

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057074.D
 Acq On : 5 Aug 2019 11:32
 Operator : JC/SP
 Sample : VN0805WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 4:09:47 AM

Quant Time: Aug 06 01:33:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	442661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	650448	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	565902	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	209219	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	252249	55.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.34%	
35) Dibromofluoromethane	7.58	113	232855	55.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.84%	
50) Toluene-d8	10.08	98	858457	54.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.12%	
62) 4-Bromofluorobenzene	12.40	95	266850	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.85	85	89727	20.051	ug/l	96
3) Chloromethane	2.05	50	100511	18.757	ug/l	99
4) Vinyl Chloride	2.18	62	94908	18.889	ug/l	99
5) Bromomethane	2.55	94	61790	19.781	ug/l	99
6) Chloroethane	2.69	64	51993	18.771	ug/l	98
7) Trichlorofluoromethane	3.00	101	135026	20.529	ug/l	100
8) Diethyl Ether	3.40	74	51445	20.899	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82097	20.132	ug/l	98
10) Methyl Iodide	3.94	142	82601	15.159	ug/l	99
11) Tert butyl alcohol	4.77	59	63876	104.291	ug/l	99
12) 1,1-Dichloroethene	3.73	96	77378	19.887	ug/l	98
13) Acrolein	3.60	56	20447	63.205	ug/l	99
14) Allyl chloride	4.31	41	125334	19.802	ug/l	99
15) Acrylonitrile	4.97	53	188371	104.876	ug/l	99
16) Acetone	3.81	43	153762	93.667	ug/l	97
17) Carbon Disulfide	4.04	76	181802	17.584	ug/l	100
18) Methyl Acetate	4.31	43	109535	20.917	ug/l	99
19) Methyl tert-butyl Ether	5.03	73	248959	21.459	ug/l	100
20) Methylene Chloride	4.54	84	93746	19.825	ug/l	96
21) trans-1,2-Dichloroethene	5.03	96	83021	20.091	ug/l	98
22) Diisopropyl ether	5.94	45	269958	20.701	ug/l	96
23) Vinyl Acetate	5.88	43	915635	101.338	ug/l	99
24) 1,1-Dichloroethane	5.84	63	157407	20.458	ug/l	100
25) 2-Butanone	6.82	43	232295	99.794	ug/l	96
26) 2,2-Dichloropropane	6.81	77	120020	20.515	ug/l	99
27) cis-1,2-Dichloroethene	6.82	96	99107	20.277	ug/l	99
28) Bromochloromethane	7.18	49	68374	18.906	ug/l	96
29) Tetrahydrofuran	7.20	42	157414	103.648	ug/l	100
30) Chloroform	7.36	83	163470	20.780	ug/l	99
31) Cyclohexane	7.64	56	134642	18.084	ug/l	93
32) 1,1,1-Trichloroethane	7.56	97	133572	21.280	ug/l	99
36) 1,1-Dichloropropene	7.78	75	114931	20.081	ug/l	99
37) Ethyl Acetate	6.92	43	90907	19.831	ug/l	97
38) Carbon Tetrachloride	7.76	117	115848	21.398	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
 Data File : VN057074.D
 Acq On : 5 Aug 2019 11:32
 Operator : JC/SP
 Sample : VN0805WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0805WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 4:09:47 AM

Quant Time: Aug 06 01:33:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	136014	18.594	ug/l	99
40) Benzene	8.03	78	354057	20.084	ug/l	98
41) Methacrylonitrile	7.16	41	43791	20.665	ug/l	96
42) 1,2-Dichloroethane	8.11	62	117722	21.307	ug/l	98
43) Isopropyl Acetate	8.16	43	157139	20.740	ug/l	98
44) Trichloroethene	8.82	130	100942	20.784	ug/l	99
45) 1,2-Dichloropropane	9.11	63	98673	20.926	ug/l	99
46) Dibromomethane	9.20	93	62338	21.922	ug/l	98
47) Bromodichloromethane	9.39	83	119460	21.367	ug/l	98
48) Methyl methacrylate	9.19	41	75659	20.683	ug/l	97
49) 1,4-Dioxane	9.19	88	32366	429.356	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	467495	103.848	ug/l	100
52) Toluene	10.15	92	220511	20.820	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	119597	20.614	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	140741	20.864	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	89689	21.116	ug/l	99
56) Ethyl methacrylate	10.42	69	122532	20.190	ug/l	97
57) 1,3-Dichloropropane	10.70	76	148817	21.129	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	209793	82.423	ug/l	98
59) 2-Hexanone	10.74	43	322677	94.646	ug/l	100
60) Dibromochloromethane	10.90	129	95017	21.835	ug/l	98
61) 1,2-Dibromoethane	11.00	107	90775	21.899	ug/l	99
64) Tetrachloroethene	10.63	164	103385	21.200	ug/l	98
65) Chlorobenzene	11.43	112	236959	20.545	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	92473	21.301	ug/l	99
67) Ethyl Benzene	11.51	91	407640	20.449	ug/l	99
68) m/p-Xylenes	11.62	106	305153	41.479	ug/l	100
69) o-Xylene	11.94	106	147661	20.516	ug/l	100
70) Styrene	11.96	104	238275	19.897	ug/l	99
71) Bromoform	12.12	173	64535	21.293	ug/l #	99
73) Isopropylbenzene	12.25	105	404855	22.390	ug/l	99
74) N-amyl acetate	12.07	43	111065	21.154	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	115509	23.943	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	102763m	24.186	ug/l	
77) Bromobenzene	12.52	156	104132	22.066	ug/l	98
78) n-propylbenzene	12.59	91	413659	21.426	ug/l	99
79) 2-Chlorotoluene	12.67	91	256261	21.556	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	333535	22.475	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	28864	21.827	ug/l	95
82) 4-Chlorotoluene	12.77	91	237005	21.304	ug/l	100
83) tert-Butylbenzene	12.99	119	296580	22.576	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	320987	22.479	ug/l	100
85) sec-Butylbenzene	13.17	105	365065	21.544	ug/l	99
86) p-Isopropyltoluene	13.29	119	324511	21.570	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	148210	20.647	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	141153	20.426	ug/l	100
89) n-Butylbenzene	13.61	91	229063	19.756	ug/l	98
90) Hexachloroethane	13.87	117	56693	21.885	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	150420	21.291	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.26	75	15020	20.885	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080519\
Data File : VN057074.D
Acq On : 5 Aug 2019 11:32
Operator : JC/SP
Sample : VN0805WBSD01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

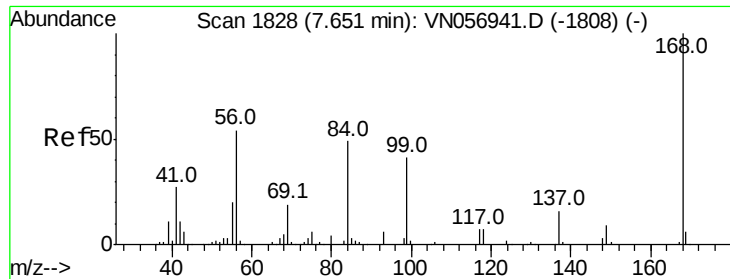
Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM

Quant Time: Aug 06 01:33:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	48559	15.312	ug/l	99
94) Hexachlorobutadiene	15.00	225	61431	23.106	ug/l	96
95) Naphthalene	15.12	128	119337	16.049	ug/l	99
96) 1,2,3-Trichlorobenzene	15.29	180	59670	17.587	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion:168 Resp: 442661

Ion Ratio Lower Upper

168 100

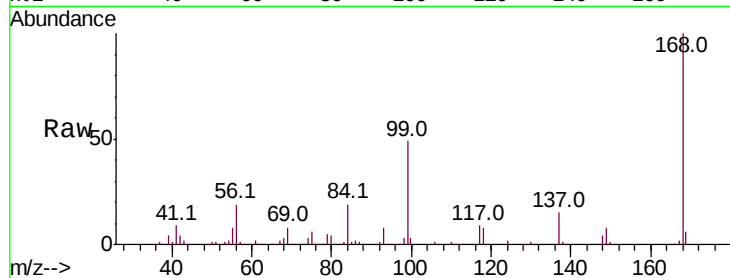
99 49.1 39.0 58.4

Manual Integrations

APPROVED

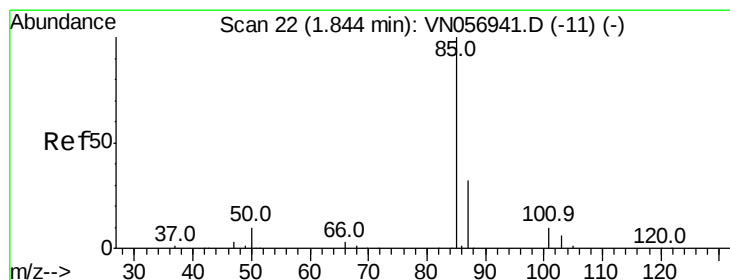
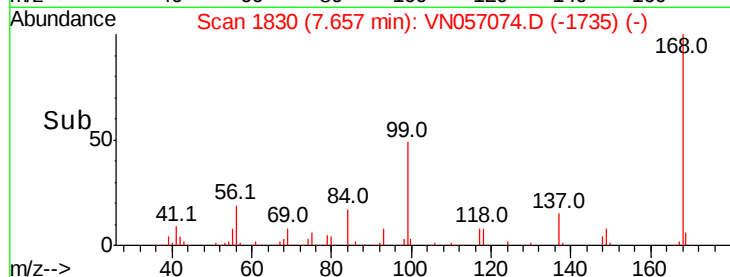
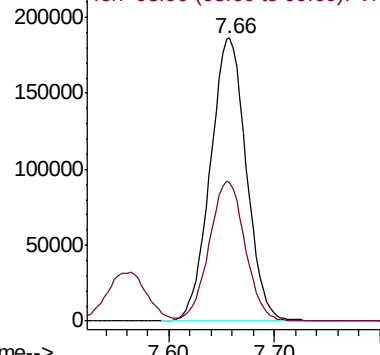
MMDadoda

8/7/2019 4:09:47 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 20.051 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN057074.D

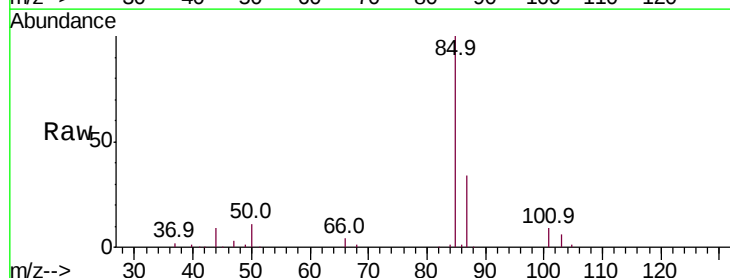
Acq: 5 Aug 2019 11:32

Tgt Ion: 85 Resp: 89727

Ion Ratio Lower Upper

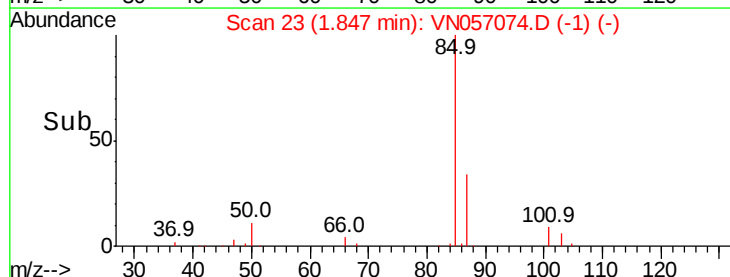
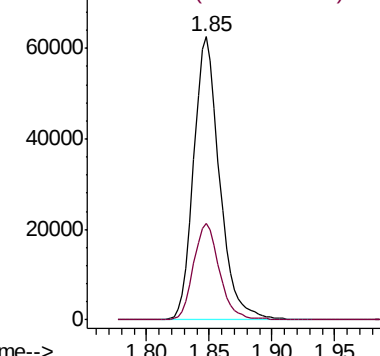
85 100

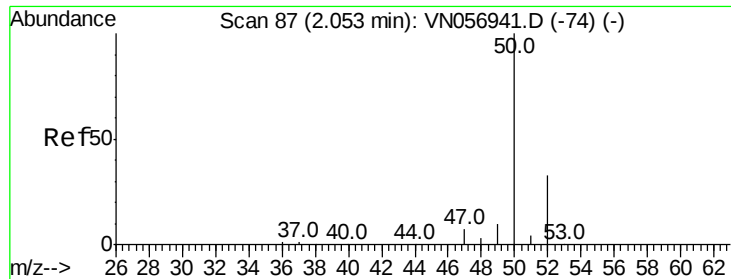
87 33.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.757 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 50 Resp: 100511

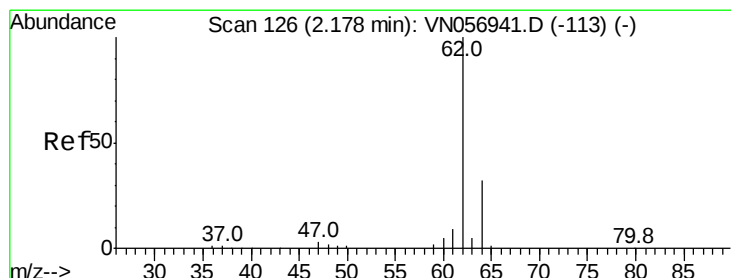
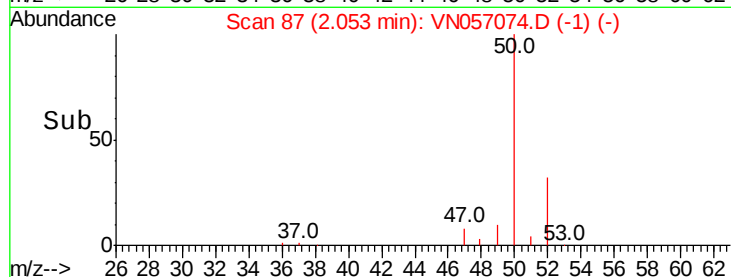
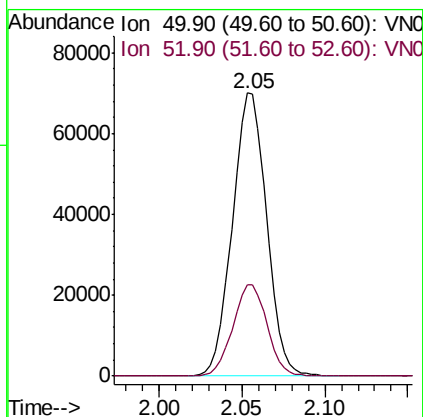
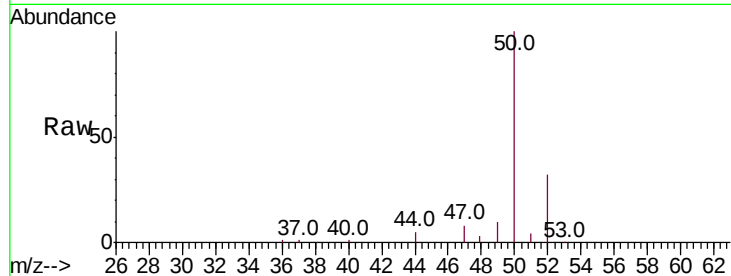
Ion Ratio Lower Upper

50 100

52 32.1 26.2 39.2

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#4

Vinyl Chloride

Concen: 18.889 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057074.D

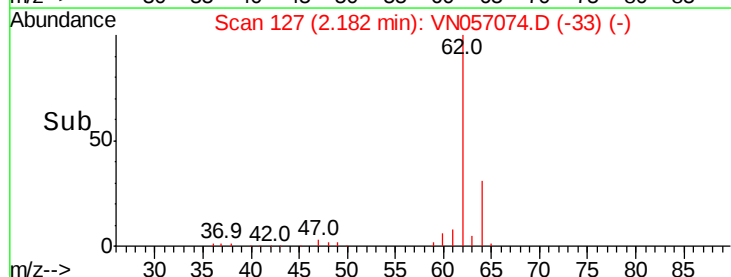
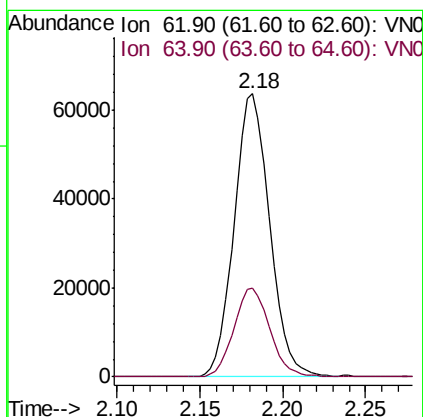
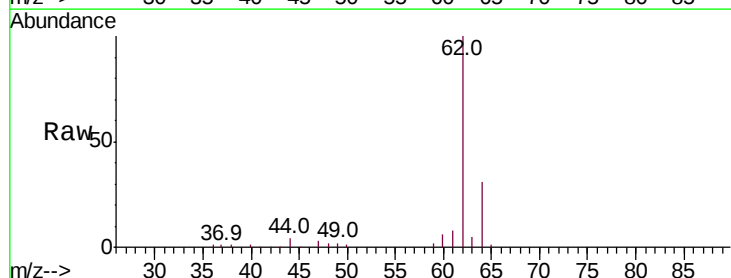
Acq: 5 Aug 2019 11:32

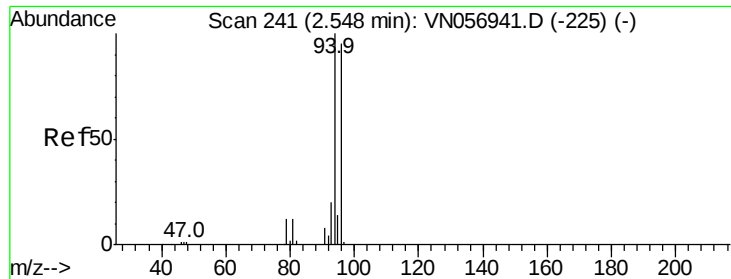
Tgt Ion: 62 Resp: 94908

Ion Ratio Lower Upper

62 100

64 31.3 25.4 38.0





#5

Bromomethane

Concen: 19.781 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 94 Resp: 61790

Ion Ratio Lower Upper

94 100

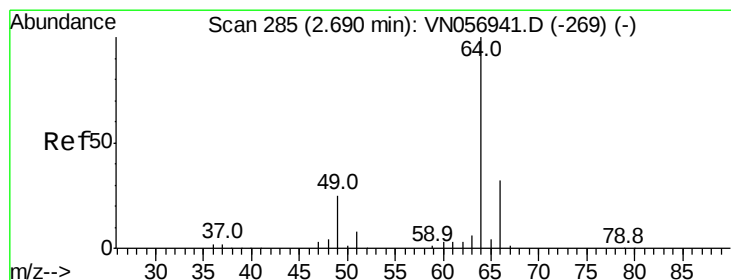
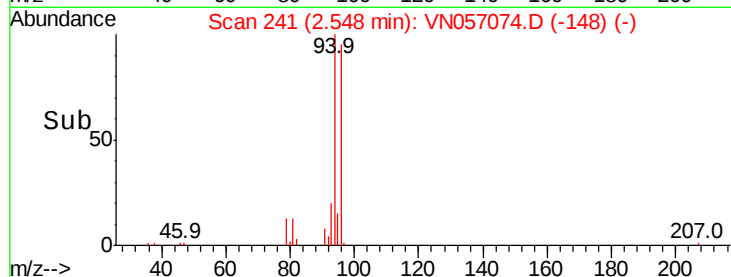
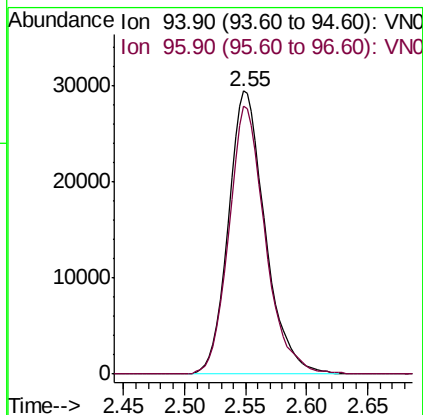
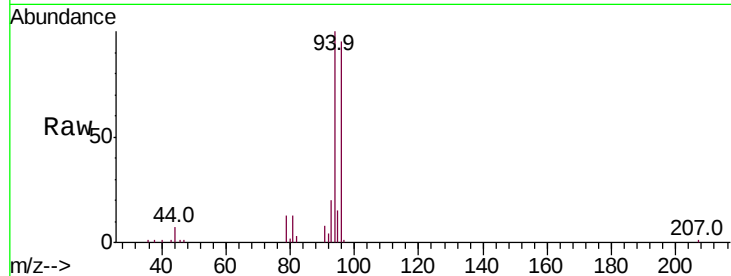
96 94.7 76.2 114.2

Manual Integrations

APPROVED

MMDadoda

8/7/2019 4:09:47 AM



#6

Chloroethane

Concen: 18.771 ug/l

RT: 2.69 min Scan# 286

Delta R.T. 0.00 min

Lab File: VN057074.D

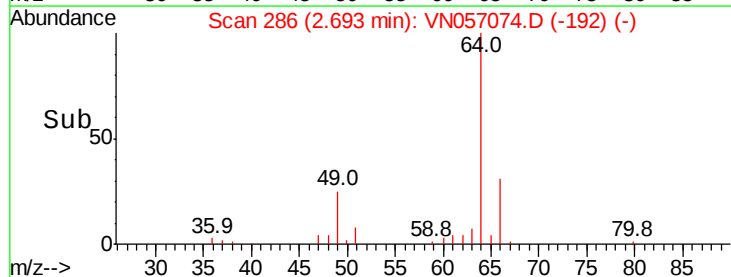
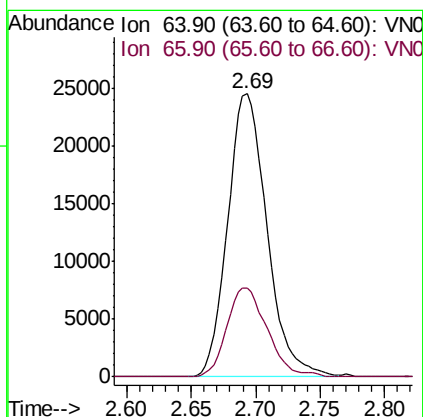
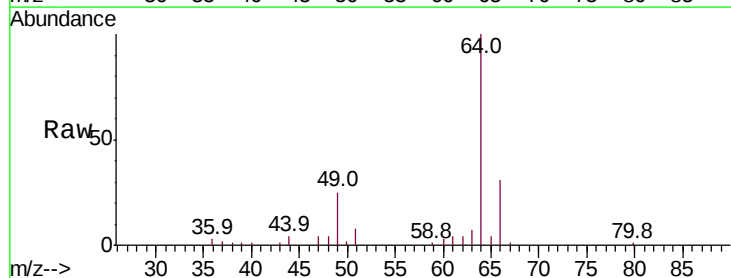
Acq: 5 Aug 2019 11:32

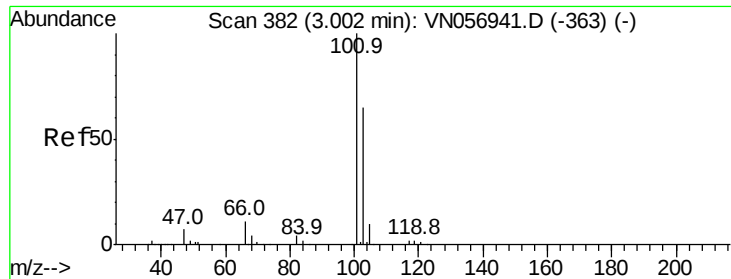
Tgt Ion: 64 Resp: 51993

Ion Ratio Lower Upper

64 100

66 31.4 25.8 38.8





#7

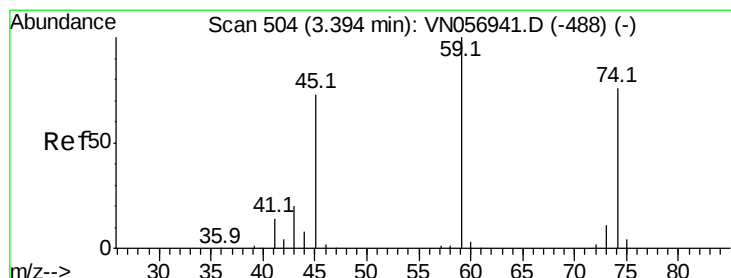
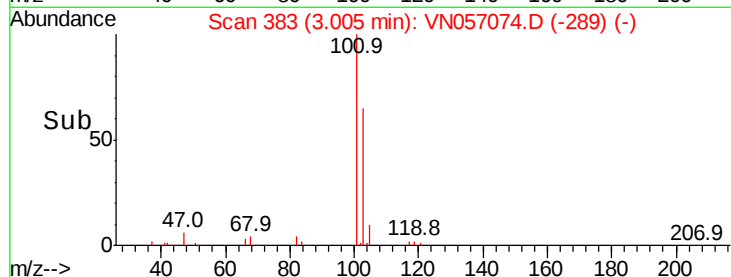
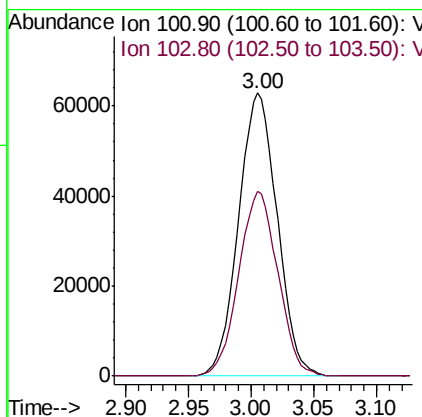
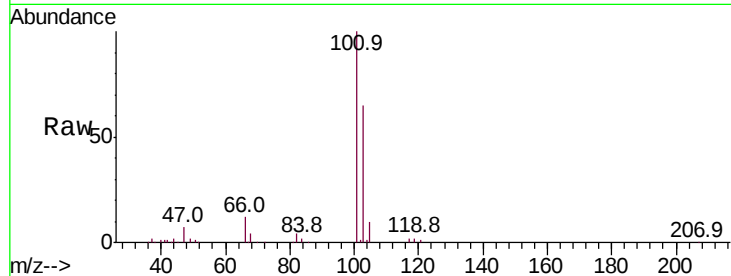
Trichlorofluoromethane
 Concen: 20.529 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Instrument :
 MSVOA_N
 ClientSampled :
 VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.1	78.1

Manual Integrations
 APPROVED

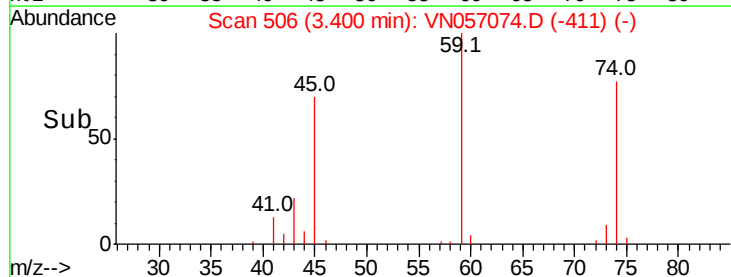
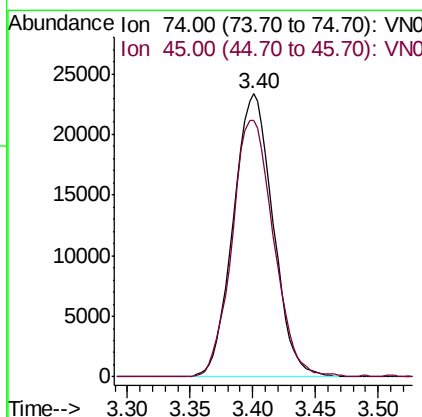
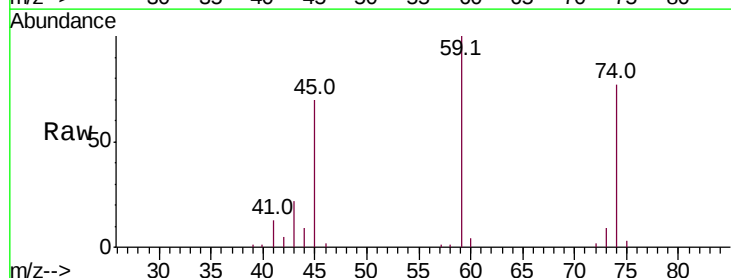
MMDadoda
 8/7/2019 4:09:47 AM

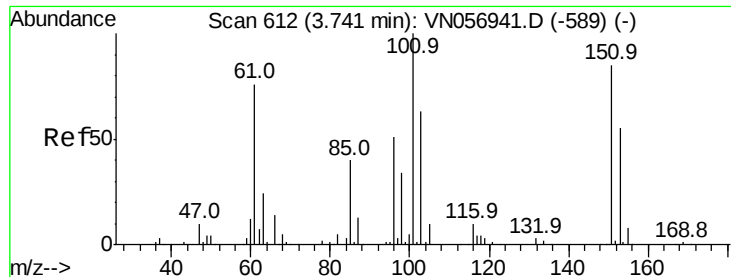


#8

Diethyl Ether
 Concen: 20.899 ug/l
 RT: 3.40 min Scan# 506
 Delta R.T. 0.01 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.6	48.1	144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.132 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

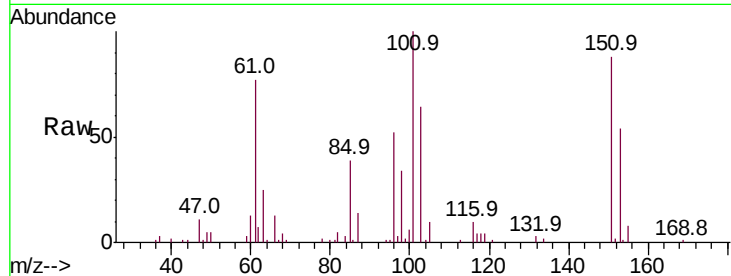
ClientSampleId :

VN0805WBSD01

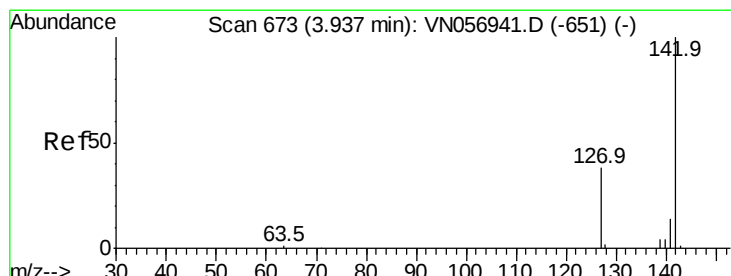
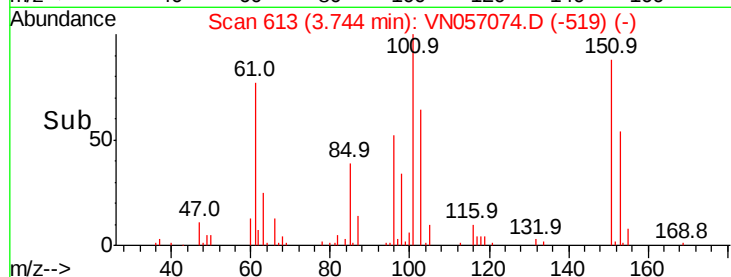
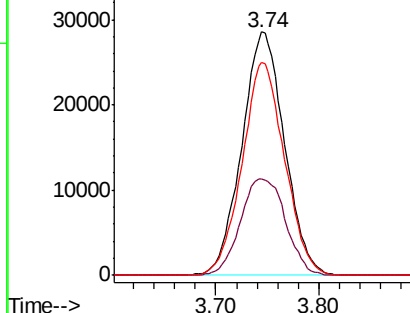
Tot Ion:	101	Resp:	82097
Ion Ratio	Lower	Upper	
101	100		
85	41.7	32.3	48.5
151	86.9	68.0	102.0

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 15.159 ug/l

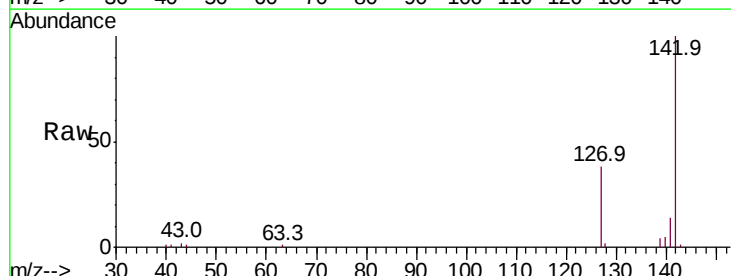
RT: 3.94 min Scan# 674

Delta R.T. 0.00 min

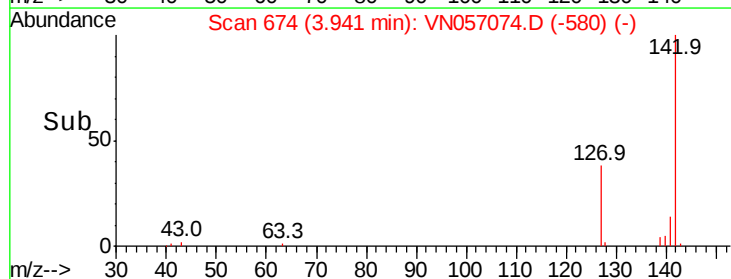
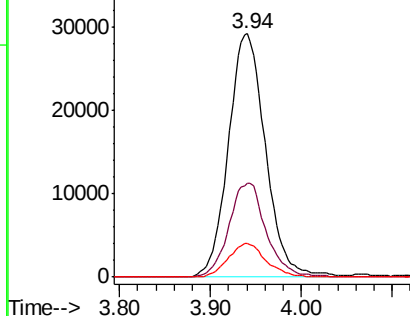
Lab File: VN057074.D

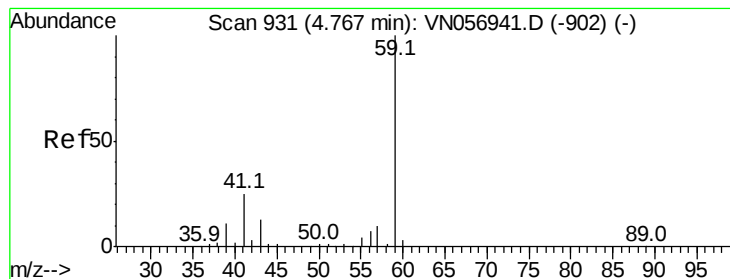
Acq: 5 Aug 2019 11:32

Tgt Ion:	142	Resp:	82601
Ion Ratio	Lower	Upper	
142	100		
127	38.7	30.4	45.6
141	14.0	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

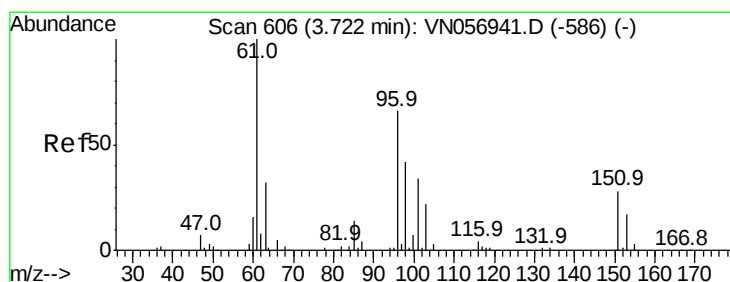
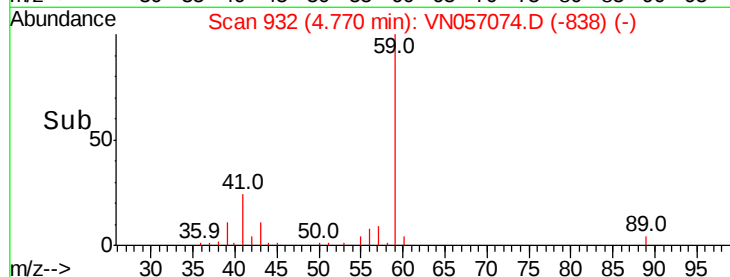
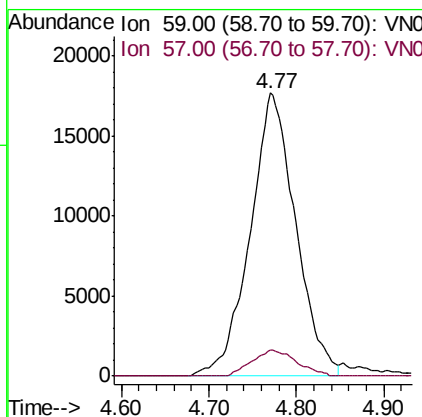
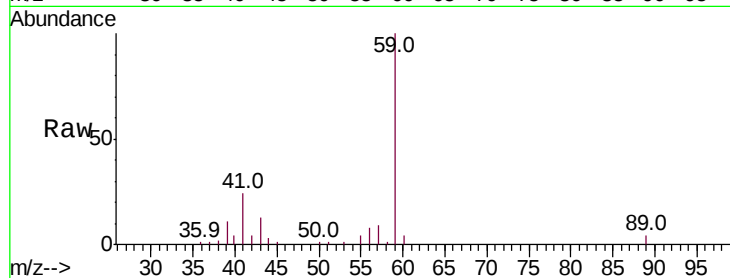
Tert butyl alcohol
Concen: 104.291 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.1	7.5	11.3

Manual Integrations
APPROVED

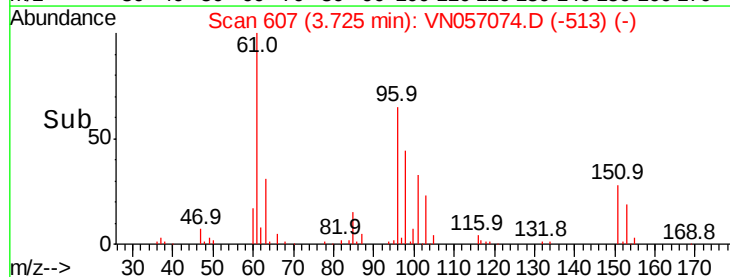
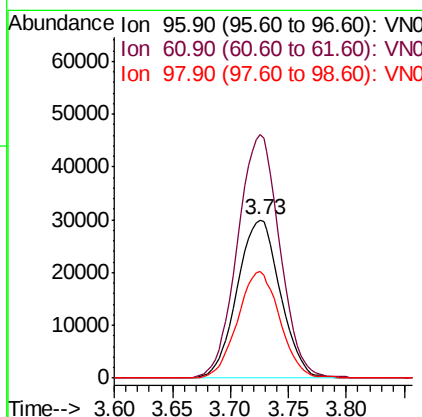
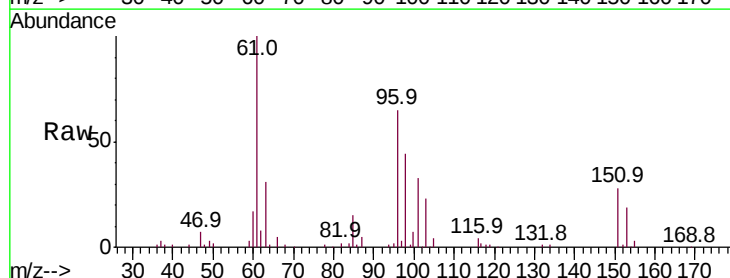
MMDadoda
8/7/2019 4:09:47 AM

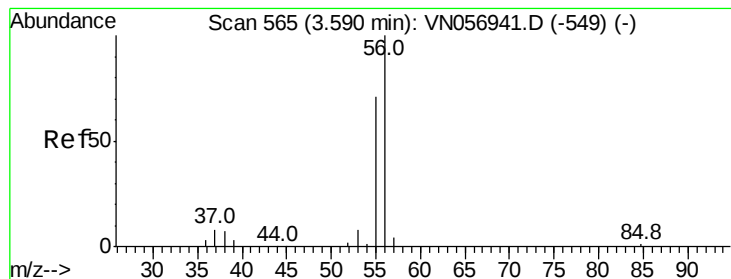


#12

1,1-Dichloroethene
Concen: 19.887 ug/l
RT: 3.73 min Scan# 607
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.7	121.8	182.8
98	67.3	51.7	77.5





#13

Acrolein

Concen: 63.205 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 56 Resp: 20447

Ion Ratio Lower Upper

56 100

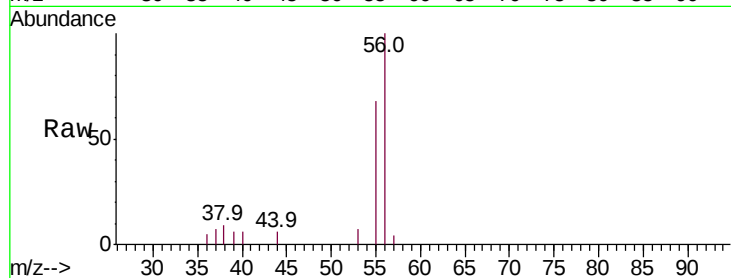
55 68.9 55.8 83.6

Manual Integrations

APPROVED

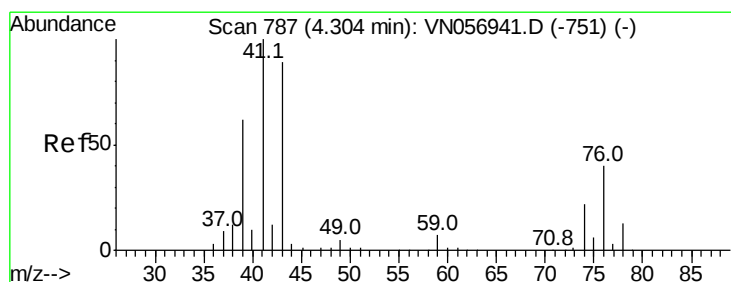
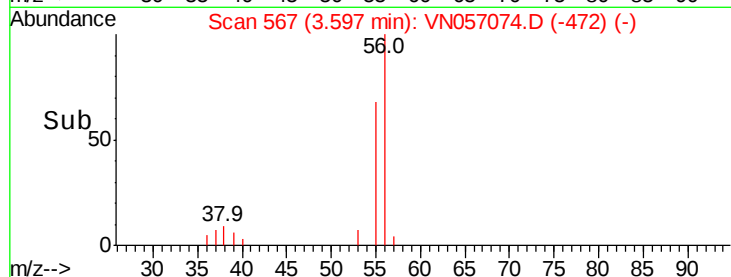
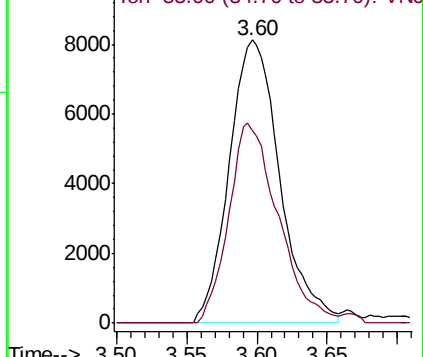
MMDadoda

8/7/2019 4:09:47 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 19.802 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

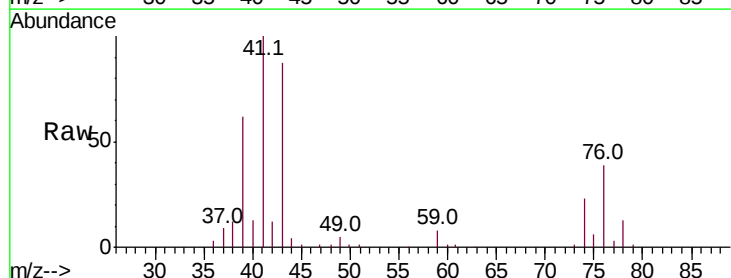
Tgt Ion: 41 Resp: 125334

Ion Ratio Lower Upper

41 100

39 59.0 46.4 69.6

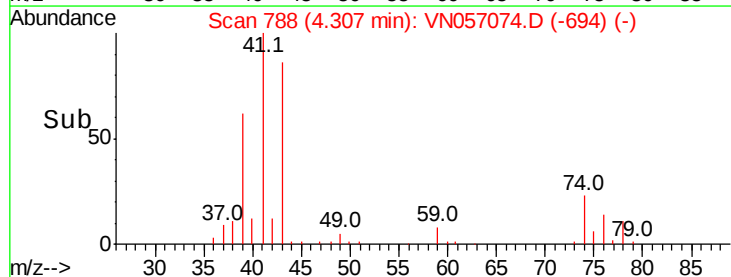
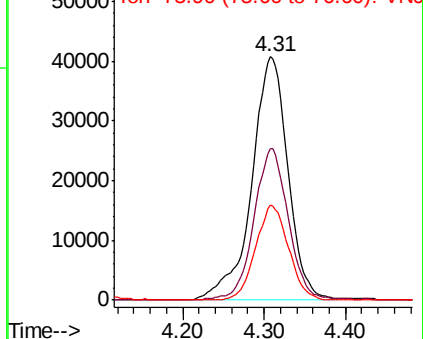
76 35.5 28.4 42.6

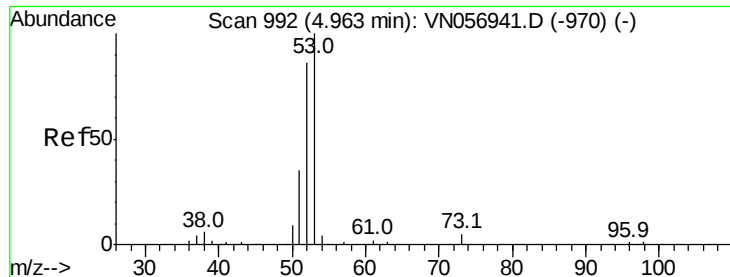


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 104.876 ug/l

RT: 4.97 min Scan# 995

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

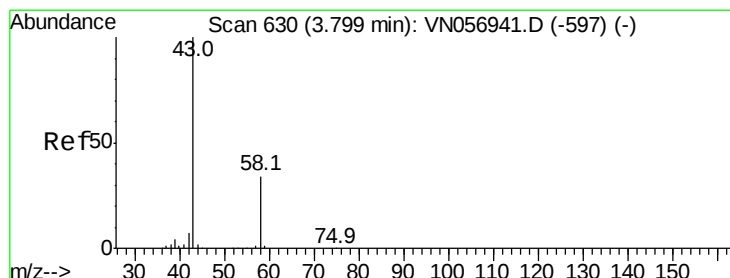
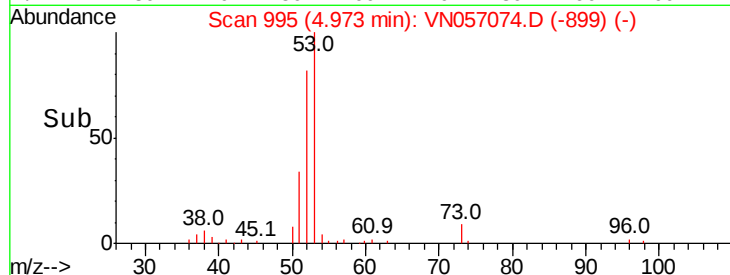
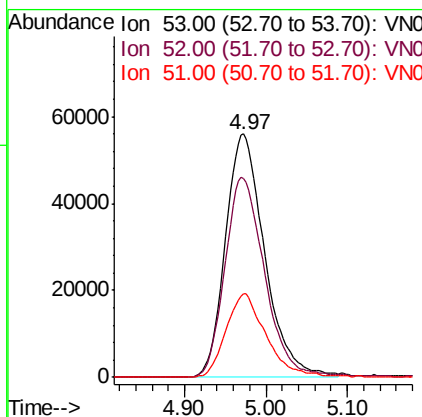
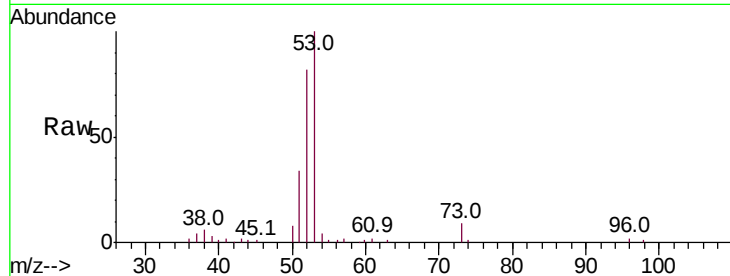
ClientSampled :

VN0805WBSD01

Tot Ion:	53	Resp:	188371
Ion Ratio	Lower	Upper	
53	100		
52	83.7	66.5	99.7
51	34.4	28.4	42.6

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#16

Acetone

Concen: 93.667 ug/l

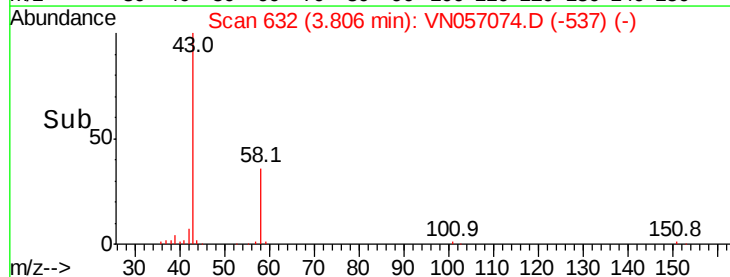
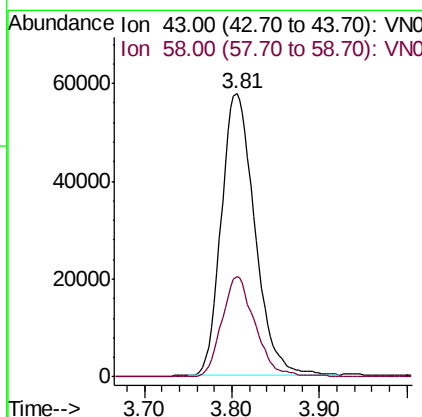
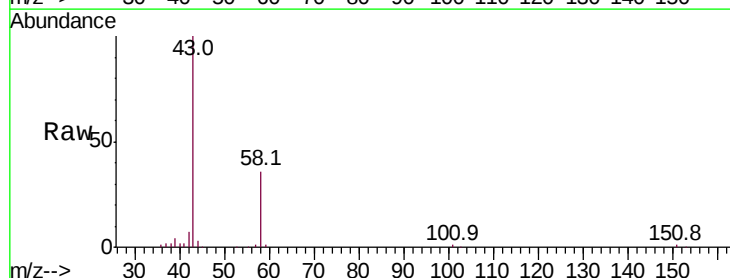
RT: 3.81 min Scan# 632

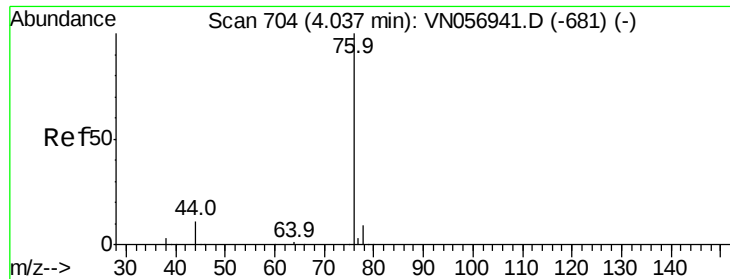
Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	43	Resp:	153762
Ion Ratio	Lower	Upper	
43	100		
58	35.7	27.2	40.8





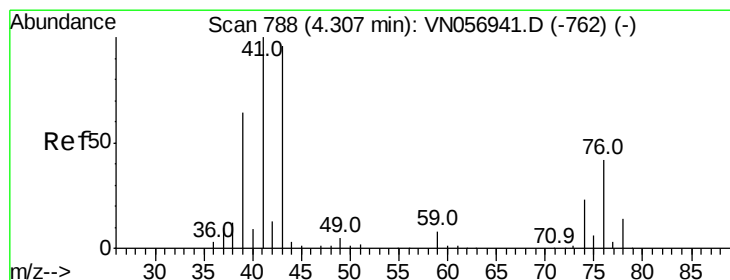
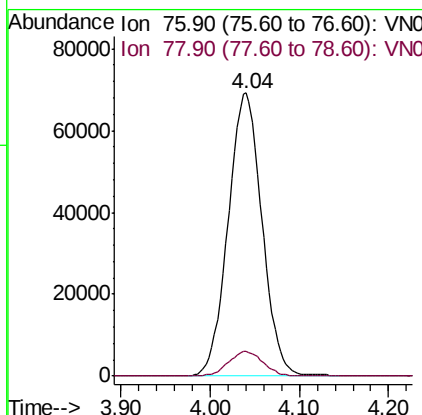
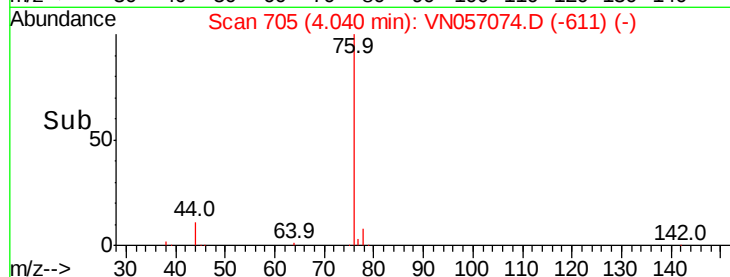
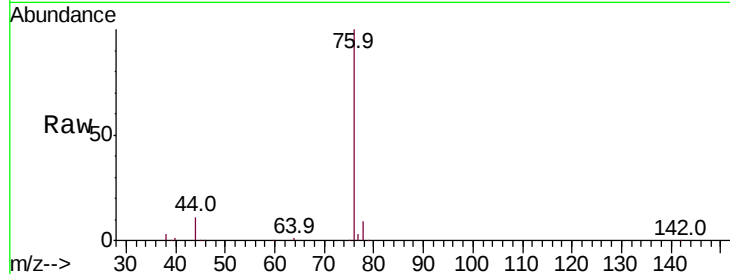
#17
Carbon Disulfide
Concen: 17.584 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

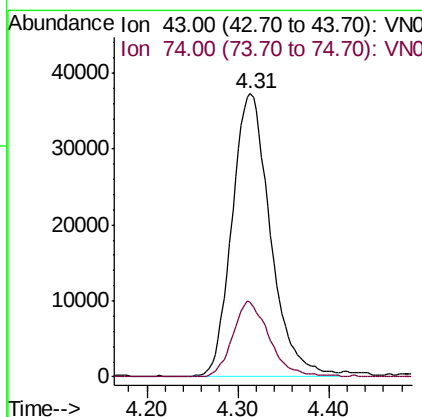
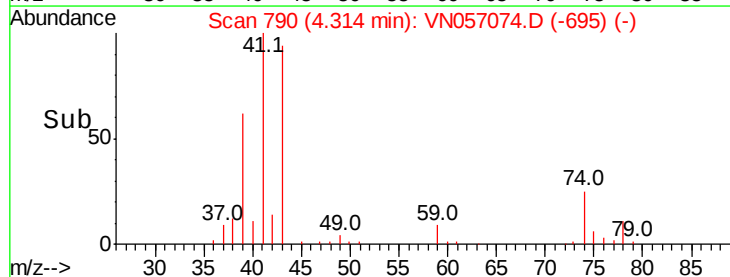
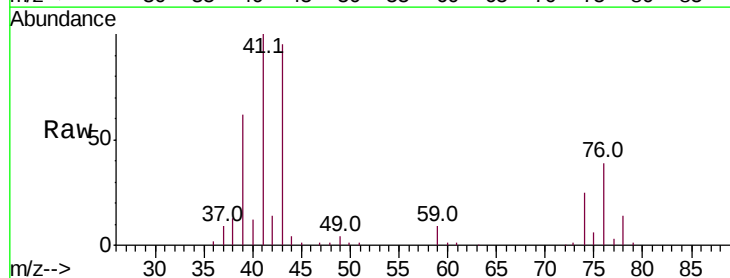
Manual Integrations
APPROVED

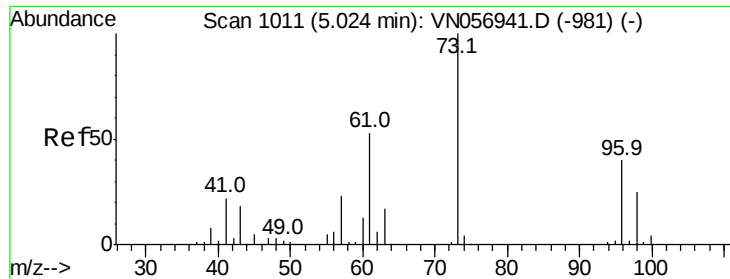
MMDadoda
8/7/2019 4:09:47 AM



#18
Methyl Acetate
Concen: 20.917 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.3	19.7	29.5





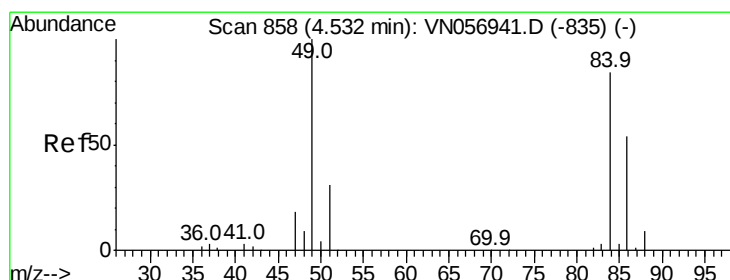
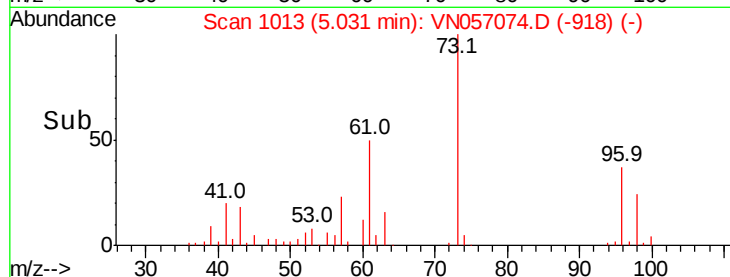
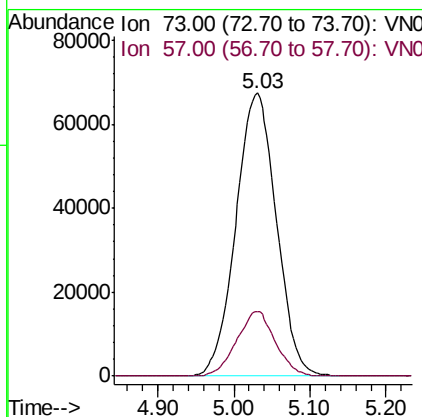
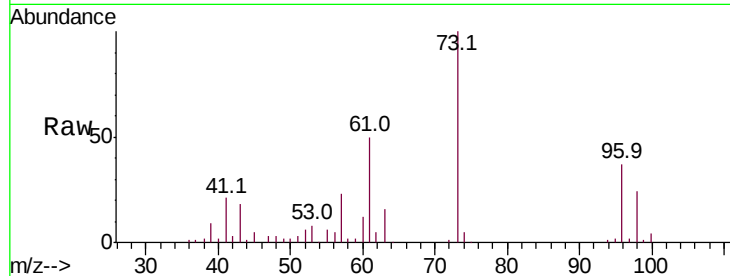
#19
Methvl tert-butvl Ether
Concen: 21.459 ug/l
RT: 5.03 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion: 73 Resp: 248959
Ion Ratio Lower Upper
73 100
57 22.9 18.3 27.5

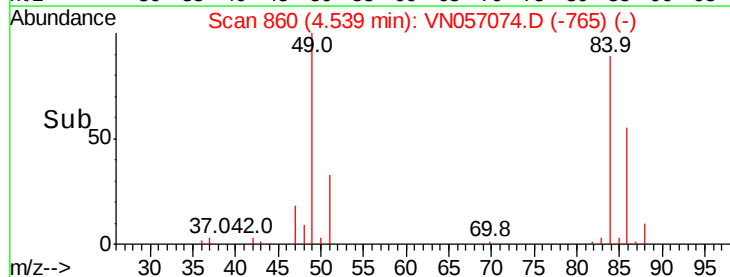
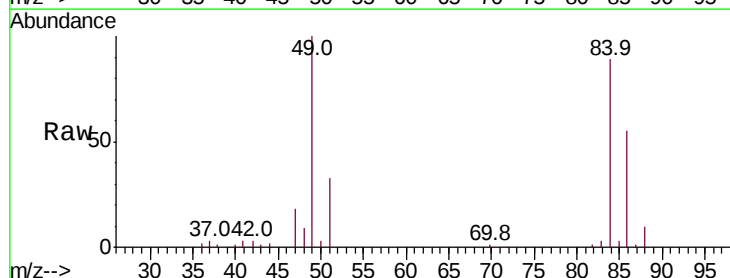
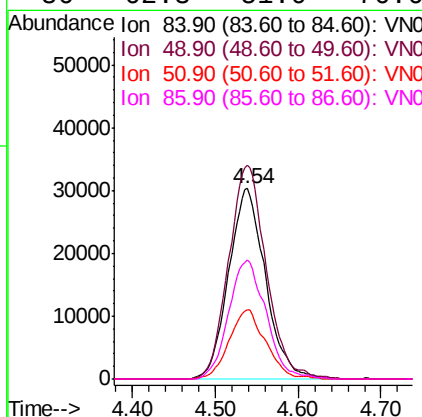
Manual Integrations
APPROVED

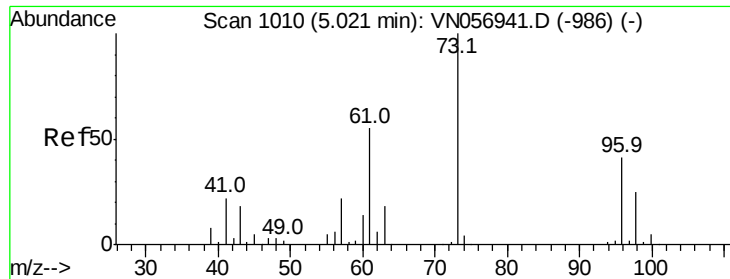
MMDadoda
8/7/2019 4:09:47 AM



#20
Methylene Chloride
Concen: 19.825 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion: 84 Resp: 93746
Ion Ratio Lower Upper
84 100
49 112.3 95.2 142.8
51 36.7 29.7 44.5
86 62.3 51.0 76.6





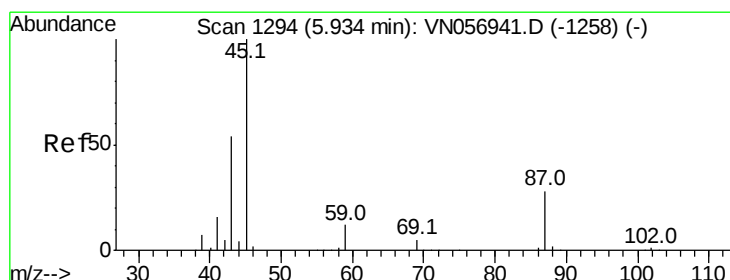
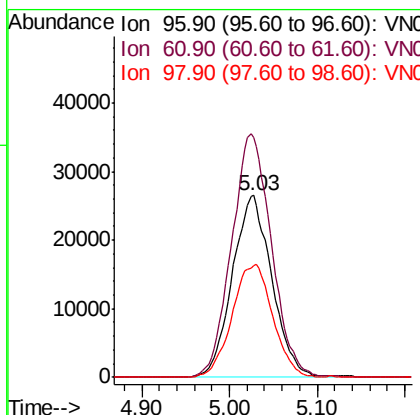
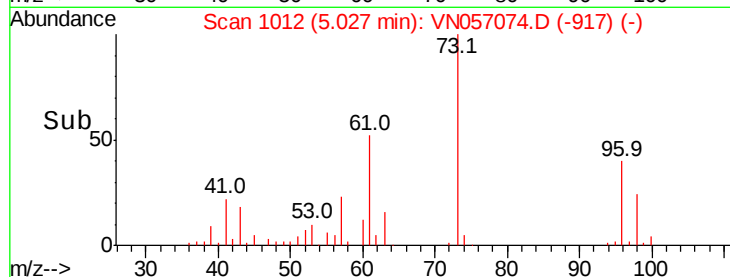
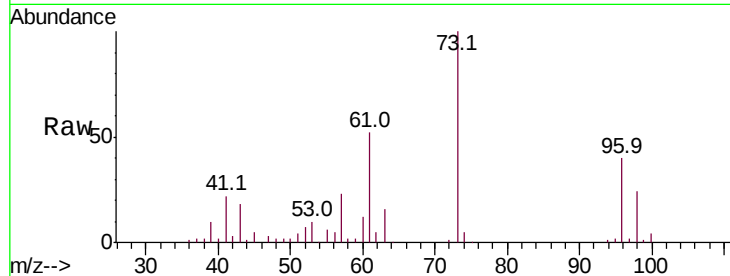
#21
trans-1,2-Dichloroethene
Concen: 20.091 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	107.5	161.3
98	61.6	49.9	74.9

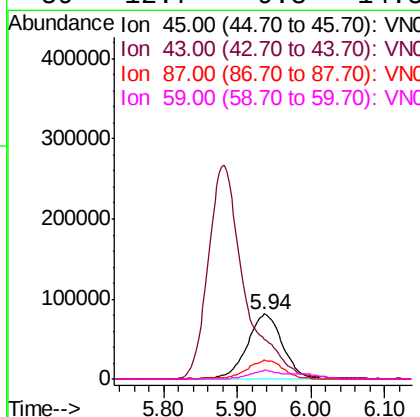
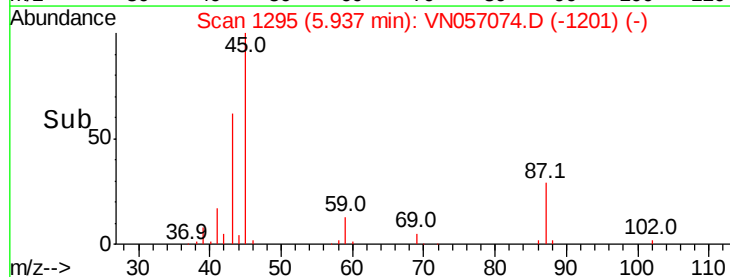
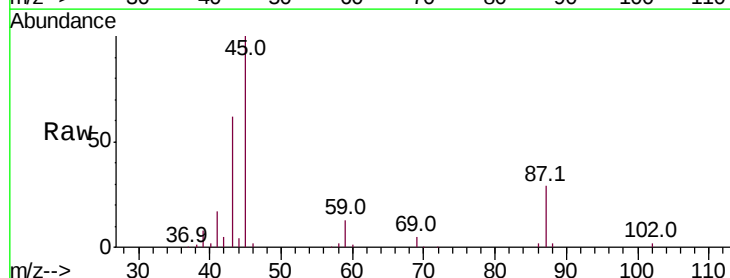
Manual Integrations
APPROVED

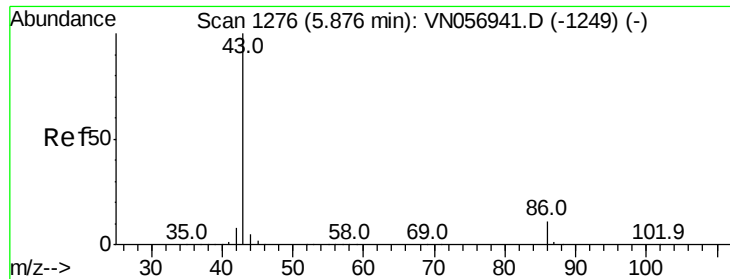
MMDadoda
8/7/2019 4:09:47 AM



#22
Diisopropyl ether
Concen: 20.701 ug/l
RT: 5.94 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.1	44.7	67.1
87	28.7	23.0	34.6
59	12.7	9.8	14.8





#23

Vinyl Acetate

Concen: 101.338 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 43 Resp: 915635

Ion Ratio Lower Upper

43 100

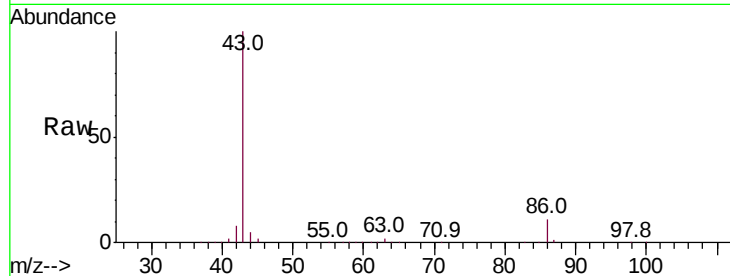
86 11.1 8.5 12.7

Manual Integrations

APPROVED

MMDadoda

8/7/2019 4:09:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

300000

250000

200000

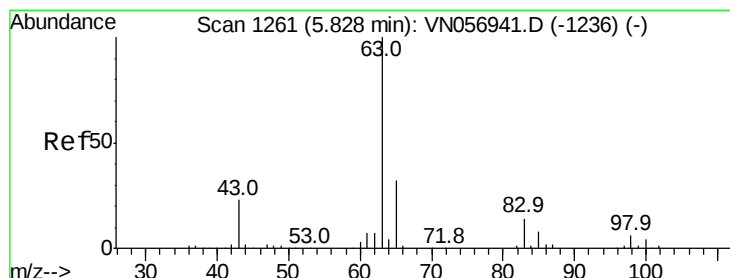
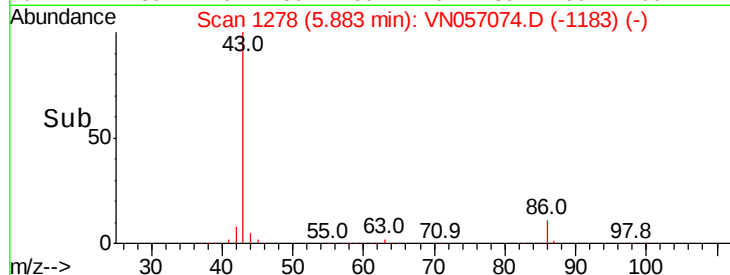
150000

100000

50000

0

Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 20.458 ug/l

RT: 5.84 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

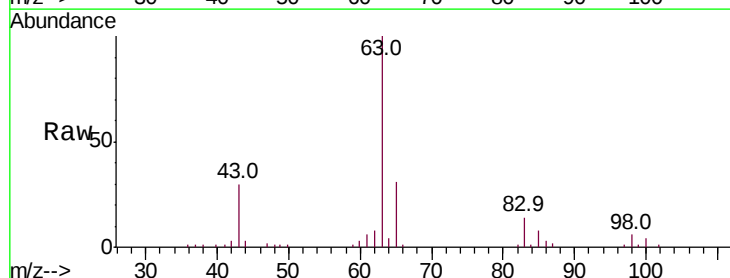
Tgt Ion: 63 Resp: 157407

Ion Ratio Lower Upper

63 100

98 6.3 3.2 9.6

100 4.2 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

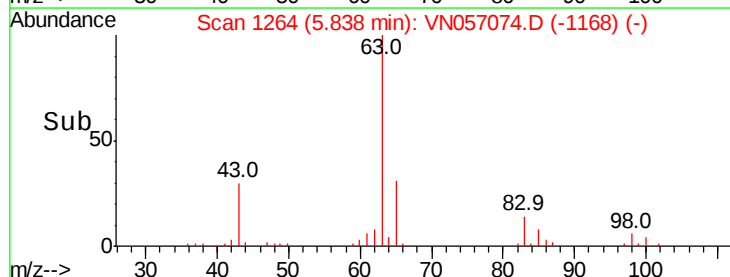
60000

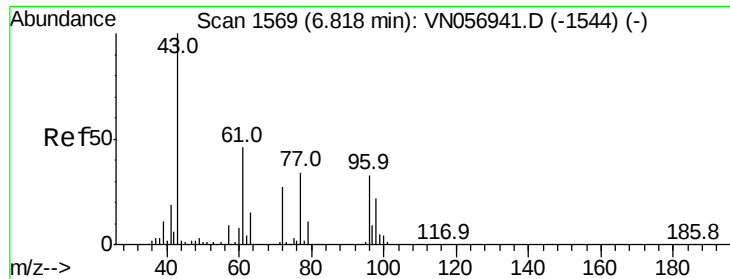
40000

20000

0

Time--> 5.70 5.80 5.90





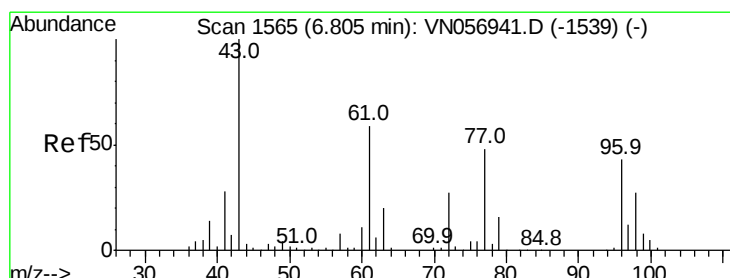
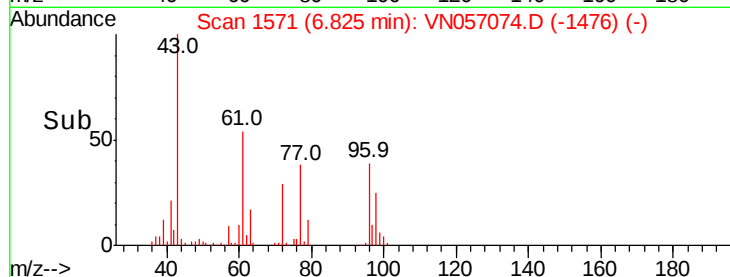
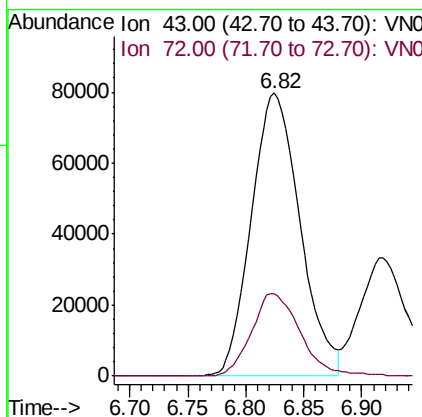
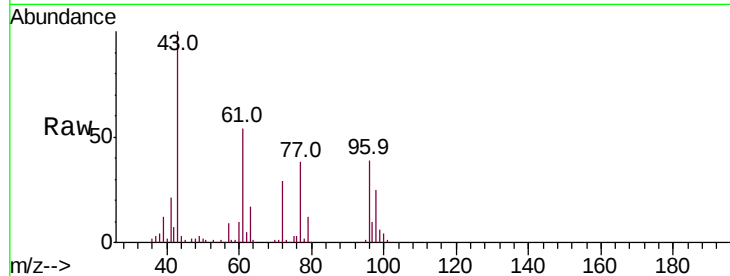
#25
2-Butanone
Concen: 99.794 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion: 43 Resp: 232295
Ion Ratio Lower Upper
43 100
72 29.1 21.5 32.3

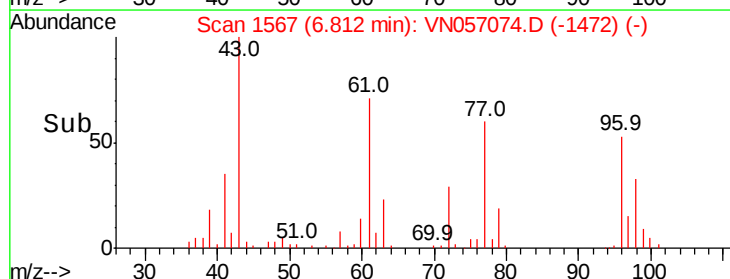
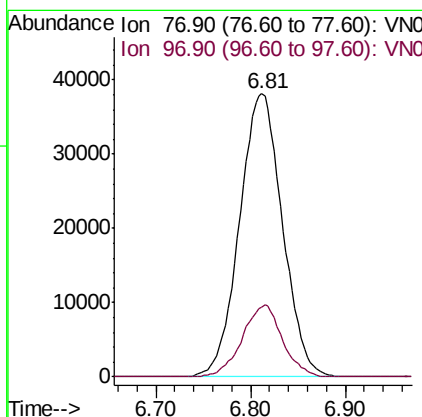
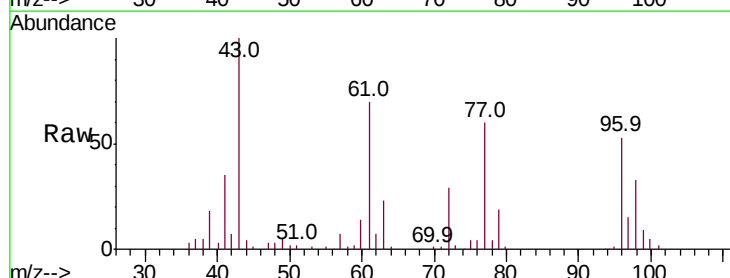
Manual Integrations
APPROVED

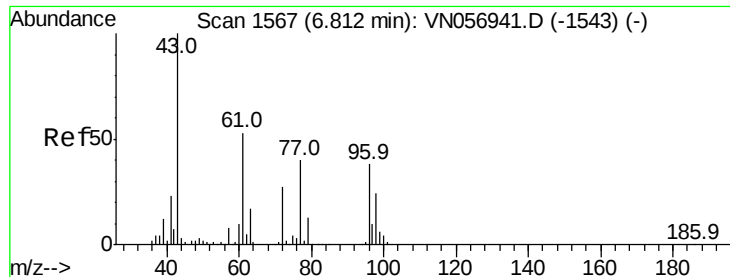
MMDadoda
8/7/2019 4:09:47 AM



#26
2,2-Dichloropropane
Concen: 20.515 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion: 77 Resp: 120020
Ion Ratio Lower Upper
77 100
97 23.8 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 20.277 ug/l

RT: 6.82 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN057074.D

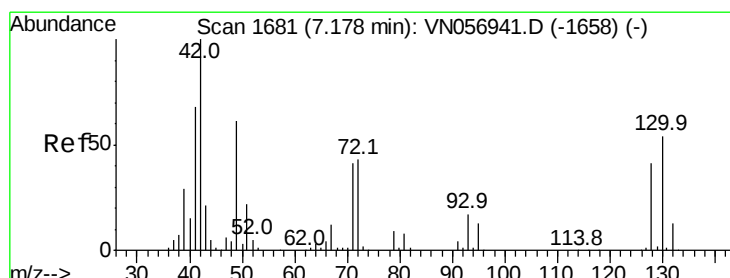
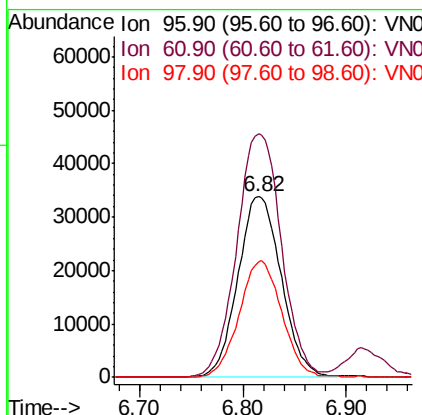
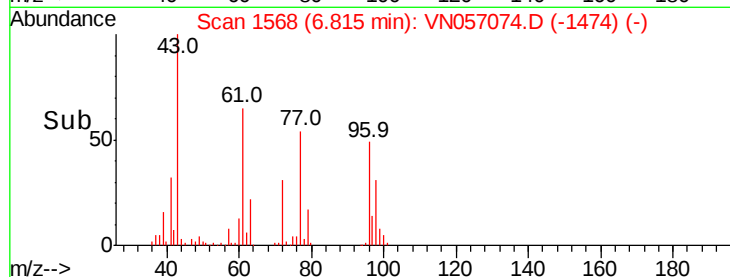
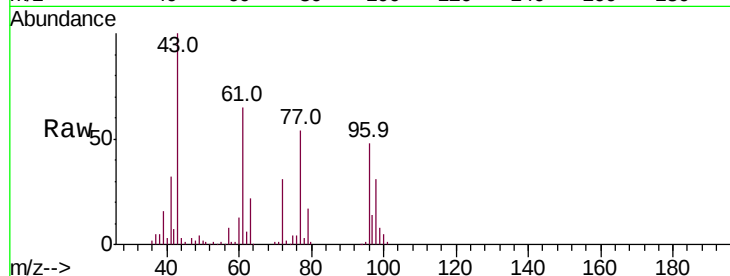
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	138.4	0.0	277.2	
98	63.2	0.0	128.4	

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#28

Bromochloromethane

Concen: 18.906 ug/l

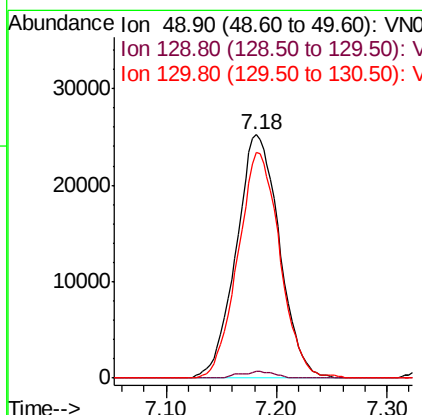
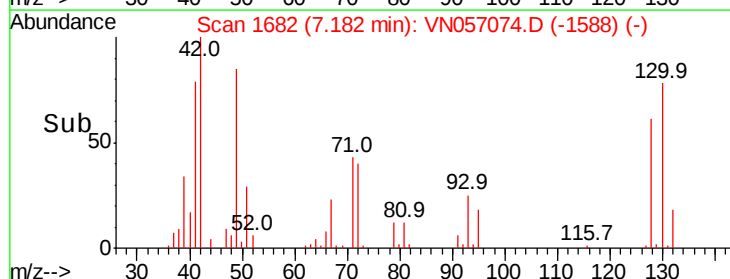
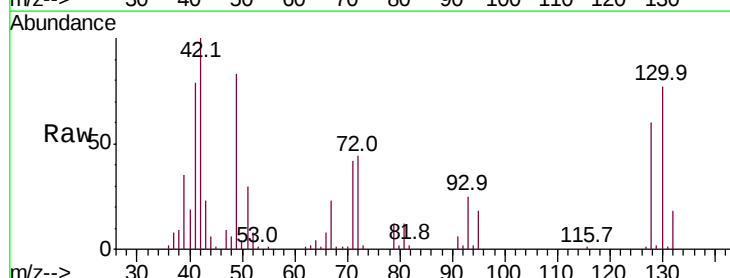
RT: 7.18 min Scan# 1682

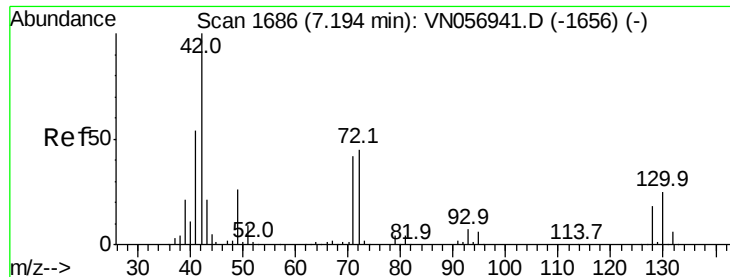
Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.6	
130	90.2	69.0	103.4	





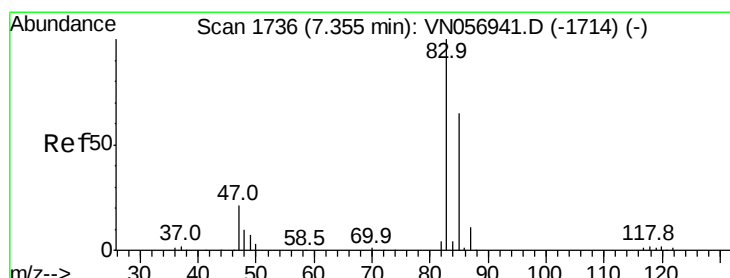
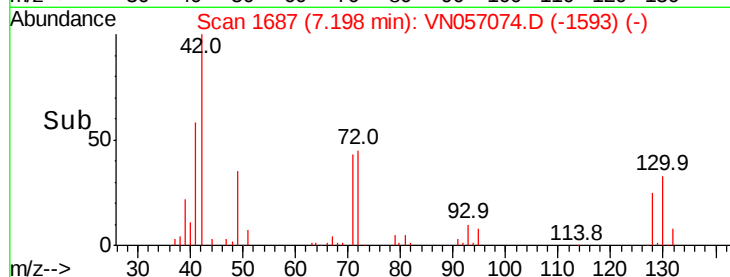
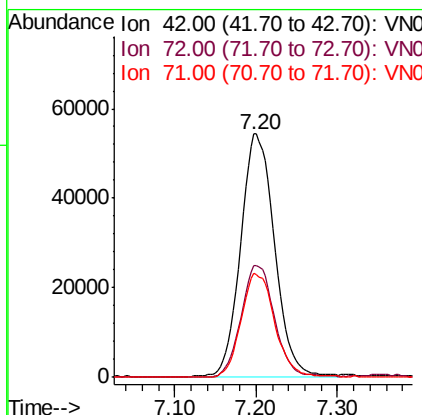
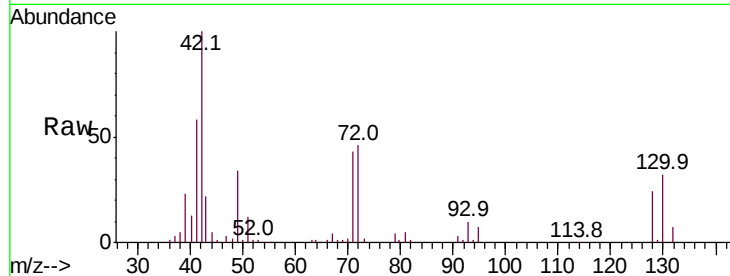
#29
Tetrahydrofuran
Concen: 103.648 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampled :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.5	35.6	53.4
71	42.0	33.5	50.3

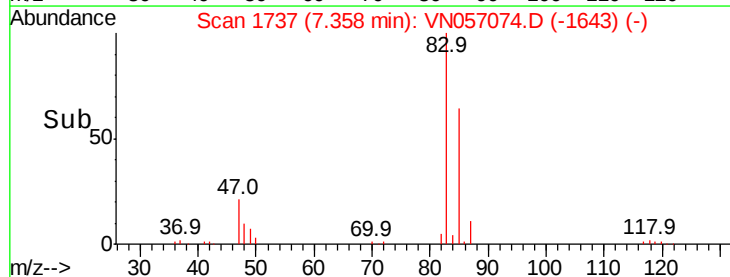
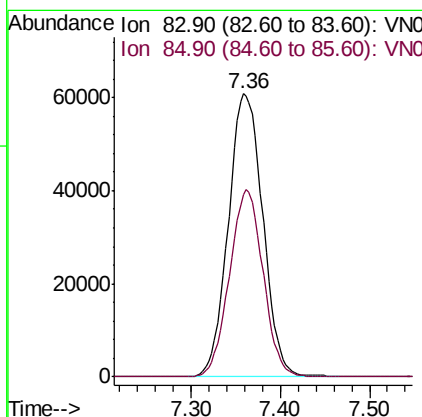
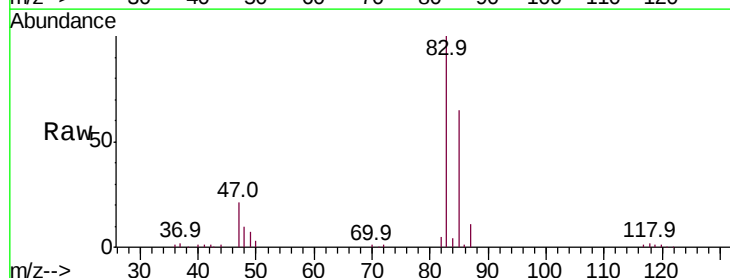
Manual Integrations
APPROVED

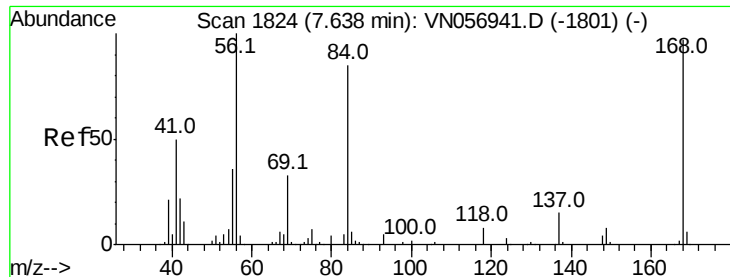
MMDadoda
8/7/2019 4:09:47 AM



#30
Chloroform
Concen: 20.780 ug/l
RT: 7.36 min Scan# 1737
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.2





#31

Cyclohexane

Concen: 18.084 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

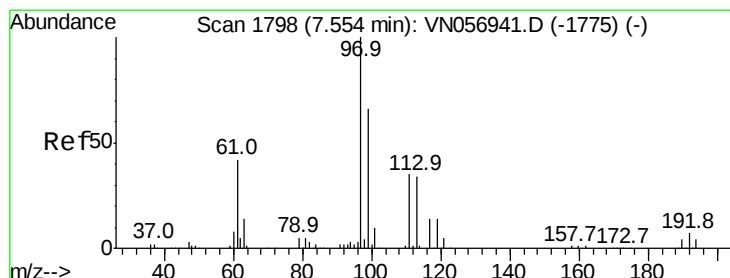
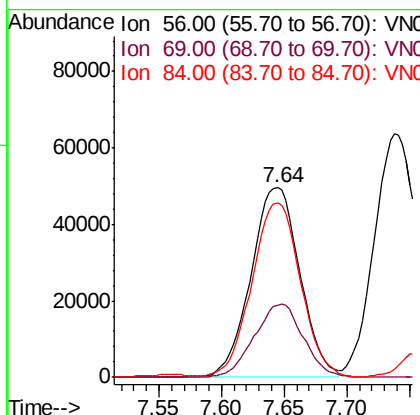
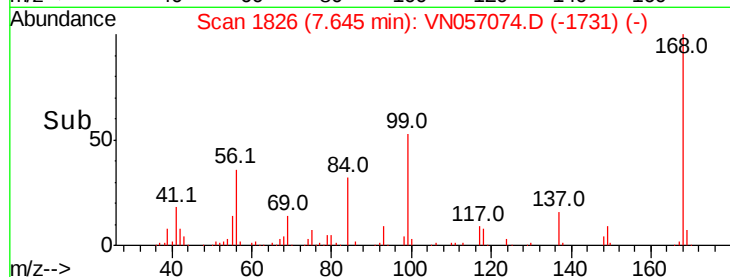
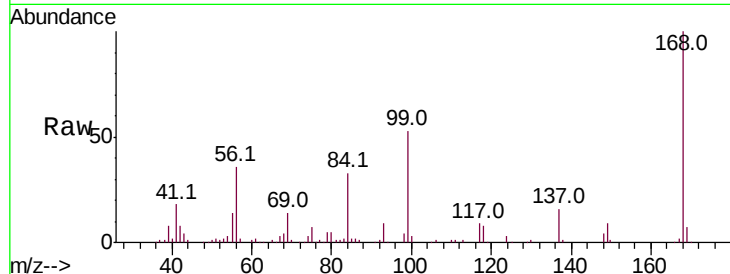
ClientSampleId :

VN0805WBSD01

Tot Ion:	56	Resp:	134642
Ion	Ratio	Lower	Upper
56	100		
69	37.8	26.2	39.2
84	91.1	68.2	102.2

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#32

1,1,1-Trichloroethane

Concen: 21.280 ug/l

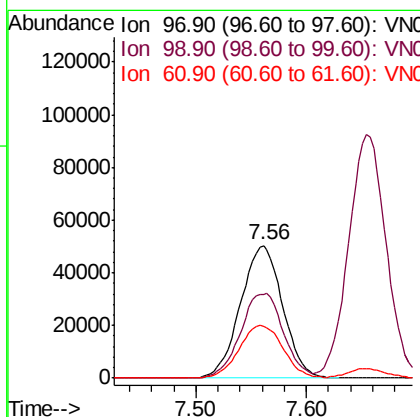
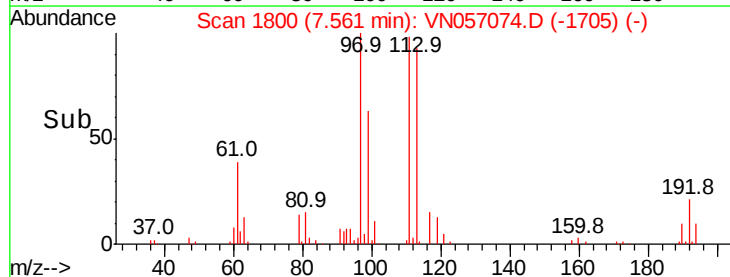
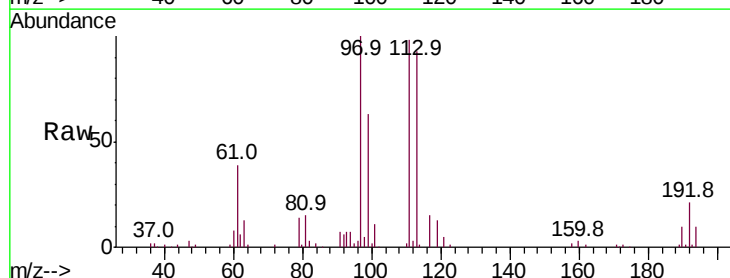
RT: 7.56 min Scan# 1800

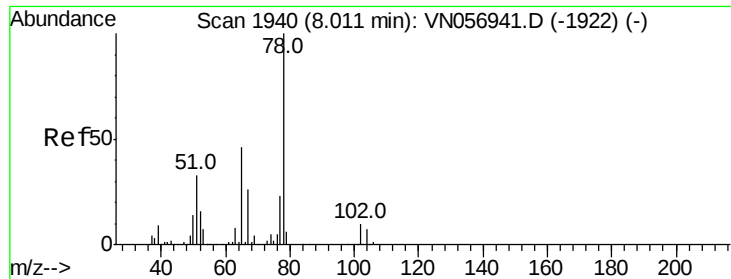
Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	97	Resp:	133572
Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.3	78.5
61	41.3	33.9	50.9





#33

1,2-Dichloroethane-d4

Concen: 55.668 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057074.D

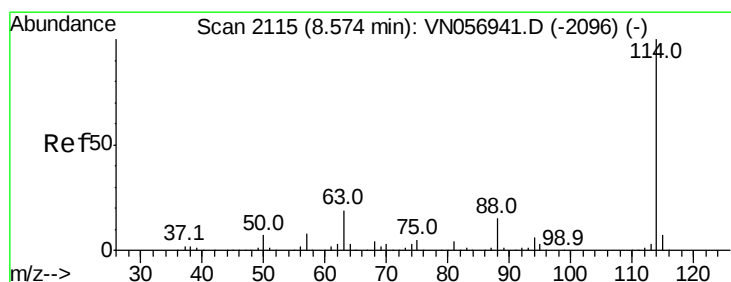
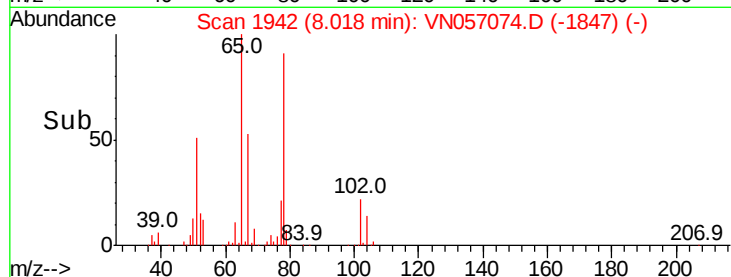
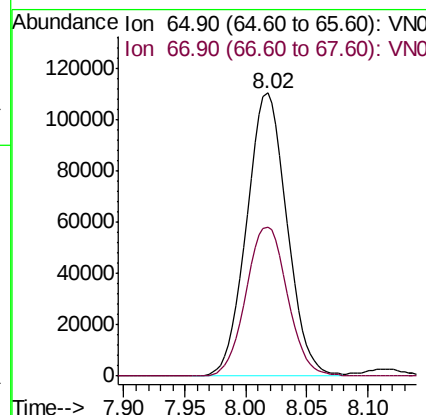
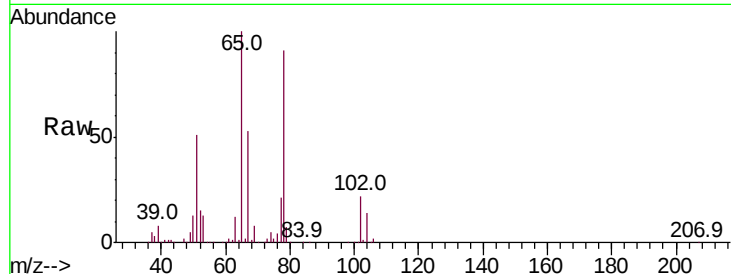
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	112.0

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

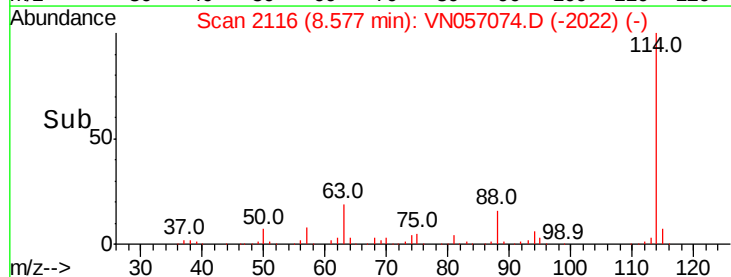
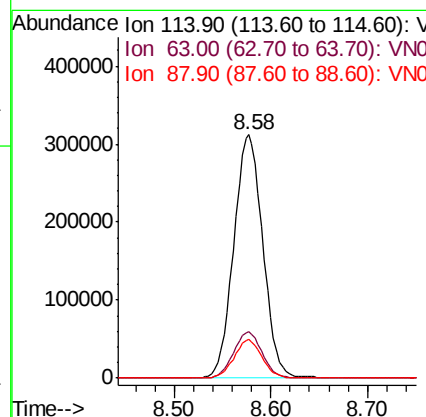
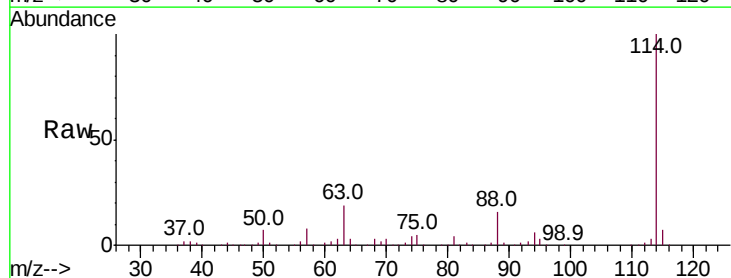
RT: 8.58 min Scan# 2116

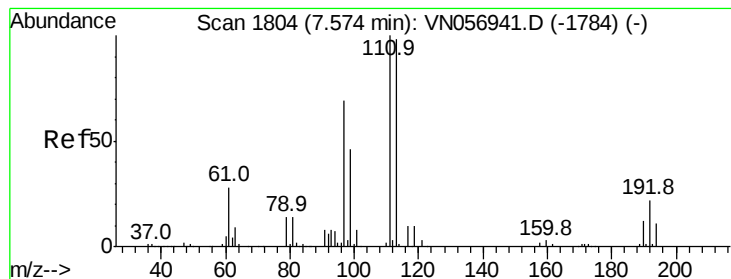
Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.0
88	15.7	0.0	30.0





#35

Dibromofluoromethane

Concen: 55.922 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

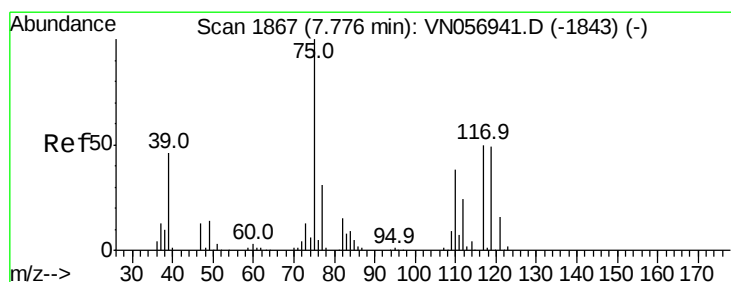
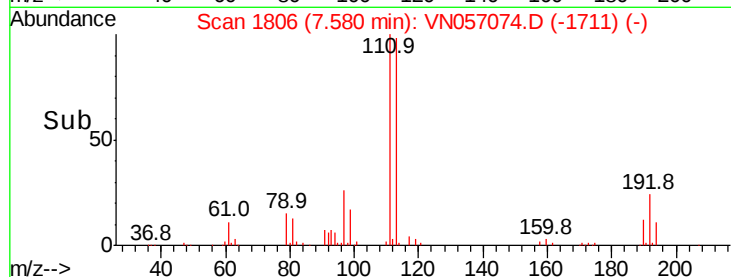
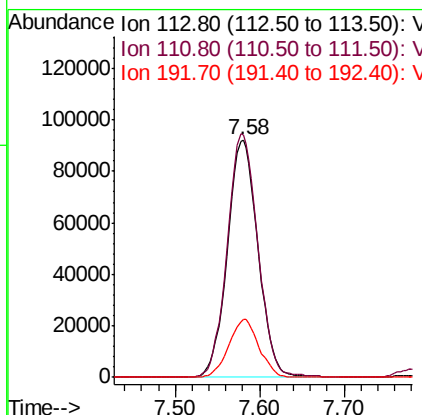
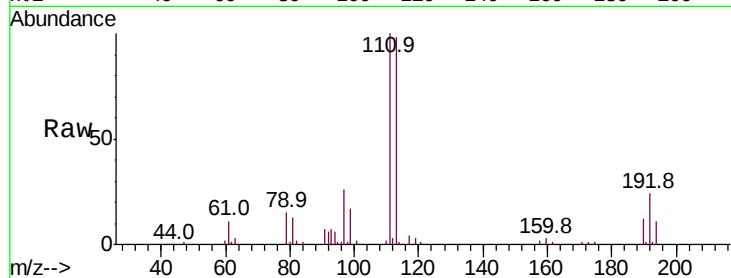
ClientSampleId :

VN0805WBSD01

Tot Ion:	113	Resp:	232855
Ion Ratio	Lower	Upper	
113	100		
111	102.6	82.0	123.0
192	23.9	18.4	27.6

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#36

1,1-Dichloropropene

Concen: 20.081 ug/l

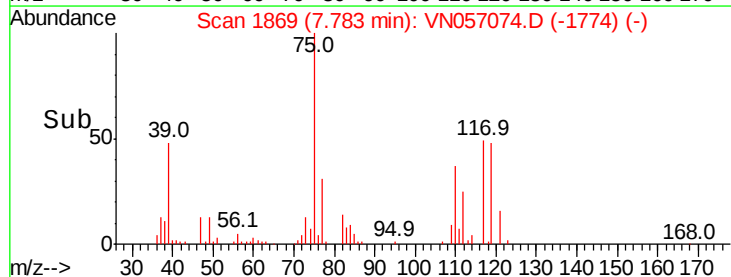
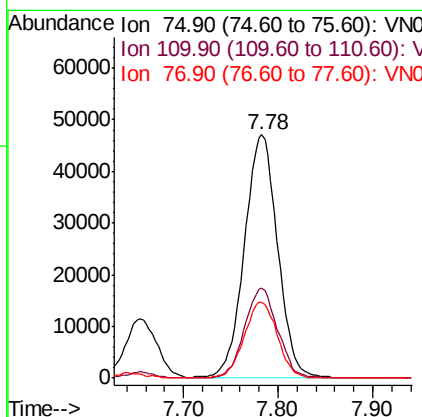
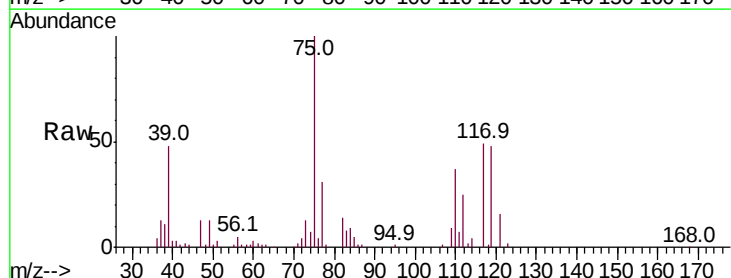
RT: 7.78 min Scan# 1869

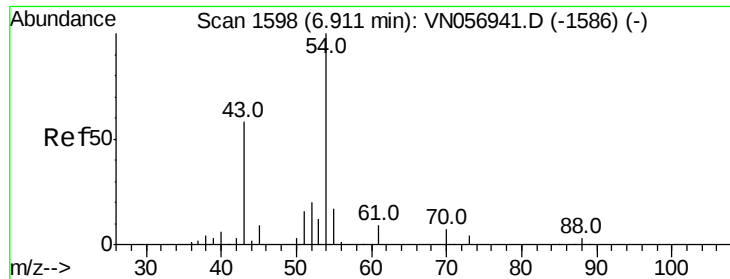
Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	75	Resp:	114931
Ion Ratio	Lower	Upper	
75	100		
110	36.9	18.6	55.8
77	31.2	25.2	37.8





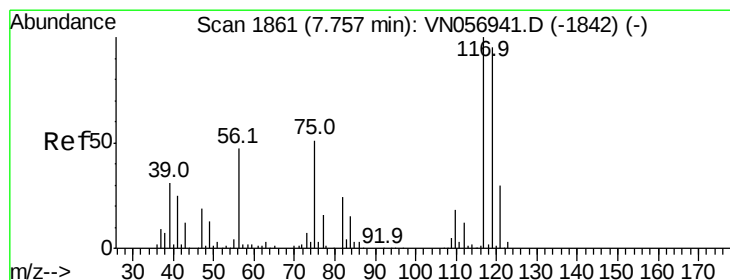
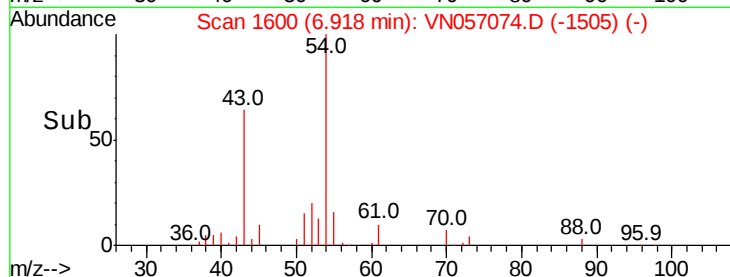
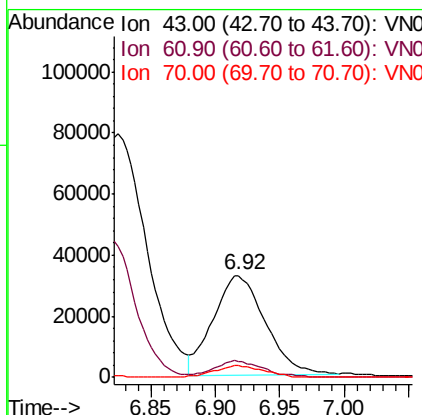
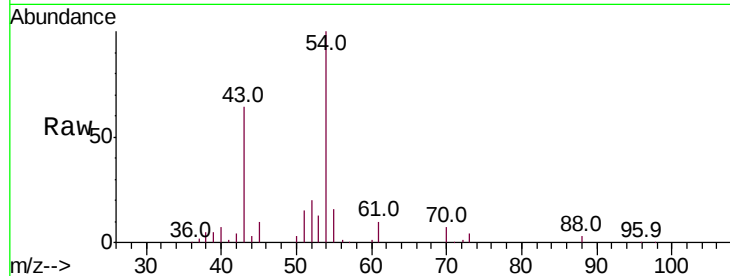
#37
Ethyl Acetate
Concen: 19.831 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampled :
VN0805WBSD01

Tot Ion	43	61	70
Ion Ratio	100	16.0	11.4
Lower		11.8	8.5
Upper		17.6	12.7

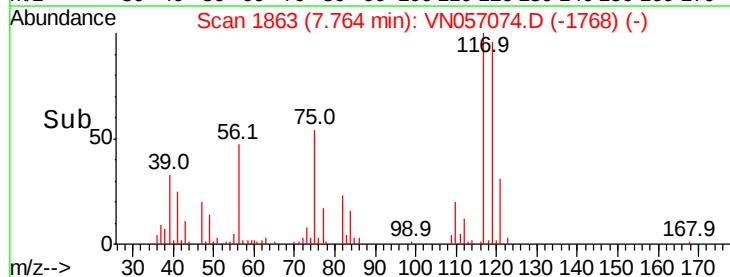
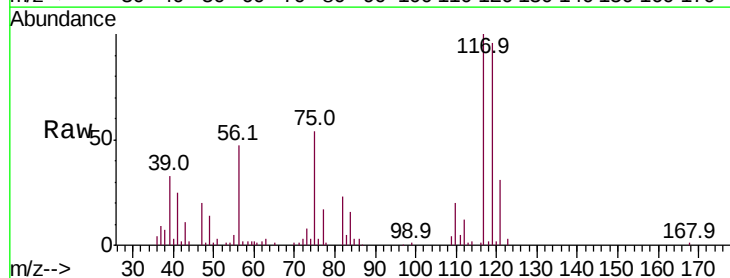
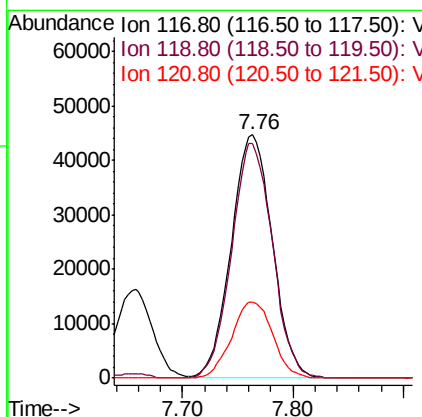
Manual Integrations
APPROVED

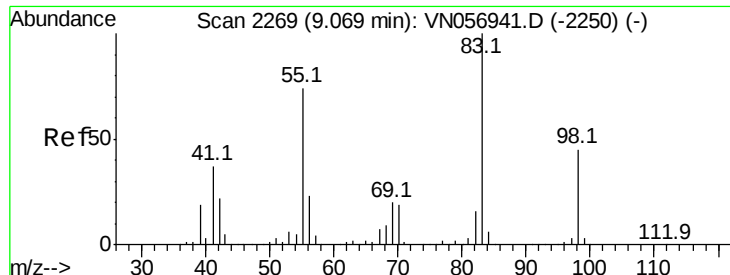
MMDadoda
8/7/2019 4:09:47 AM



#38
Carbon Tetrachloride
Concen: 21.398 ug/l
RT: 7.76 min Scan# 1863
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	117	119	121
Ion Ratio	100	96.1	31.3
Lower		75.3	24.2
Upper		112.9	36.4





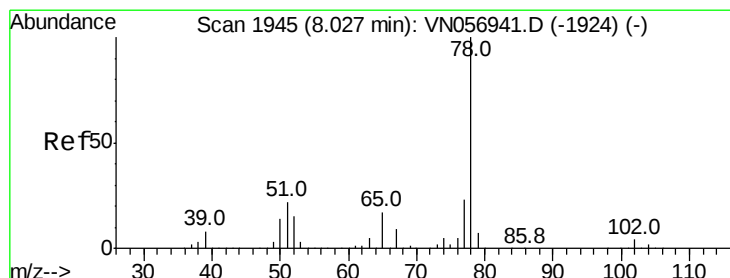
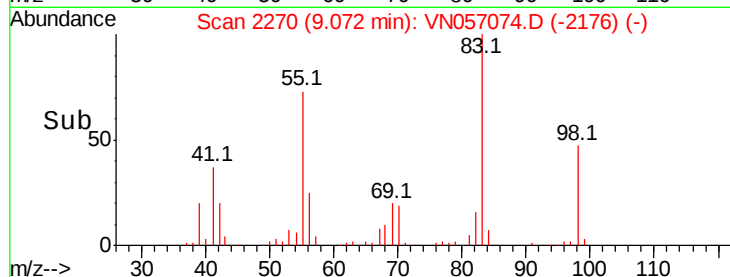
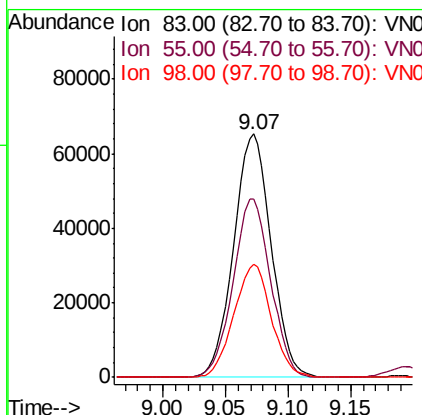
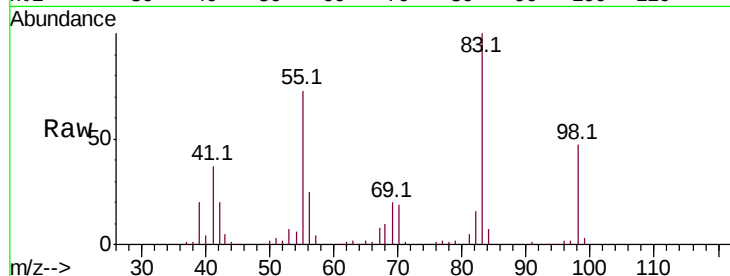
#39
Methvlcvclohexane
Concen: 18.594 ug/l
RT: 9.07 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.2	59.0	88.6
98	46.6	36.2	54.4

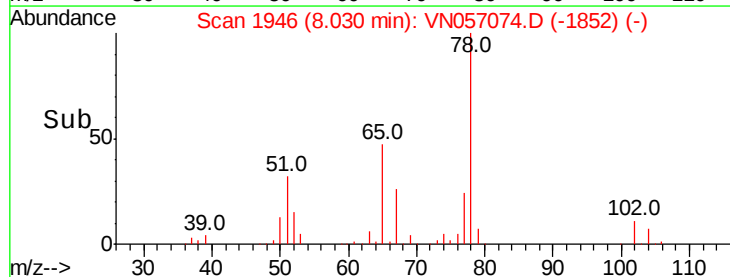
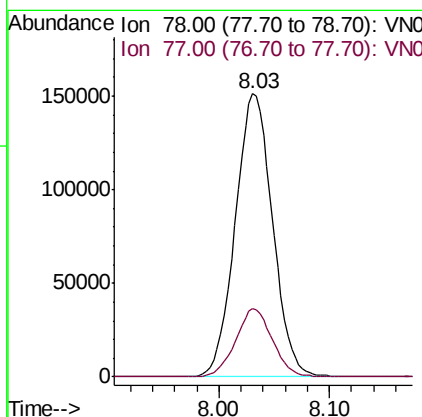
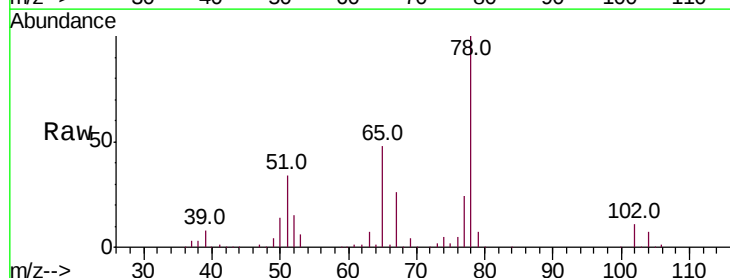
Manual Integrations
APPROVED

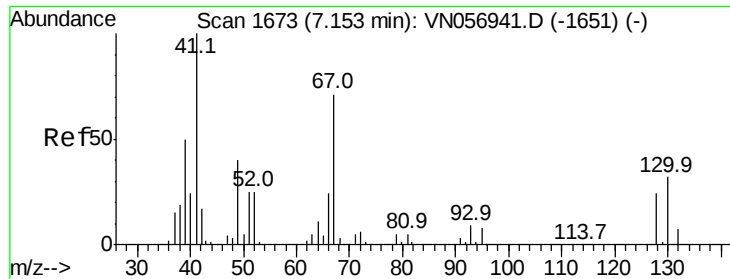
MMDadoda
8/7/2019 4:09:47 AM



#40
Benzene
Concen: 20.084 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.3	27.5





#41

Methacrylonitrile

Concen: 20.665 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. 0.01 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

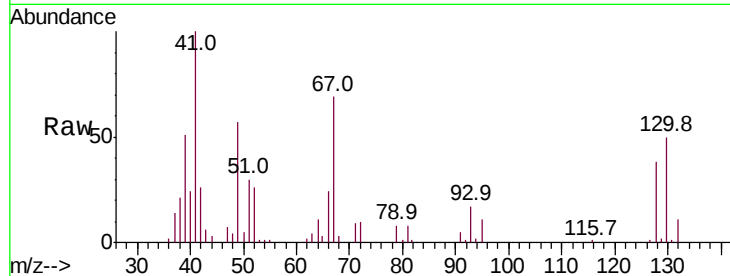
ClientSampleId :

VN0805WBSD01

Tot Ion:	41	Resp:	43791
Ion	Ratio	Lower	Upper
41	100		
39	59.9	48.9	73.3
67	97.3	83.4	125.0
52	37.1	30.9	46.3

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



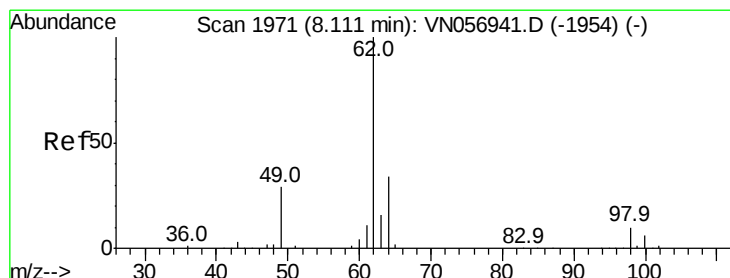
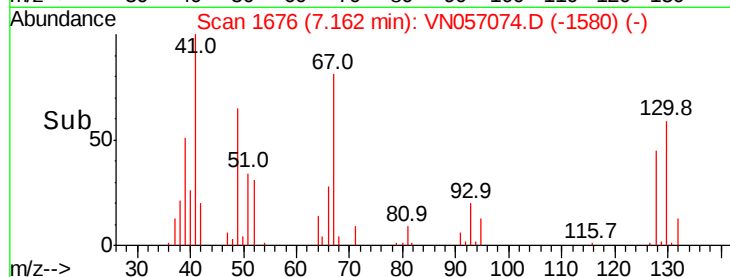
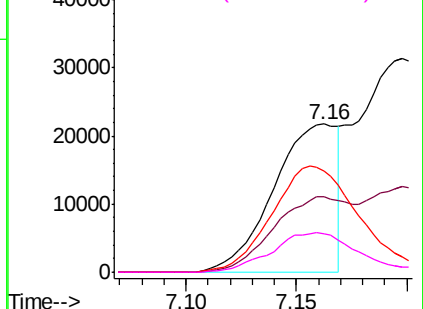
Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#42

1,2-Dichloroethane

Concen: 21.307 ug/l

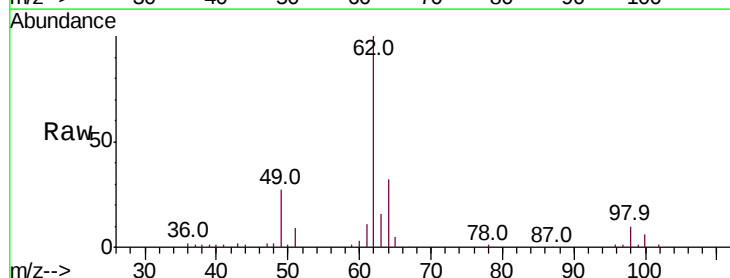
RT: 8.11 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

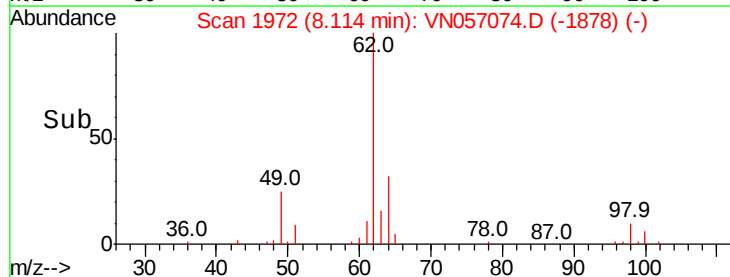
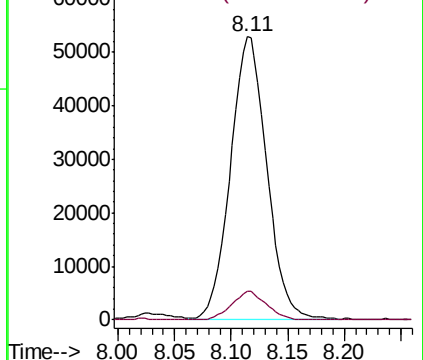
Tgt Ion:	62	Resp:	117722
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	20.6

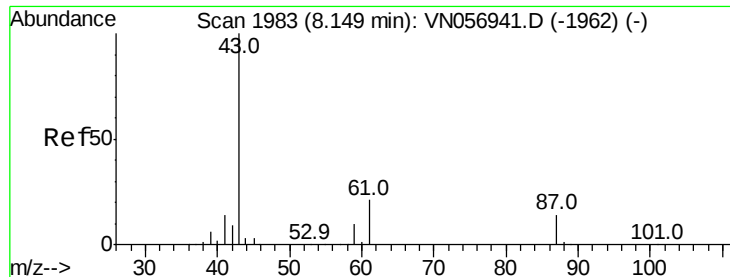


Abundance

Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO





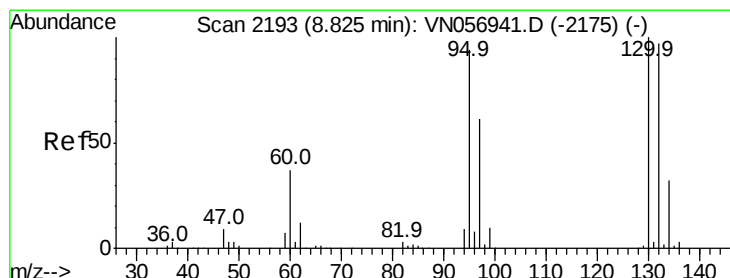
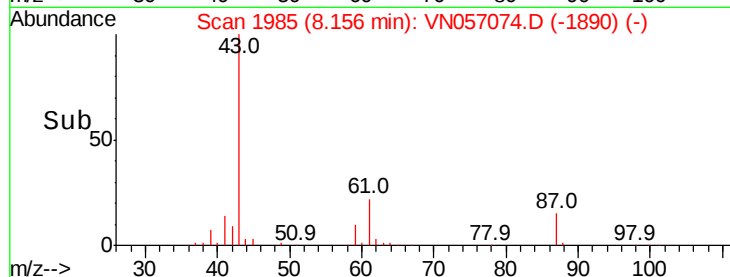
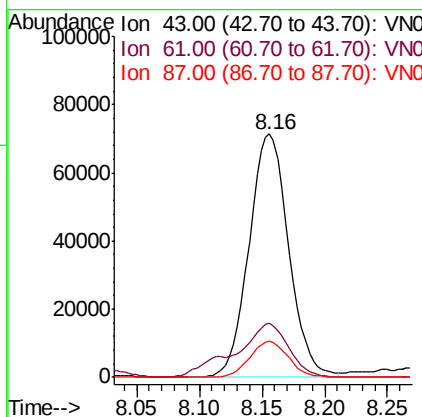
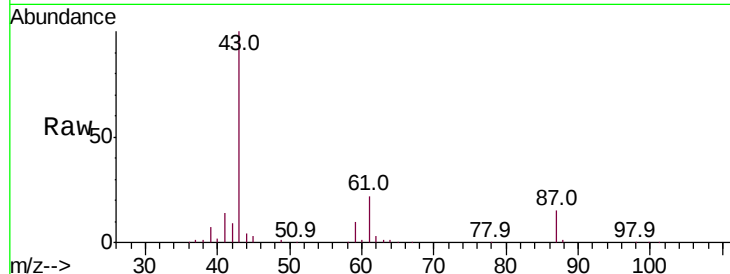
#43
Isopropyl Acetate
Concen: 20.740 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.01 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.0	23.0	34.6
87	14.5	11.7	17.5

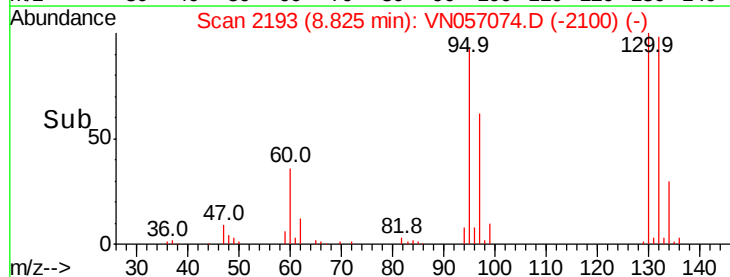
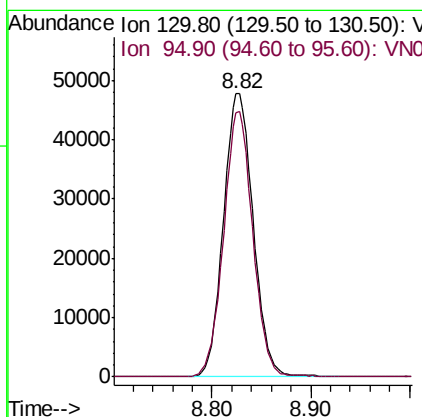
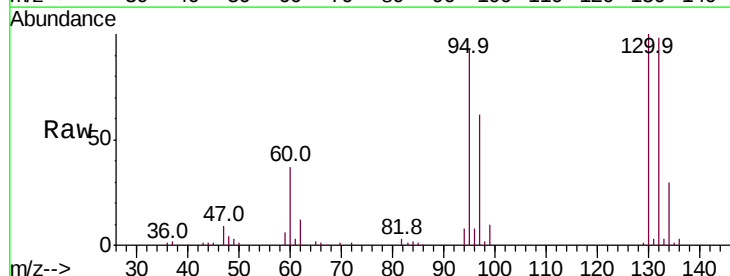
Manual Integrations
APPROVED

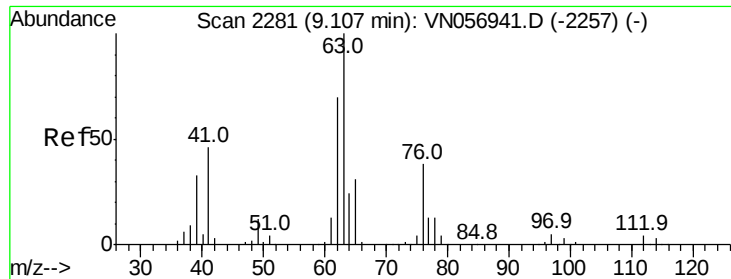
MMDadoda
8/7/2019 4:09:47 AM



#44
Trichloroethene
Concen: 20.784 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.3	0.0	189.0





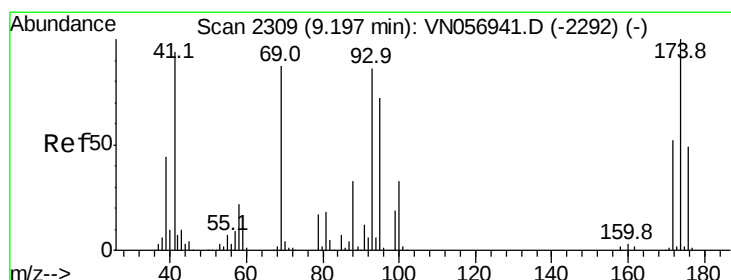
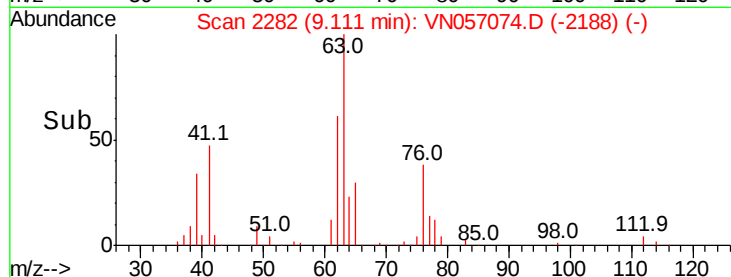
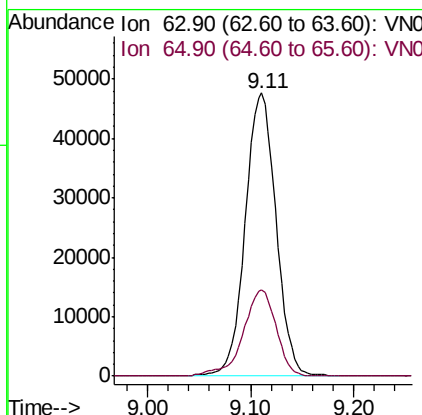
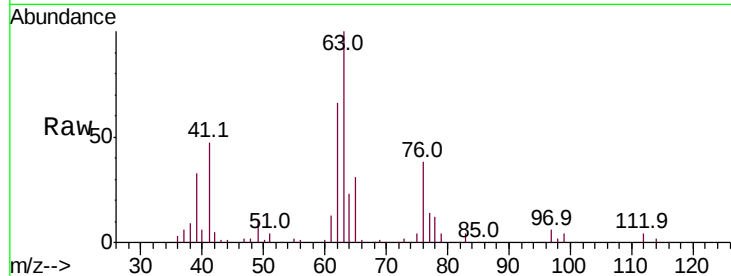
#45
 1,2-Dichloropropane
 Concen: 20.926 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

Tot Ion: 63 Resp: 98673
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.8 37.2

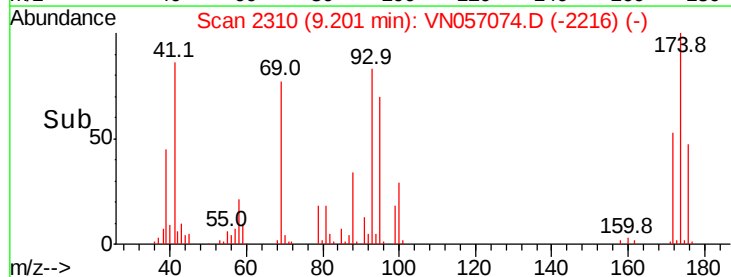
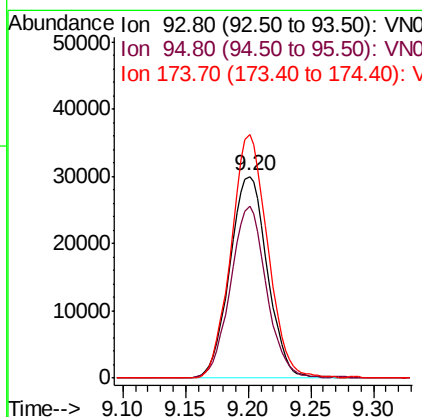
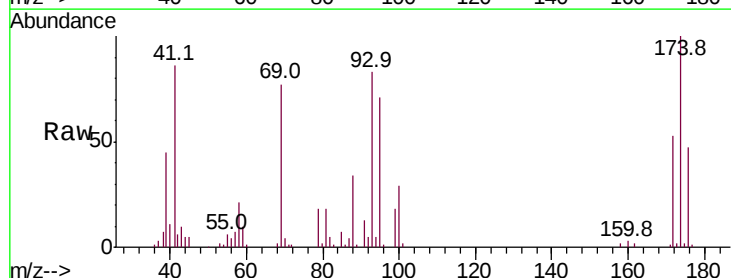
Manual Integrations
 APPROVED

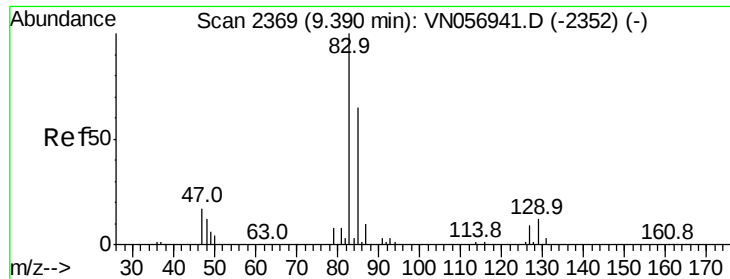
MMDadoda
 8/7/2019 4:09:47 AM



#46
 Dibromomethane
 Concen: 21.922 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Tgt Ion: 93 Resp: 62338
 Ion Ratio Lower Upper
 93 100
 95 81.5 67.0 100.6
 174 117.7 92.7 139.1





#47

Bromodichloromethane

Concen: 21.367 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

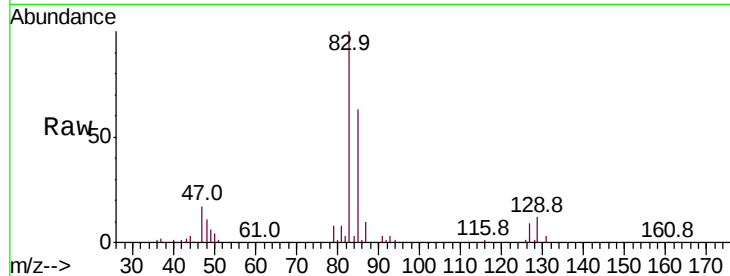
ClientSampleId :

VN0805WBSD01

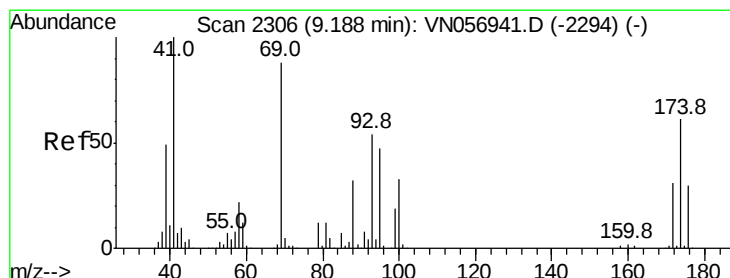
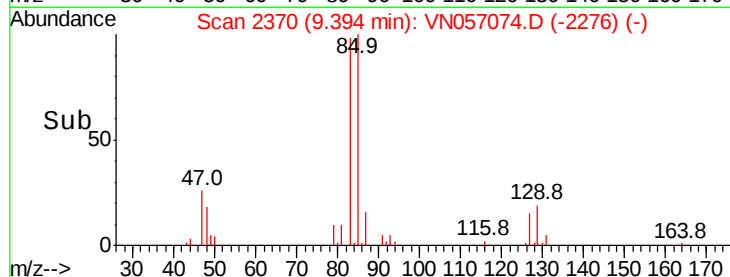
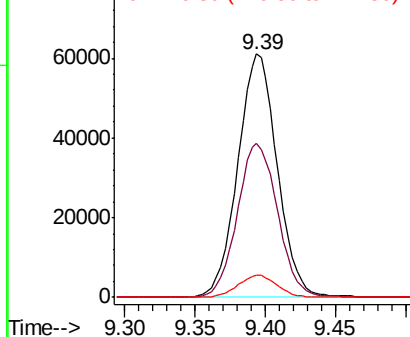
Tot Ion:	83	Resp:	119460
Ion Ratio	Lower	Upper	
83	100		
85	63.0	51.6	77.4
127	9.1	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



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



#48

Methyl methacrylate

Concen: 20.683 ug/l

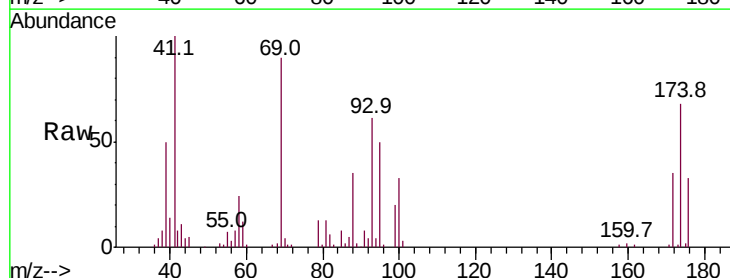
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

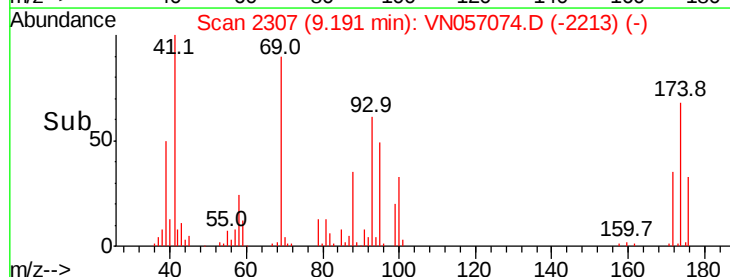
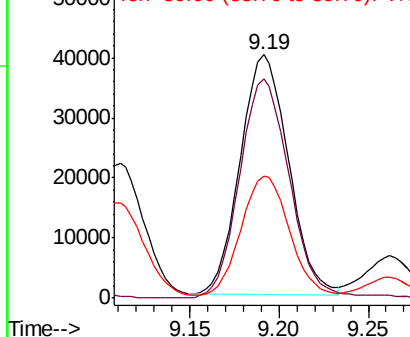
Lab File: VN057074.D

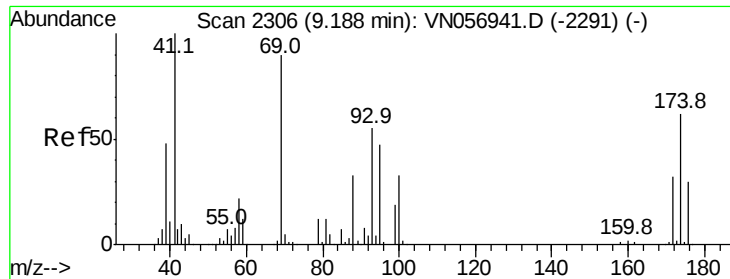
Acq: 5 Aug 2019 11:32

Tgt Ion:	41	Resp:	75659
Ion Ratio	Lower	Upper	
41	100		
69	94.9	73.4	110.0
39	51.5	39.9	59.9



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





#49

1,4-Dioxane

Concen: 429.356 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 88 Resp: 32366

Ion Ratio Lower Upper

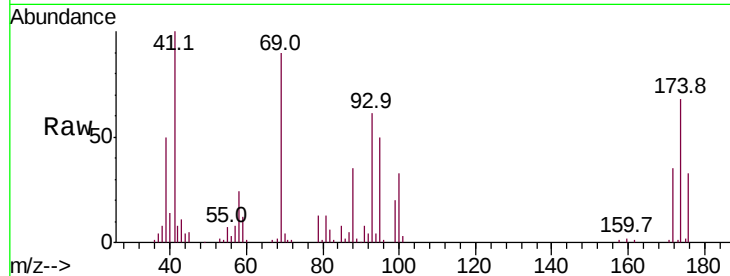
88 100

43 26.8 22.2 33.2

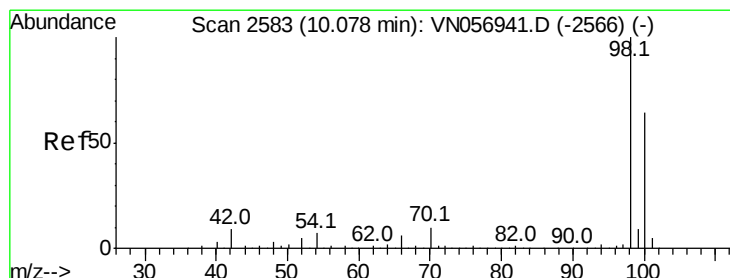
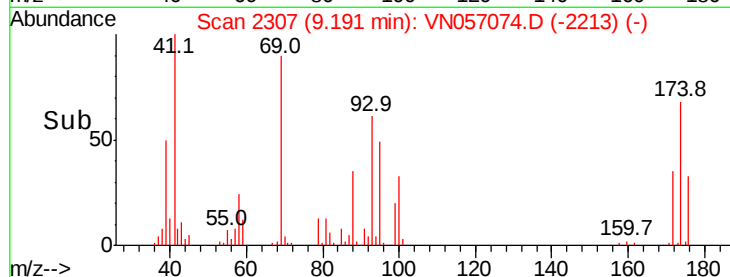
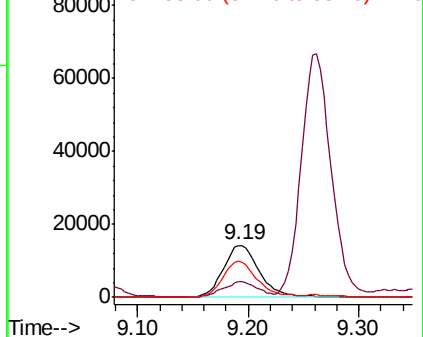
58 66.9 54.1 81.1

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 54.062 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057074.D

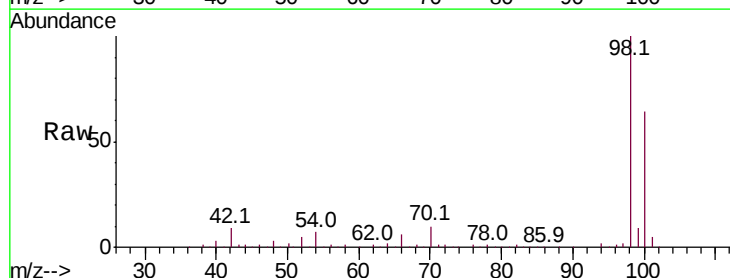
Acq: 5 Aug 2019 11:32

Tgt Ion: 98 Resp: 858457

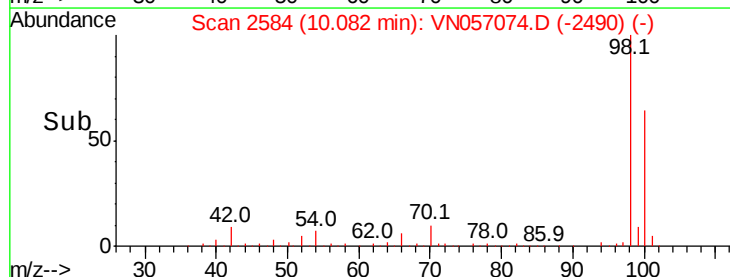
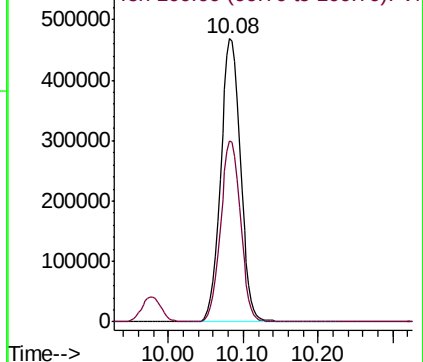
Ion Ratio Lower Upper

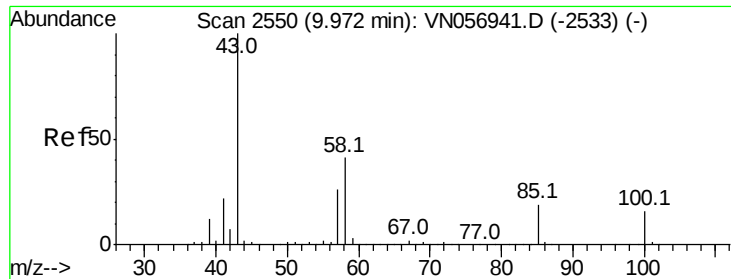
98 100

100 64.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 103.848 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 43 Resp: 467495

Ion Ratio Lower Upper

43 100

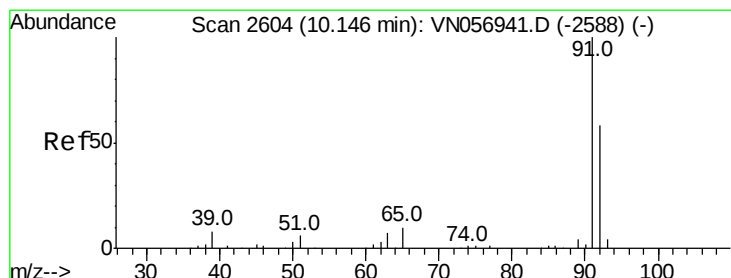
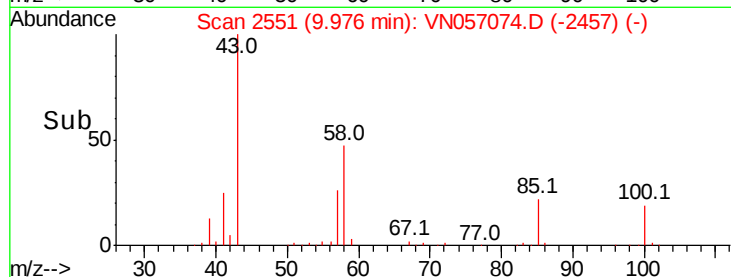
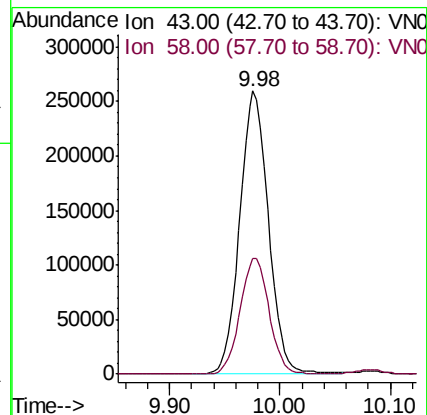
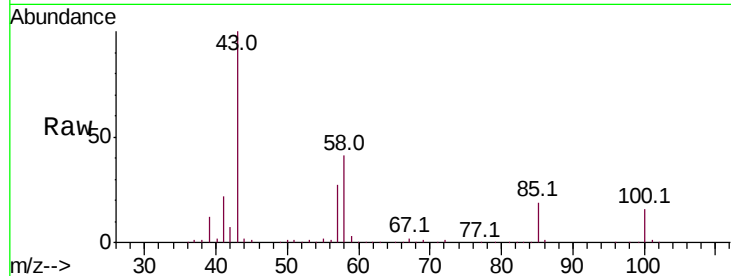
58 41.4 33.1 49.7

Manual Integrations

APPROVED

MMDadoda

8/7/2019 4:09:47 AM



#52

Toluene

Concen: 20.820 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN057074.D

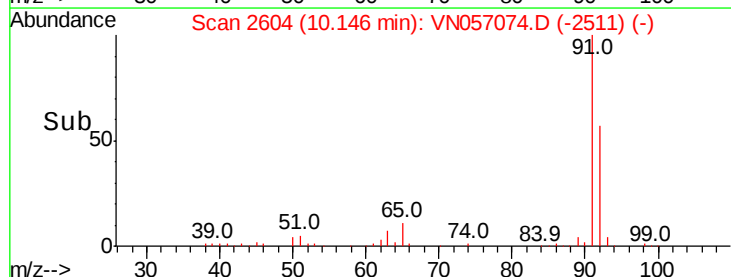
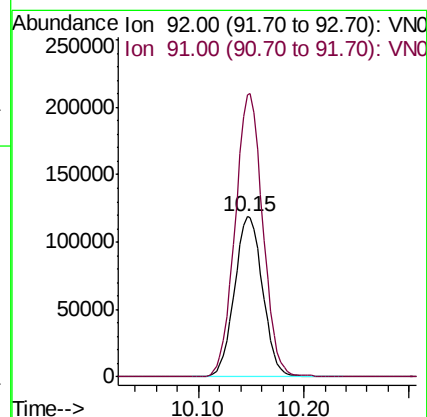
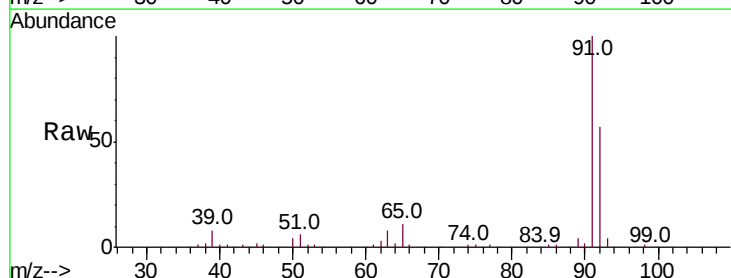
Acq: 5 Aug 2019 11:32

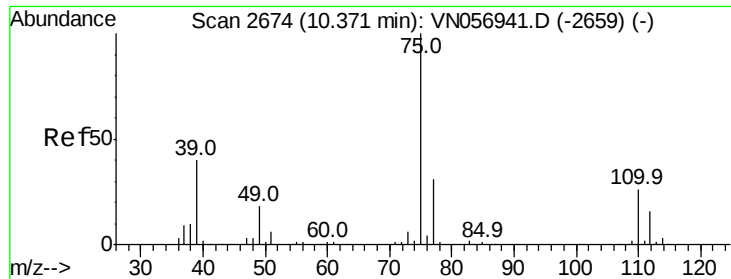
Tgt Ion: 92 Resp: 220511

Ion Ratio Lower Upper

92 100

91 174.0 138.0 207.0





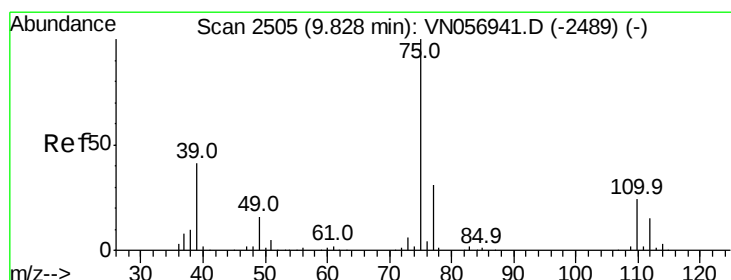
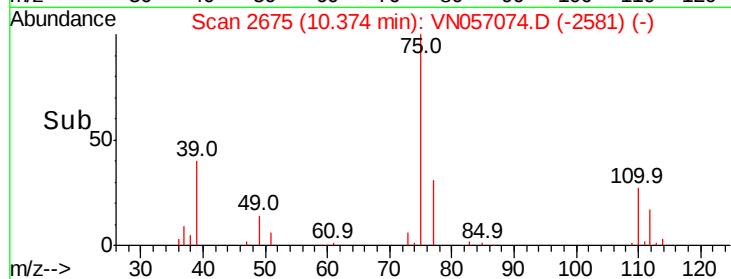
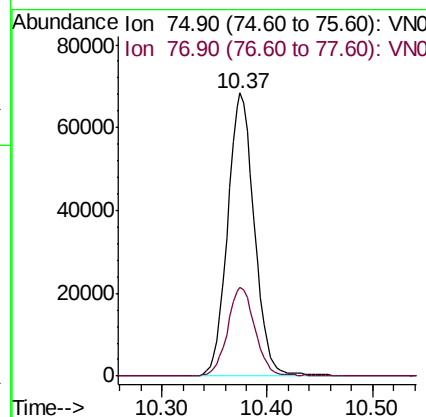
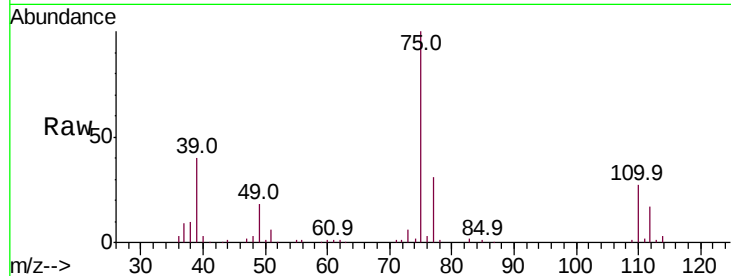
#53
t-1,3-Dichloropropene
Concen: 20.614 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion: 75 Resp: 119597
Ion Ratio Lower Upper
75 100
77 31.2 25.1 37.7

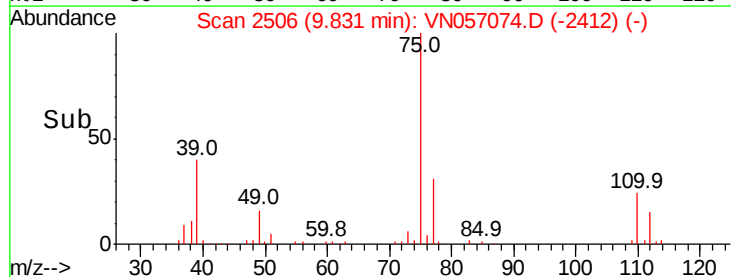
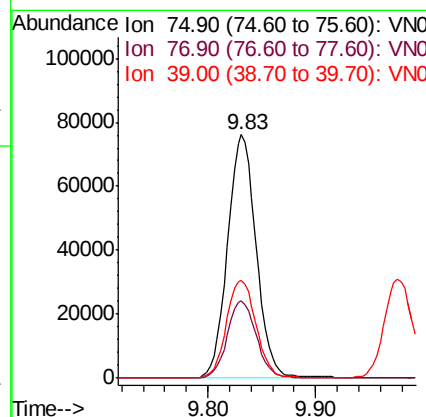
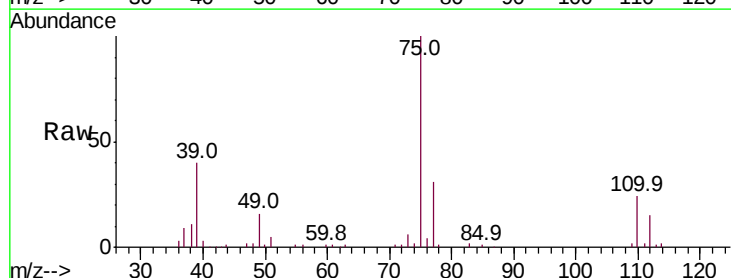
Manual Integrations
APPROVED

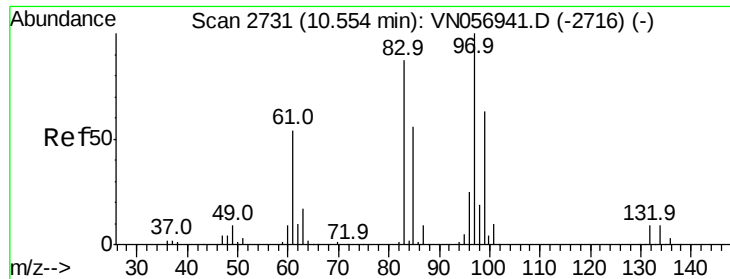
MMDadoda
8/7/2019 4:09:47 AM



#54
cis-1,3-Dichloropropene
Concen: 20.864 ug/l
RT: 9.83 min Scan# 2506
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion: 75 Resp: 140741
Ion Ratio Lower Upper
75 100
77 31.5 25.0 37.6
39 40.2 32.6 49.0





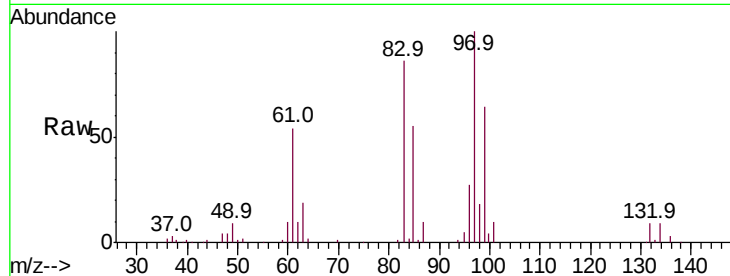
#55
 1,1,2-Trichloroethane
 Concen: 21.116 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.8	69.4	104.0
85	54.8	44.7	67.1
99	63.6	50.1	75.1

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 4:09:47 AM



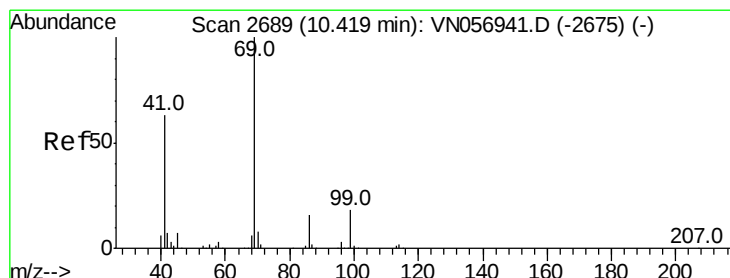
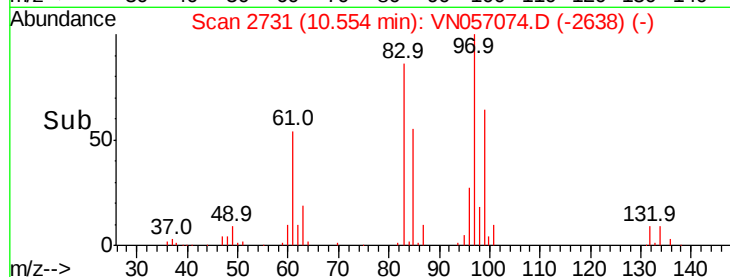
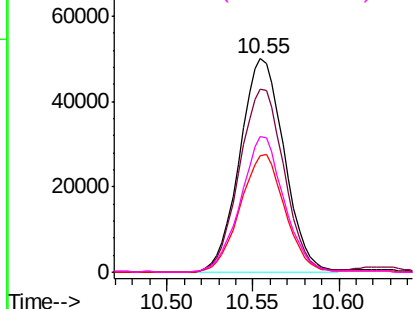
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 82.90 (82.60 to 83.60): VNO

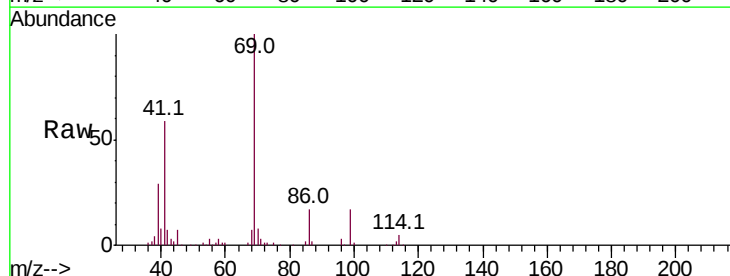
Ion 84.90 (84.60 to 85.60): VNO

Ion 98.90 (98.60 to 99.60): VNO



#56
 Ethyl methacrylate
 Concen: 20.190 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
69	100		
41	58.6	49.2	73.8
39	28.9	23.1	34.7

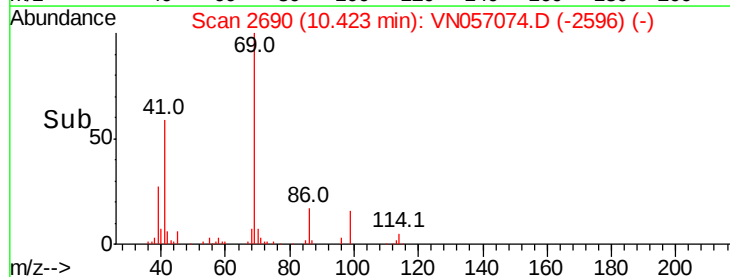
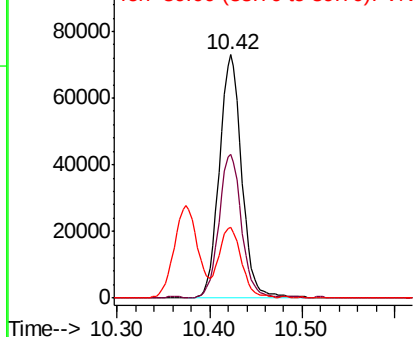


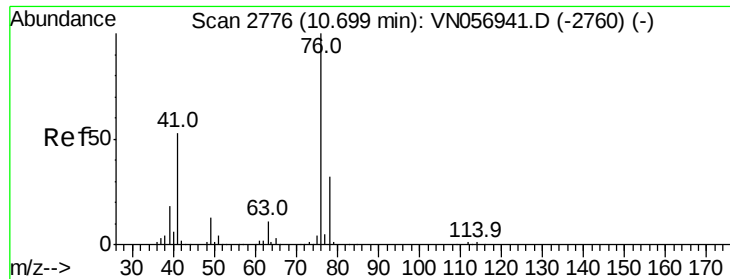
Abundance

Ion 69.00 (68.70 to 69.70): VNO

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 21.129 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 76 Resp: 148817

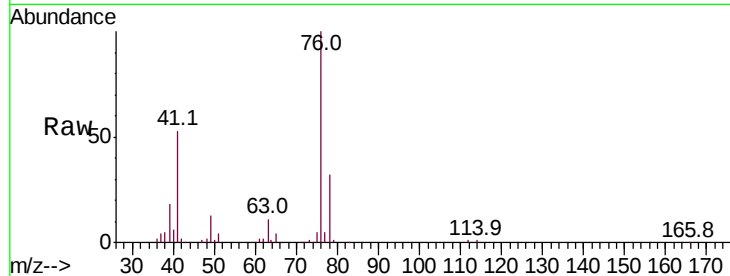
Ion Ratio Lower Upper

76 100

78 31.6 25.9 38.9

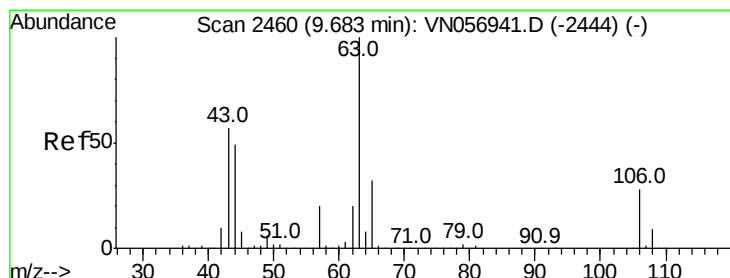
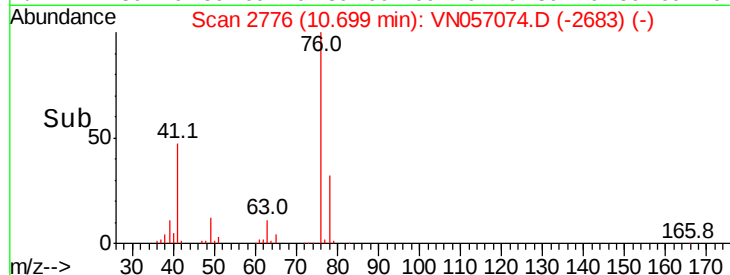
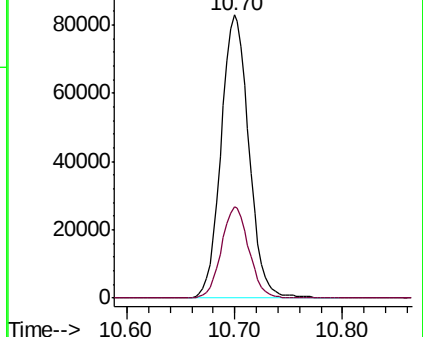
Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 82.423 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN057074.D

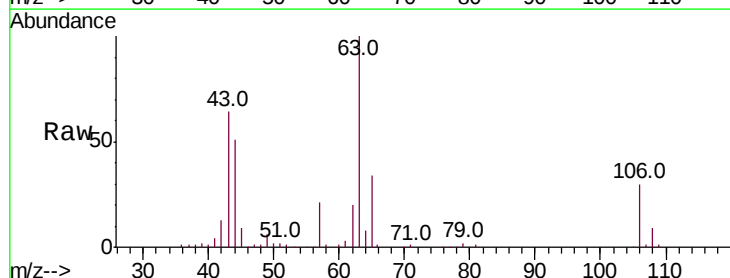
Acq: 5 Aug 2019 11:32

Tgt Ion: 63 Resp: 209793

Ion Ratio Lower Upper

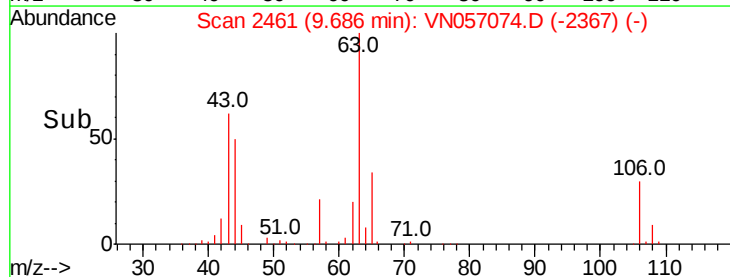
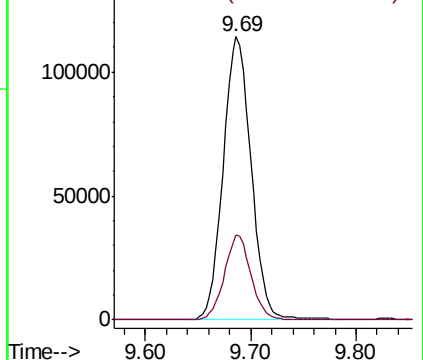
63 100

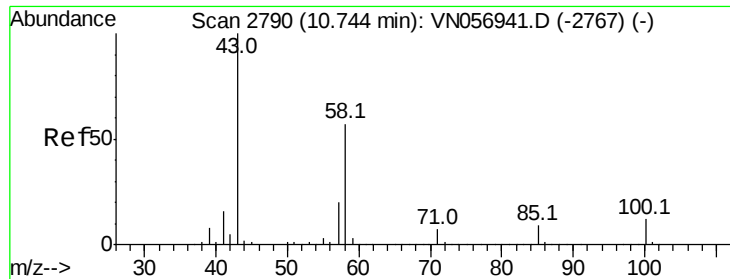
106 28.3 22.0 33.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





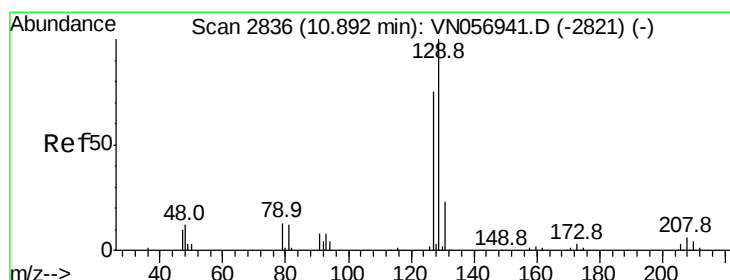
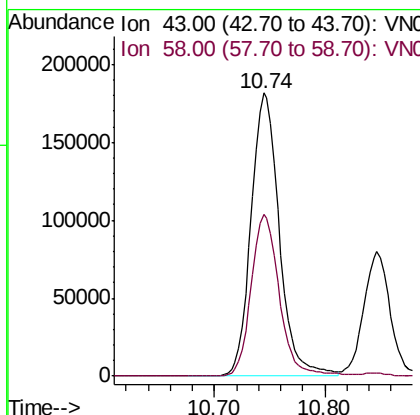
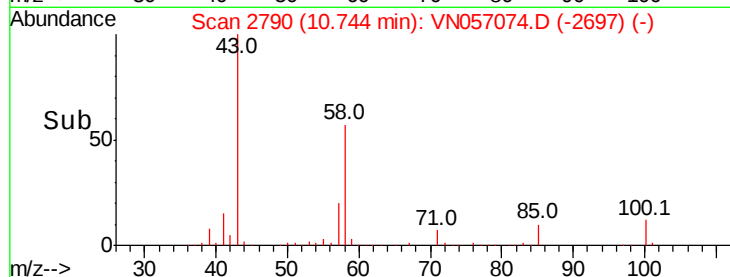
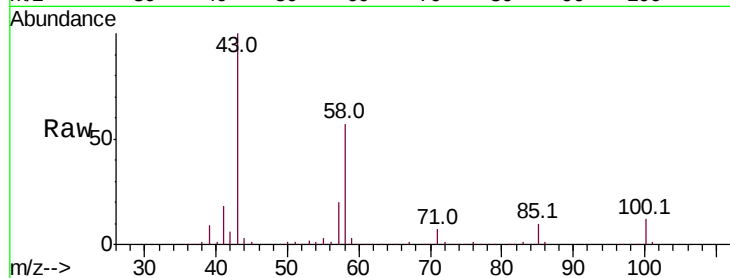
#59
2-Hexanone
Concen: 94.646 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion: 43 Resp: 322677
Ion Ratio Lower Upper
43 100
58 57.2 28.5 85.5

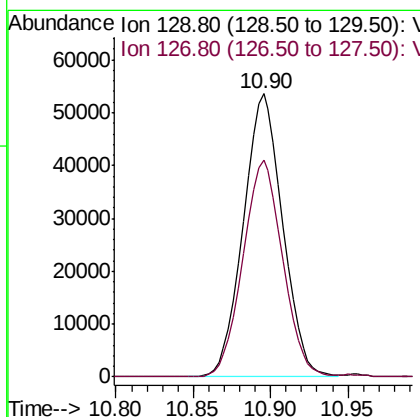
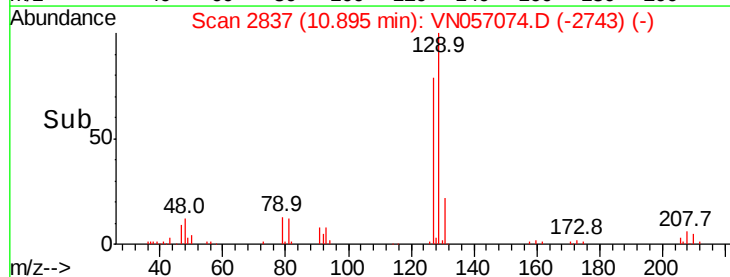
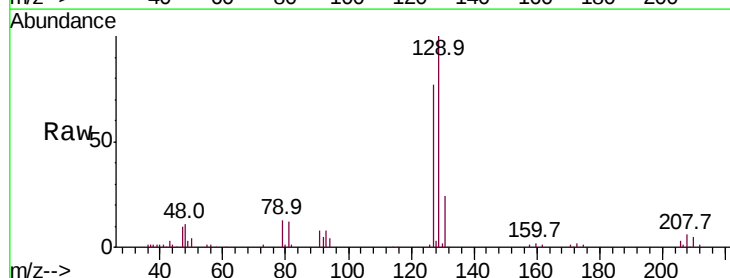
Manual Integrations
APPROVED

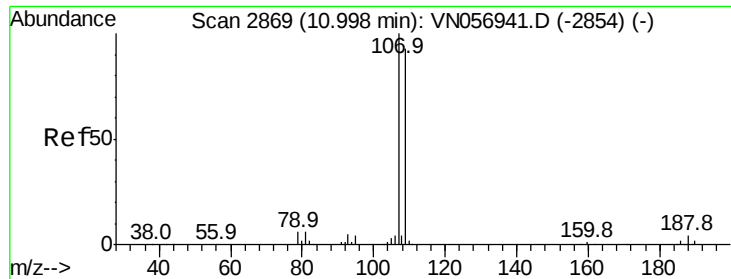
MMDadoda
8/7/2019 4:09:47 AM



#60
Dibromochloromethane
Concen: 21.835 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion: 129 Resp: 95017
Ion Ratio Lower Upper
129 100
127 77.3 38.0 113.9





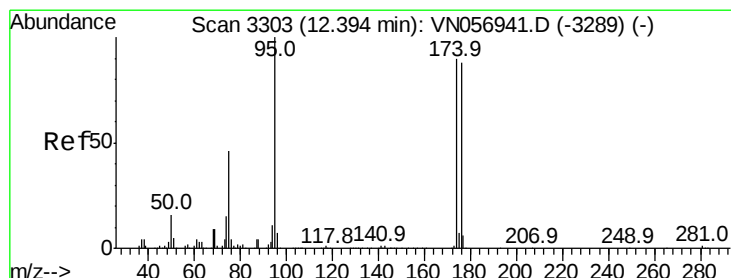
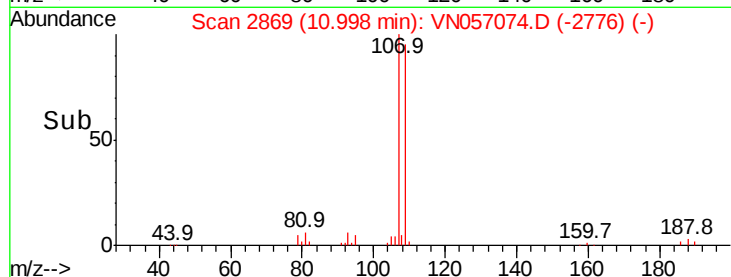
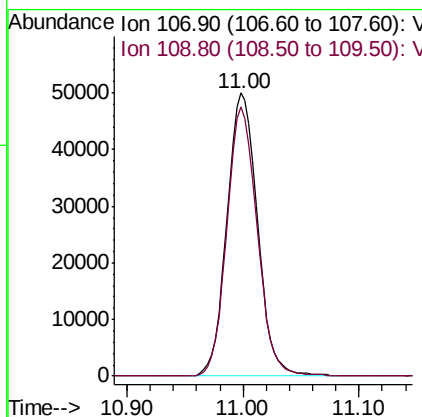
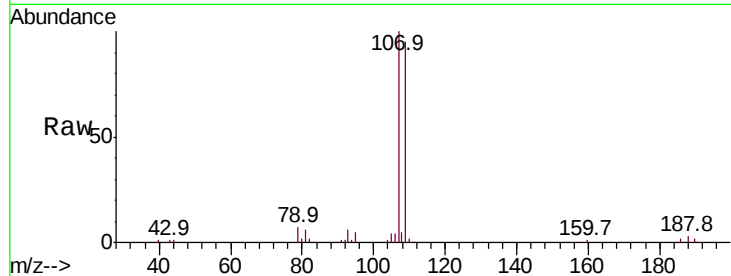
#61
1,2-Dibromoethane
Concen: 21.899 ug/l
RT: 11.00 min Scan# 2869
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion:107 Resp: 90775
Ion Ratio Lower Upper
107 100
109 94.3 76.0 114.0

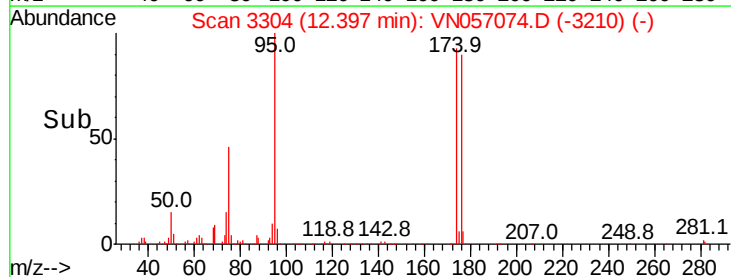
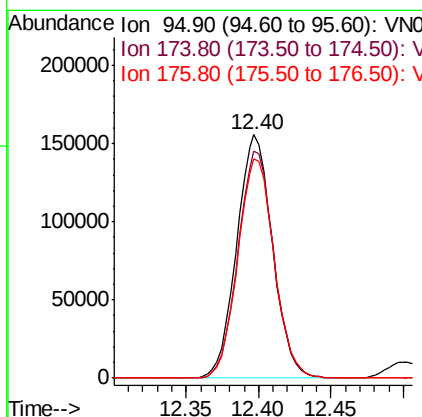
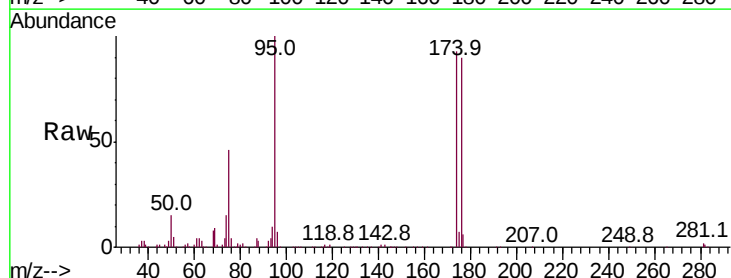
Manual Integrations
APPROVED

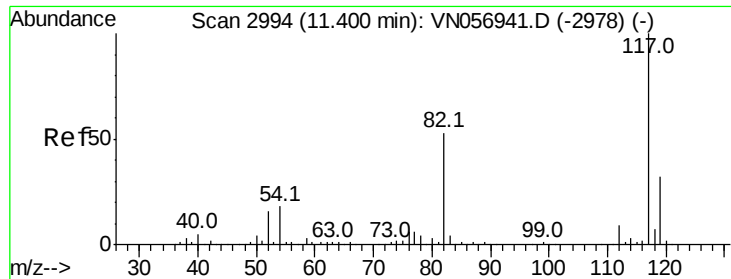
MMDadoda
8/7/2019 4:09:47 AM



#62
4-Bromofluorobenzene
Concen: 51.621 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion: 95 Resp: 266850
Ion Ratio Lower Upper
95 100
174 93.3 0.0 182.2
176 91.4 0.0 179.4





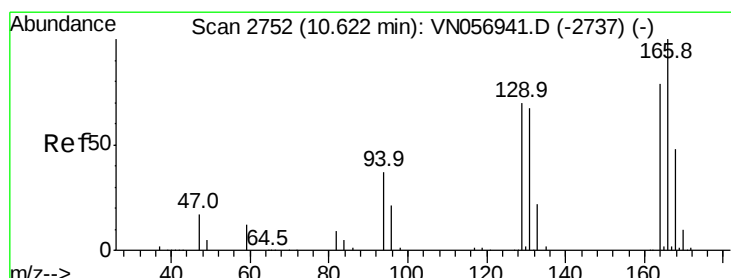
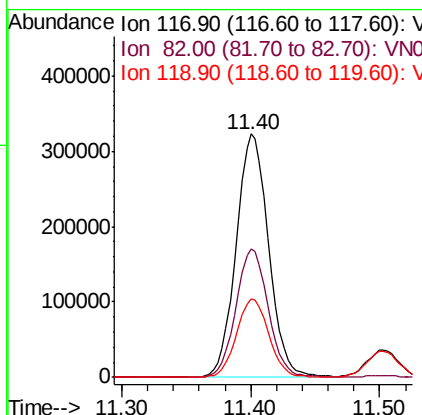
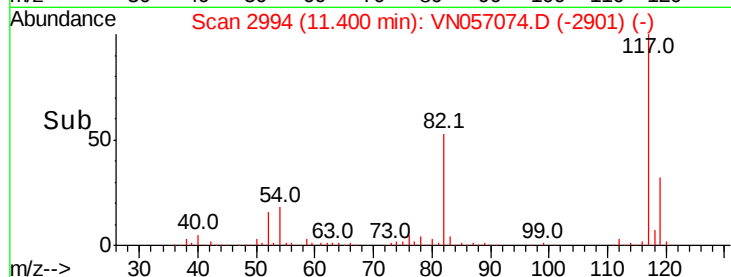
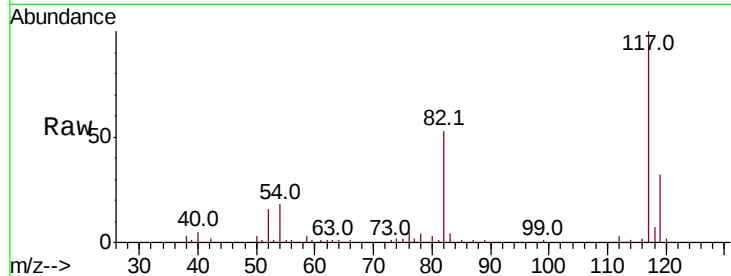
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.9	42.2	63.4
119	32.2	25.8	38.6

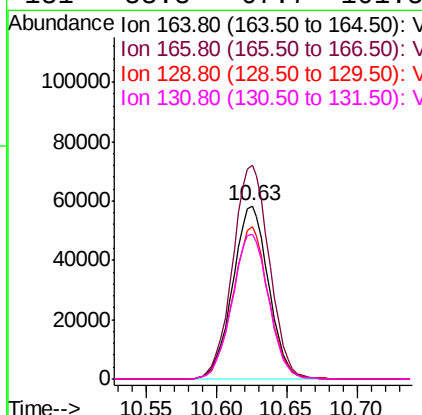
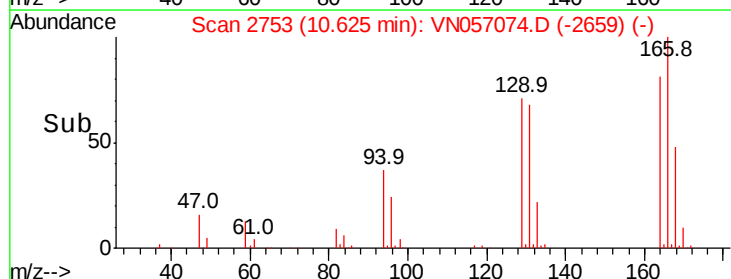
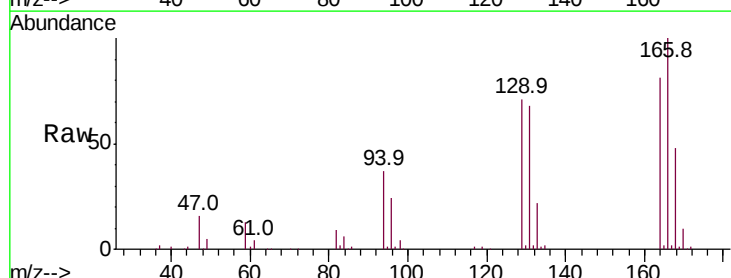
Manual Integrations
APPROVED

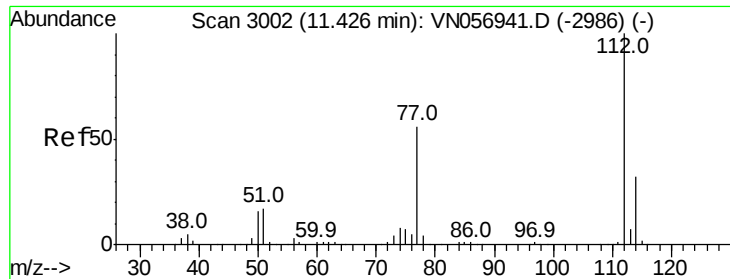
MMDadoda
8/7/2019 4:09:47 AM



#64
Tetrachloroethene
Concen: 21.200 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	123.3	101.1	151.7
129	87.9	70.9	106.3
131	83.8	67.7	101.5





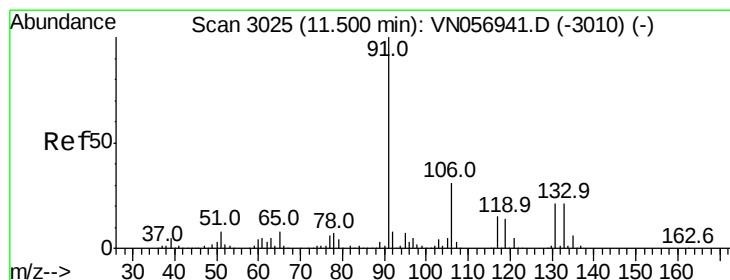
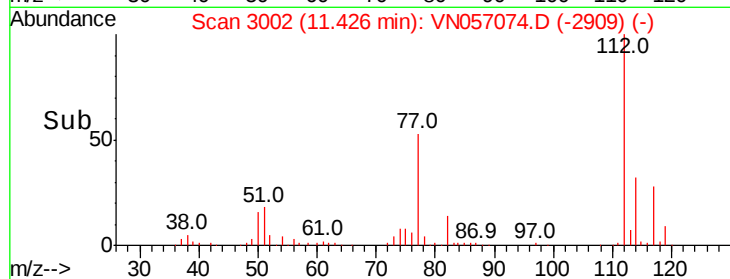
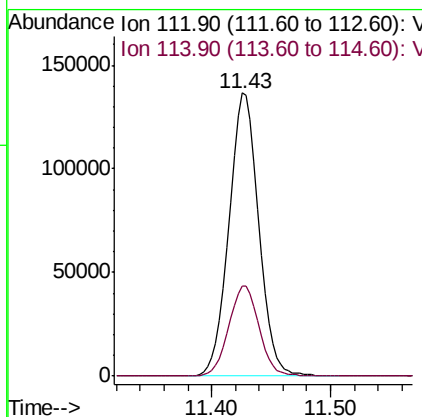
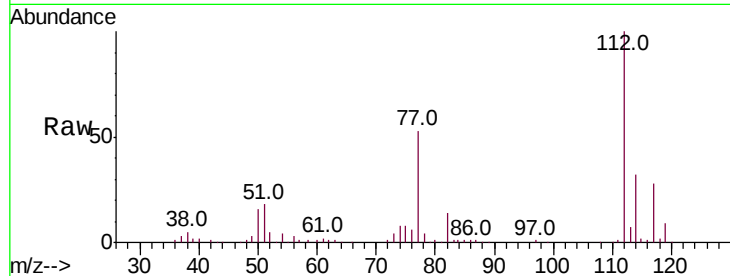
#65
Chlorobenzene
Concen: 20.545 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion:112 Resp: 236959
Ion Ratio Lower Upper
112 100
114 31.6 26.0 39.0

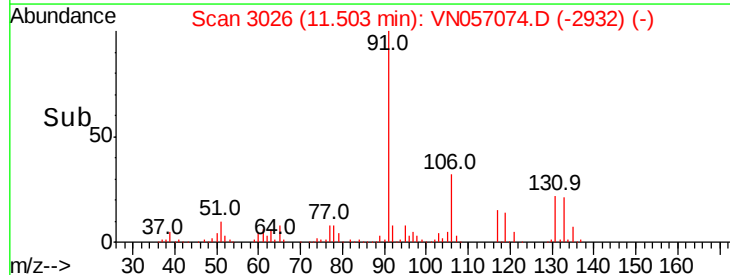
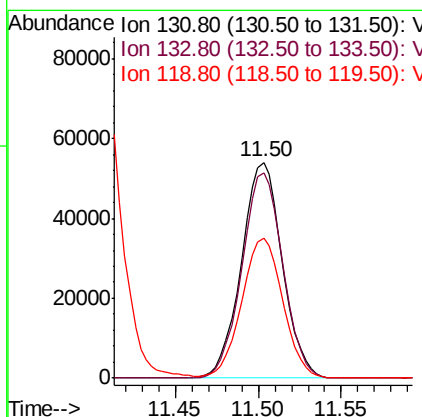
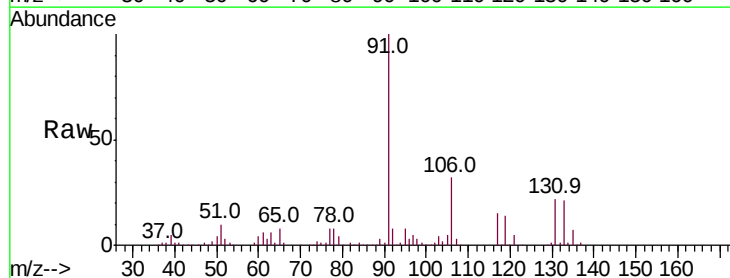
Manual Integrations
APPROVED

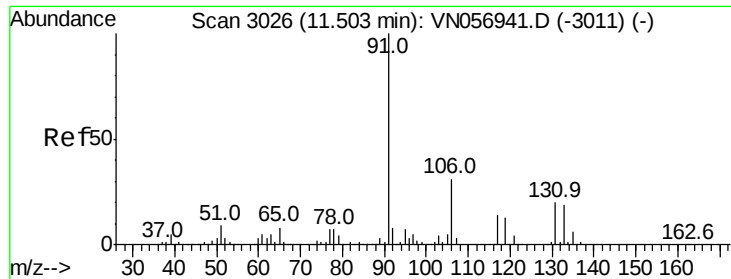
MMDadoda
8/7/2019 4:09:47 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.301 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion:131 Resp: 92473
Ion Ratio Lower Upper
131 100
133 95.6 48.0 144.0
119 65.7 33.2 99.6





#67

Ethyl Benzene

Concen: 20.449 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampled :

VN0805WBSD01

Tot Ion: 91 Resp: 407640

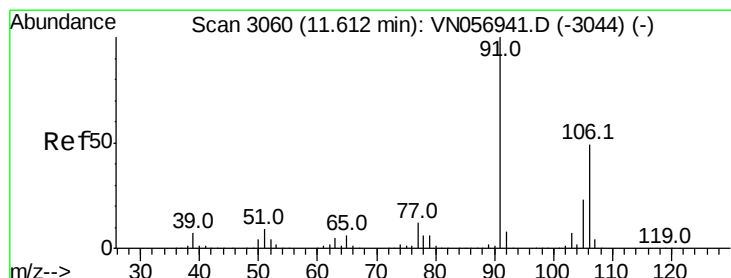
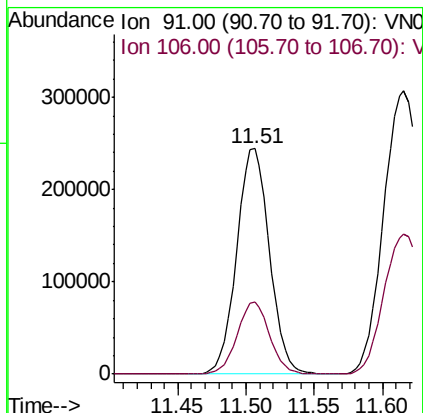
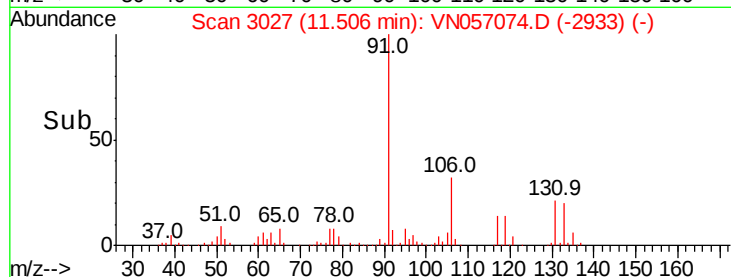
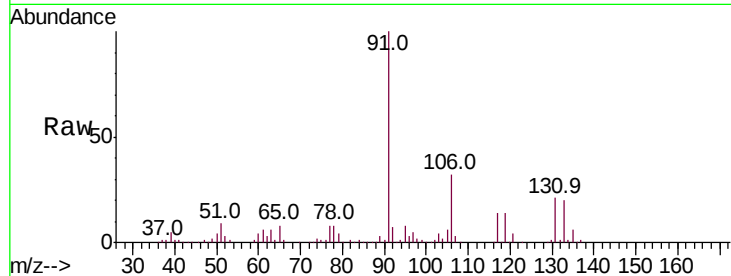
Ion Ratio Lower Upper

91 100

106 32.1 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#68

m/p-Xylenes

Concen: 41.479 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. 0.00 min

Lab File: VN057074.D

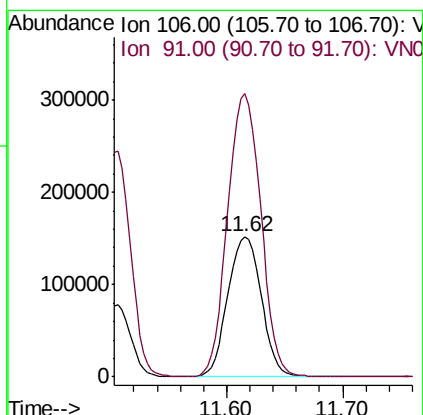
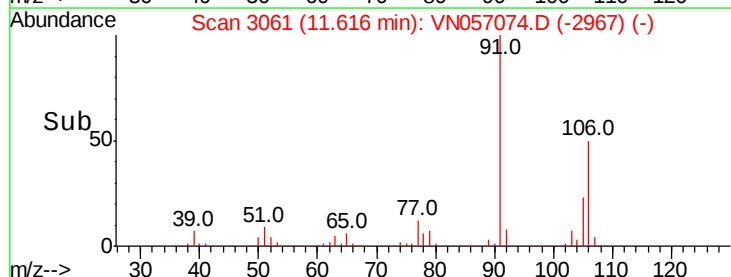
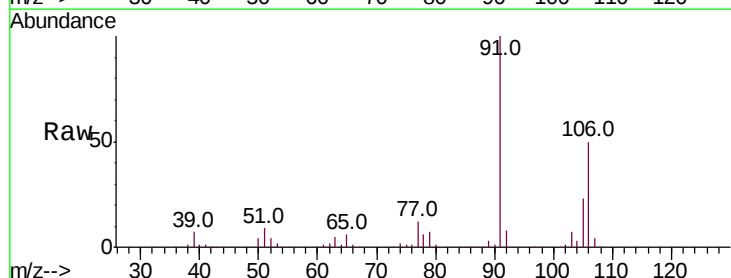
Acq: 5 Aug 2019 11:32

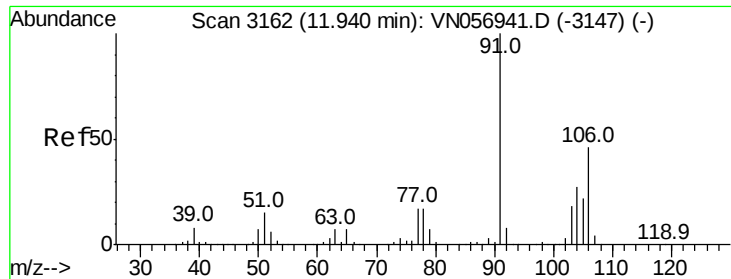
Tgt Ion: 106 Resp: 305153

Ion Ratio Lower Upper

106 100

91 200.0 160.0 240.0





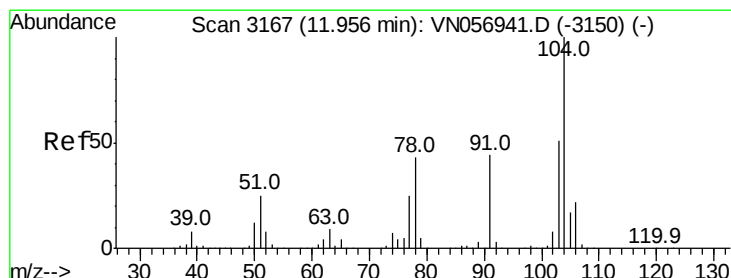
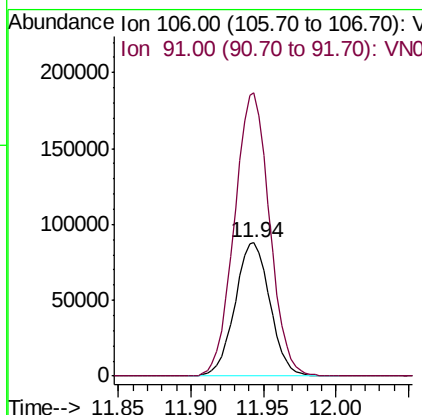
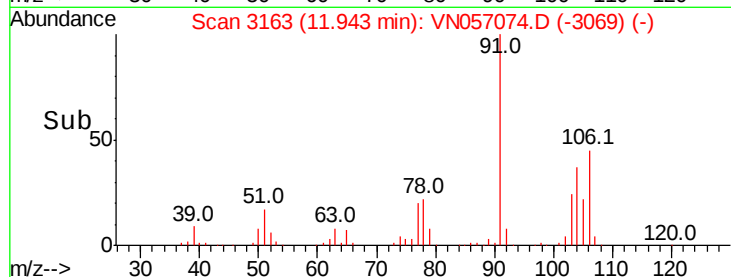
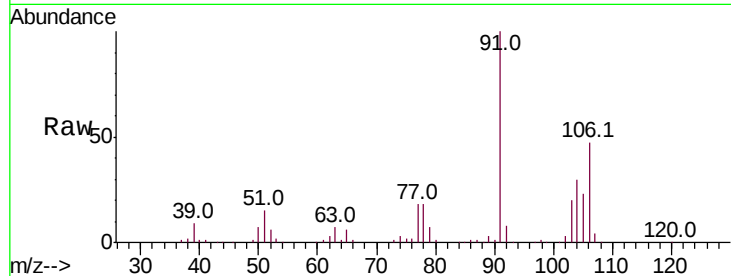
#69
o-Xylene
Concen: 20.516 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion:106 Resp: 147661
Ion Ratio Lower Upper
106 100
91 212.7 106.2 318.6

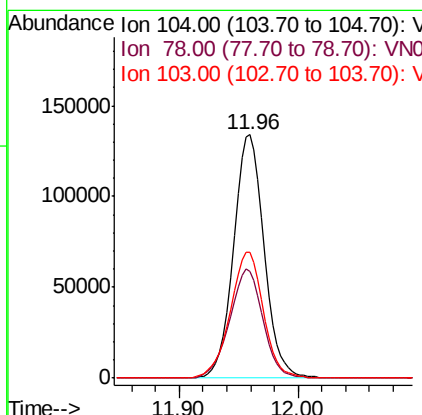
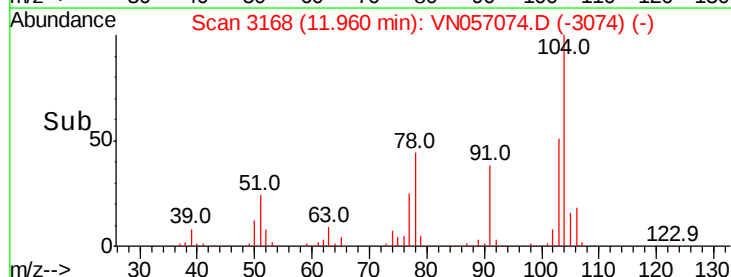
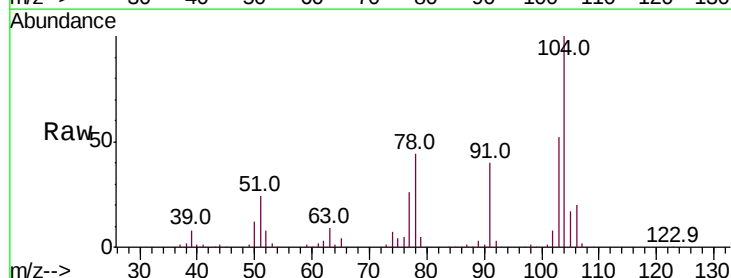
Manual Integrations
APPROVED

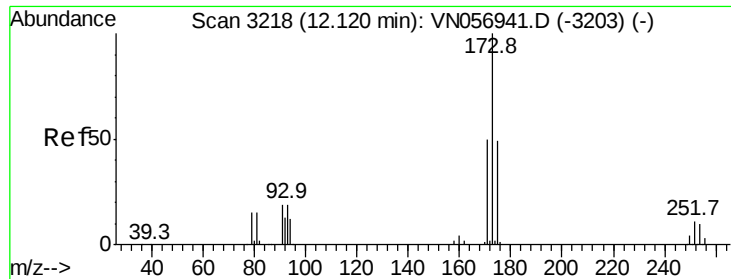
MMDadoda
8/7/2019 4:09:47 AM



#70
Styrene
Concen: 19.897 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion:104 Resp: 238275
Ion Ratio Lower Upper
104 100
78 48.8 38.1 57.1
103 55.9 44.3 66.5





#71

Bromoform

Concen: 21.293 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

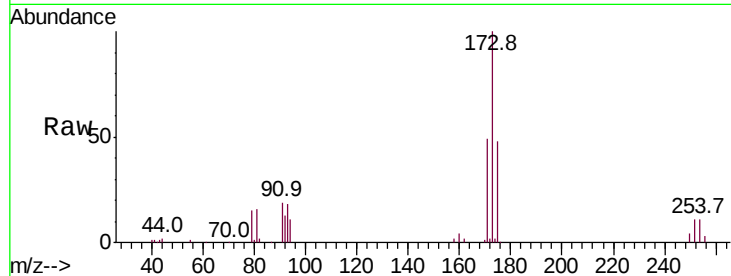
ClientSampled :

VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM

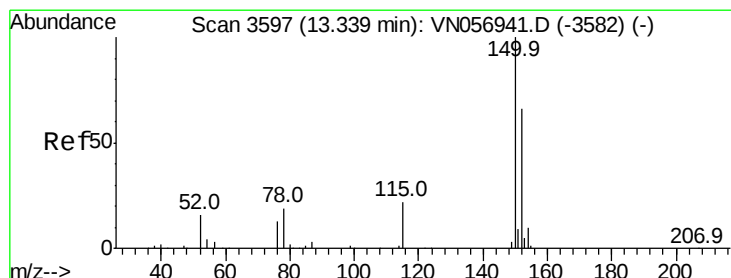
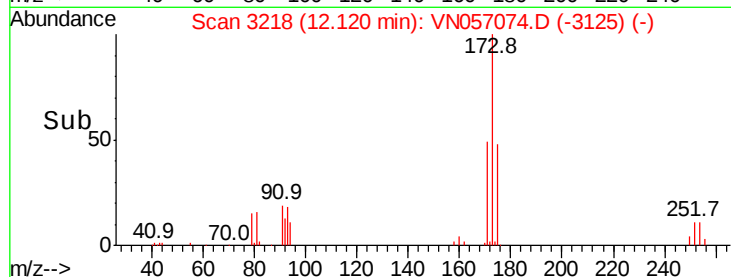
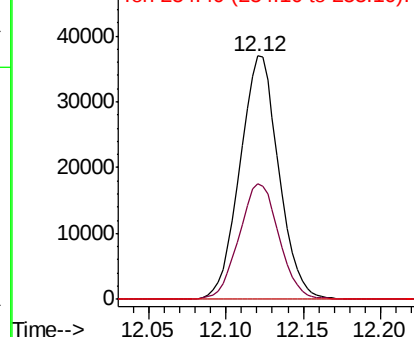


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

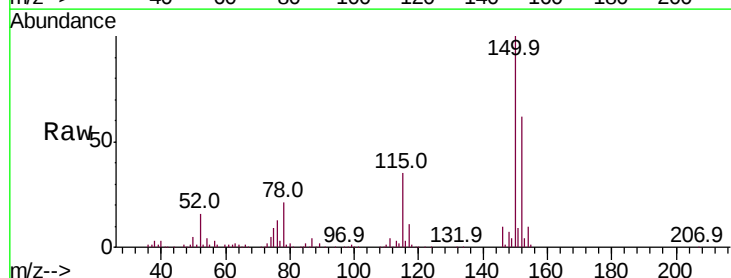
RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	28.2	84.6
150	165.8	0.0	349.4

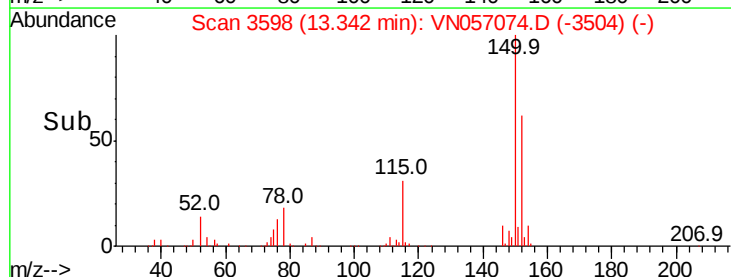
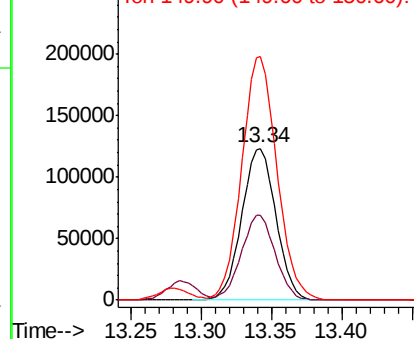


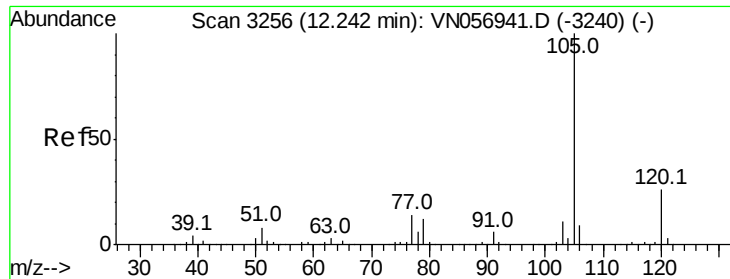
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.390 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion:105 Resp: 404855

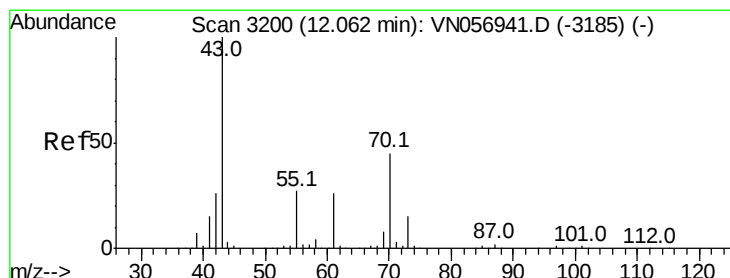
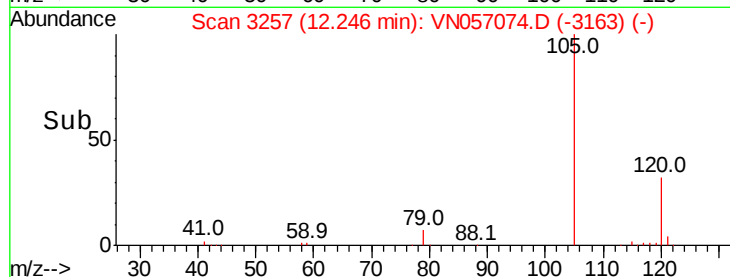
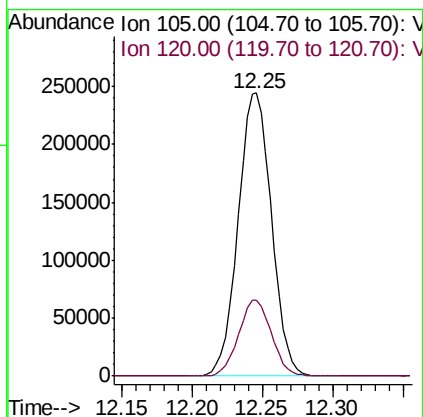
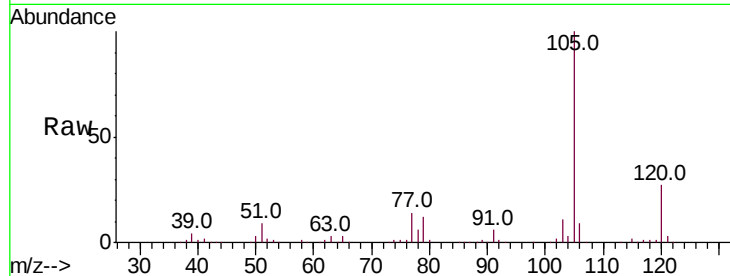
Ion Ratio Lower Upper

105 100

120 26.5 13.5 40.5

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#74

N-ethyl acetate

Concen: 21.154 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion: 43 Resp: 111065

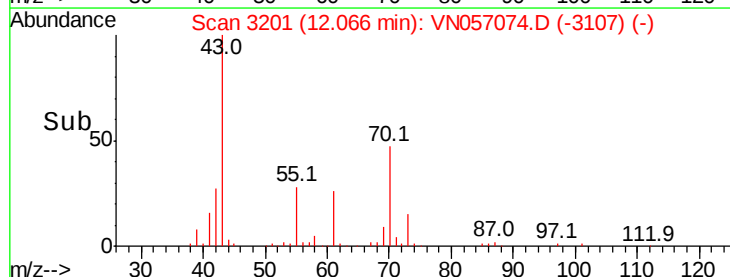
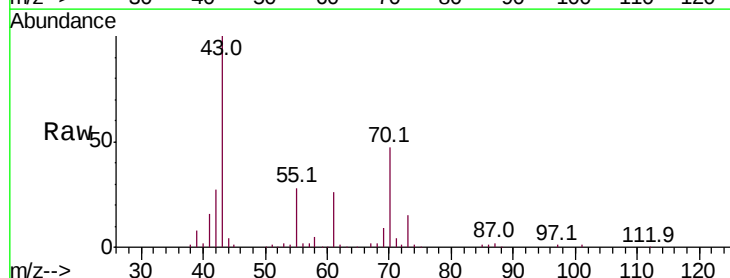
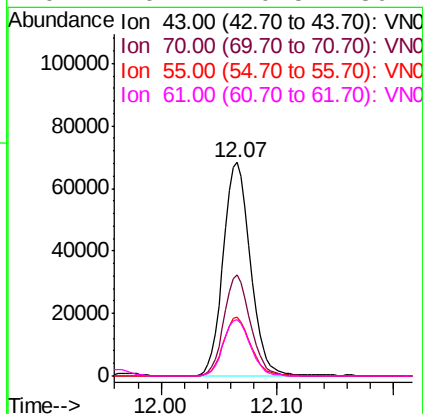
Ion Ratio Lower Upper

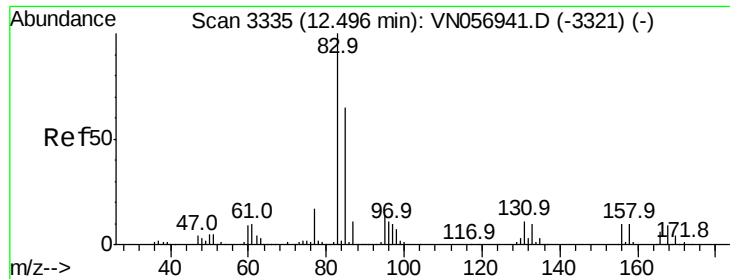
43 100

70 46.0 36.5 54.7

55 27.6 21.4 32.0

61 26.2 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 23.943 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

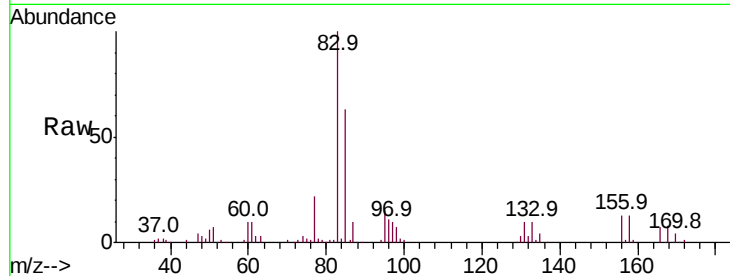
ClientSampleId :

VN0805WBSD01

Tot Ion:	83	Resp:	115509
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.3	16.1
85	64.0	32.5	97.4

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM

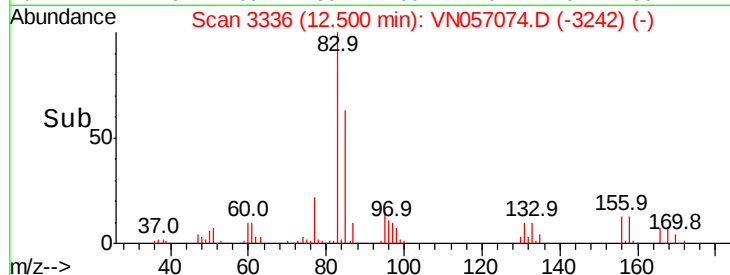


Abundance Ion 82.90 (82.60 to 83.60): VN056941.D (-3321) (-)

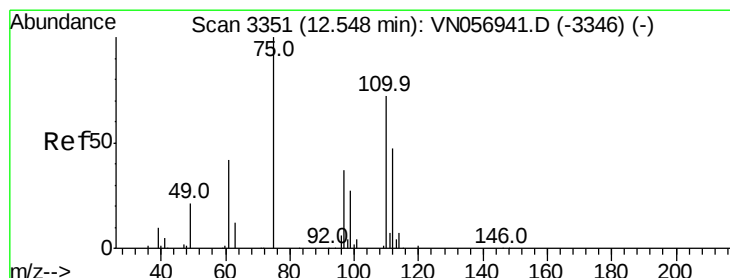
Ion 130.80 (130.50 to 131.50): VN056941.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN056941.D (-3321) (-)

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 24.186 ug/l m

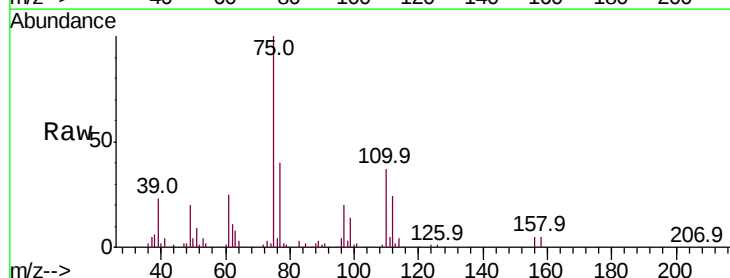
RT: 12.55 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

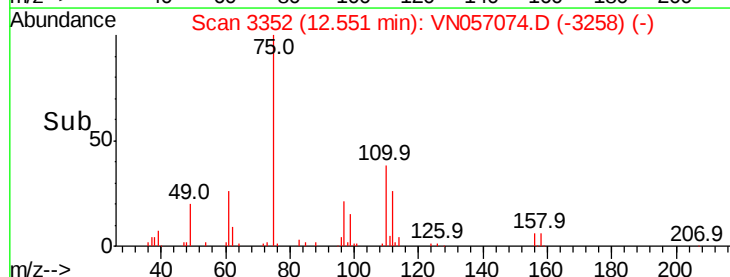
Tgt Ion:	75	Resp:	102763
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



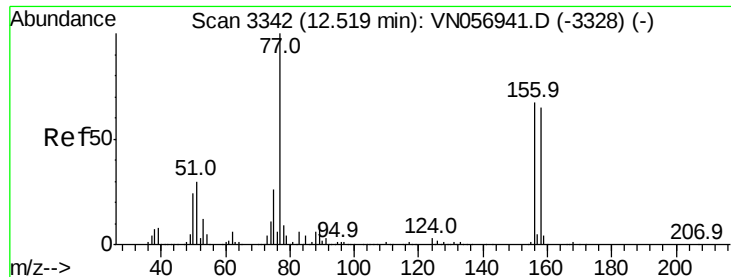
Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN056941.D (-3346) (-)

Time-->



Time-->



#77

Bromobenzene

Concen: 22.066 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

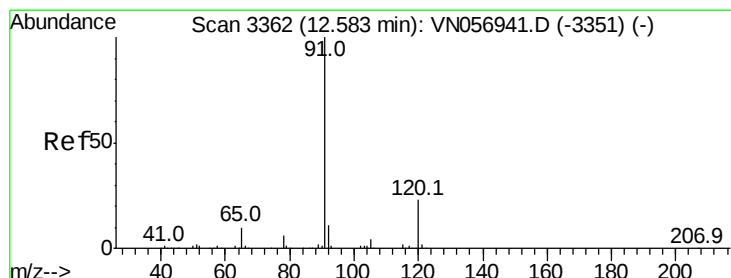
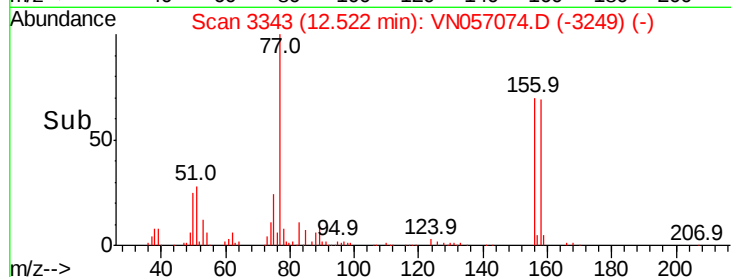
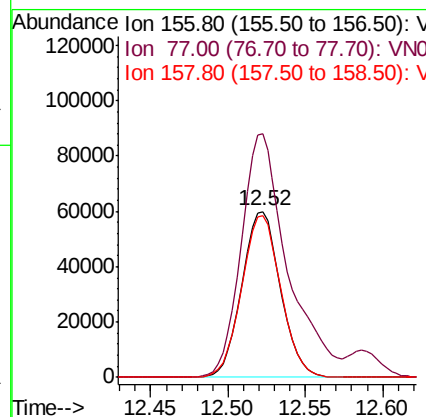
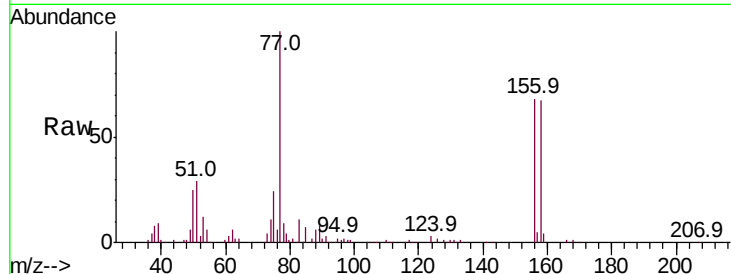
ClientSampleId :

VN0805WBSD01

Tot Ion:	156	Resp:	104132
Ion Ratio	Lower	Upper	
156	100		
77	177.0	89.5	268.5
158	98.6	48.4	145.3

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#78

n-propylbenzene

Concen: 21.426 ug/l

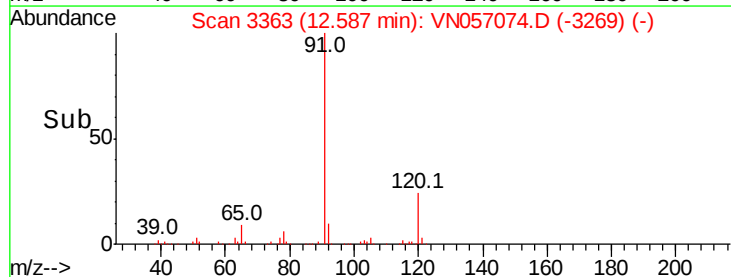
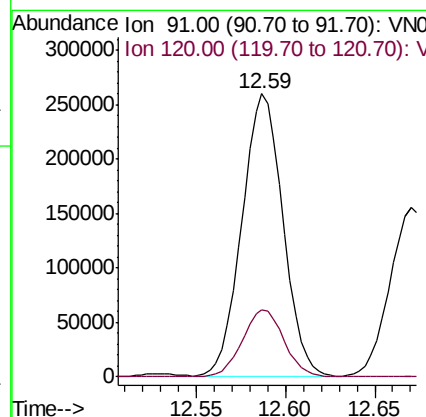
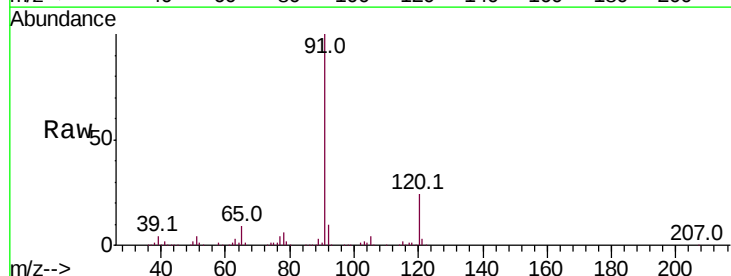
RT: 12.59 min Scan# 3363

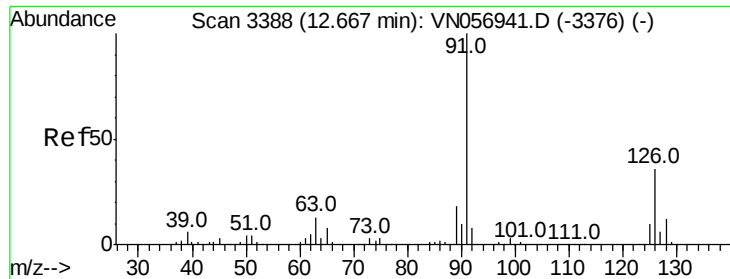
Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	91	Resp:	413659
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.8	35.4





#79

2-Chlorotoluene

Concen: 21.556 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleId :

VN0805WBSD01

Tot Ion: 91 Resp: 256261

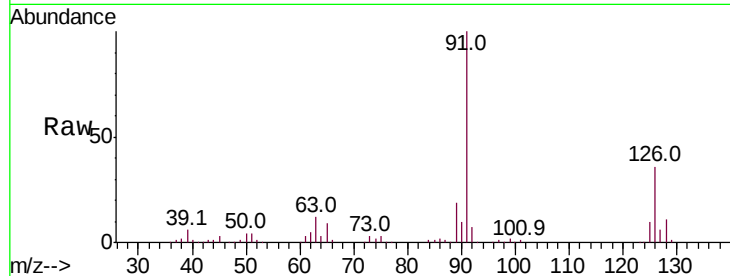
Ion Ratio Lower Upper

91 100

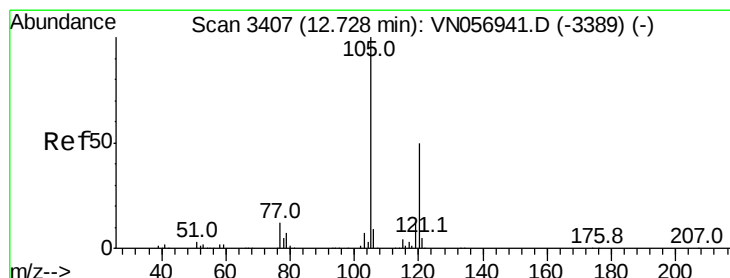
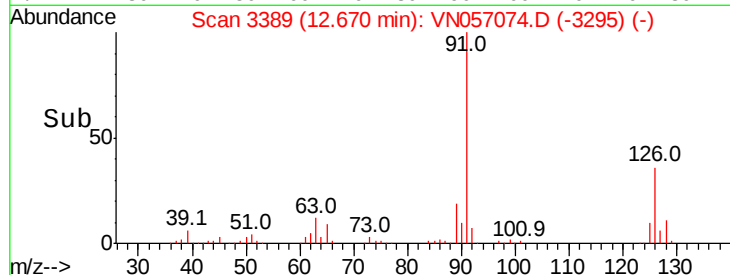
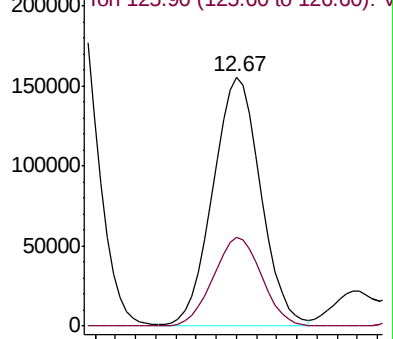
126 36.5 17.9 53.7

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



Abundance Ion 91.00 (90.70 to 91.70): VN056941.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 22.475 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN057074.D

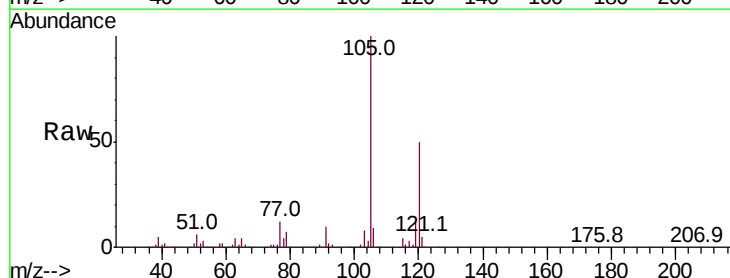
Acq: 5 Aug 2019 11:32

Tgt Ion: 105 Resp: 333535

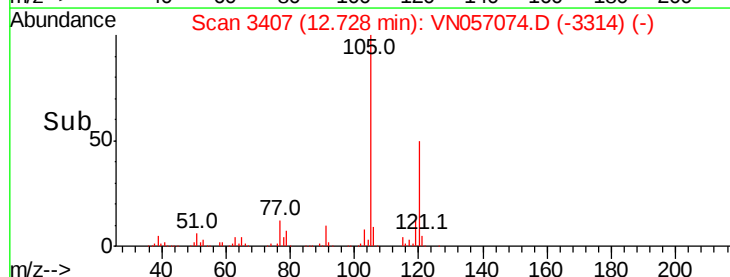
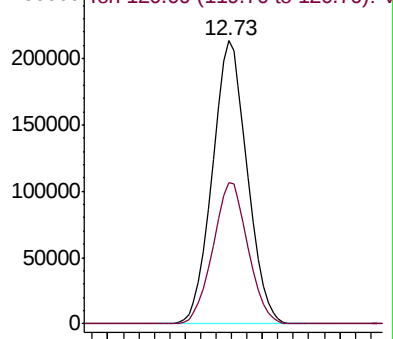
Ion Ratio Lower Upper

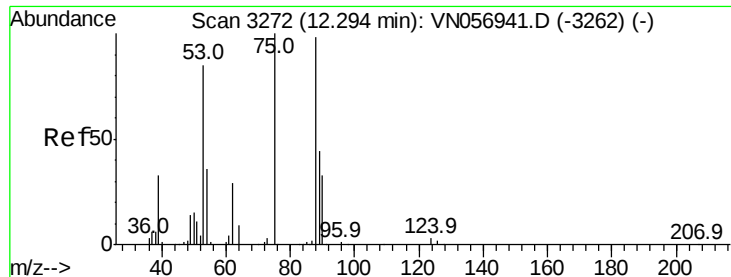
105 100

120 50.3 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056941.D (-3389) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 21.827 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

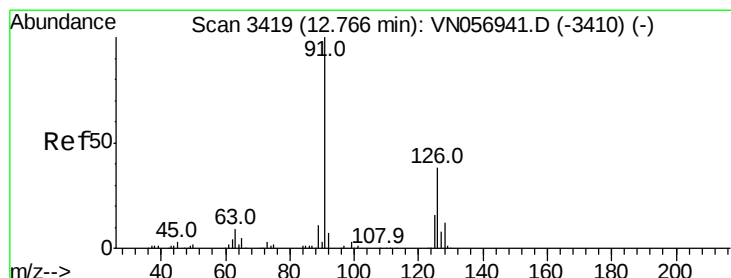
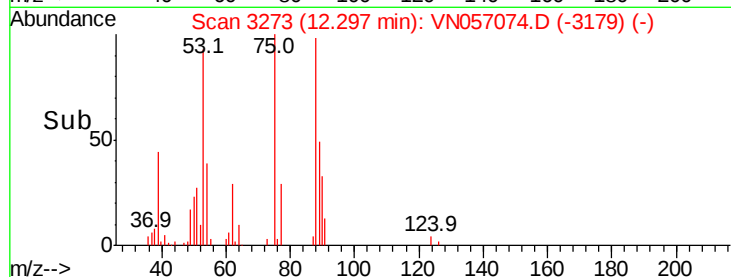
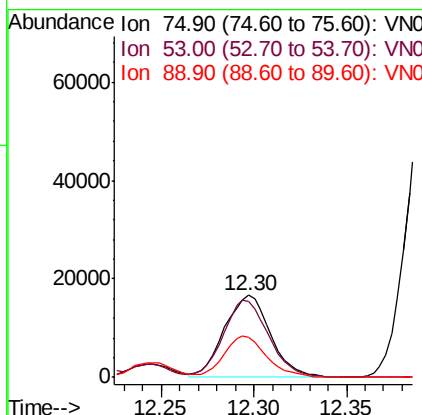
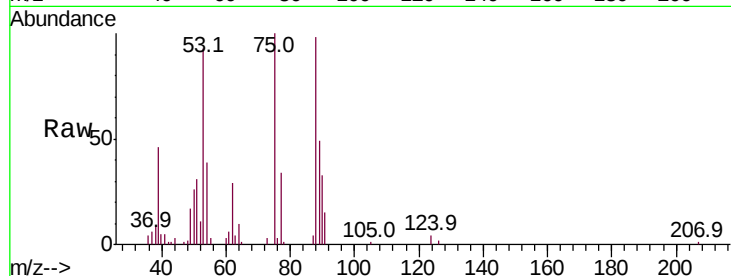
ClientSampleId :

VN0805WBSD01

Tot Ion:	75	Resp:	28864
Ion	Ratio	Lower	Upper
75	100		
53	92.9	69.3	103.9
89	46.5	35.8	53.6

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#82

4-Chlorotoluene

Concen: 21.304 ug/l

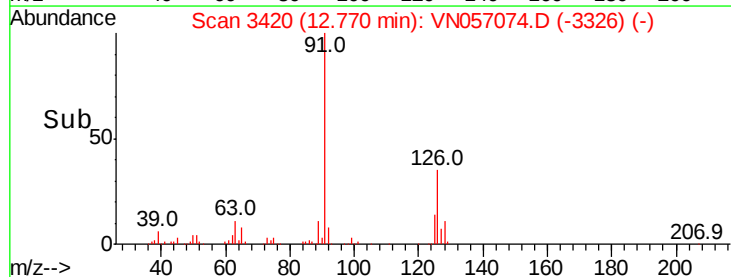
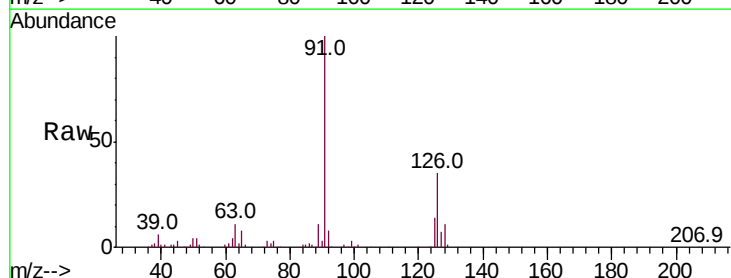
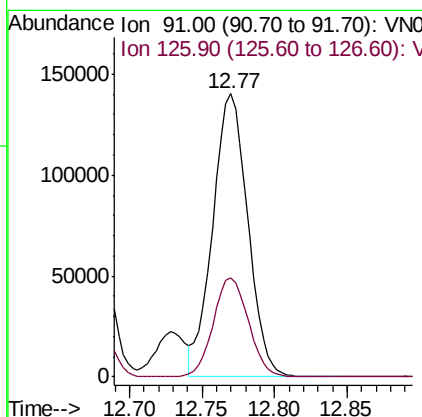
RT: 12.77 min Scan# 3420

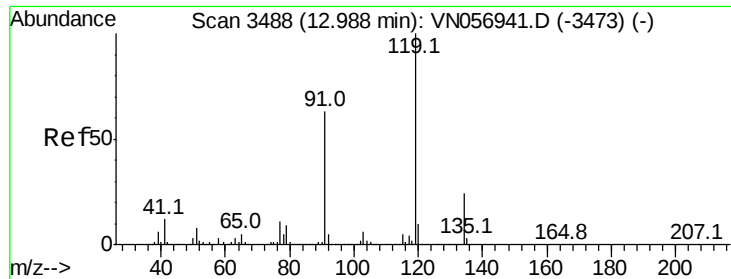
Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	91	Resp:	237005
Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.5	52.5





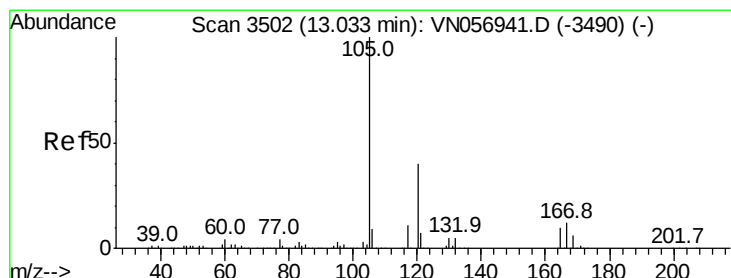
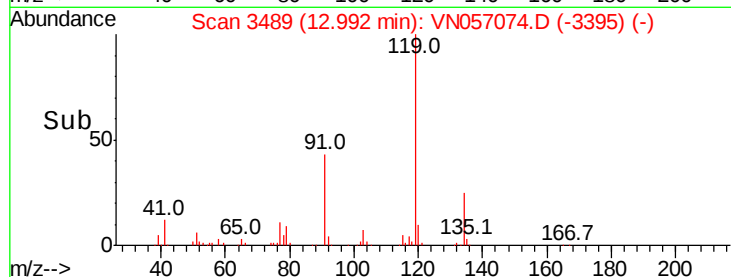
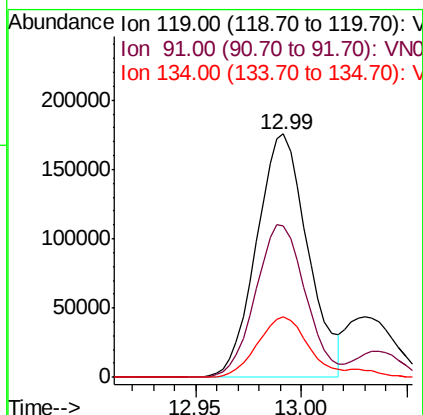
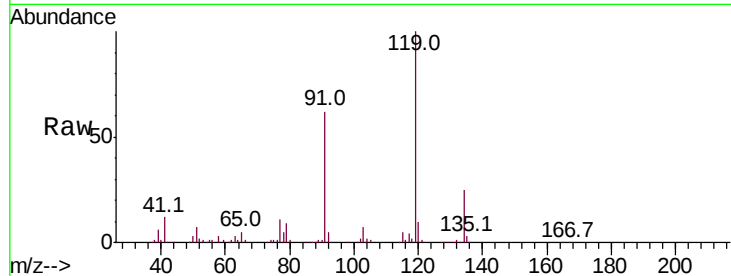
#83
tert-Butylbenzene
Concen: 22.576 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	296580		
91	61.8	31.3	93.8	
134	26.6	13.3	39.8	

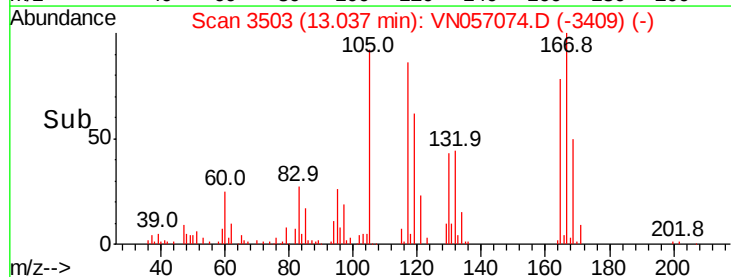
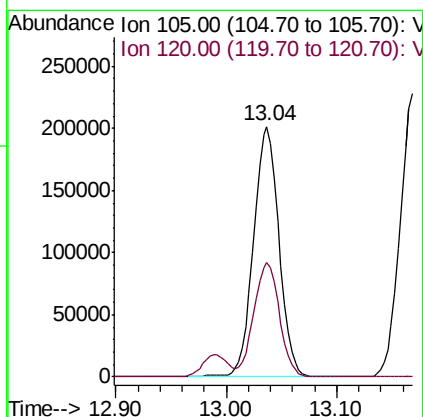
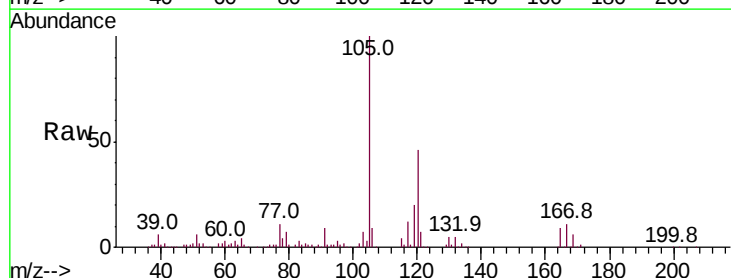
Manual Integrations
APPROVED

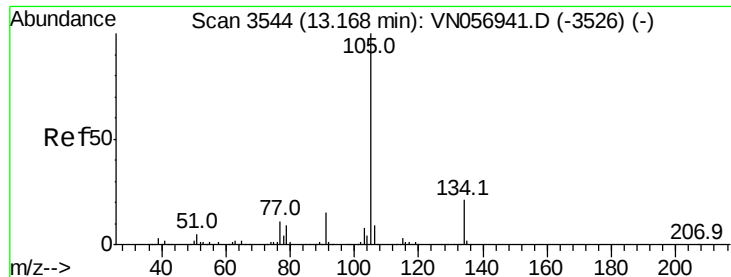
MMDadoda
8/7/2019 4:09:47 AM



#84
1,2,4-Trimethylbenzene
Concen: 22.479 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	320987		
120	46.3	23.2	69.6	





#85

sec-Butylbenzene

Concen: 21.544 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

ClientSampleID :

VN0805WBSD01

Tot Ion:105 Resp: 365065

Ion Ratio Lower Upper

105 100

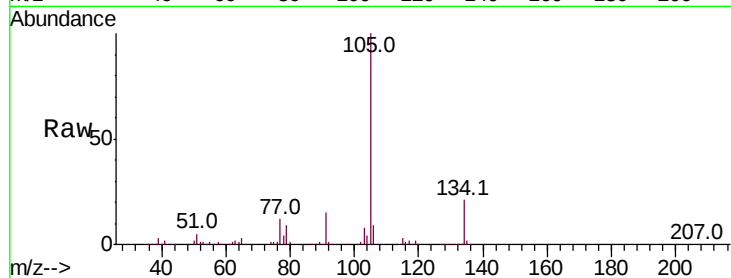
134 20.8 10.3 30.8

Manual Integrations

APPROVED

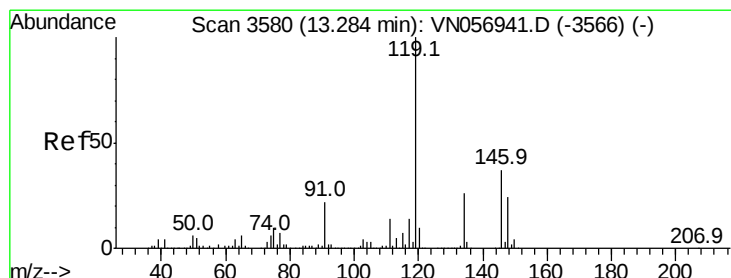
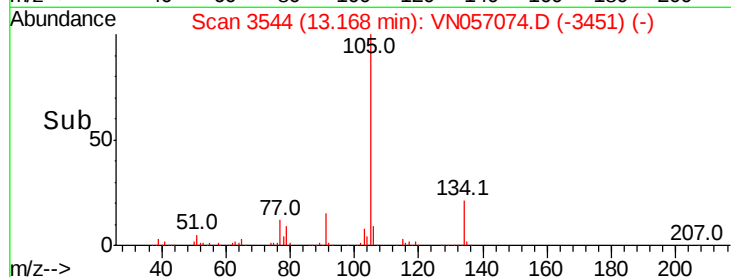
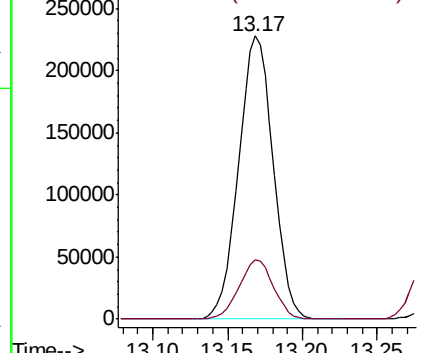
MMDadoda

8/7/2019 4:09:47 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.570 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

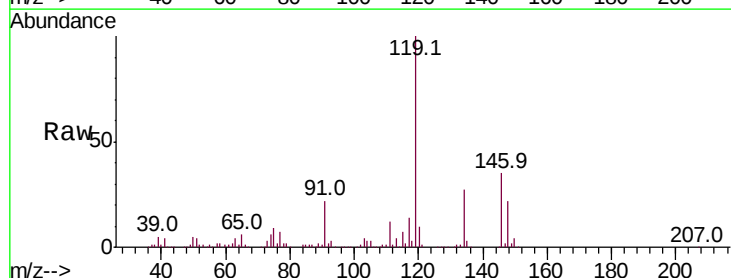
Tgt Ion:119 Resp: 324511

Ion Ratio Lower Upper

119 100

134 27.1 13.4 40.1

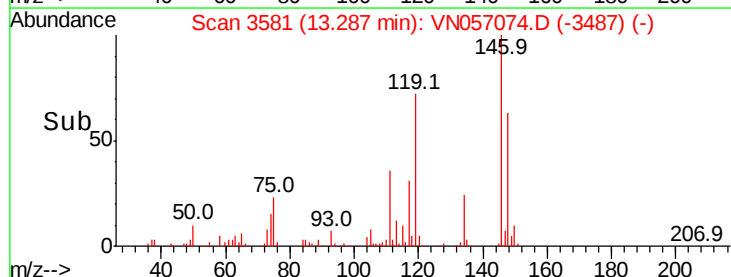
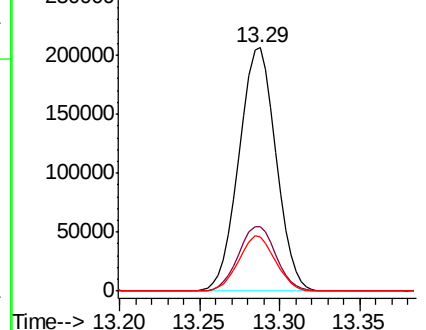
91 22.4 11.0 33.0

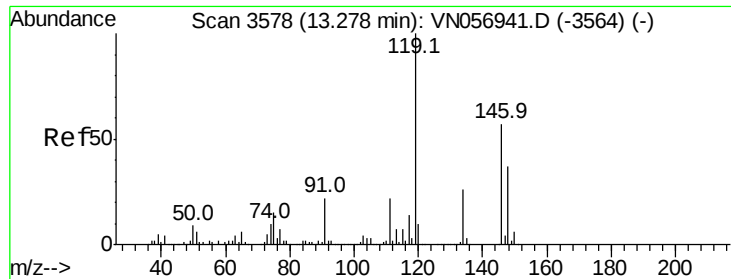


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 20.647 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN057074.D

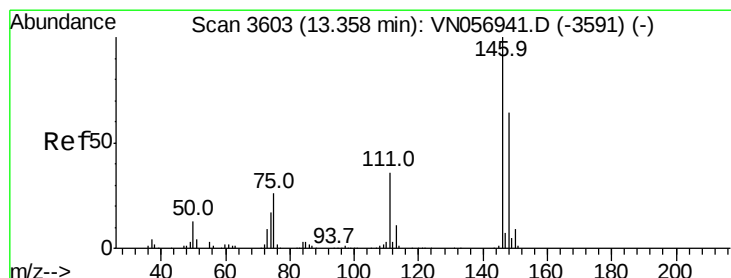
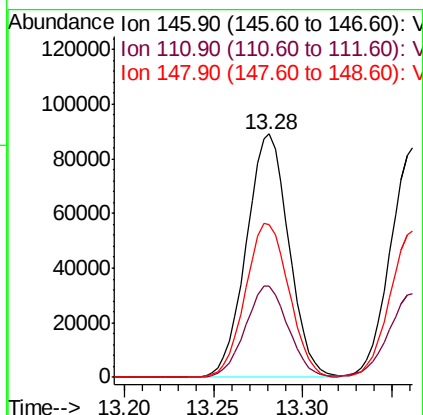
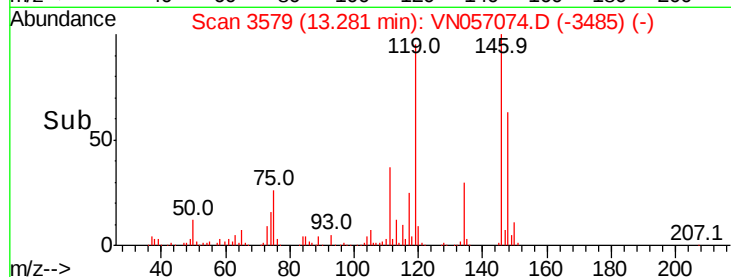
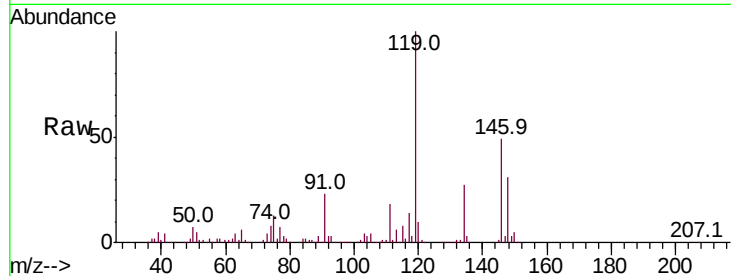
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	148210		
111	37.9	18.6	55.8	
148	65.0	32.2	96.6	

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#88

1,4-Dichlorobenzene

Concen: 20.426 ug/l

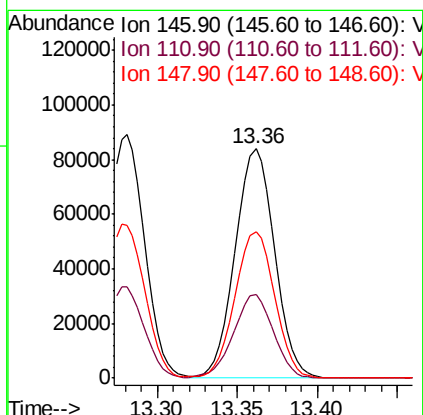
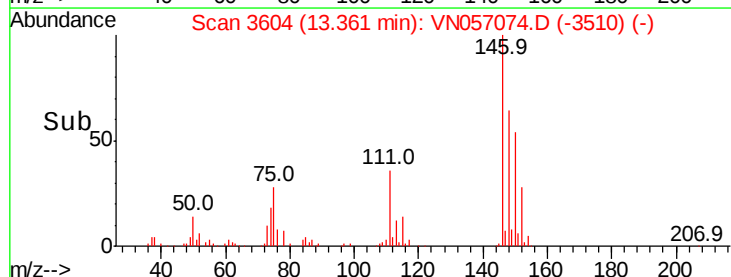
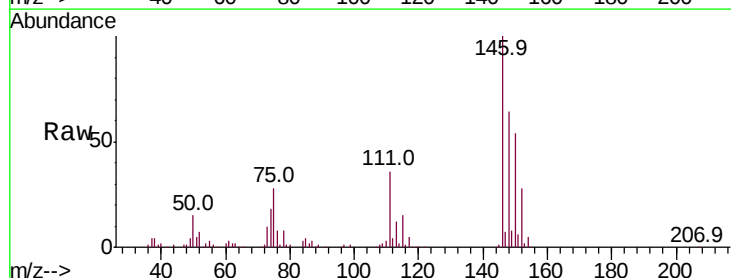
RT: 13.36 min Scan# 3604

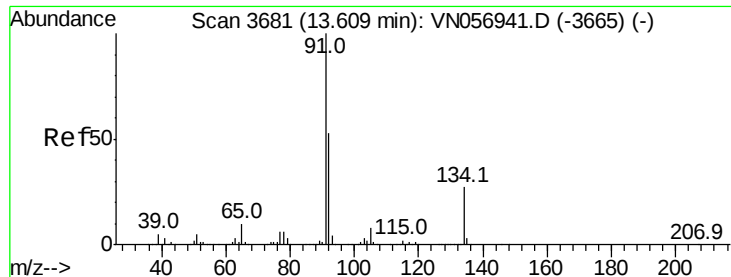
Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	141153		
111	36.8	18.4	55.2	
148	64.3	32.3	96.9	





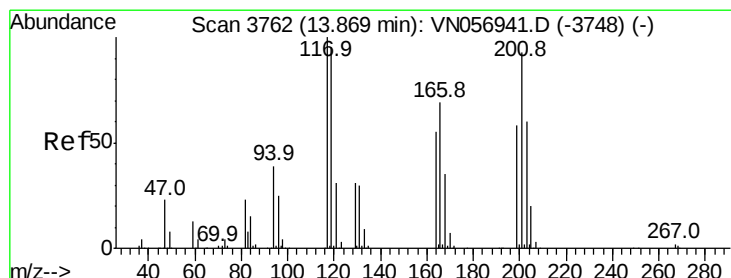
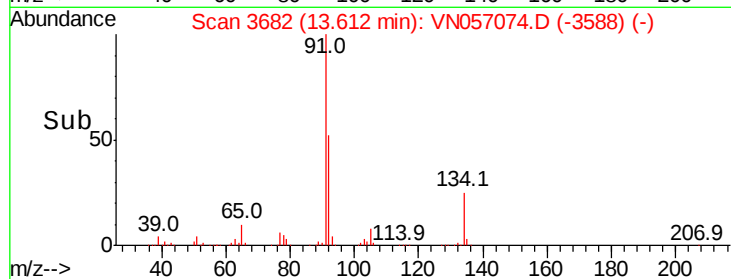
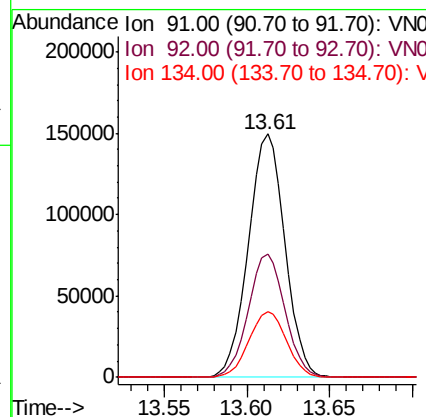
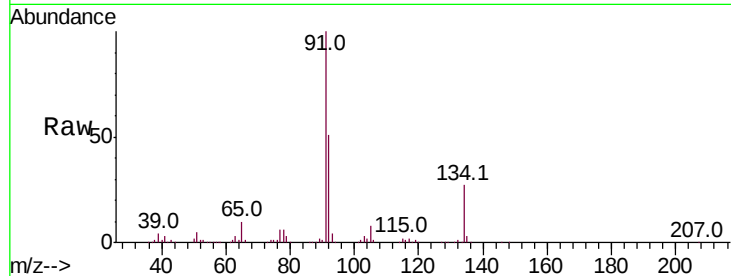
#89
n-Butylbenzene
Concen: 19.756 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Instrument :
MSVOA_N
ClientSampleId :
VN0805WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.2	78.5
134	27.7	13.5	40.4

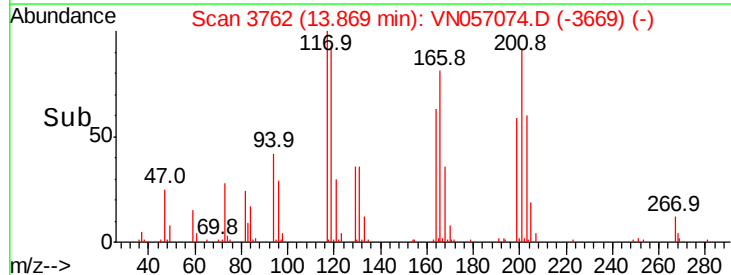
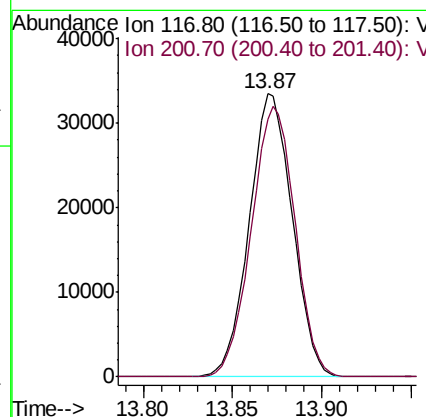
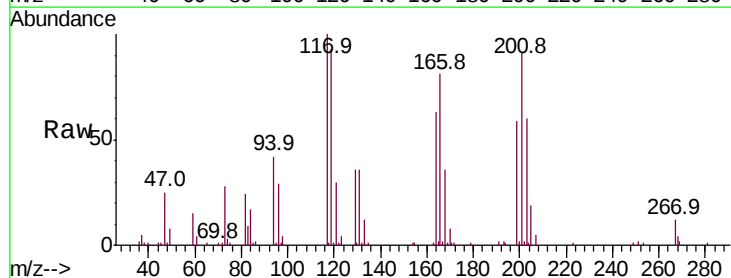
Manual Integrations
APPROVED

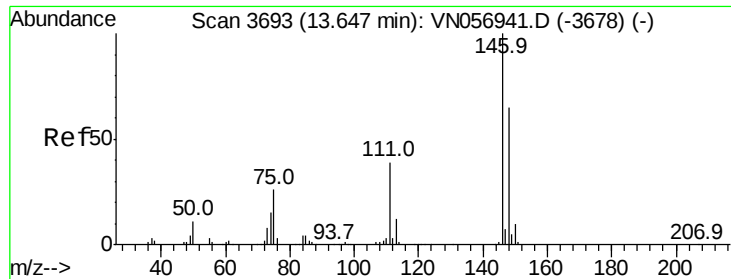
MMDadoda
8/7/2019 4:09:47 AM



#90
Hexachloroethane
Concen: 21.885 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. 0.00 min
Lab File: VN057074.D
Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Lower	Upper
117	100		
201	96.7	47.0	141.2





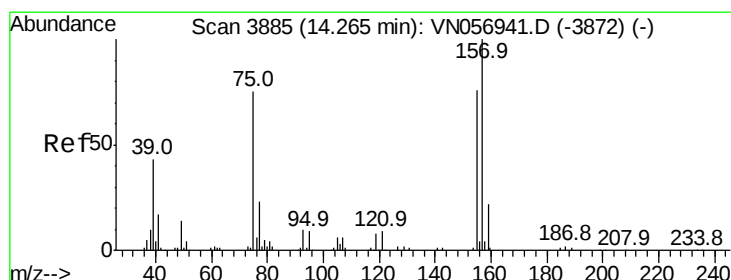
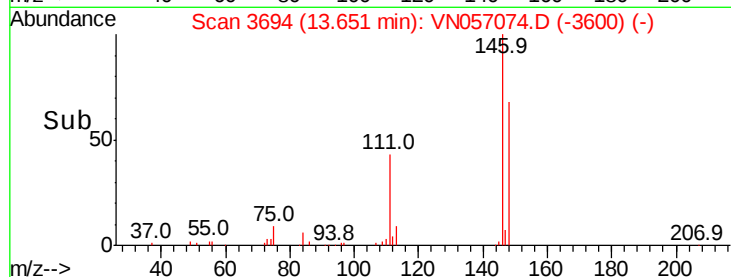
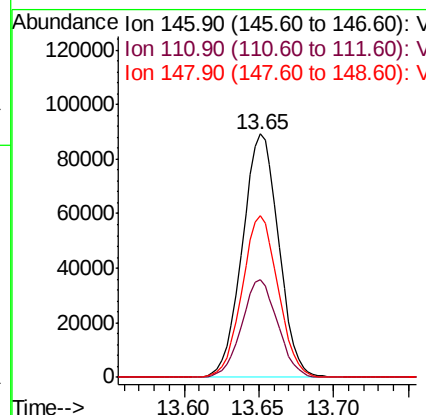
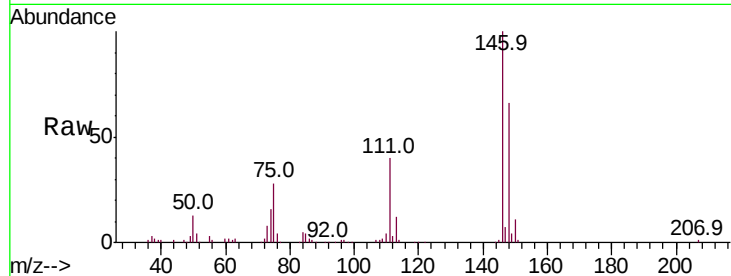
#91
 1,2-Dichlorobenzene
 Concen: 21.291 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	150420		
111	39.6	19.4	58.4	
148	66.1	32.2	96.6	

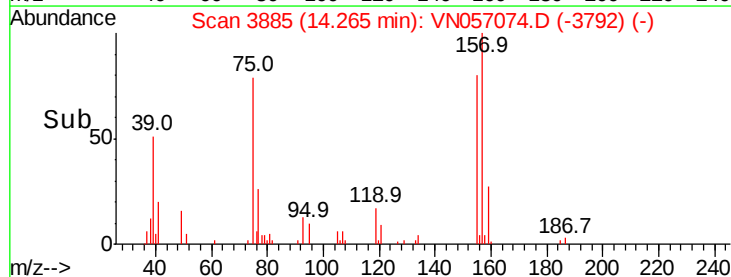
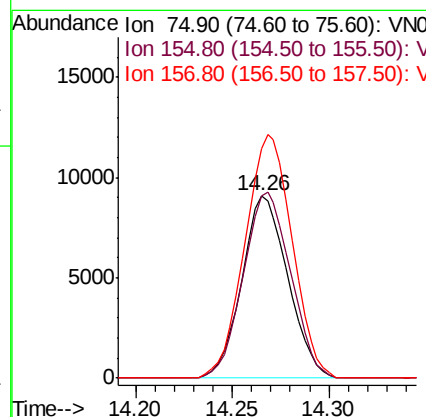
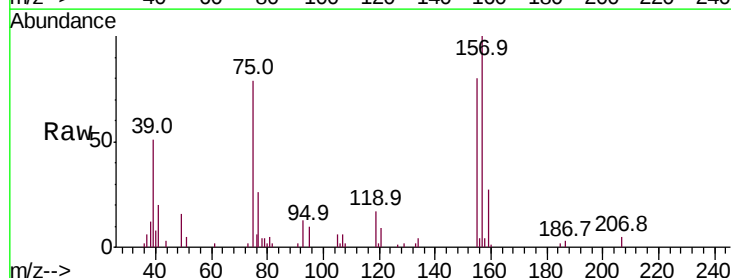
Manual Integrations
 APPROVED

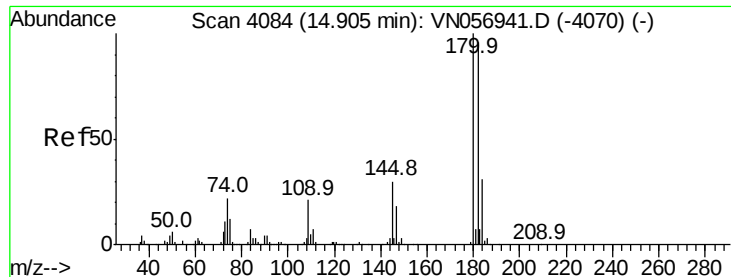
MMDadoda
 8/7/2019 4:09:47 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.885 ug/l
 RT: 14.26 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	15020		
155	104.9	50.2	150.6	
157	137.1	65.1	195.4	





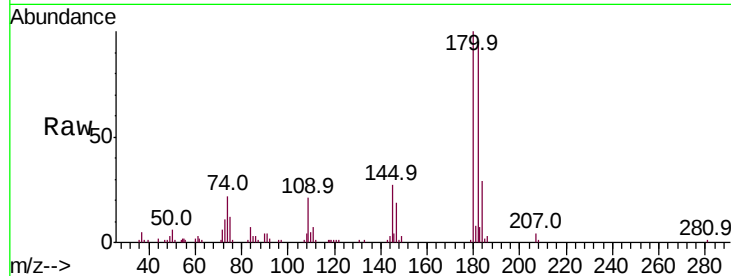
#93
 1,2,4-Trichlorobenzene
 Concen: 15.312 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0805WBSD01

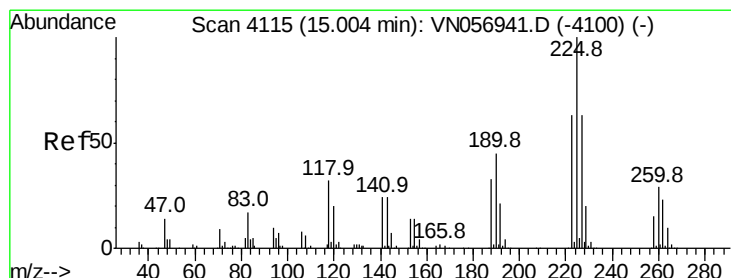
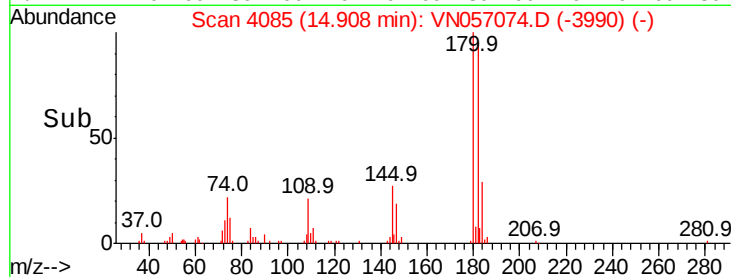
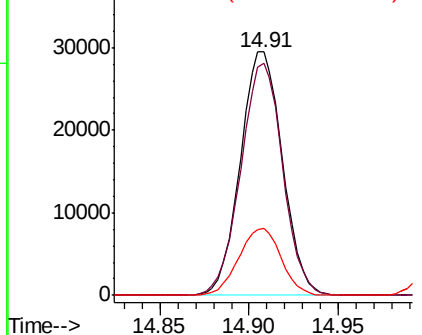
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.9	47.6	142.8	
145	27.5	14.2	42.8	

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 4:09:47 AM

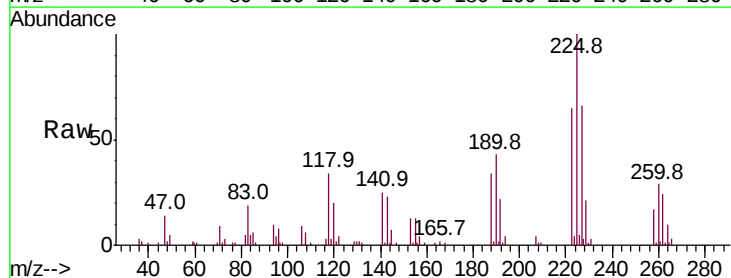


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

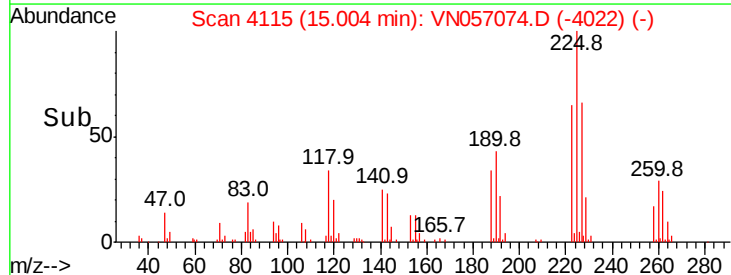
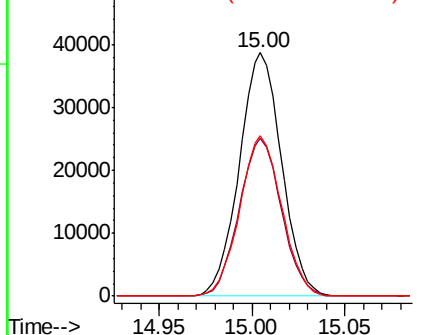


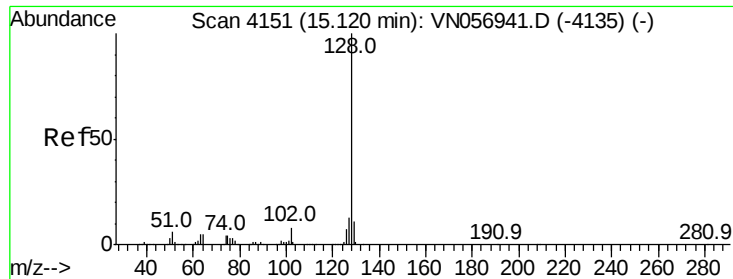
#94
 Hexachlorobutadiene
 Concen: 23.106 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN057074.D
 Acq: 5 Aug 2019 11:32

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	64.5	30.8	92.4	
227	65.2	31.1	93.5	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 16.049 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Instrument :

MSVOA_N

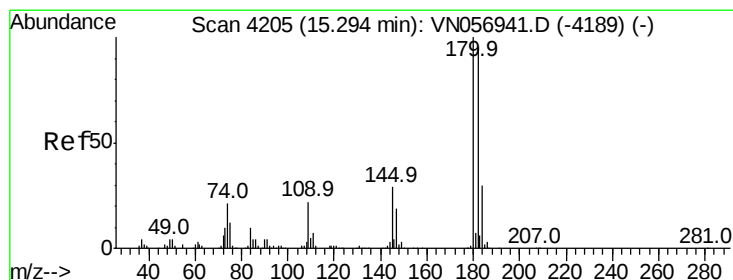
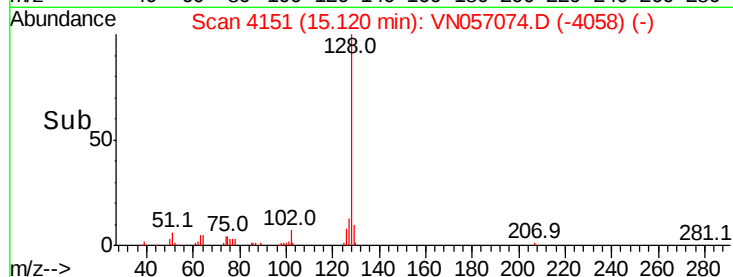
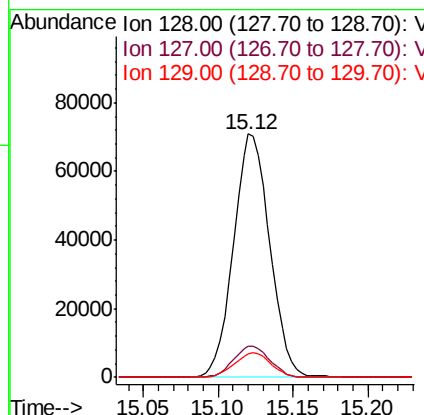
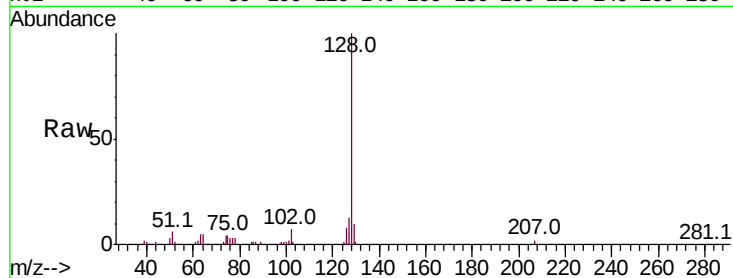
ClientSampleId :

VN0805WBSD01

Tot Ion:	128	Resp:	119337
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.0	15.0
129	10.2	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/7/2019 4:09:47 AM



#96

1,2,3-Trichlorobenzene

Concen: 17.587 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. 0.00 min

Lab File: VN057074.D

Acq: 5 Aug 2019 11:32

Tgt Ion:	180	Resp:	59670
Ion Ratio	Lower	Upper	
180	100		
182	93.2	48.0	144.2
145	28.1	15.0	45.0

