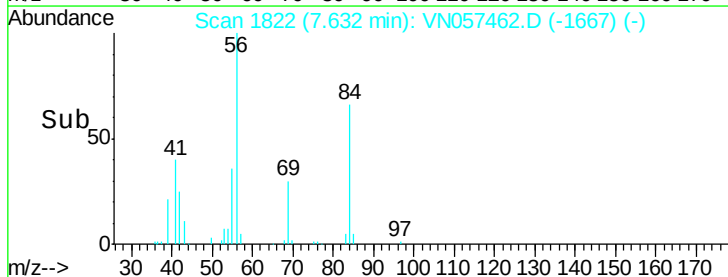
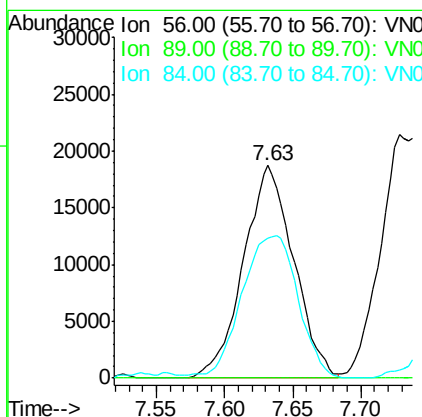
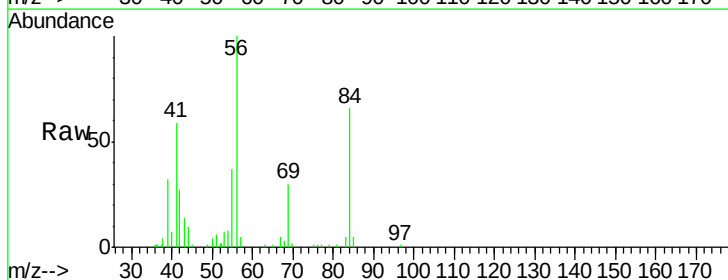
Manual Integrations
APPROVED

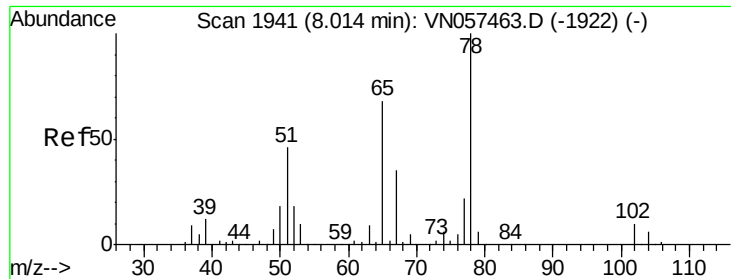
MMDadoda
8/26/2019 1:11:47 PM



#26
Cyclohexane
Concen: 7.201 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	56	Resp	47932
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	74.2	61.1	91.7





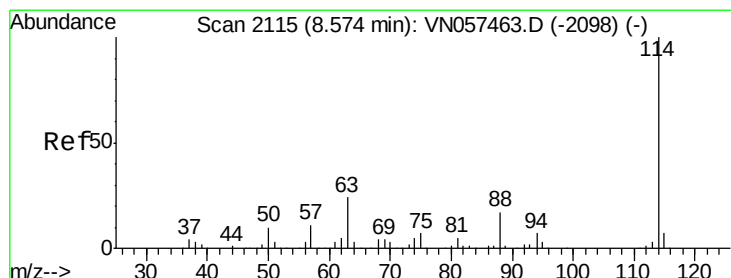
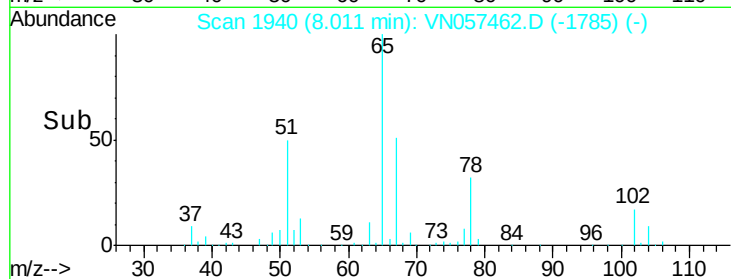
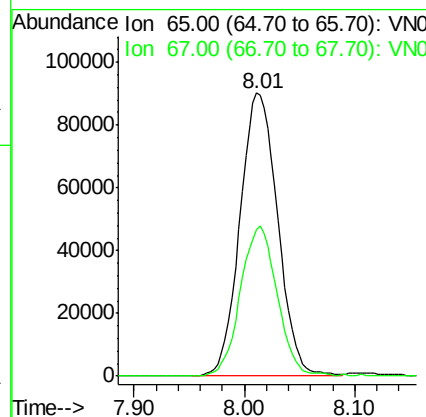
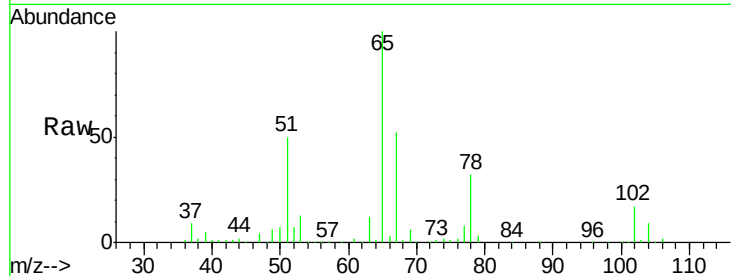
#27
 1,2-Dichloroethane-d4
 Concen: 40.809 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.4	40.2	60.4

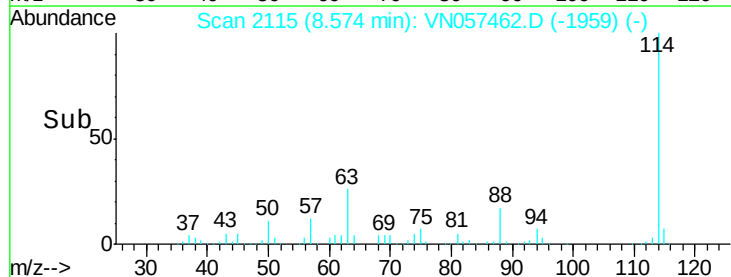
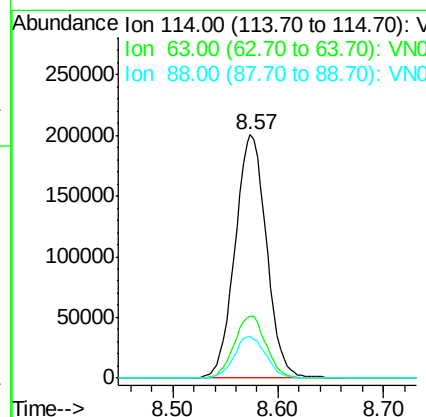
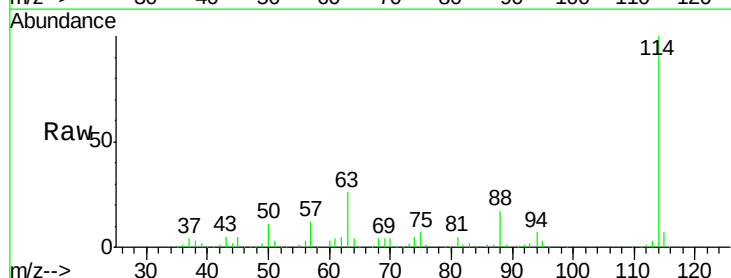
Manual Integrations
 APPROVED

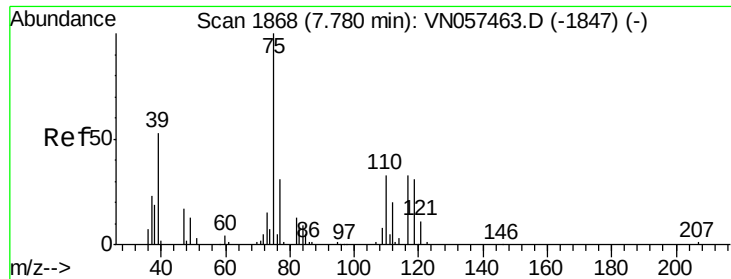
MMDadoda
 8/26/2019 1:11:47 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.9	19.6	29.4
88	17.2	13.1	19.7





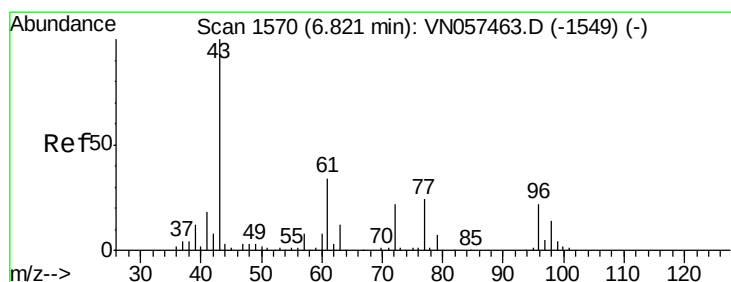
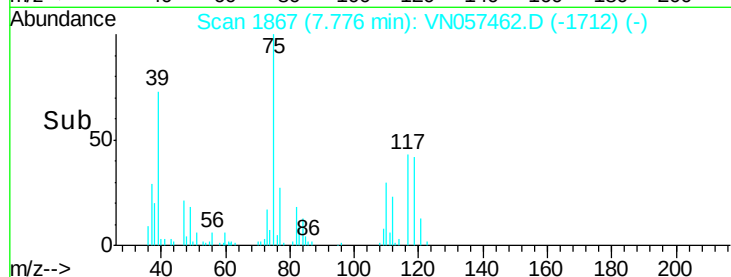
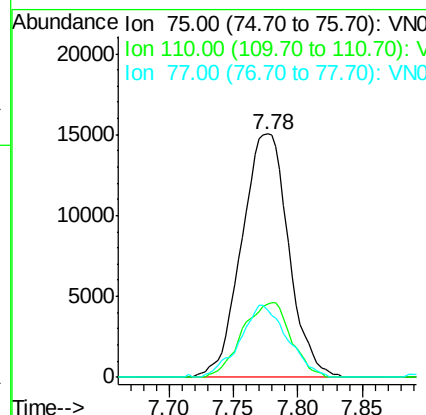
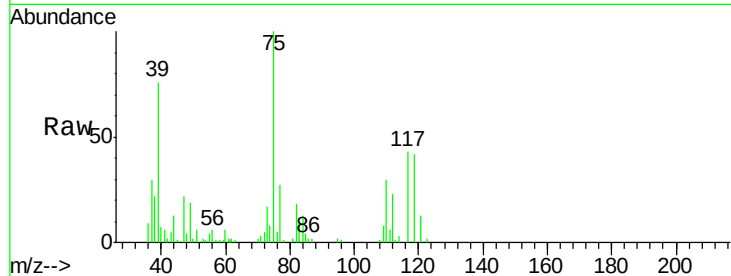
#29
 1,1-Dichloropropene
 Concen: 6.185 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	31.8	0.0	64.0
77	30.0	0.0	63.4

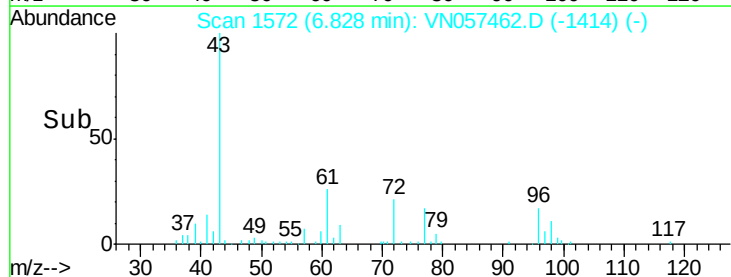
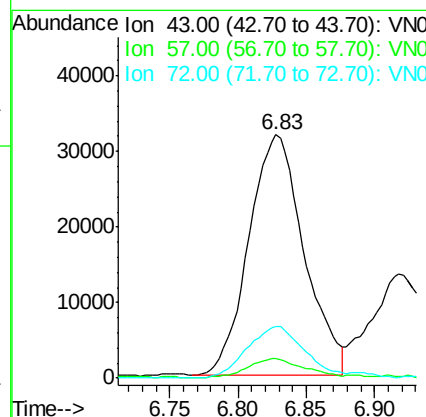
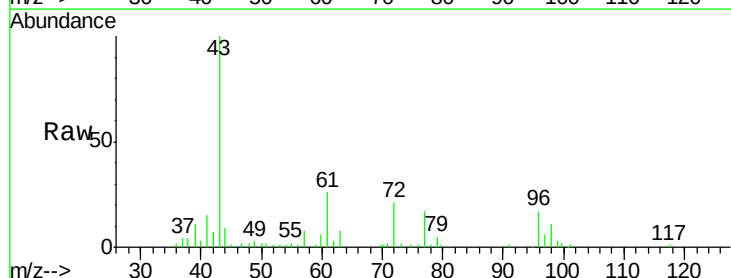
Manual Integrations
 APPROVED

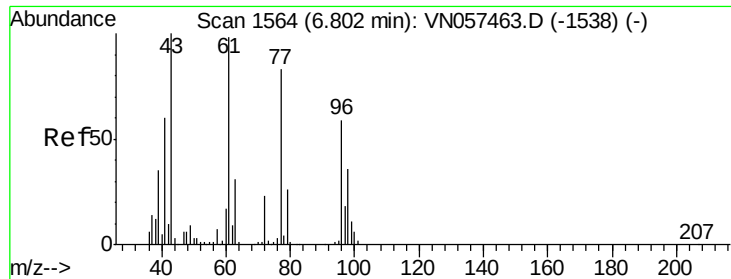
MMDadoda
 8/26/2019 1:11:47 PM



#30
 2-Butanone
 Concen: 34.909 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.3	5.7	8.5
72	22.0	18.2	27.2





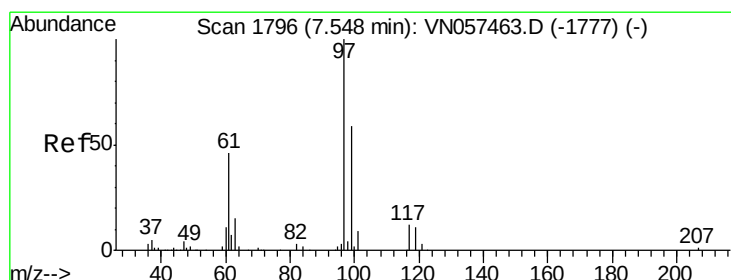
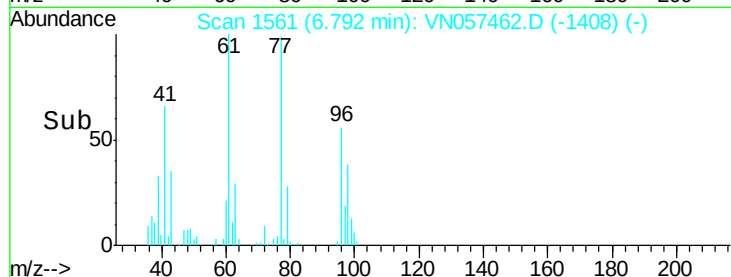
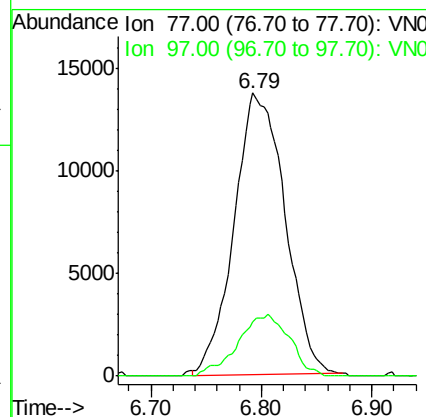
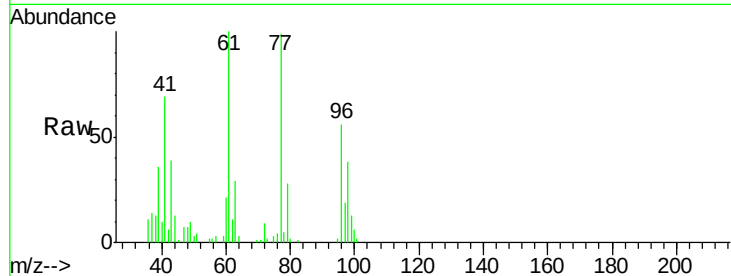
#31
 2,2-Dichloropropane
 Concen: 6.458 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
77	100		
97	7.8	17.0	25.4#

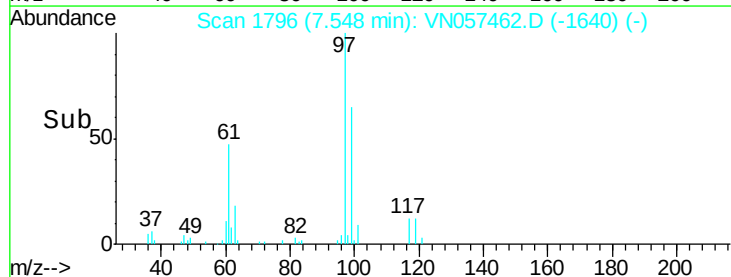
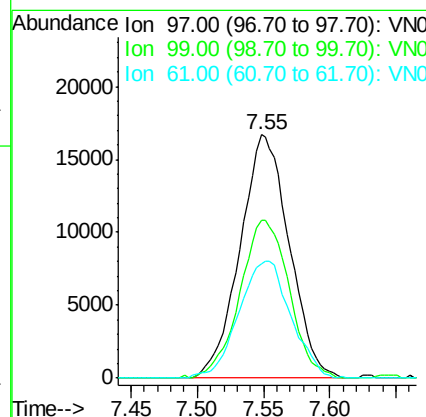
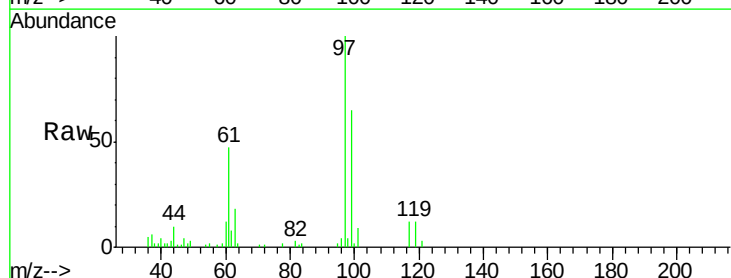
Manual Integrations
 APPROVED

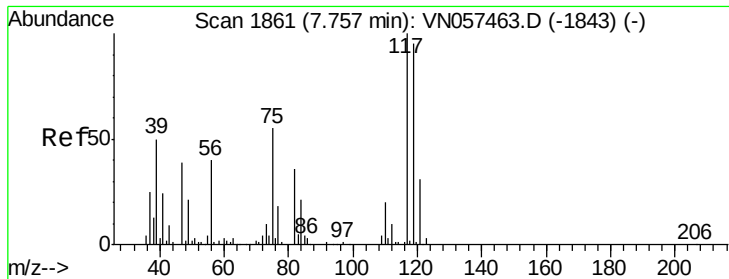
MMDadoda
 8/26/2019 1:11:47 PM



#32
 1,1,1-Trichloroethane
 Concen: 5.980 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	49.6	74.4
61	50.7	40.9	61.3





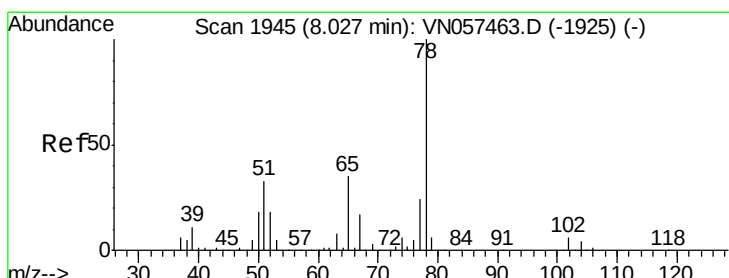
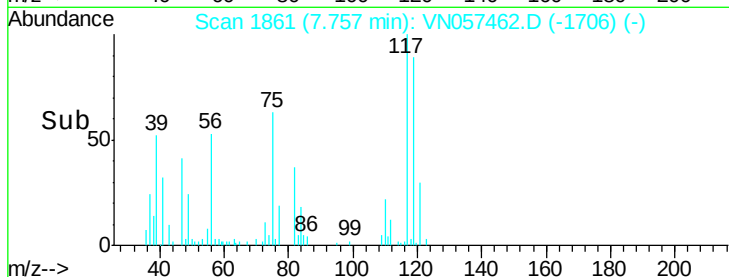
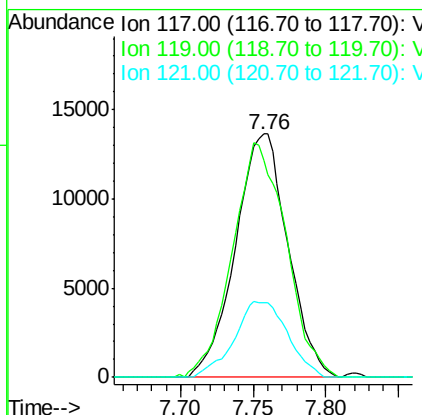
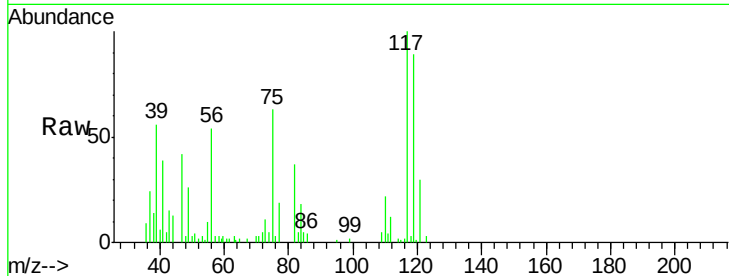
#33
Carbon Tetrachloride
Concen: 5.425 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
119	89.2	76.8	115.2
121	30.4	24.8	37.2

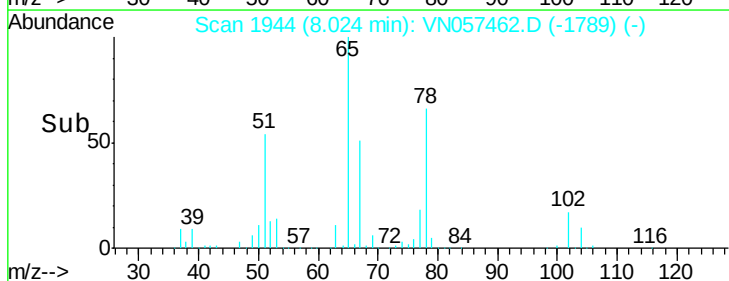
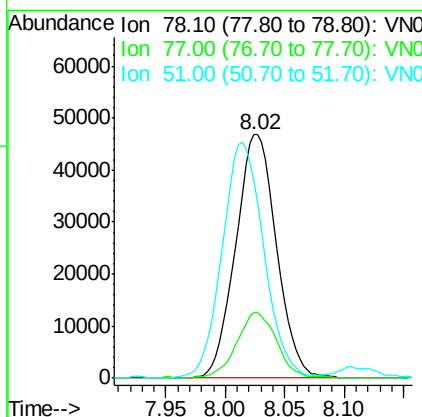
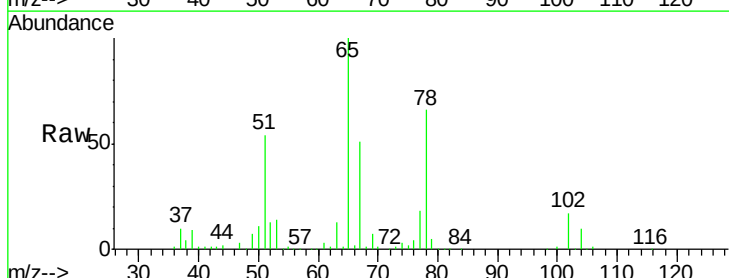
Manual Integrations
APPROVED

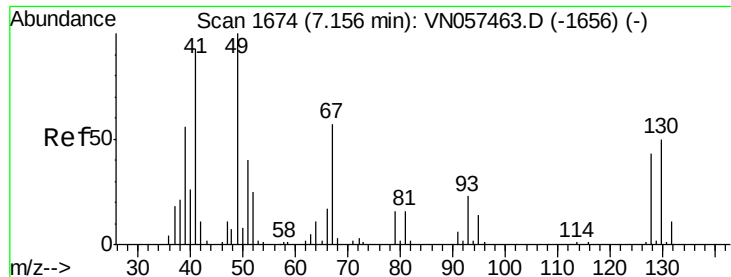
MMDadoda
8/26/2019 1:11:47 PM



#34
Benzene
Concen: 6.003 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.5	29.3
51	79.7	26.0	39.0





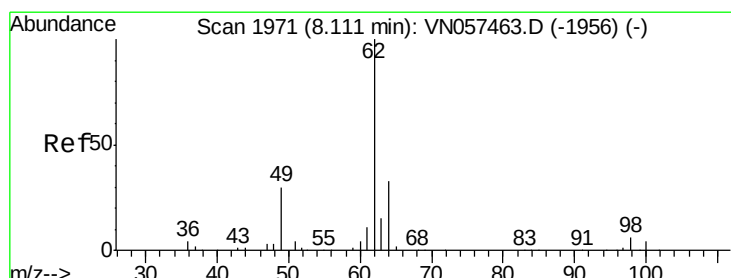
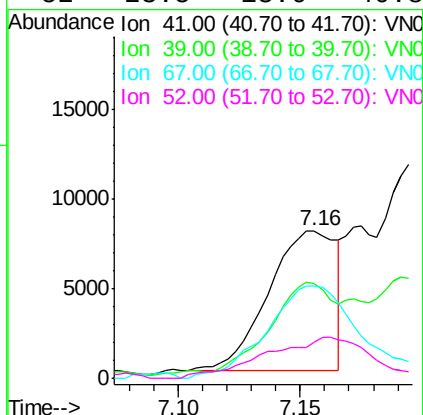
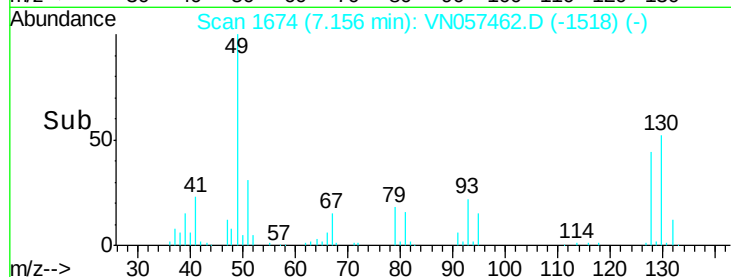
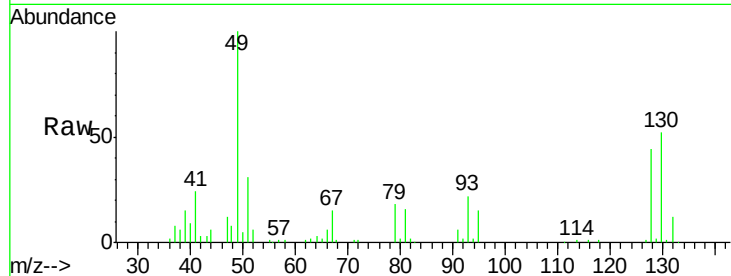
#35
Methacrylonitrile
Concen: 4.487 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	41.00	Resp:	15032
Ion	Ratio	Lower	Upper
41	100		
39	62.5	30.5	91.5
67	66.2	30.9	92.5
52	23.5	13.6	40.8

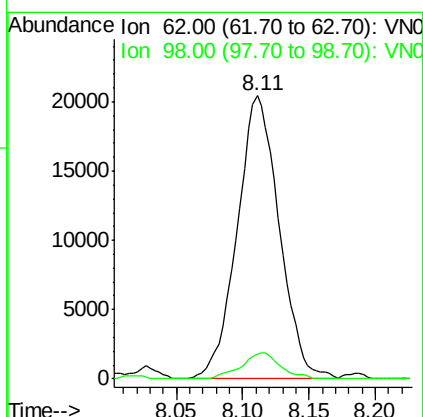
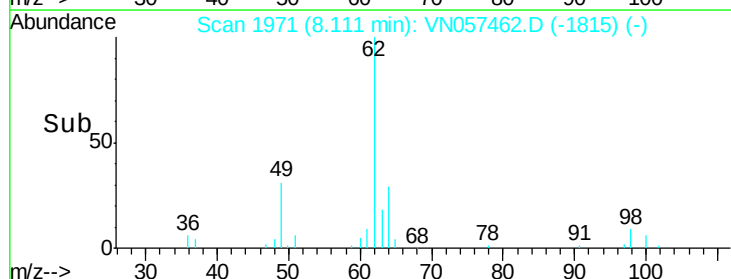
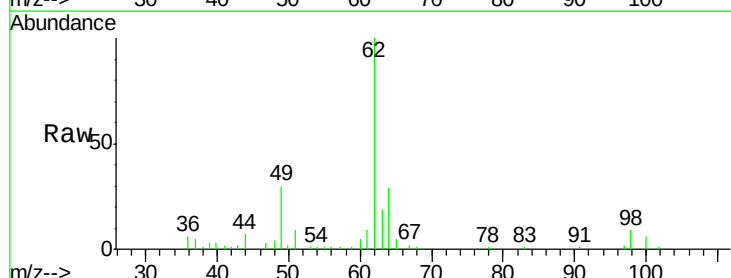
Manual Integrations
APPROVED

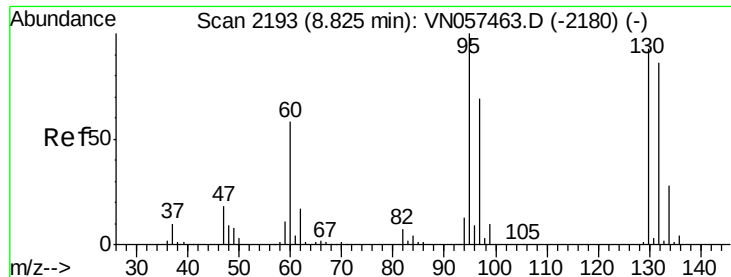
MMDadoda
8/26/2019 1:11:47 PM



#36
1,2-Dichloroethane
Concen: 7.154 ug/l
RT: 8.11 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	62.00	Resp:	45171
Ion	Ratio	Lower	Upper
62	100		
98	8.6	2.8	4.2#





#37

Trichloroethene

Concen: 4.876 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:130 Resp: 25207

Ion Ratio Lower Upper

130 100

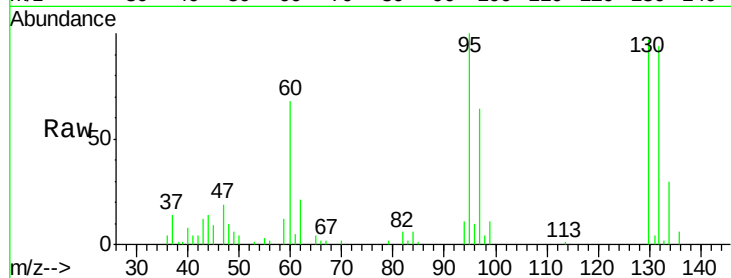
95 103.6 86.4 129.6

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.82

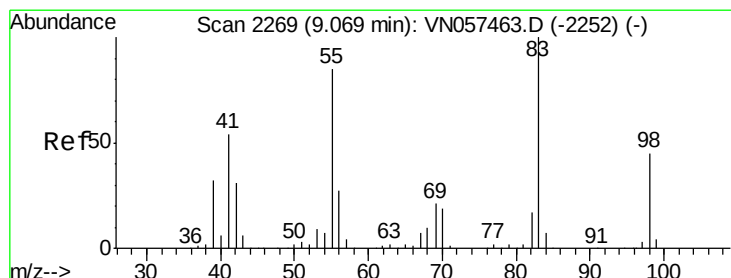
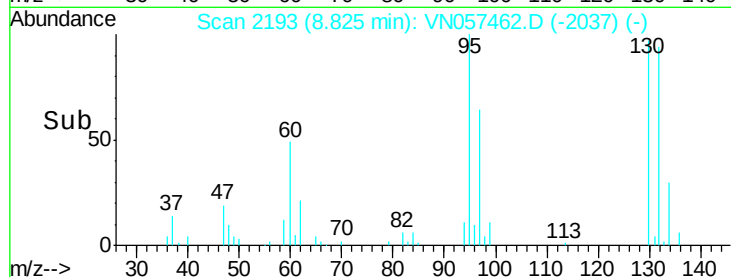
15000

10000

5000

0

Time-->



#38

Methylcyclohexane

Concen: 5.940 ug/l

RT: 9.07 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

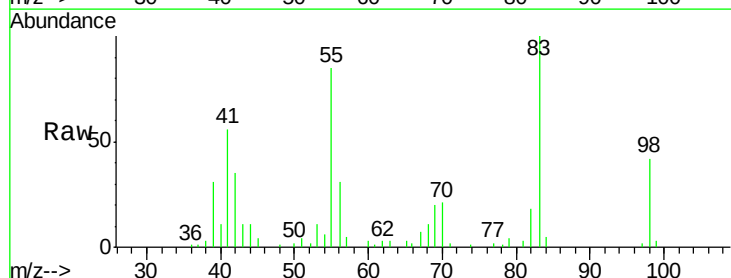
Tgt Ion: 83 Resp: 42695

Ion Ratio Lower Upper

83 100

55 86.5 43.3 129.8

98 39.5 22.8 68.4



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

25000

20000

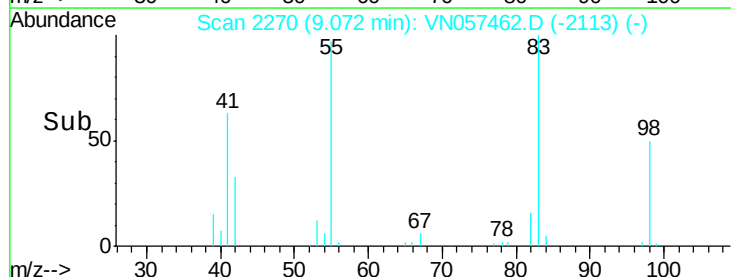
15000

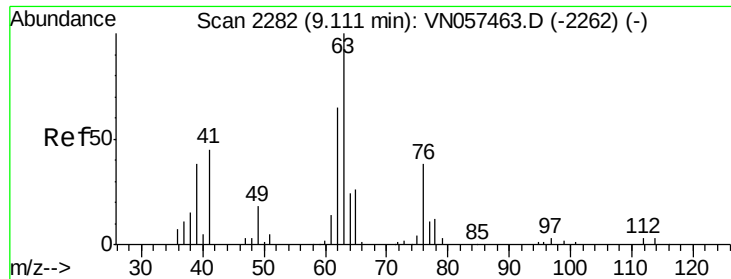
10000

5000

0

Time-->





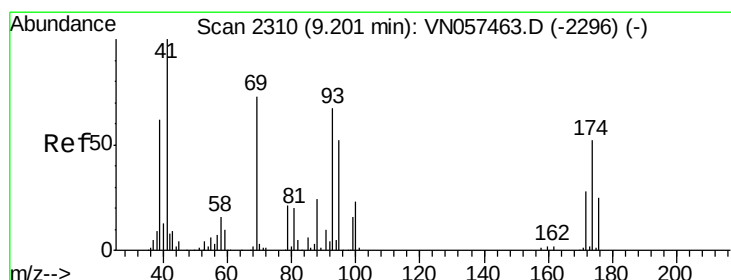
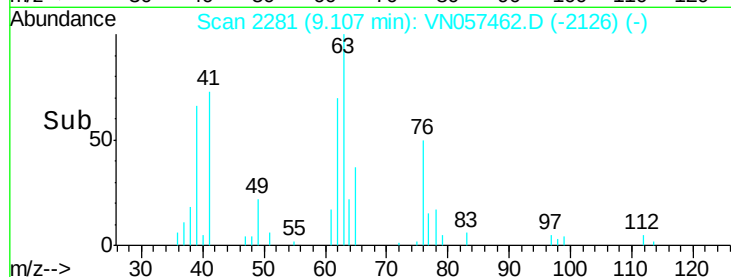
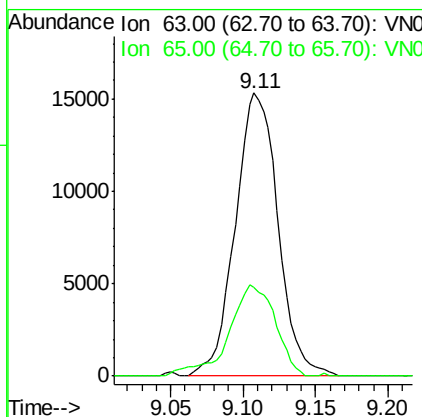
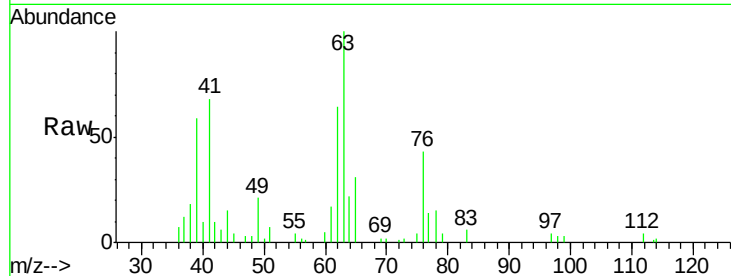
#39
 1,2-Dichloropropane
 Concen: 6.455 ug/l
 RT: 9.11 min Scan# 2281
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 31421
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.6 32.4

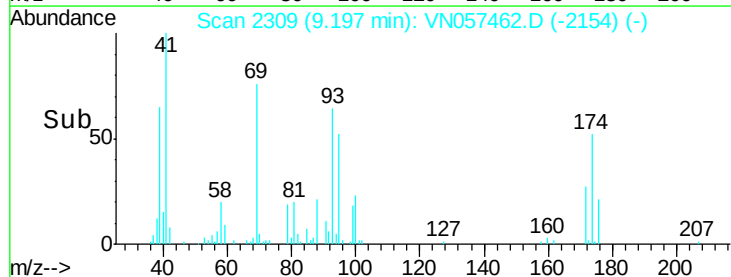
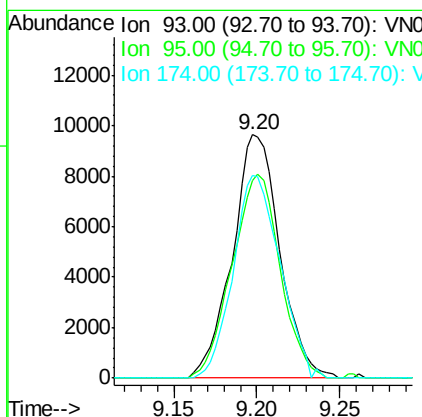
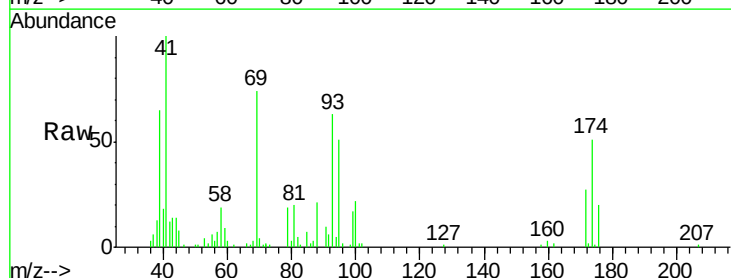
Manual Integrations
 APPROVED

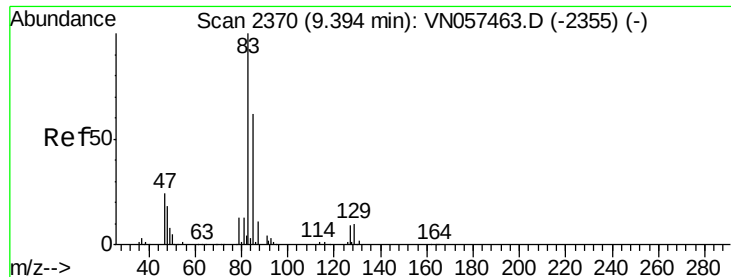
MMDadoda
 8/26/2019 1:11:47 PM



#40
 Dibromomethane
 Concen: 6.067 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion: 93 Resp: 19234
 Ion Ratio Lower Upper
 93 100
 95 84.5 0.0 160.8
 174 81.5 0.0 157.2





#41

Bromodichloromethane

Concen: 6.243 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

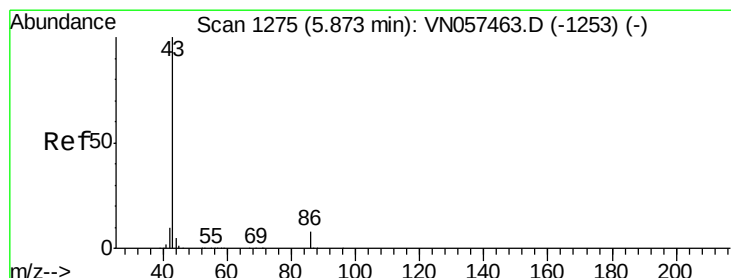
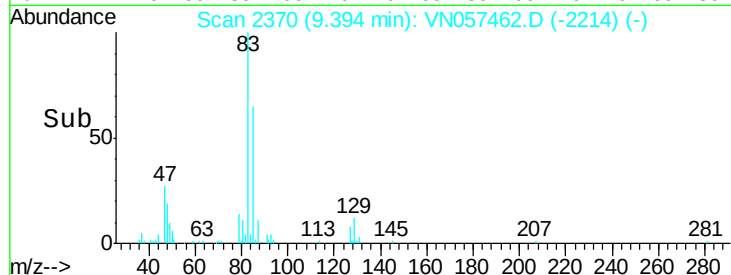
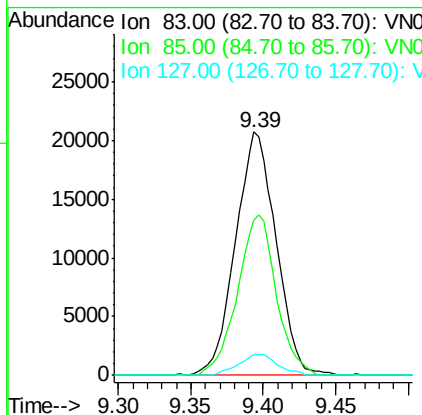
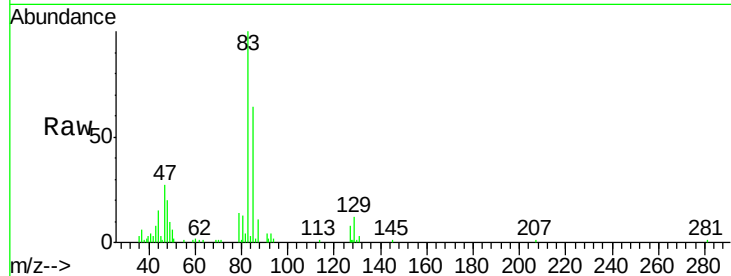
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	40341
Ion	Ratio	Lower	Upper
83	100		
85	63.9	49.8	74.8
127	8.7	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#42

Vinyl Acetate

Concen: 36.268 ug/l

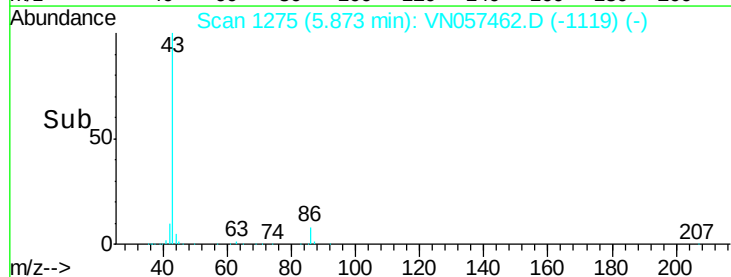
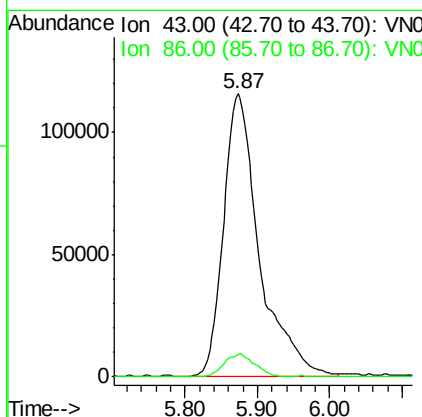
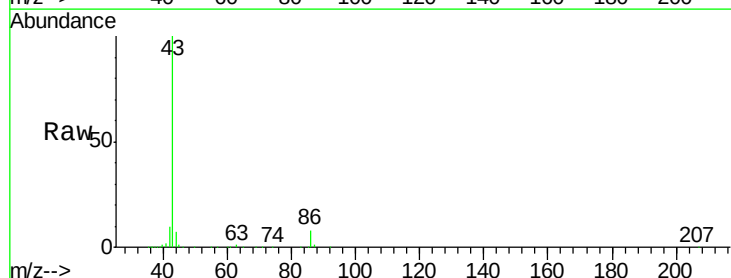
RT: 5.87 min Scan# 1275

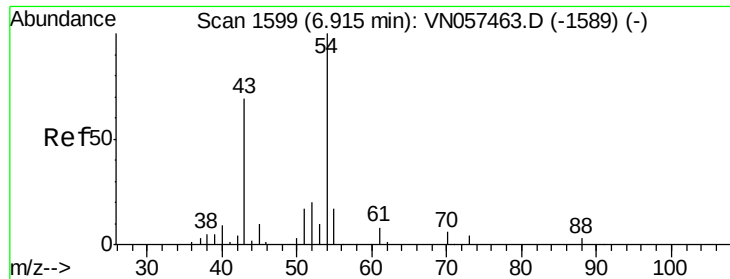
Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion:	43	Resp:	395155
Ion	Ratio	Lower	Upper
43	100		
86	7.1	5.7	8.5





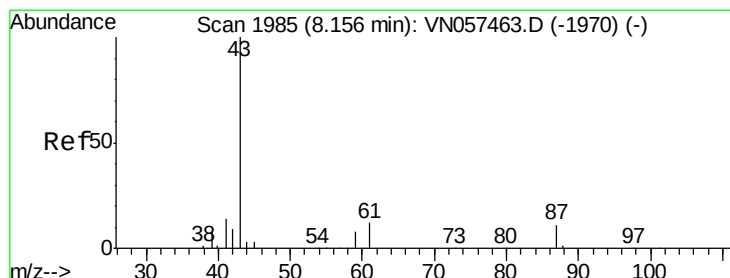
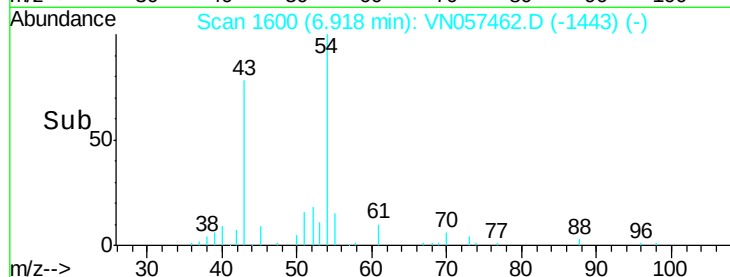
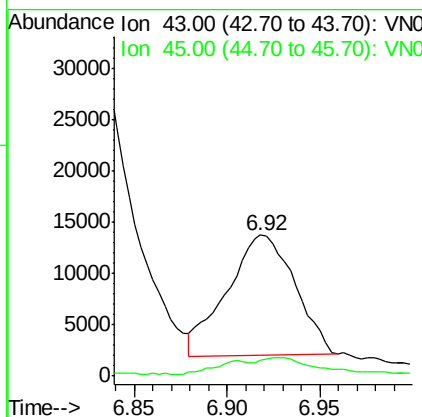
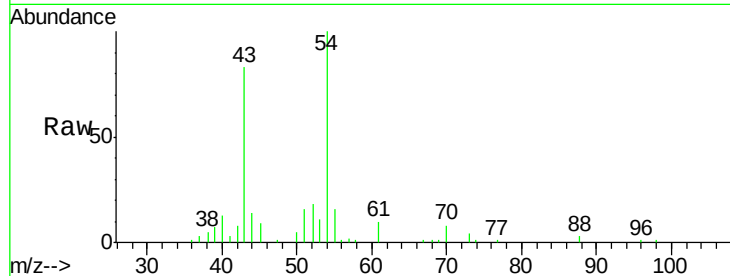
#43
Ethyl Acetate
Concen: 5.767 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 29877
Ion Ratio Lower Upper
43 100
45 8.5 11.0 16.4#

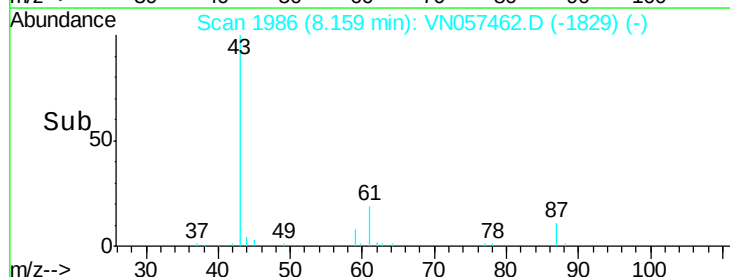
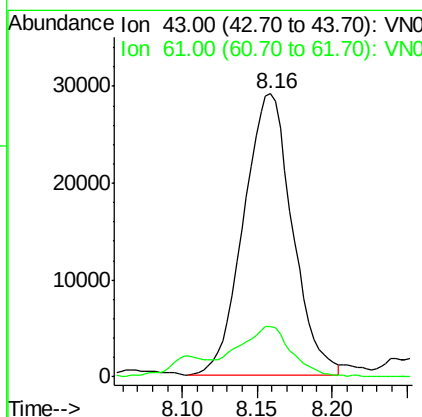
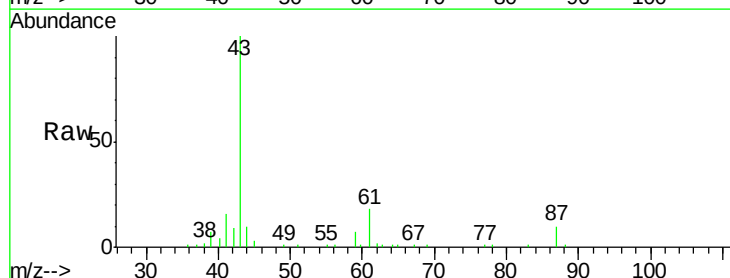
Manual Integrations
APPROVED

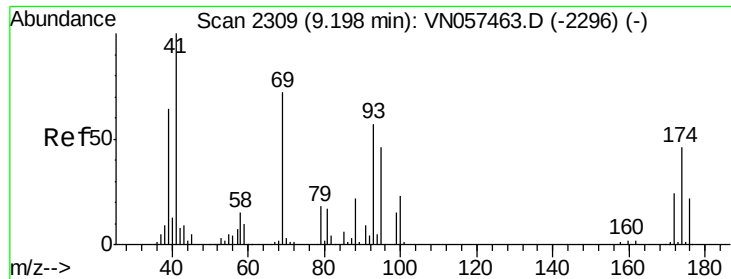
MMDadoda
8/26/2019 1:11:47 PM



#44
Isopropyl Acetate
Concen: 7.116 ug/l
RT: 8.16 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion: 43 Resp: 66011
Ion Ratio Lower Upper
43 100
61 19.2 0.1 0.1#





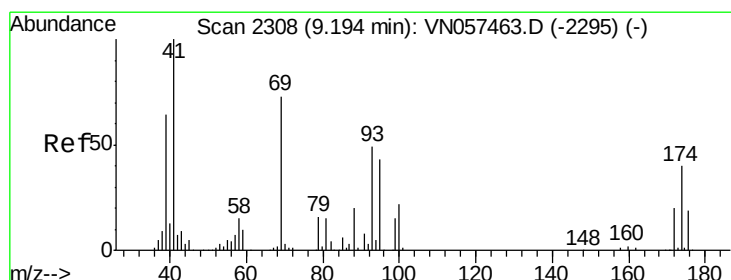
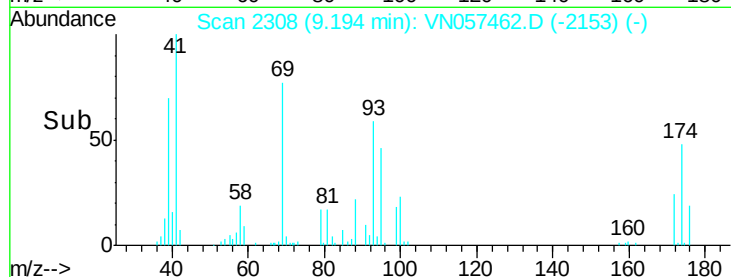
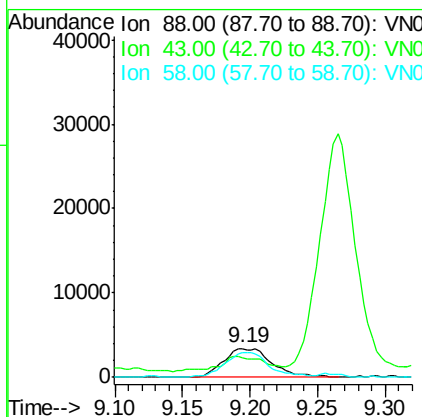
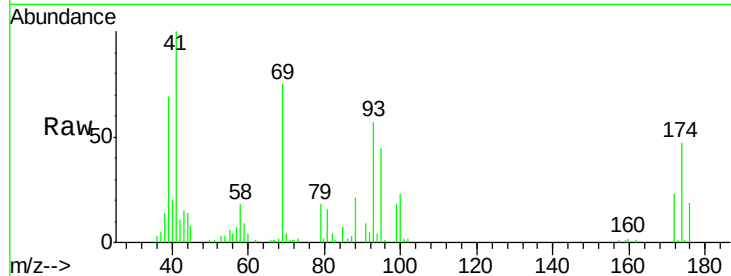
#45
 1,4-Dioxane
 Concen: 106.569 ug/l m
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	15.6	29.8	44.6#
58	80.2	62.2	93.2

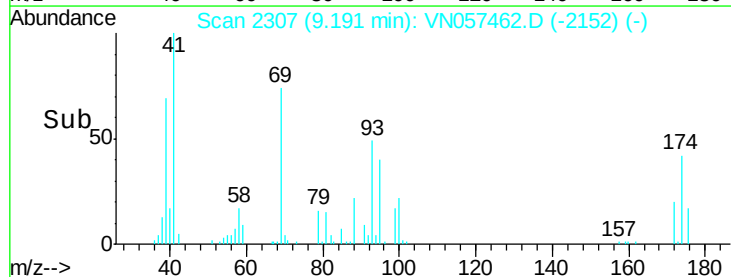
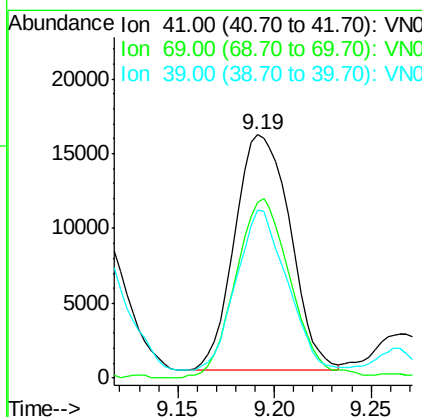
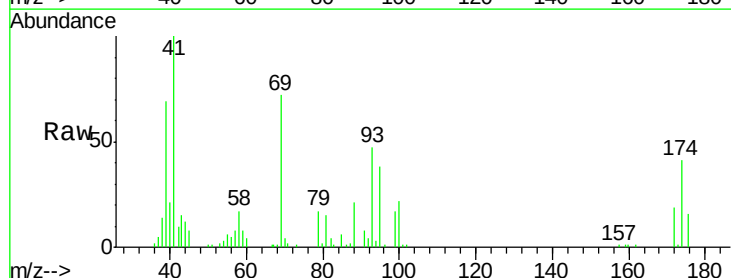
Manual Integrations
 APPROVED

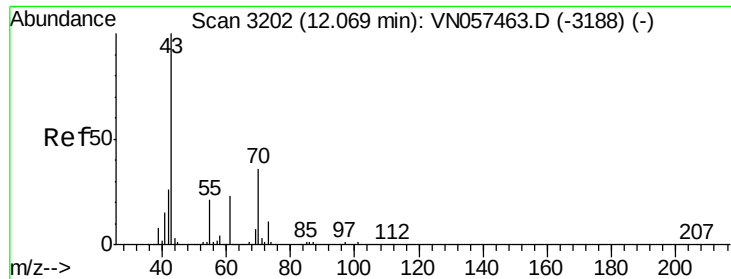
MMDadoda
 8/26/2019 1:11:47 PM



#46
 Methyl methacrylate
 Concen: 7.449 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
41	100		
69	73.6	36.5	109.5
39	68.3	32.1	96.3





#47

n-amyl Acetate

Concen: 6.877 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 48020

Ion Ratio Lower Upper

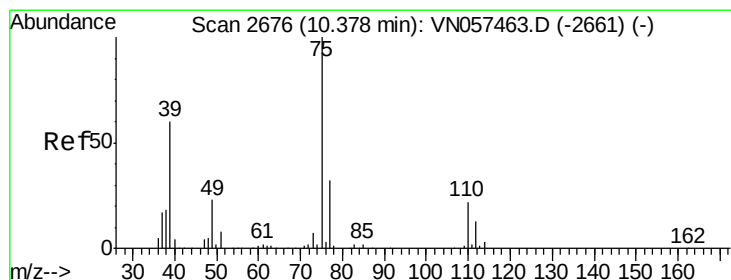
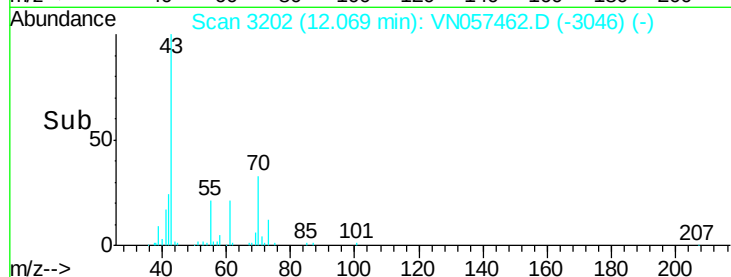
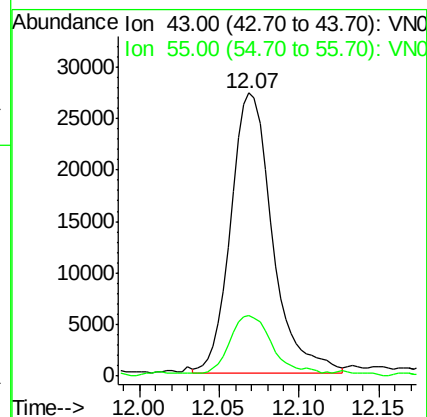
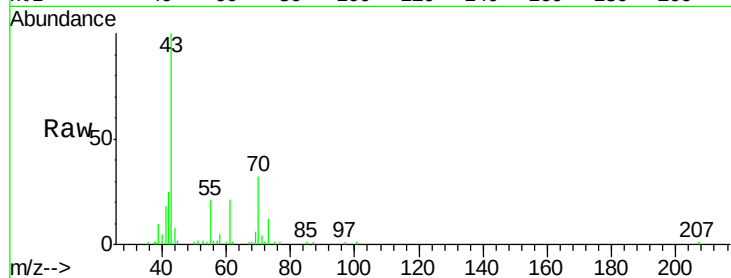
43 100

55 19.6 17.0 25.6

Manual Integrations
APPROVED

MMDadoda

8/26/2019 1:11:47 PM



#48

t-1,3-Dichloropropene

Concen: 5.885 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN057462.D

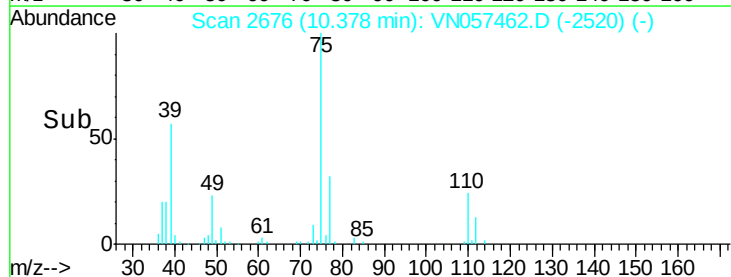
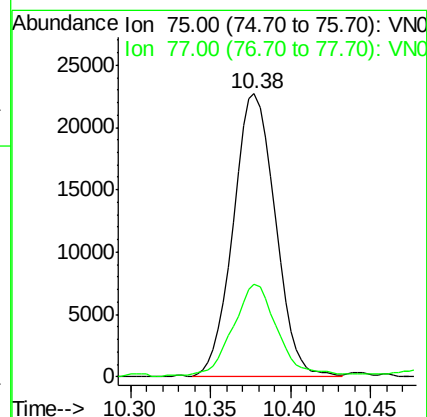
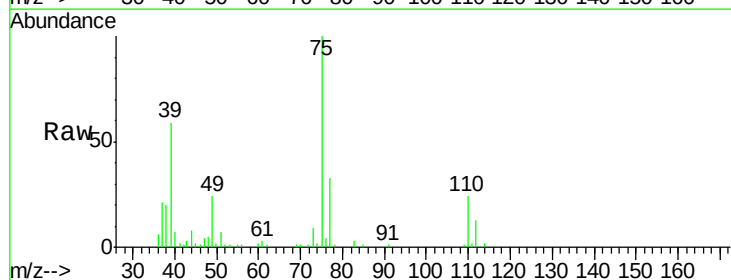
Acq: 23 Aug 2019 9:12

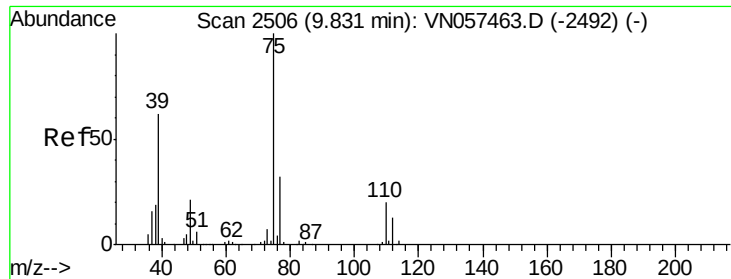
Tgt Ion: 75 Resp: 40832

Ion Ratio Lower Upper

75 100

77 31.8 25.7 38.5





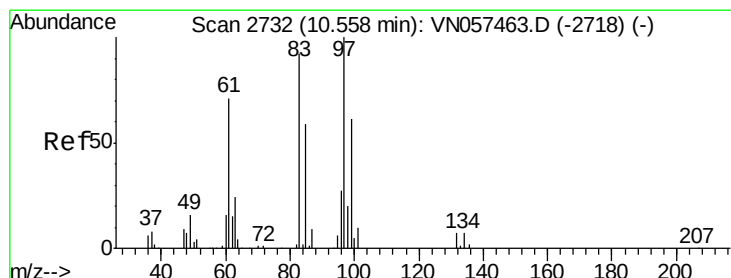
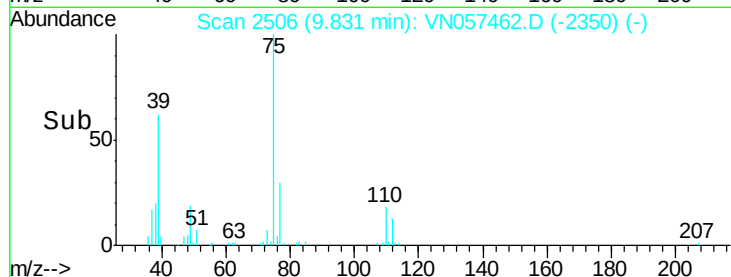
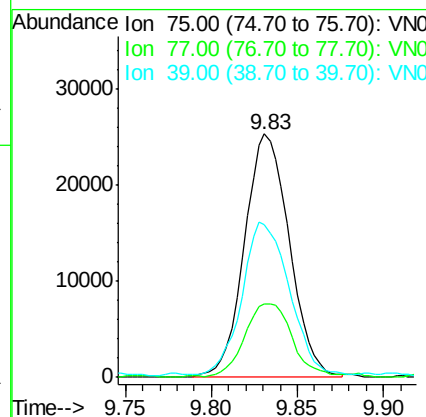
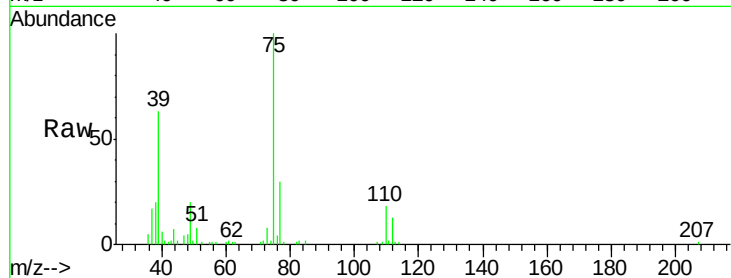
#49
 cis-1,3-Dichloropropene
 Concen: 5.955 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.4	38.0
39	61.3	49.8	74.6

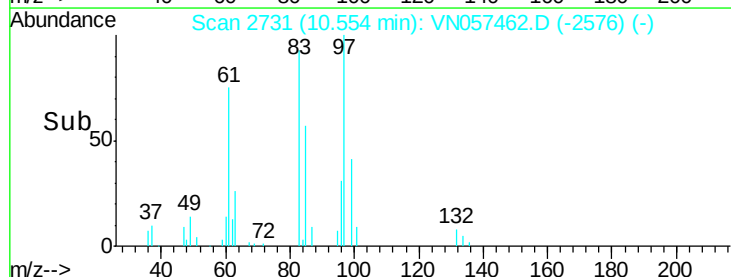
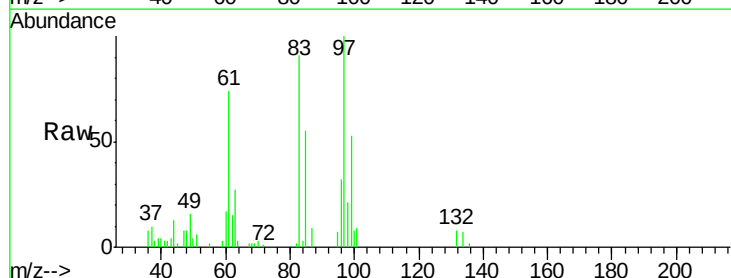
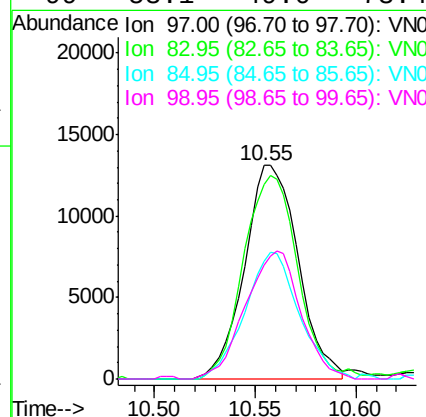
Manual Integrations
 APPROVED

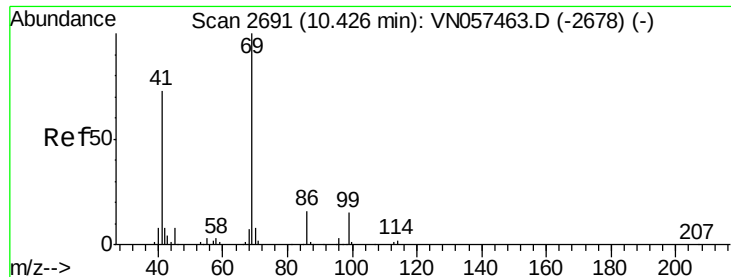
MMDadoda
 8/26/2019 1:11:47 PM



#50
 1,1,2-Trichloroethane
 Concen: 5.394 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
97	100		
83	91.3	73.2	109.8
85	55.4	47.1	70.7
99	53.1	49.0	73.4





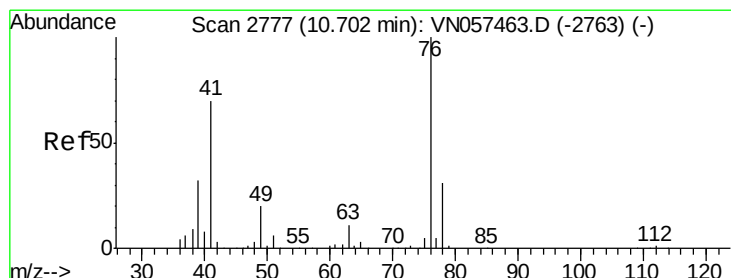
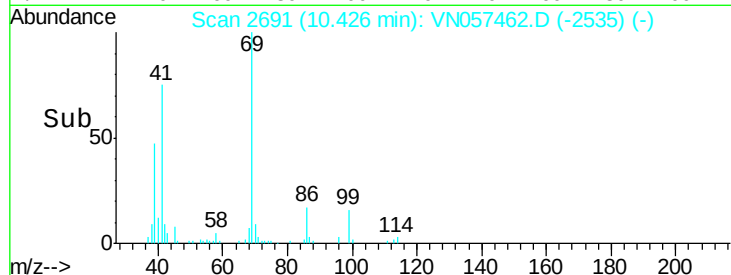
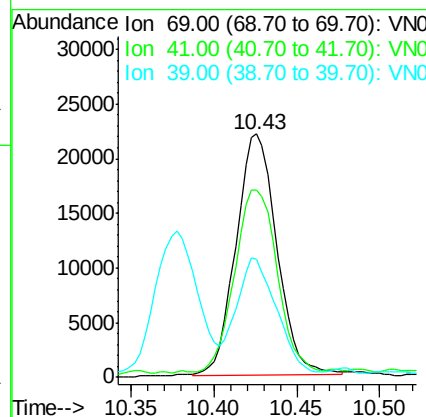
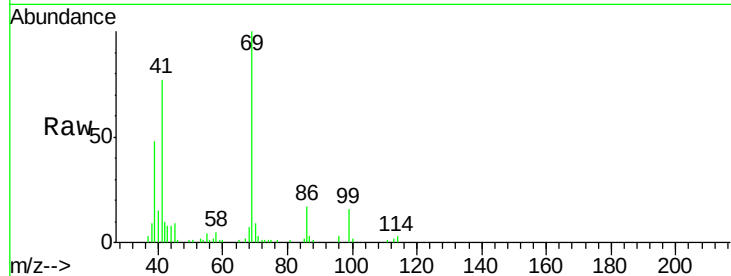
#51
Ethyl methacrylate
Concen: 5.638 ug/l
RT: 10.43 min Scan# 2691
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
69	100		
41	74.9	37.0	111.1
39	45.0	24.4	73.4

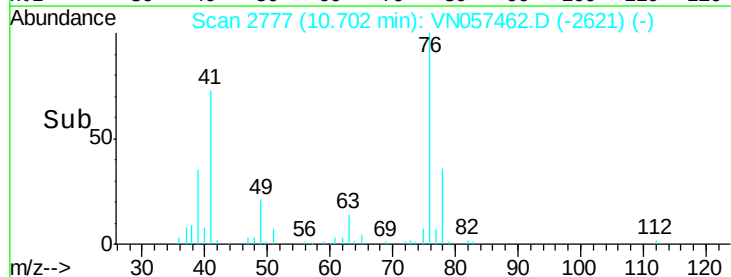
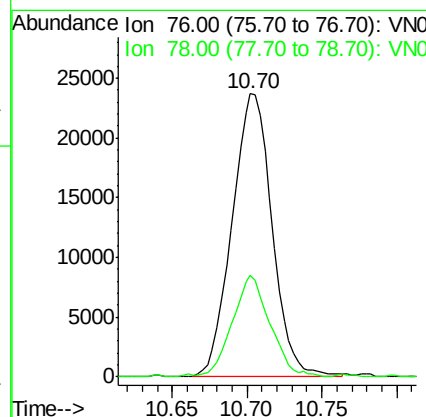
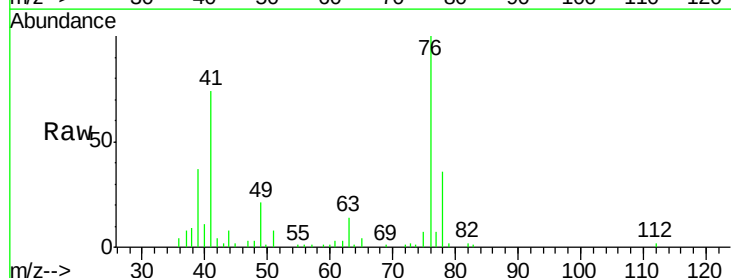
Manual Integrations
APPROVED

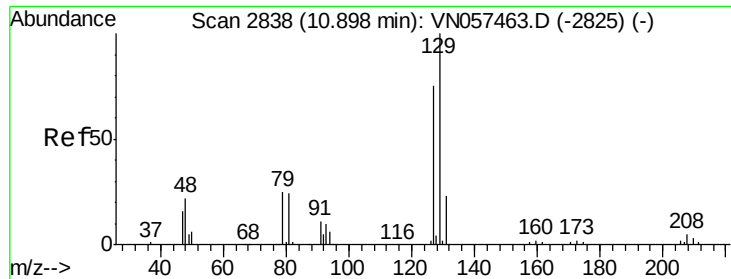
MMDadoda
8/26/2019 1:11:47 PM



#52
1,3-Dichloropropane
Concen: 5.838 ug/l
RT: 10.70 min Scan# 2777
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	63.0





#53

Dibromochloromethane

Concen: 4.640 ug/l

RT: 10.90 min Scan# 2837

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:129 Resp: 23758

Ion Ratio Lower Upper

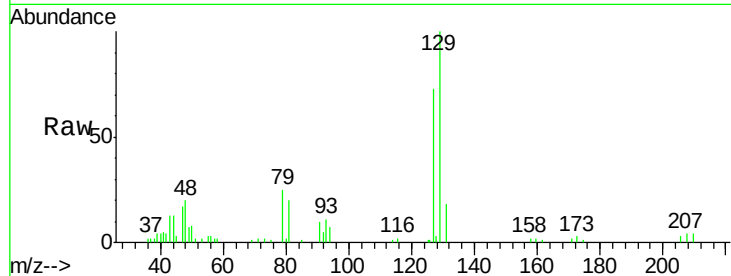
129 100

127 79.9 38.1 114.3

Manual Integrations
APPROVED

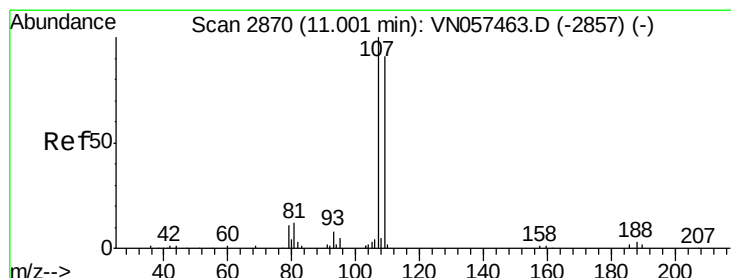
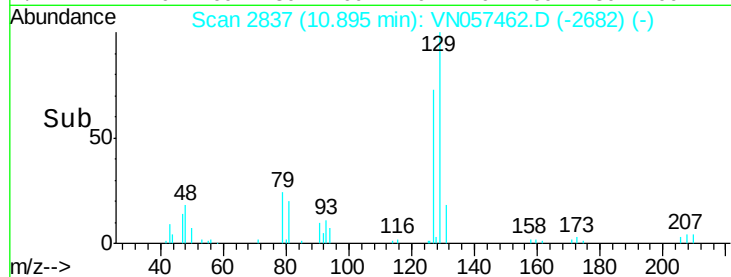
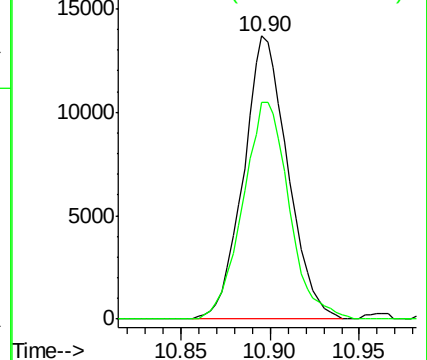
MMDadoda

8/26/2019 1:11:47 PM



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 5.303 ug/l

RT: 11.00 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VN057462.D

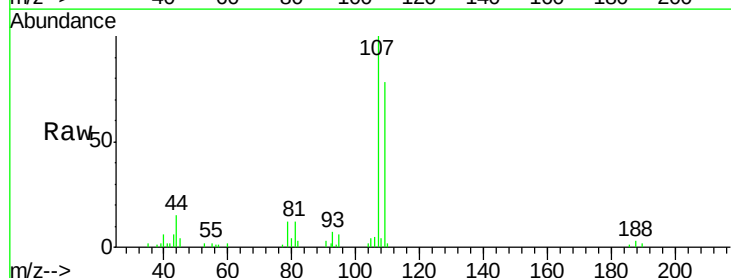
Acq: 23 Aug 2019 9:12

Tgt Ion:107 Resp: 24968

Ion Ratio Lower Upper

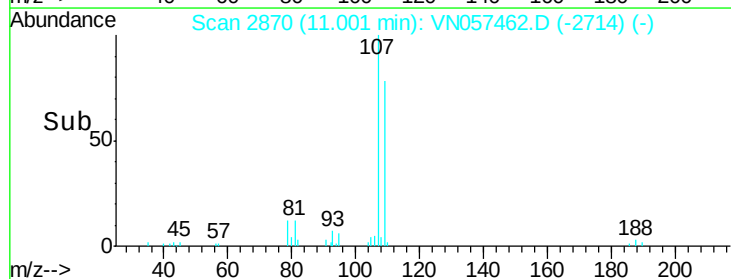
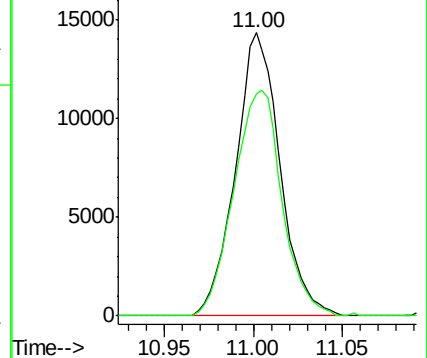
107 100

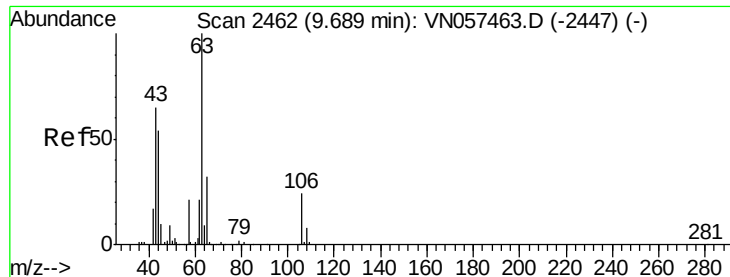
109 86.1 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





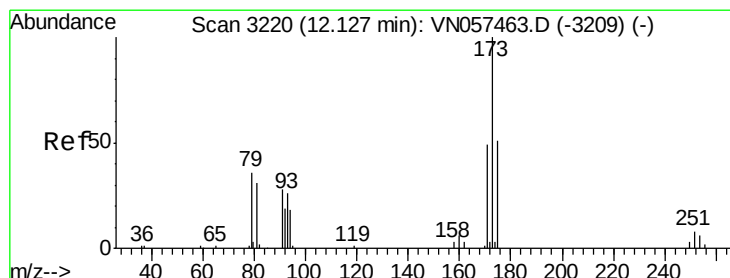
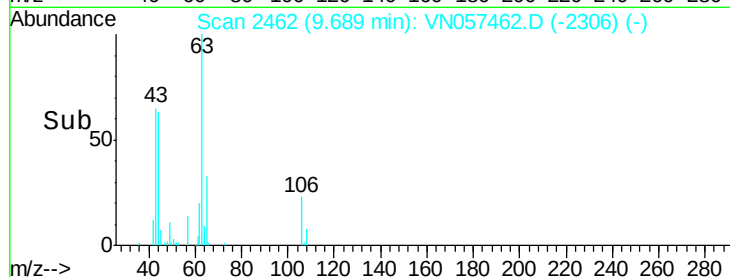
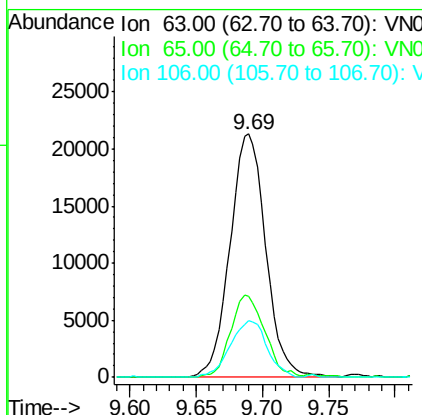
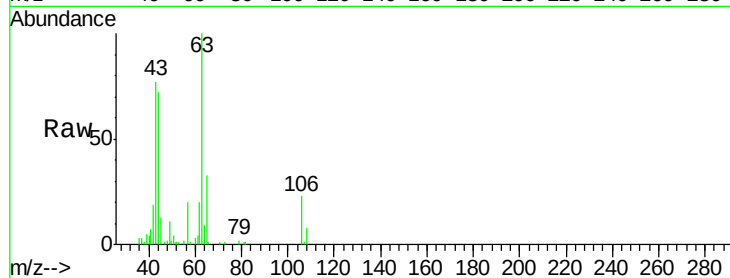
#55
2-Chloroethyl vinyl ether
Concen: 25.426 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:	63	Resp:	40037
Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.1	37.7
106	23.8	18.7	28.1

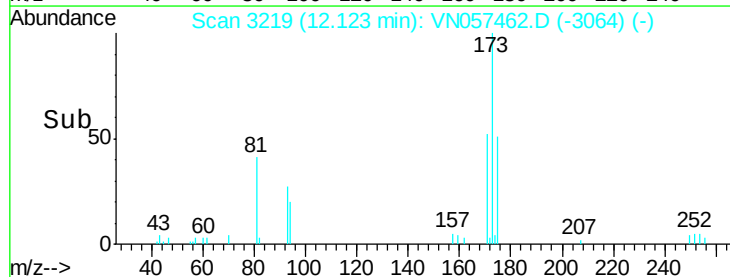
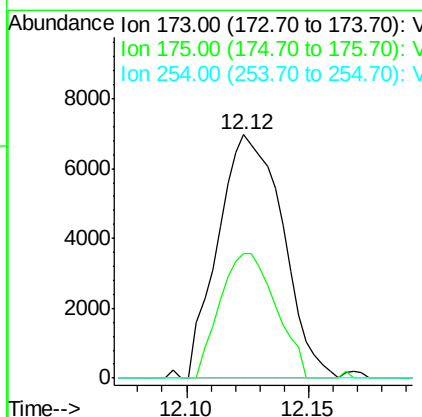
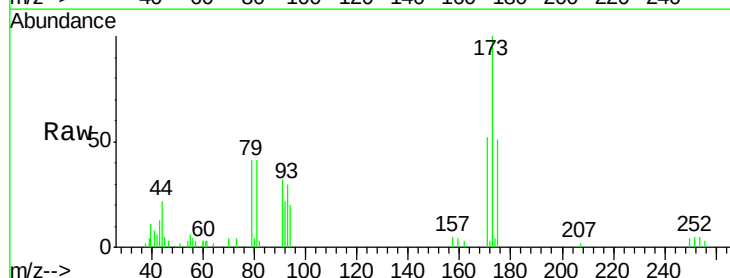
Manual Integrations
APPROVED

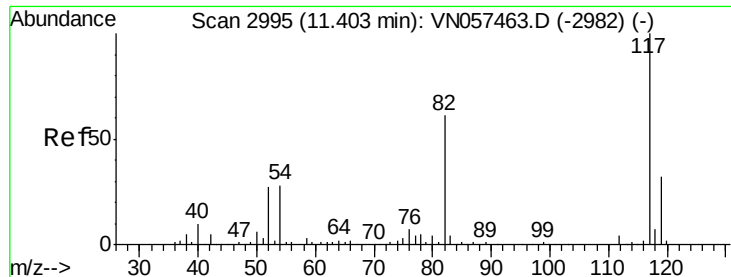
MMDadoda
8/26/2019 1:11:47 PM



#56
Bromoform
Concen: 3.437 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion:	173	Resp:	12807
Ion	Ratio	Lower	Upper
173	100		
175	44.3	40.1	60.1
254	0.0	0.0	0.0





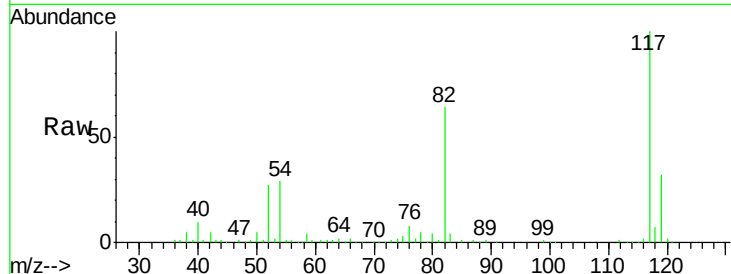
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

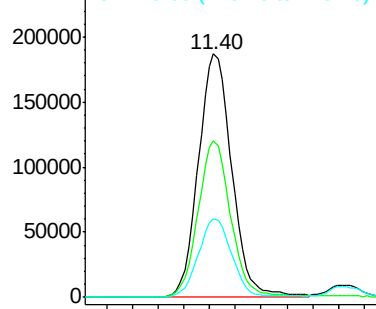
Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	50.4	75.6
119	32.3	25.4	38.2

Manual Integrations
APPROVED

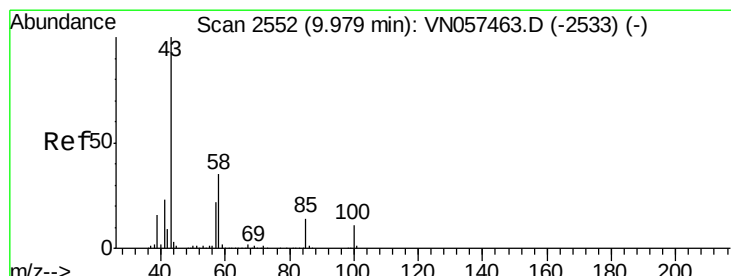
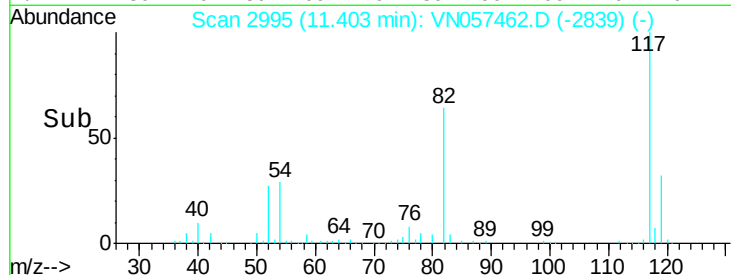
MMDadoda
8/26/2019 1:11:47 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

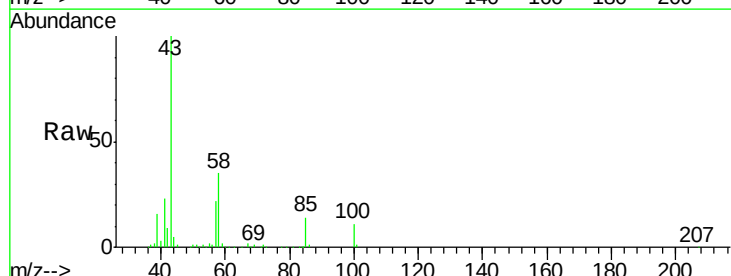


Time-->

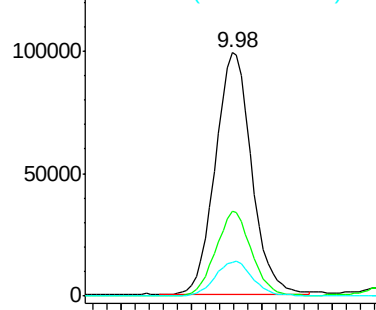


#58
4-Methyl-2-Pentanone
Concen: 36.825 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

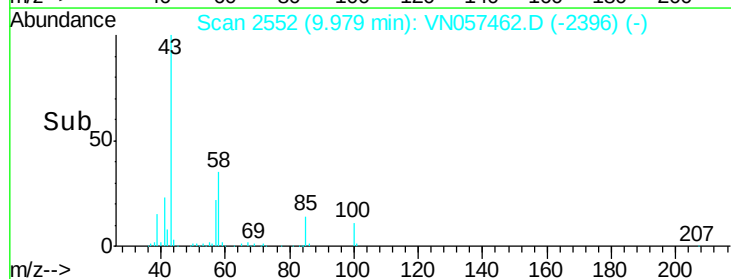
Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.6	28.0	42.0
85	14.8	11.3	16.9

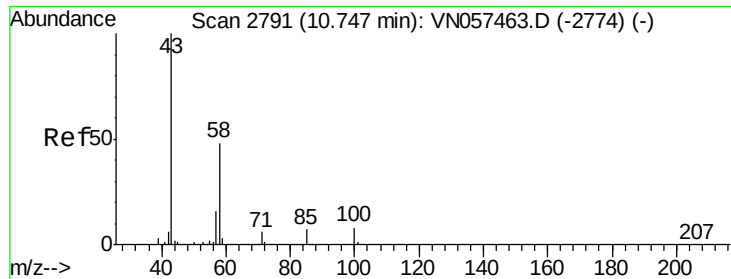


Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V



Time-->





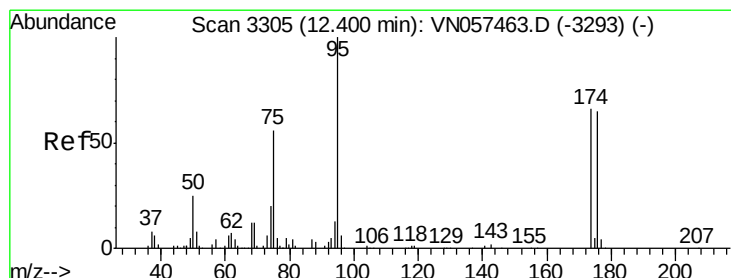
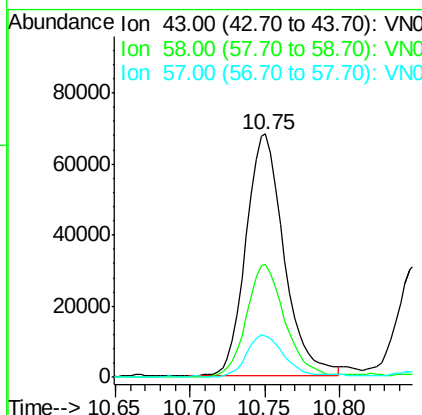
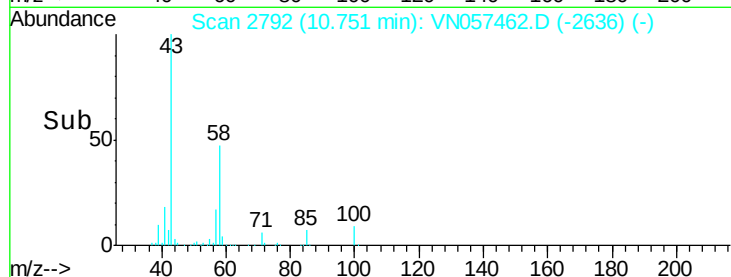
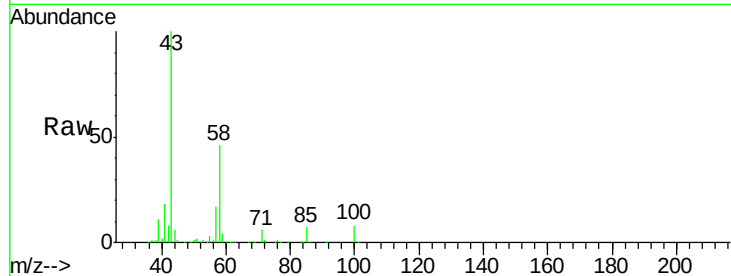
#59
2-Hexanone
Concen: 34.773 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.5	38.9	58.3
57	16.7	13.0	19.4

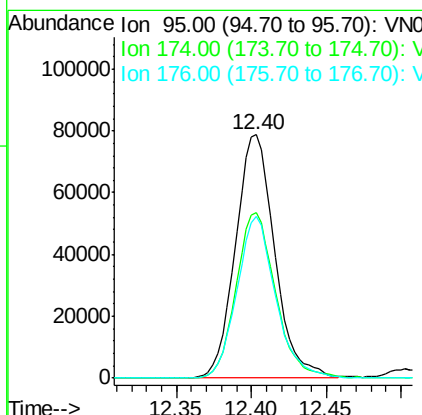
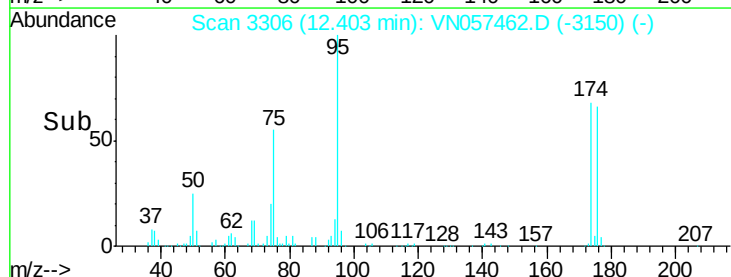
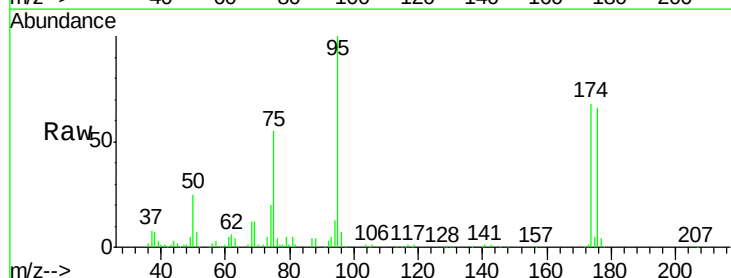
Manual Integrations
APPROVED

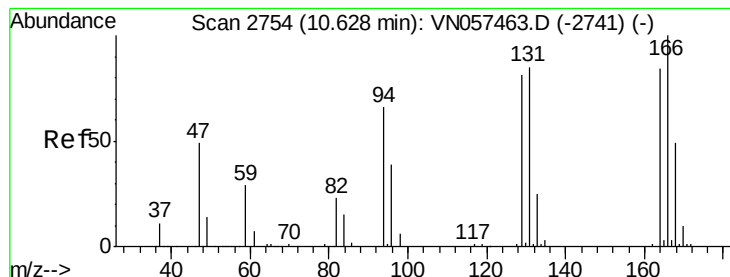
MMDadoda
8/26/2019 1:11:47 PM



#60
4-Bromofluorobenzene
Concen: 28.484 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.3	54.9	82.3
176	65.4	54.2	81.4





#61

Tetrachloroethene

Concen: 4.847 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:164 Resp: 22662

Ion Ratio Lower Upper

164 100

166 118.3 95.8 143.6

129 105.2 77.2 115.8

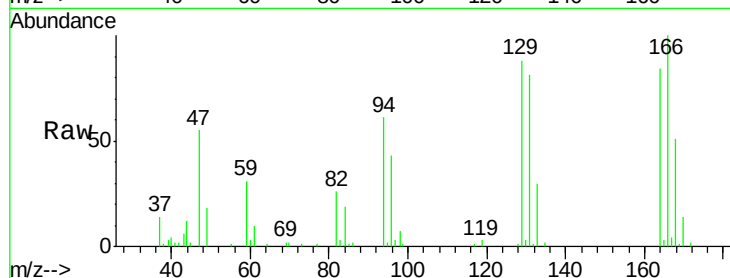
131 96.7 81.1 121.7

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM

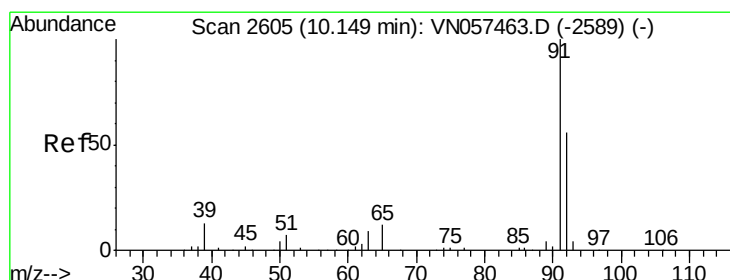
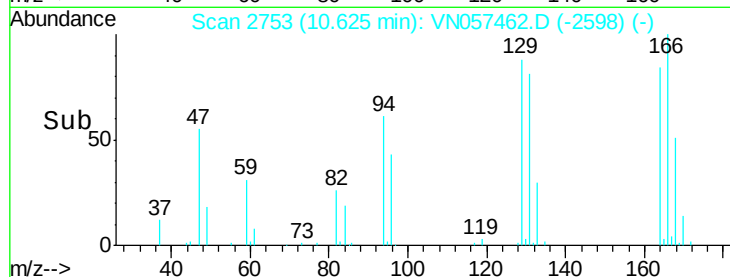
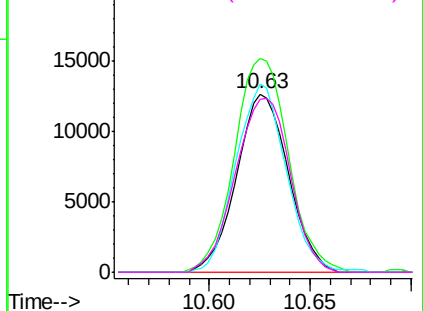


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 6.149 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VN057462.D

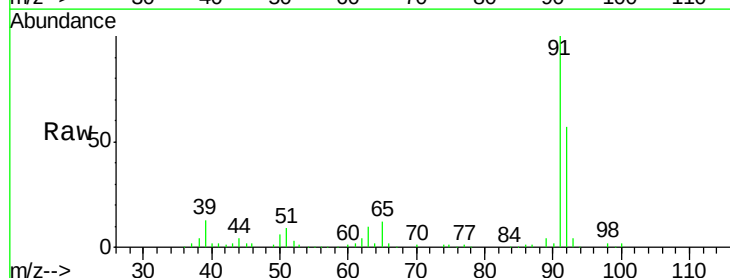
Acq: 23 Aug 2019 9:12

Tgt Ion: 91 Resp: 116225

Ion Ratio Lower Upper

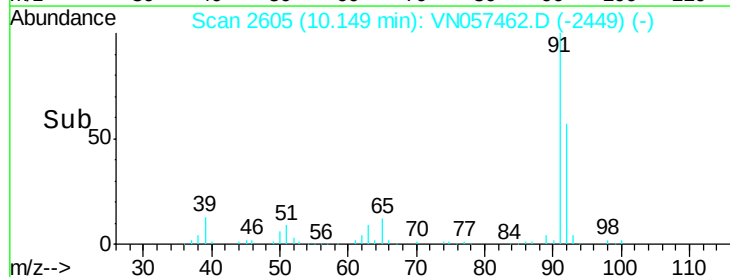
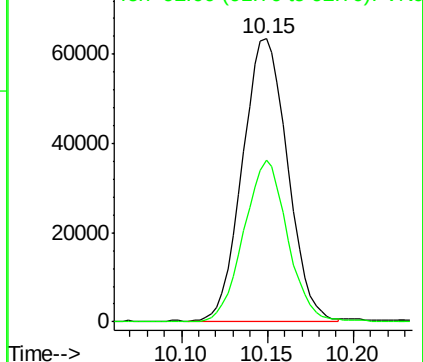
91 100

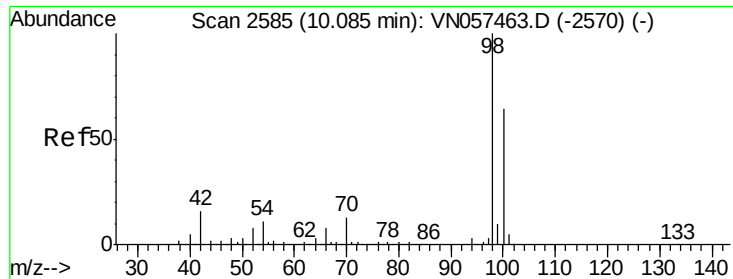
92 55.2 45.4 68.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





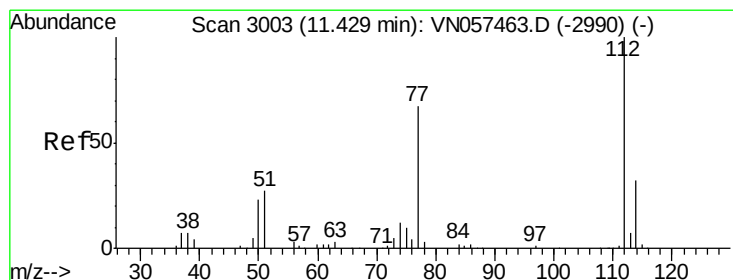
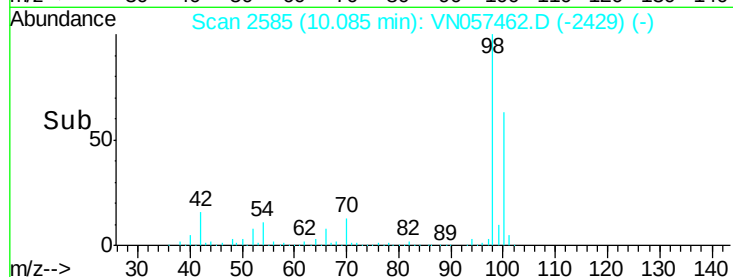
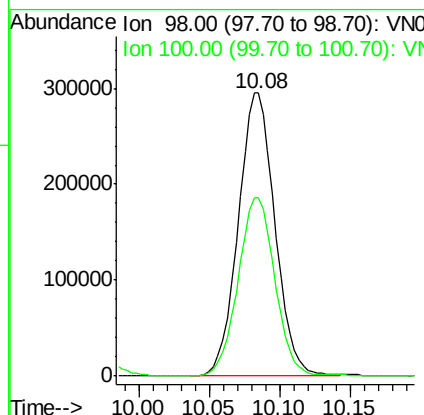
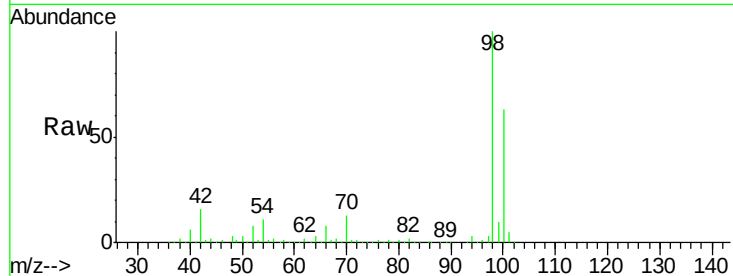
#63
Toluene-d8
Concen: 34.466 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 98 Resp: 538025
Ion Ratio Lower Upper
98 100
100 63.6 51.0 76.6

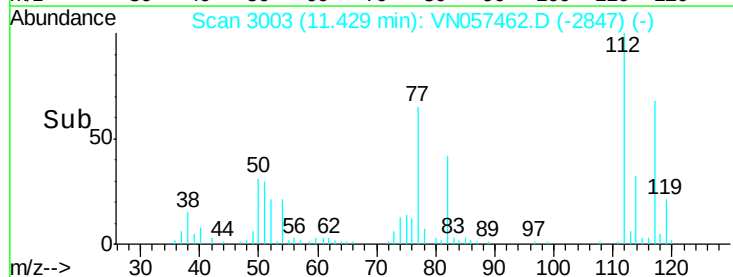
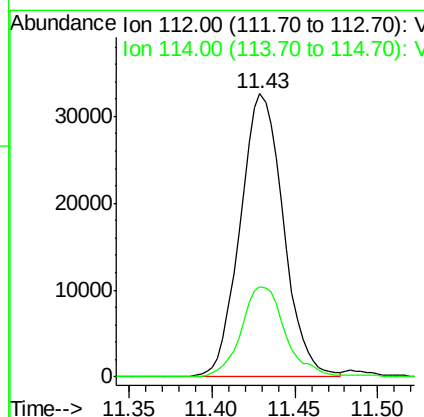
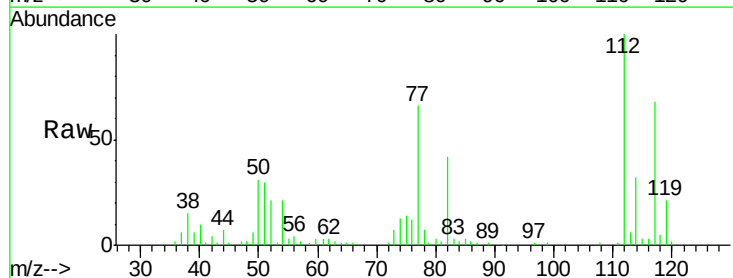
Manual Integrations
APPROVED

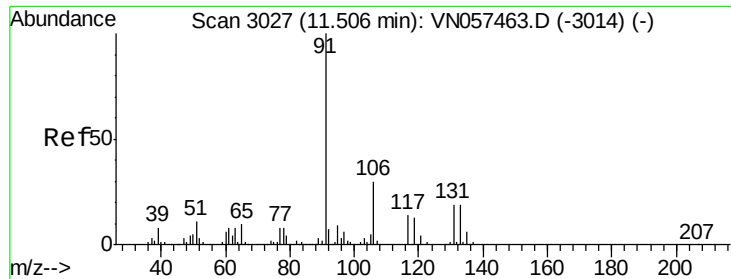
MMDadoda
8/26/2019 1:11:47 PM



#64
Chlorobenzene
Concen: 5.126 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion: 112 Resp: 59130
Ion Ratio Lower Upper
112 100
114 31.8 25.6 38.4





#65

1,1,1,2-Tetrachloroethane

Concen: 5.264 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

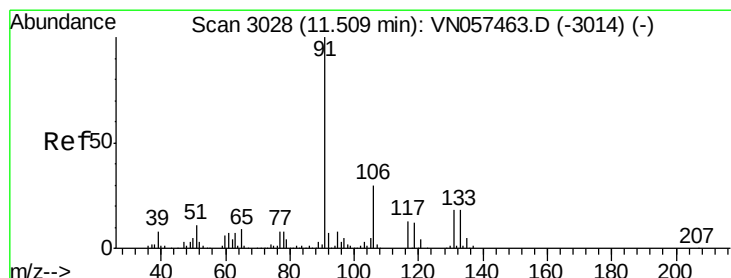
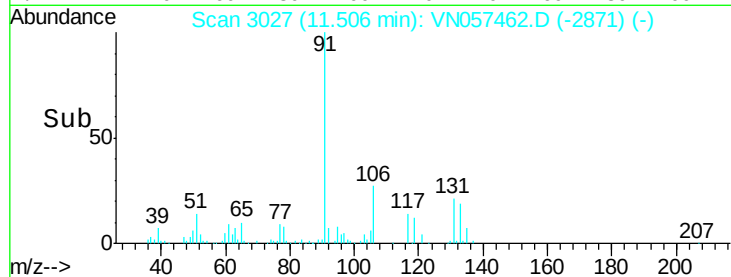
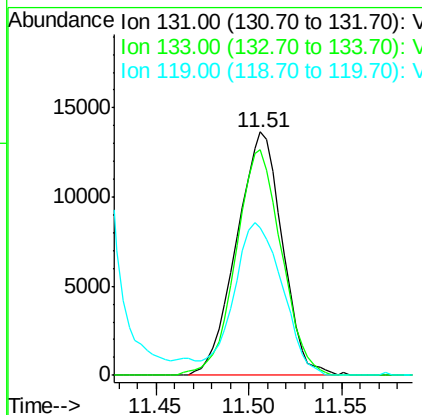
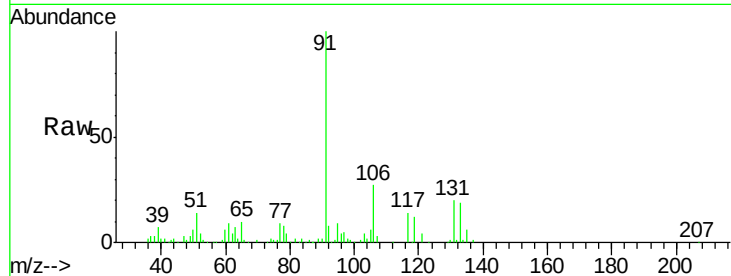
ClientSampleId :

VSTDIC005

Tot Ion:	131	Resp:	23389
Ion Ratio	Lower	Upper	
131	100		
133	92.3	0.0	193.6
119	66.4	0.0	137.4

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#66

Ethyl Benzene

Concen: 5.714 ug/l

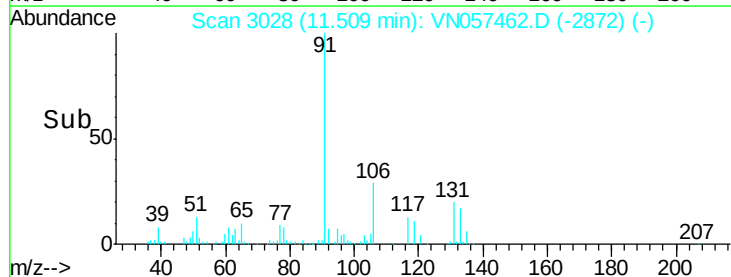
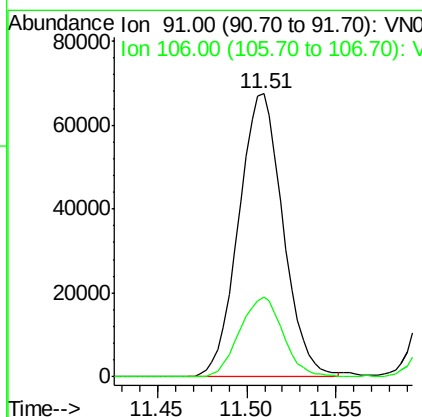
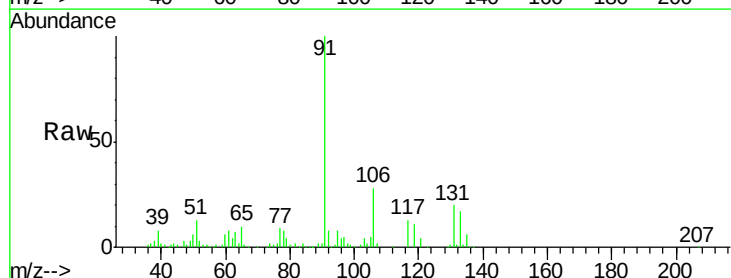
RT: 11.51 min Scan# 3028

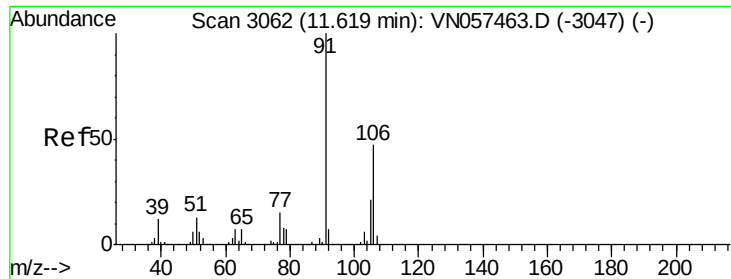
Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion:	91	Resp:	117424
Ion Ratio	Lower	Upper	
91	100		
106	28.4	23.6	35.4





#67

m/p-Xylenes

Concen: 10.095 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:106 Resp: 76293

Ion Ratio Lower Upper

106 100

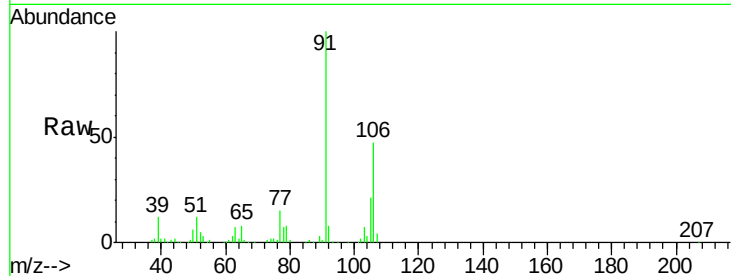
91 210.2 172.9 259.3

Manual Integrations

APPROVED

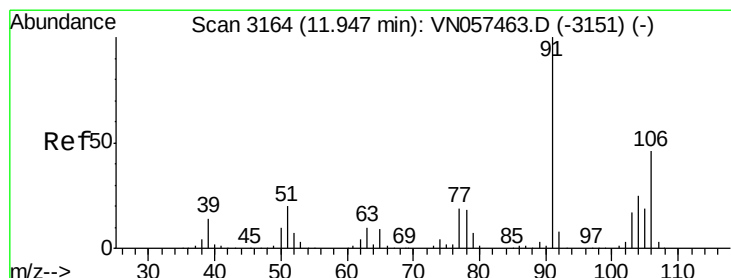
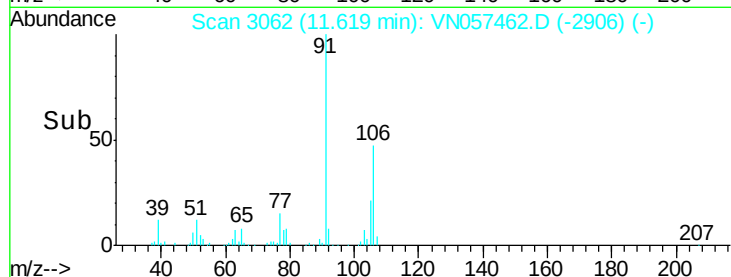
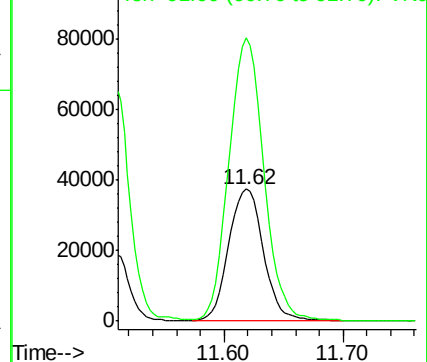
MMDadoda

8/26/2019 1:11:47 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 5.220 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN057462.D

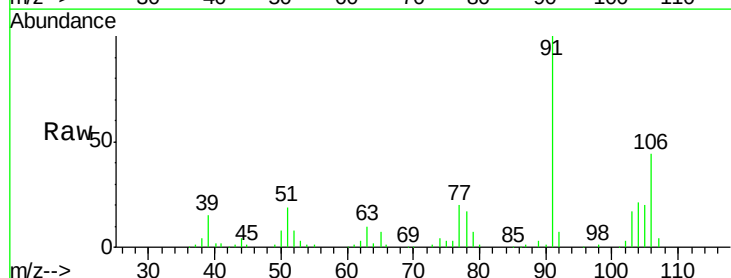
Acq: 23 Aug 2019 9:12

Tgt Ion:106 Resp: 38810

Ion Ratio Lower Upper

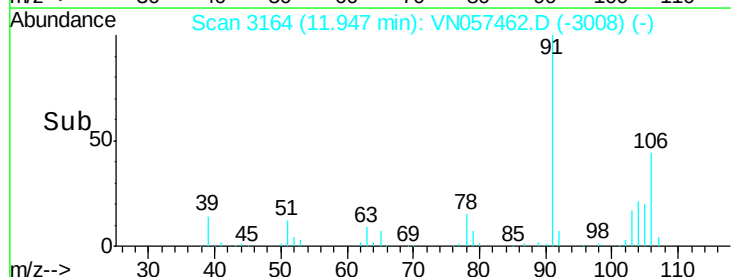
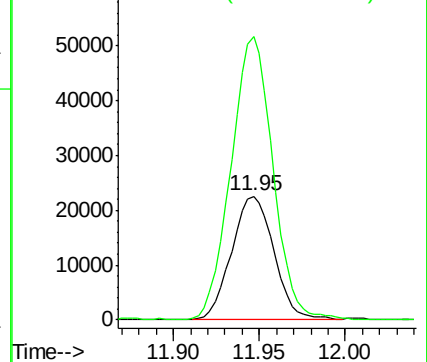
106 100

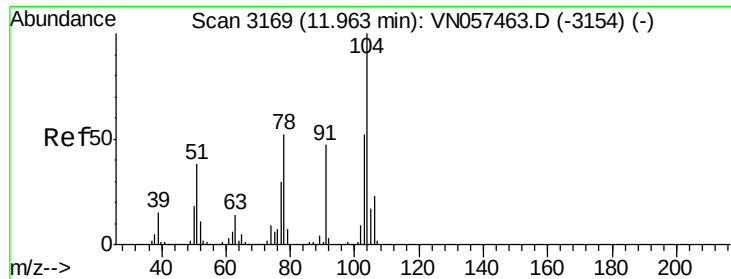
91 226.9 111.1 333.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





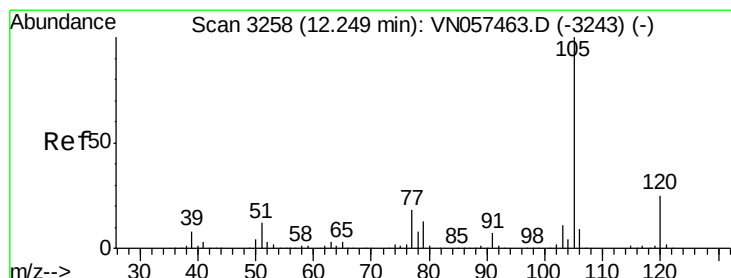
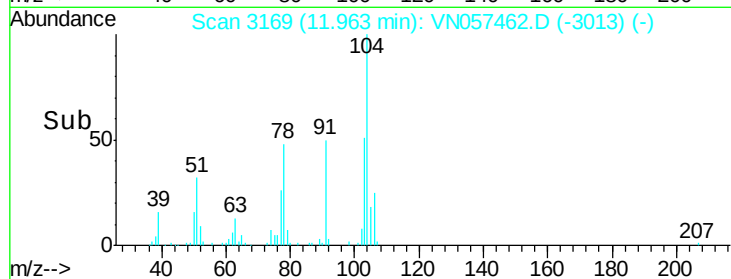
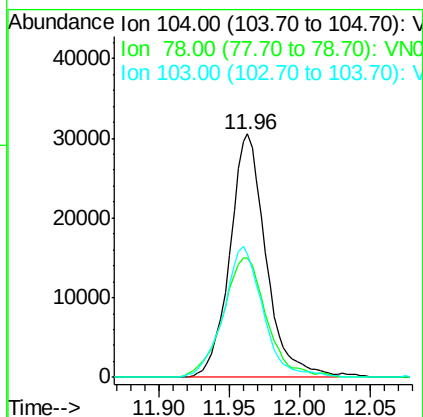
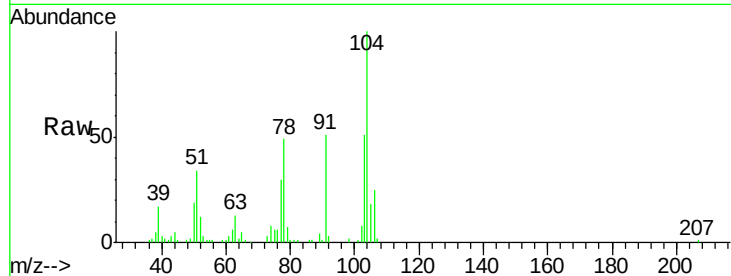
#69
Stvrene
Concen: 4.627 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.8	46.5	69.7
103	58.3	45.9	68.9

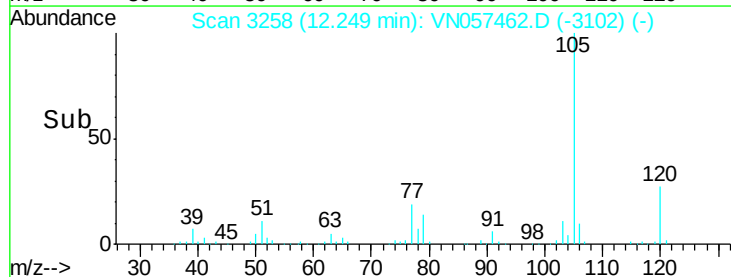
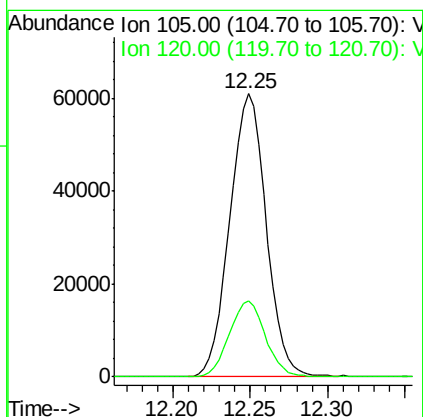
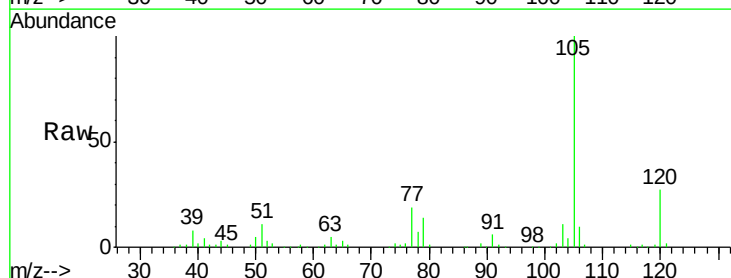
Manual Integrations
APPROVED

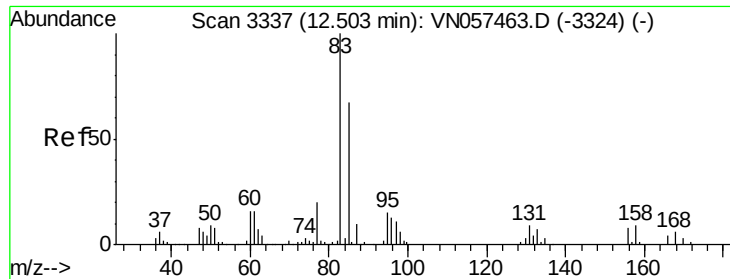
MMDadoda
8/26/2019 1:11:47 PM



#70
Isopropylbenzene
Concen: 5.025 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	17.8	33.1





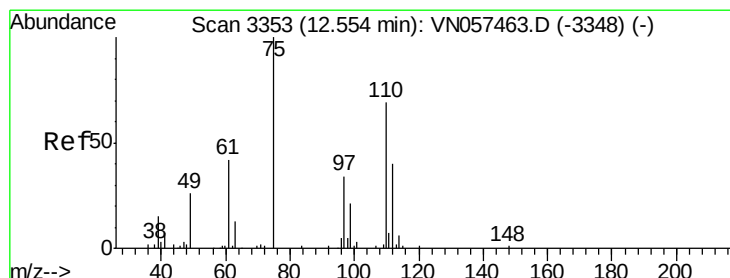
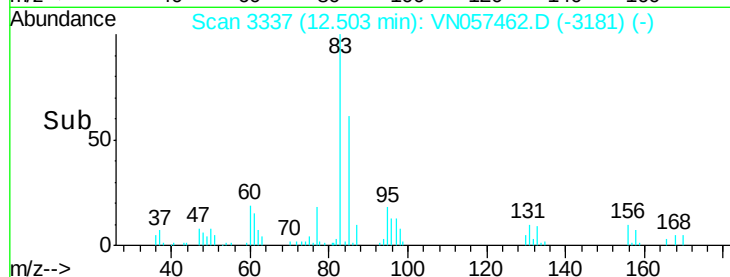
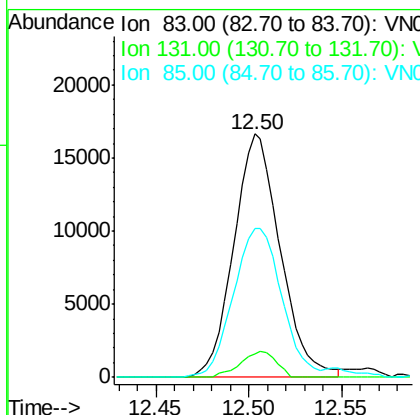
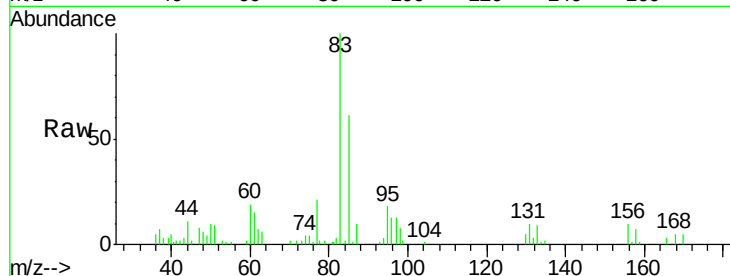
#71
 1,1,2,2-Tetrachloroethane
 Concen: 5.261 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
83	100	28915		
131	8.3	4.7	14.1	
85	63.6	33.1	99.2	

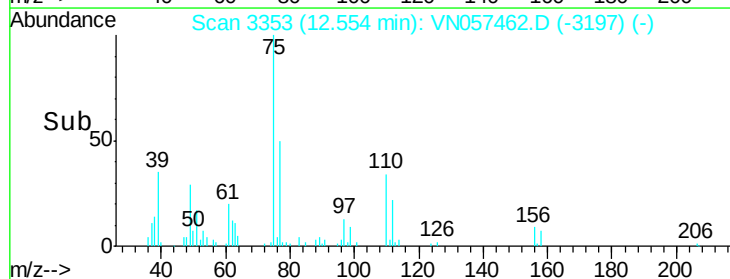
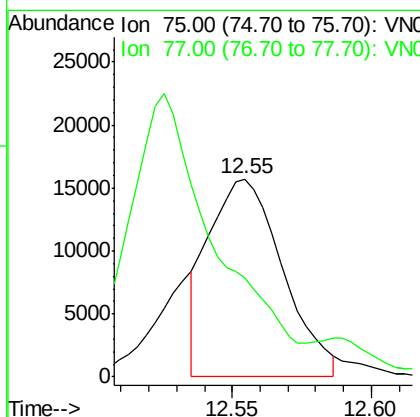
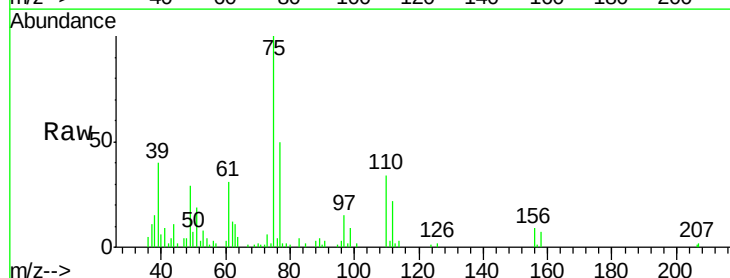
Manual Integrations
 APPROVED

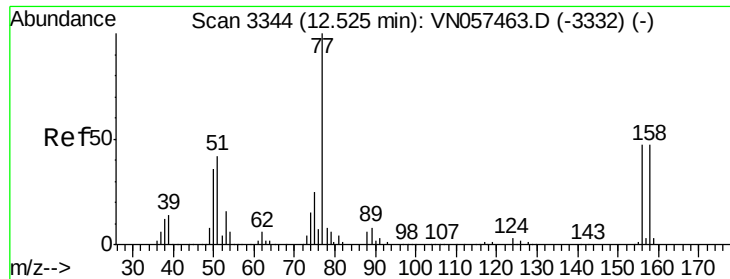
MMDadoda
 8/26/2019 1:11:47 PM



#72
 1,2,3-Trichloropropane
 Concen: 6.194 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29183		
77	167.6	0.0	380.2	





#73

Bromobenzene

Concen: 3.861 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

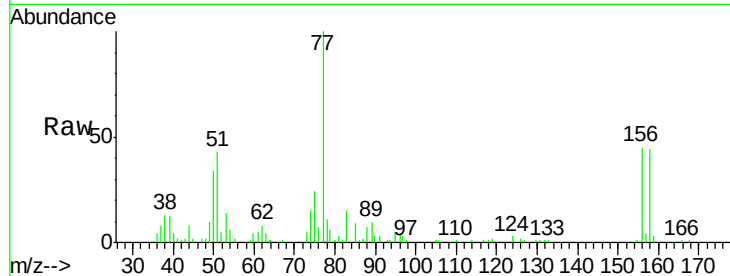
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	19426
Ion Ratio	Lower	Upper	
156	100		
77	251.8	0.0	506.8
158	94.5	0.0	196.6

Manual Integrations
APPROVED

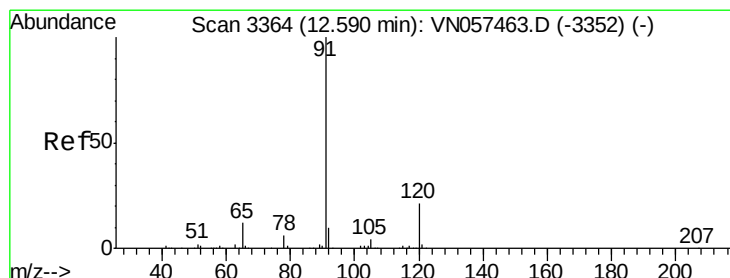
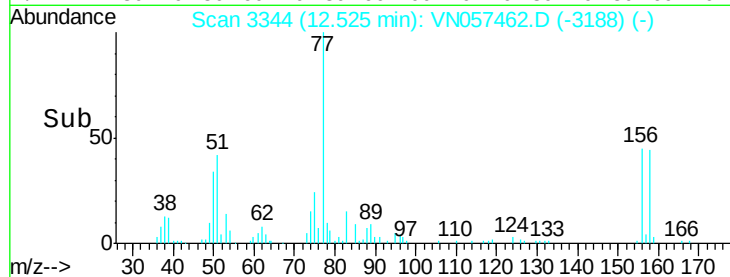
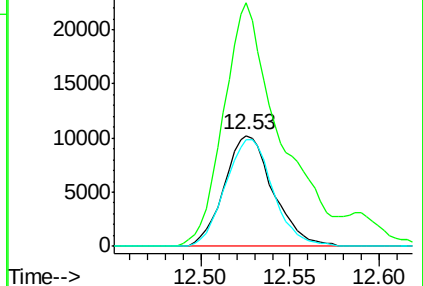
MMDadoda
8/26/2019 1:11:47 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 5.064 ug/l

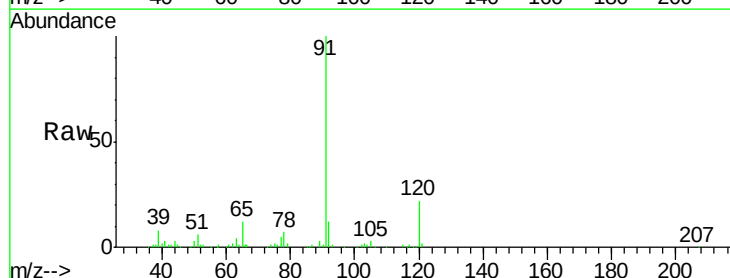
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN057462.D

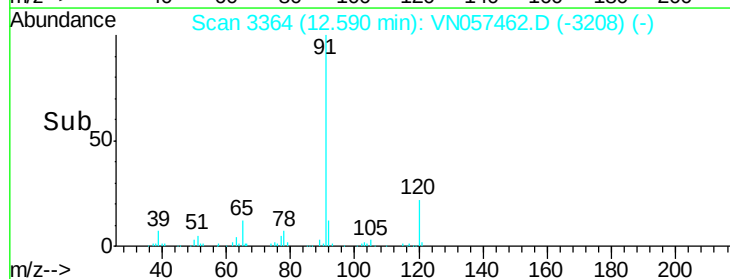
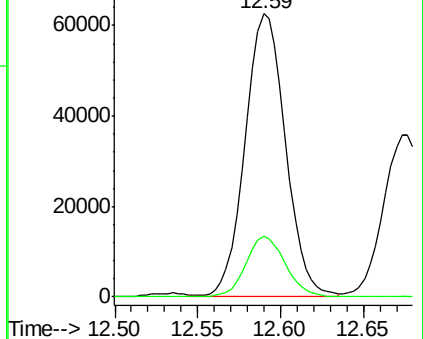
Acq: 23 Aug 2019 9:12

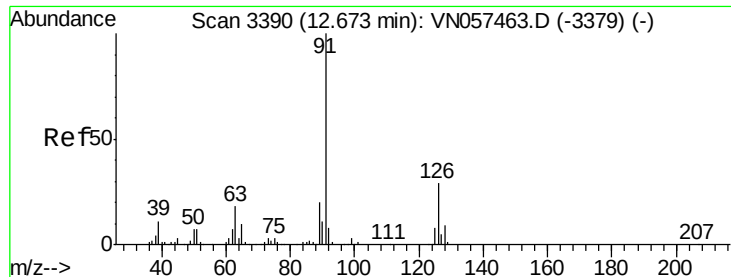
Tgt Ion:	91	Resp:	106539
Ion Ratio	Lower	Upper	
91	100		
120	20.8	0.0	42.2



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.967 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 64081

Ion Ratio Lower Upper

91 100

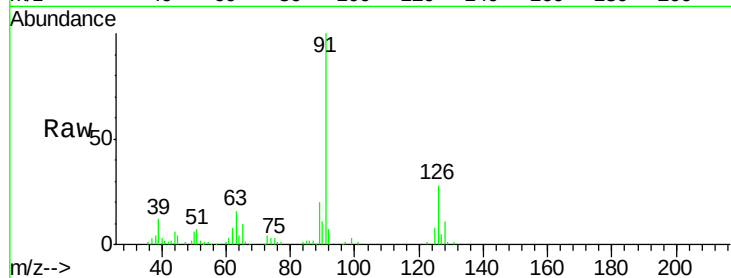
126 29.1 0.0 60.4

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



Abundance Ion 91.00 (90.70 to 91.70): VN057463.D (-3379) (-)

Ion 126.00 (125.70 to 126.70): VN057463.D (-3379) (-)

50000

40000

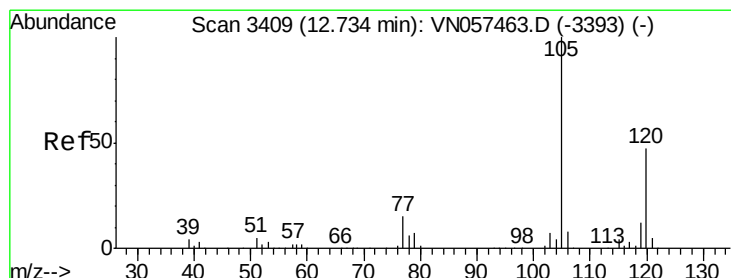
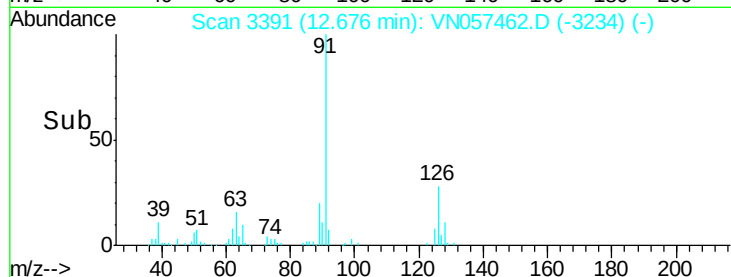
30000

20000

10000

0

Time--> 12.60 12.65 12.70



#76

1,3,5-Trimethylbenzene

Concen: 4.861 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057462.D

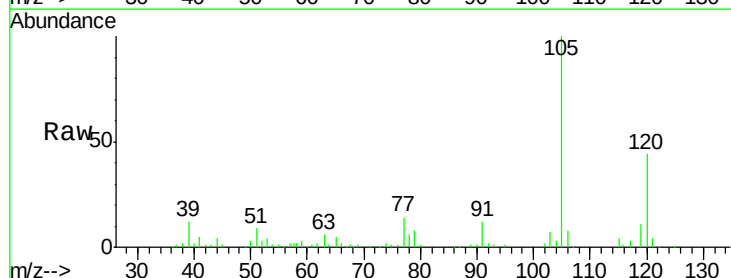
Acq: 23 Aug 2019 9:12

Tgt Ion: 105 Resp: 79994

Ion Ratio Lower Upper

105 100

120 47.2 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN057463.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057463.D (-3393) (-)

50000

40000

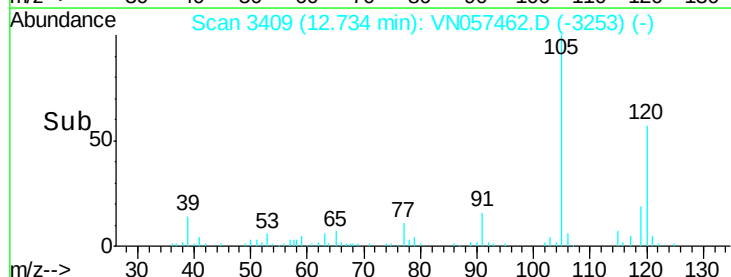
30000

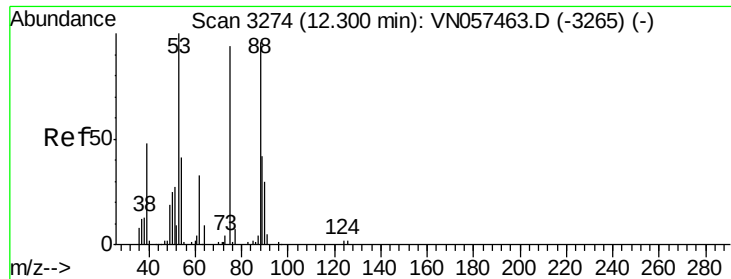
20000

10000

0

Time--> 12.70 12.75 12.80





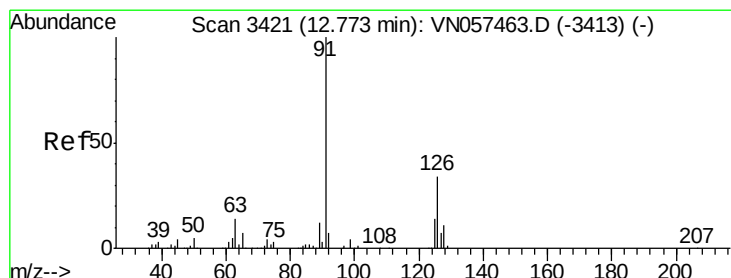
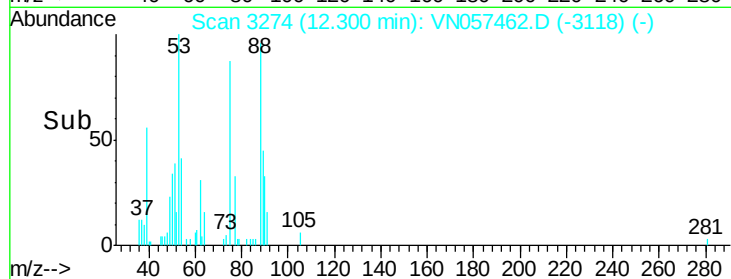
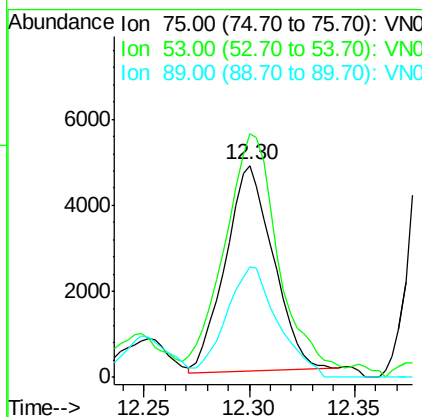
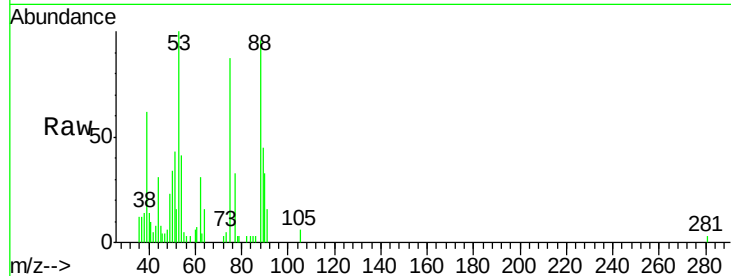
#77
t-1,4-Dichloro-2-butene
Concen: 4.223 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	114.4	55.6	166.9
89	54.7	23.8	71.4

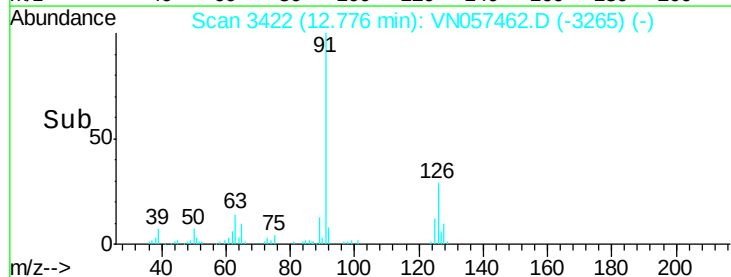
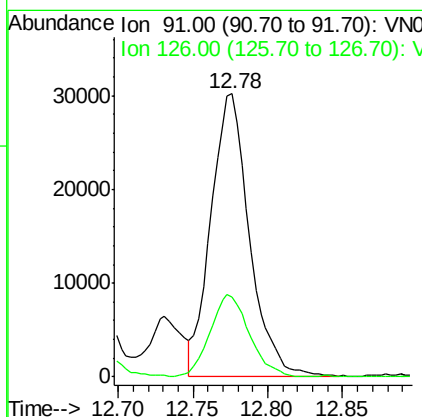
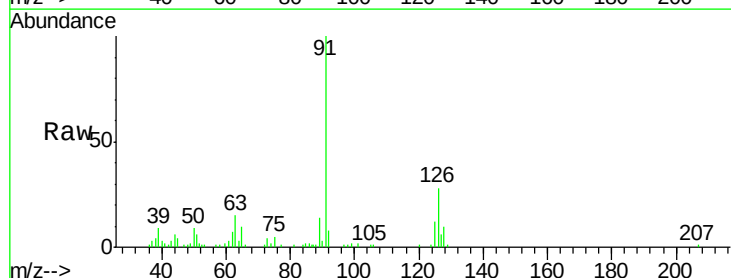
Manual Integrations
APPROVED

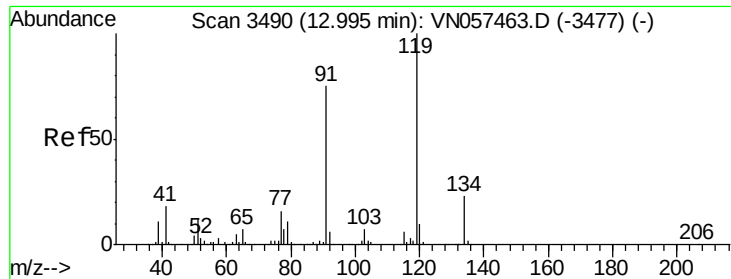
MMDadoda
8/26/2019 1:11:47 PM



#78
4-Chlorotoluene
Concen: 4.488 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.5	0.0	61.6





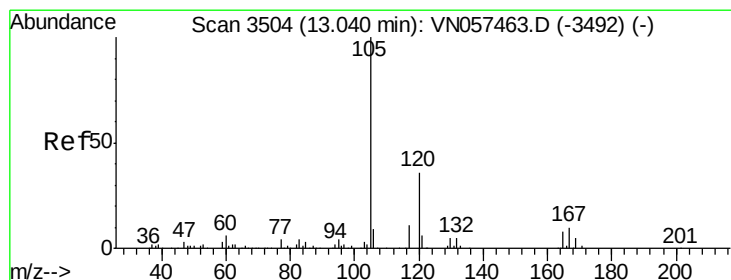
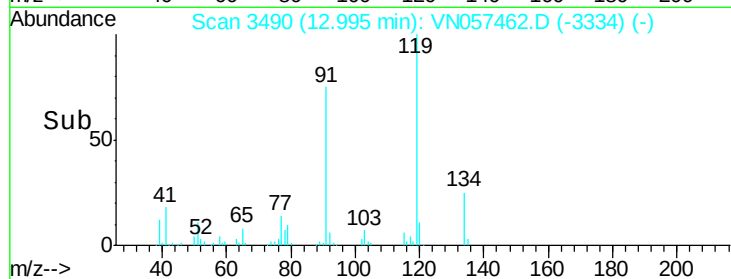
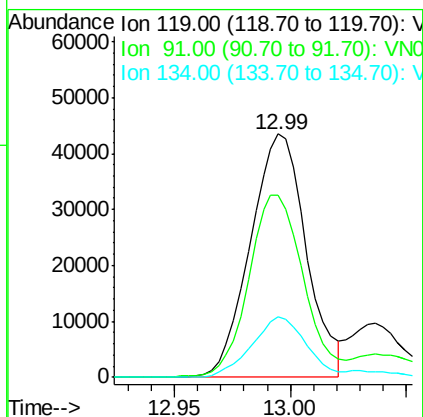
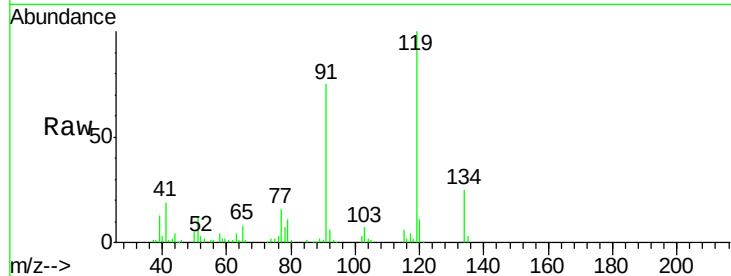
#79
tert-butylbenzene
Concen: 5.012 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
119	100	72931		
91	73.8		0.0	146.6
134	24.1		0.0	46.2

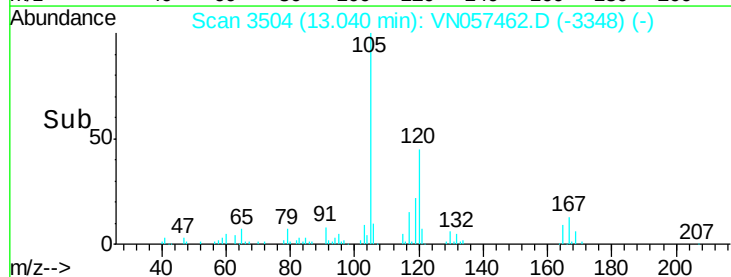
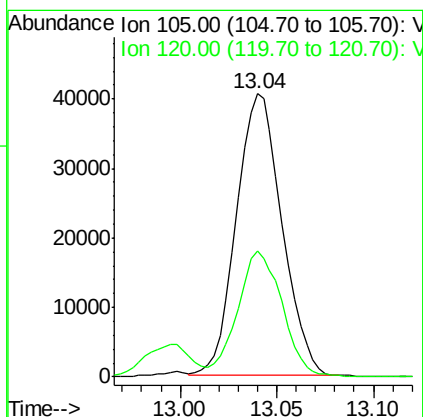
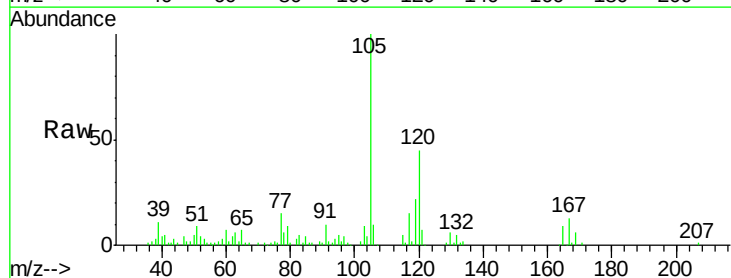
Manual Integrations
APPROVED

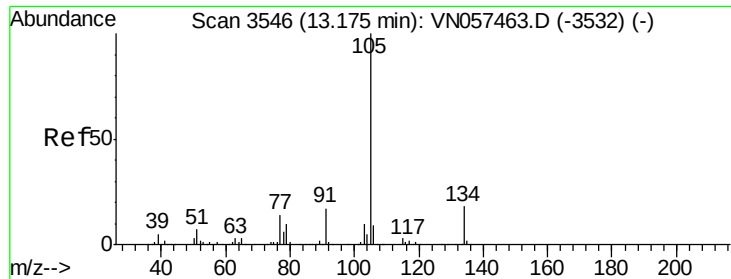
MMDadoda
8/26/2019 1:11:47 PM



#80
1,2,4-Trimethylbenzene
Concen: 4.269 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057462.D
Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	66289		
120	43.6		0.0	85.4





#81

sec-Butylbenzene

Concen: 4.675 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 85326

Ion Ratio Lower Upper

105 100

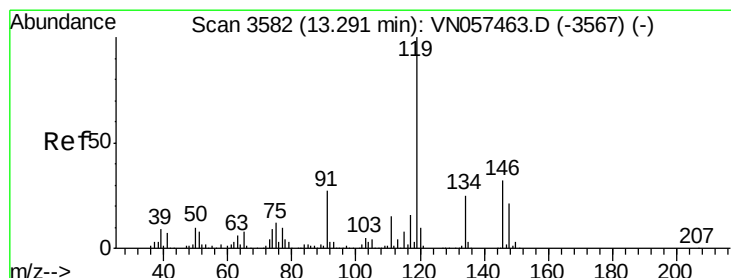
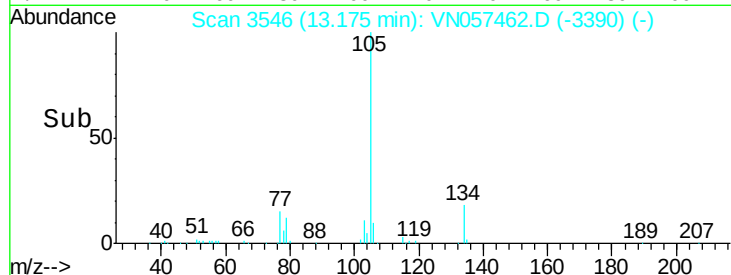
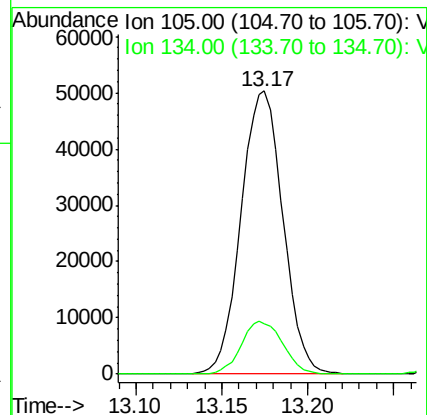
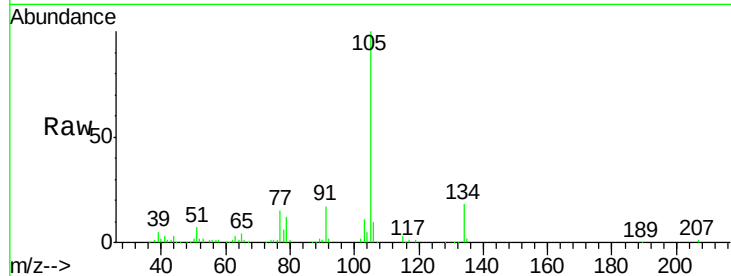
134 18.3 0.0 36.0

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:11:47 PM



#82

p-Isopropyltoluene

Concen: 4.435 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

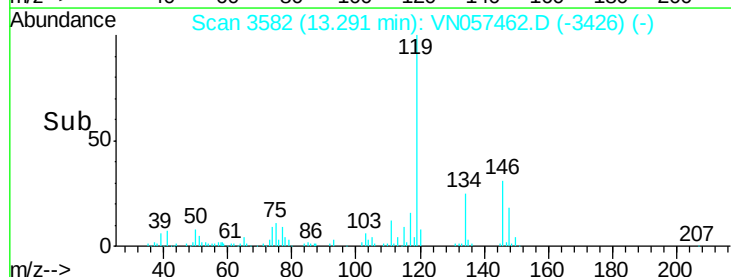
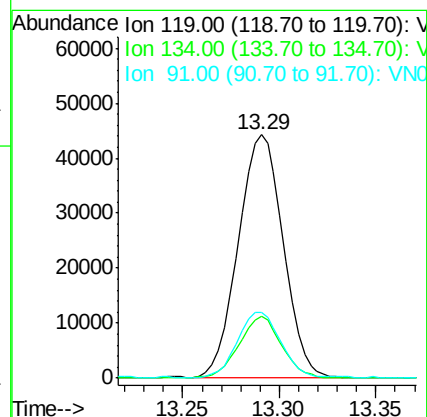
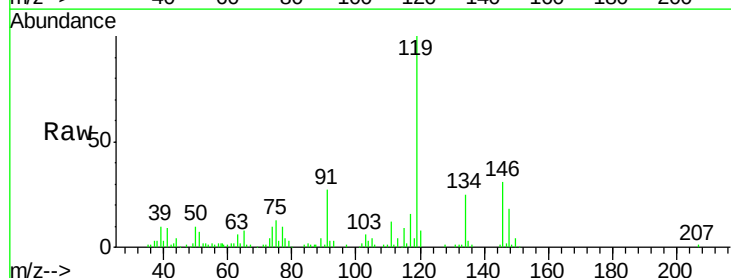
Tgt Ion:119 Resp: 71542

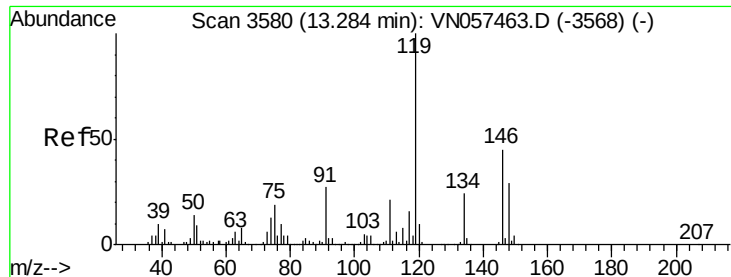
Ion Ratio Lower Upper

119 100

134 23.9 0.0 49.6

91 26.3 0.0 55.2





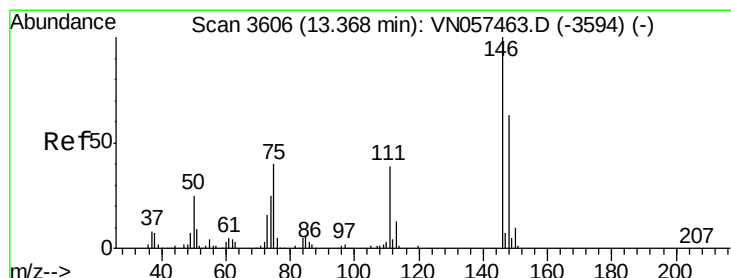
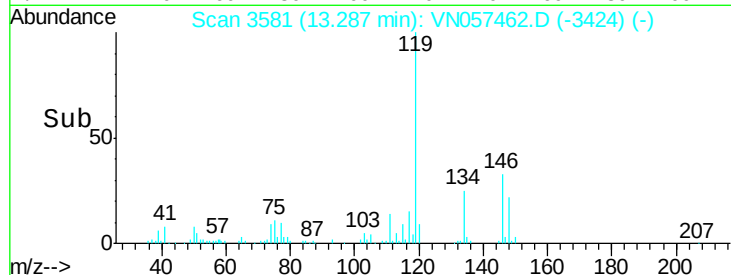
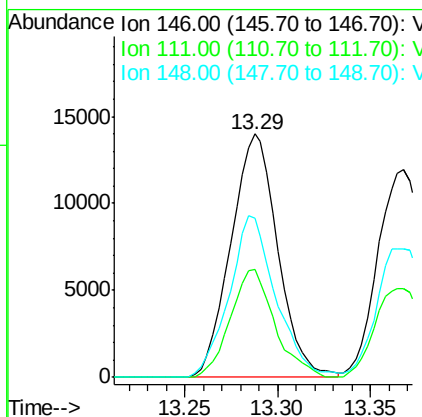
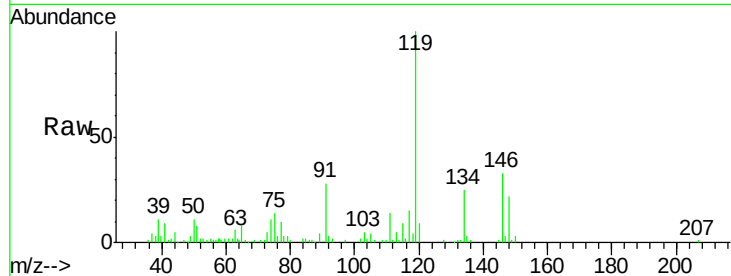
#83
 1,3-Dichlorobenzene
 Concen: 3.301 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	22.4	67.0
148	65.6	31.8	95.4

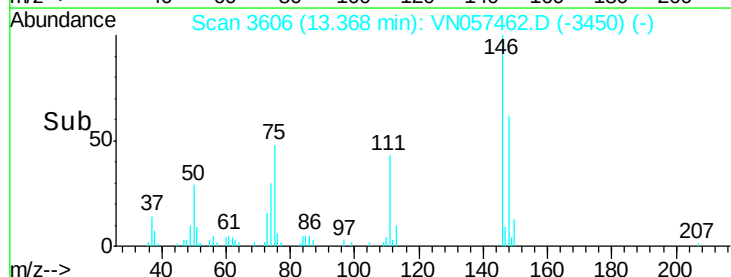
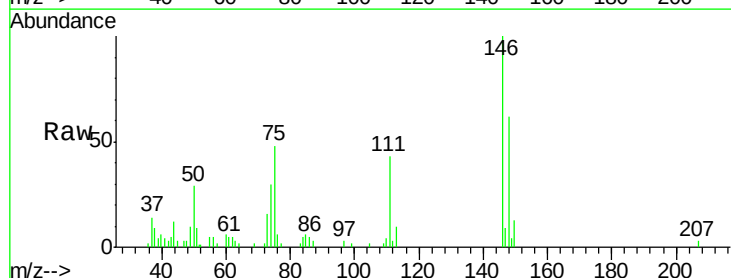
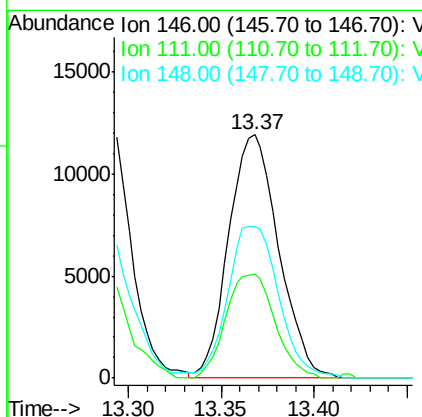
Manual Integrations
 APPROVED

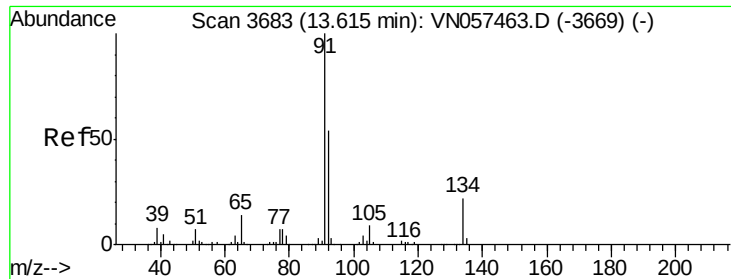
MMDadoda
 8/26/2019 1:11:47 PM



#84
 1,4-Dichlorobenzene
 Concen: 3.197 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.5	61.5
148	63.5	31.9	95.7





#85

n-Butylbenzene

Concen: 4.608 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

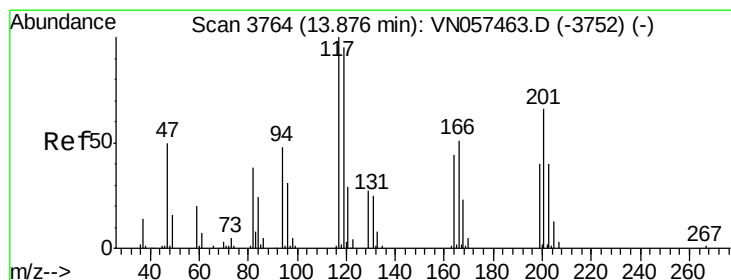
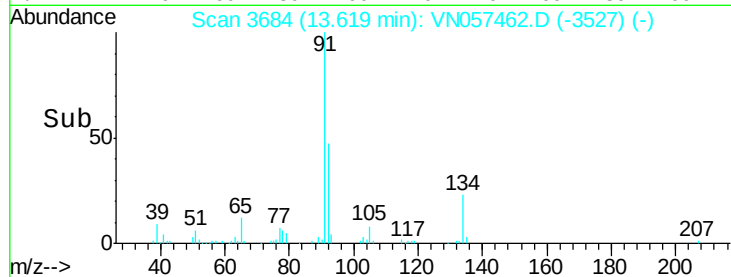
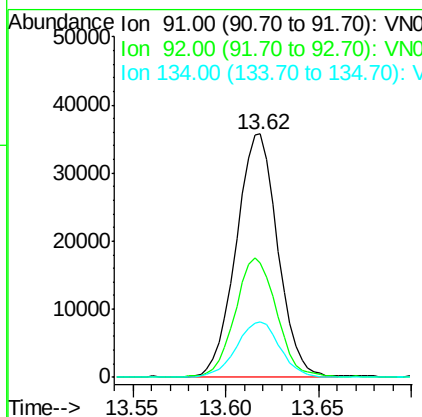
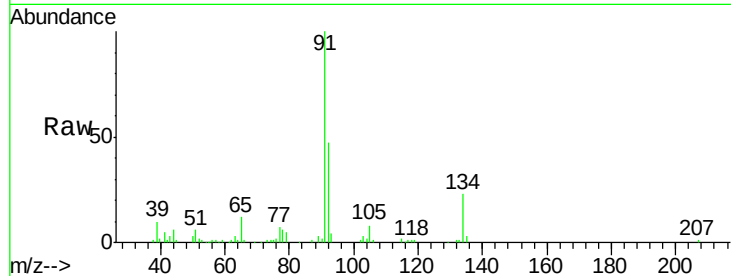
ClientSampleId :

VSTDIC005

Tot Ion:	91	Resp:	55865
Ion	Ratio	Lower	Upper
91	100		
92	48.8	0.0	105.6
134	23.8	0.0	46.0

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



#86

Hexachloroethane

Concen: 4.831 ug/l

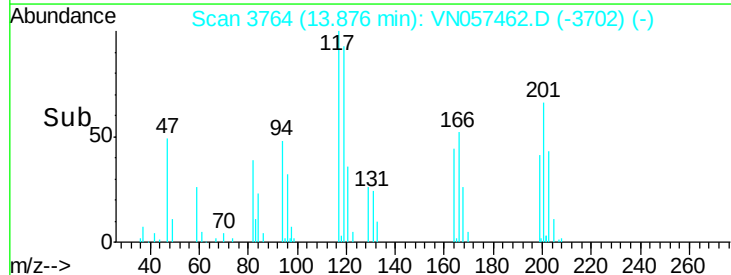
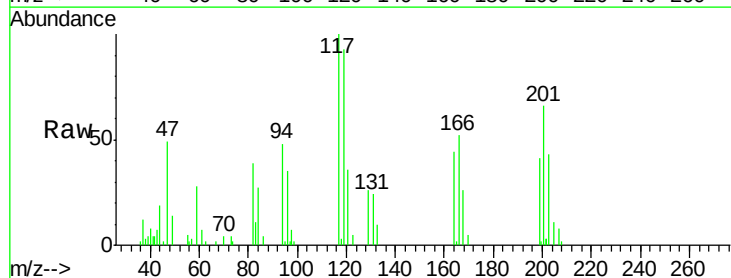
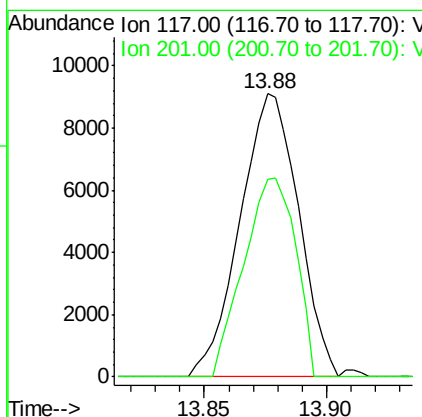
RT: 13.88 min Scan# 3764

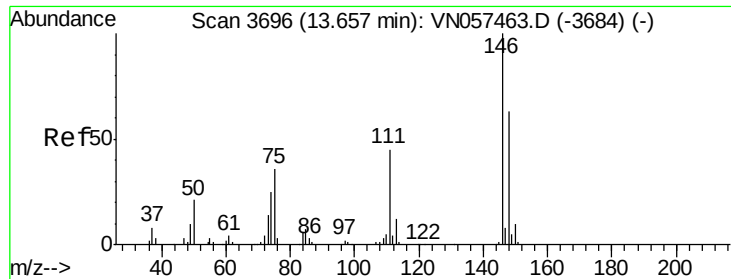
Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion:	117	Resp:	15144
Ion	Ratio	Lower	Upper
117	100		
201	62.4	34.0	101.8





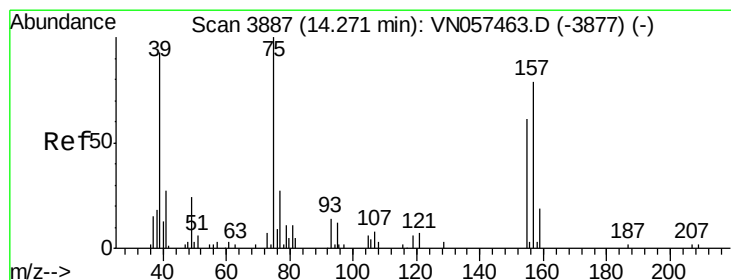
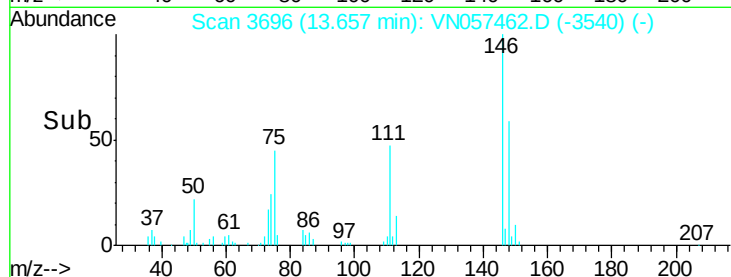
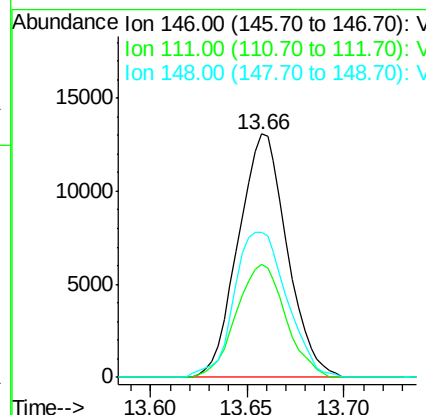
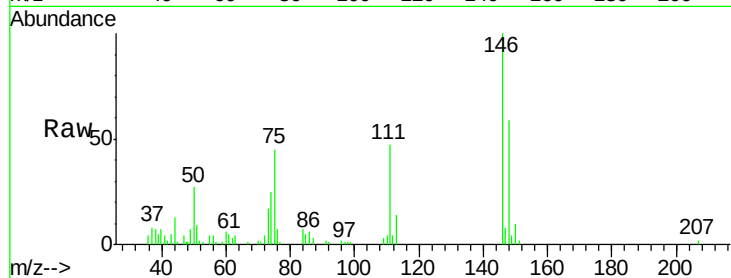
#87
 1,2-Dichlorobenzene
 Concen: 3.246 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	22.5	67.5
148	64.3	30.9	92.7

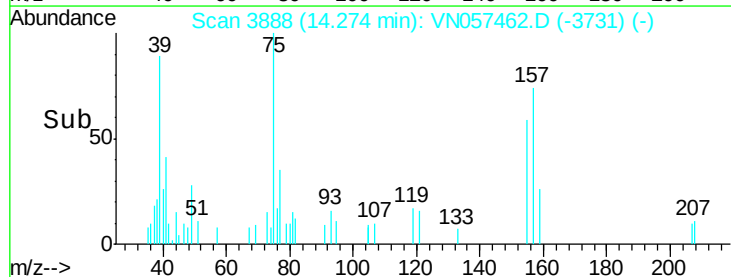
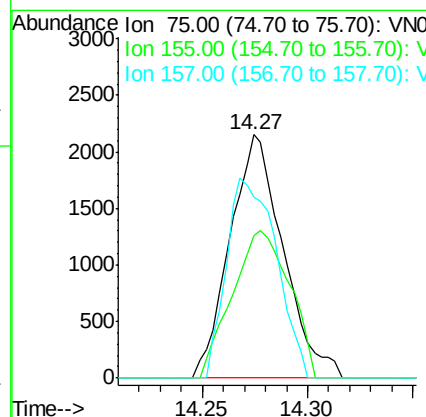
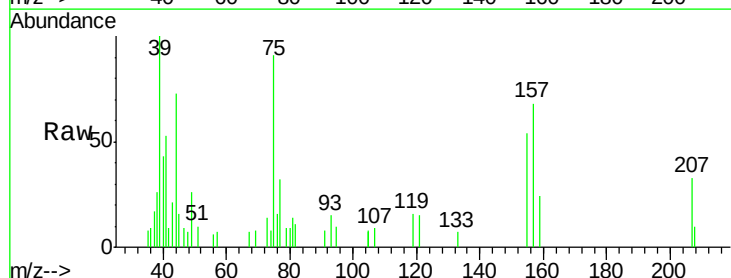
Manual Integrations
 APPROVED

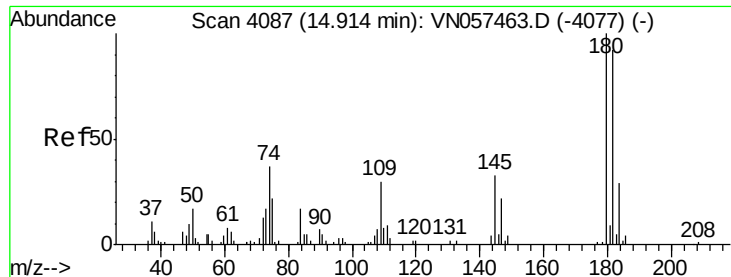
MMDadoda
 8/26/2019 1:11:47 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 4.864 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	65.3	53.7	80.5
157	76.6	63.5	95.3





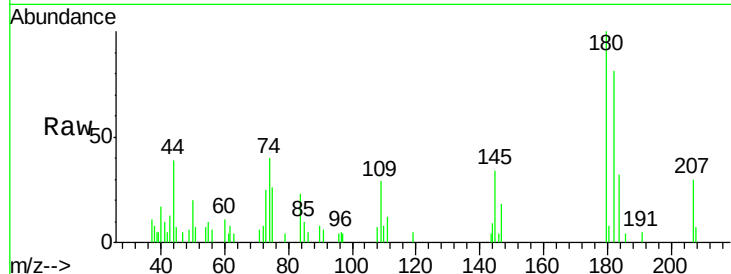
#89
 1,2,4-Trichlorobenzene
 Concen: 2.785 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

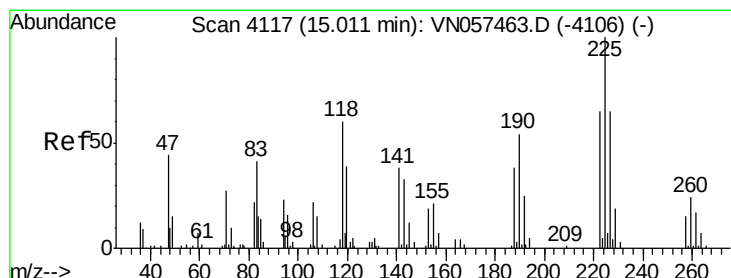
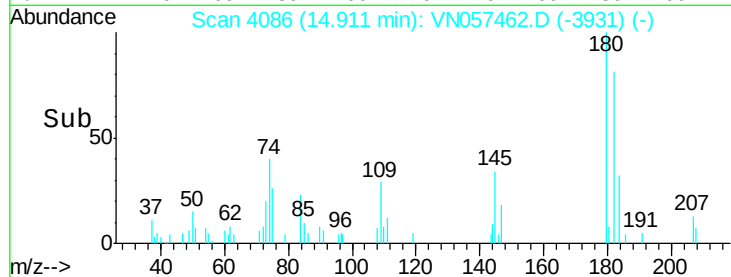
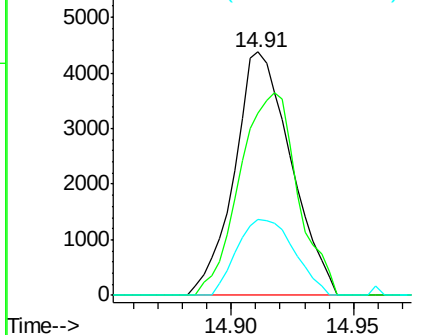
Tot Ion	Ratio	Lower	Upper
180	100		
182	85.2	75.4	113.2
145	31.5	26.9	40.3

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:11:47 PM

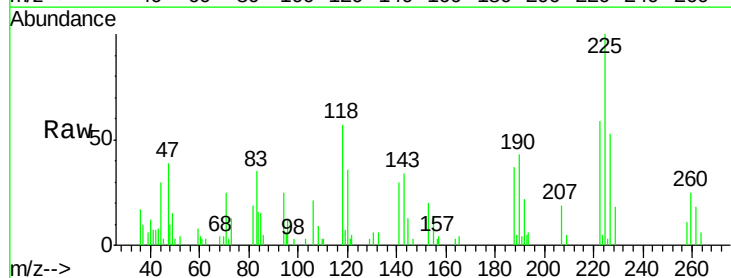


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

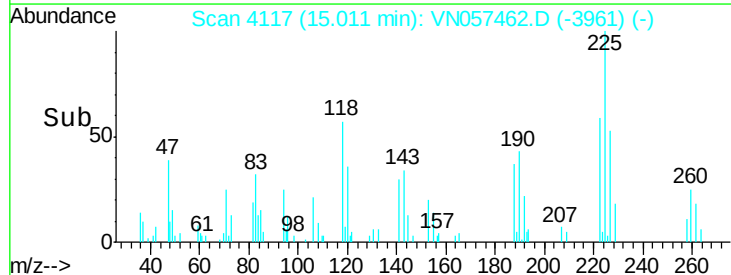
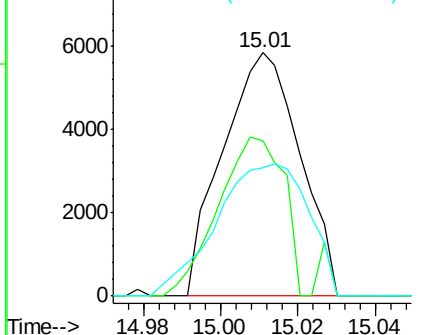


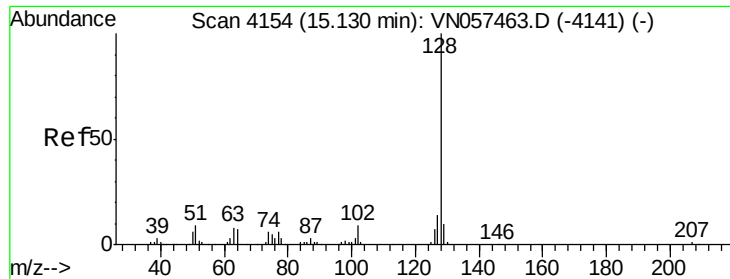
#90
 Hexachlorobutadiene
 Concen: 2.706 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057462.D
 Acq: 23 Aug 2019 9:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.7	0.0	123.6
227	65.4	0.0	126.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 3.586 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Instrument :

MSVOA_N

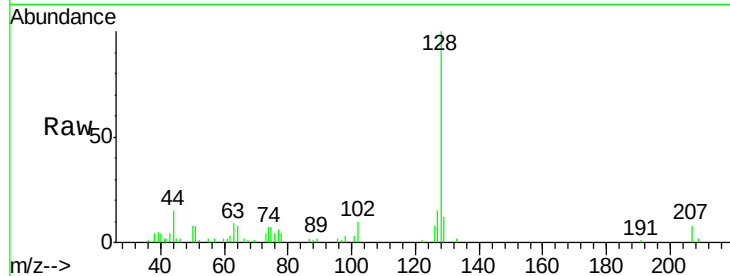
ClientSampleId :

VSTDIC005

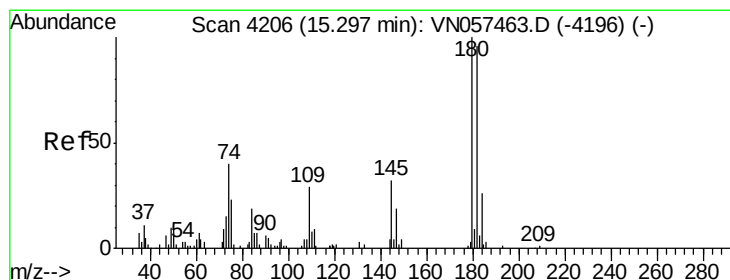
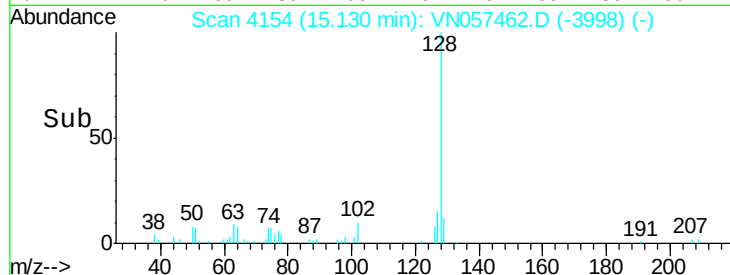
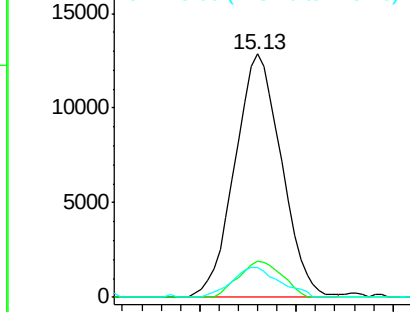
Tot Ion:	128	Resp:	21557
Ion Ratio	Lower	Upper	
128	100		
127	13.8	10.1	15.1
129	12.7	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:11:47 PM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 2.442 ug/l

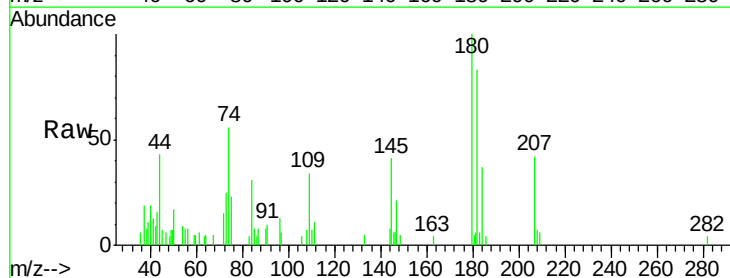
RT: 15.30 min Scan# 4206

Delta R.T. -0.00 min

Lab File: VN057462.D

Acq: 23 Aug 2019 9:12

Tgt Ion:	180	Resp:	6000
Ion Ratio	Lower	Upper	
180	100		
182	93.3	0.0	187.0
145	42.5	0.0	64.4



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

