

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112018\
 Data File : VL032776.D
 Acq On : 20 Nov 2018 11:57
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 21 04:04:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1599458	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4085426	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	4129312	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2787468	9.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1698130	7.386	ppbv	97
3) Chlorodifluoromethane	3.02	51	1074334	8.472	ppbv	99
4) Chloromethane	3.17	50	606985	8.632	ppbv	99
5) Vinyl Chloride	3.30	62	625450	8.395	ppbv	99
6) Bromomethane	3.52	94	408039	8.952	ppbv	91
7) Chloroethane	3.61	64	238340	8.876	ppbv	99
8) Dichlorotetrafluoroethane	3.23	85	1520519	8.393	ppbv	96
9) Propene	3.04	41	481897	9.496	ppbv	99
10) Heptane	8.26	43	1922466	9.923	ppbv	100
11) Trichlorofluoromethane	4.01	101	2552206	11.779	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1461658	8.259	ppbv	94
13) Ethanol	3.66	45	119624	7.197	ppbv	95
14) Bromoethene	3.80	108	535209	9.115	ppbv	99
15) Acetone	3.91	43	1101069	7.538	ppbv	99
16) 1,3-Butadiene	3.37	39	539835	9.543	ppbv	94
17) tert-Butyl alcohol	4.36	59	517226	11.290	ppbv	100
18) 1,1-Dichloroethene	4.36	96	819661	9.418	ppbv	99
19) Isopropyl Alcohol	4.03	45	1396151	14.348	ppbv	# 99
20) Methylene Chloride	4.42	84	678835	8.977	ppbv	99
21) Allyl Chloride	4.49	41	1257595	10.245	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	827741	9.740	ppbv	95
23) Vinyl Acetate	5.17	43	2618501	9.834	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1898222	8.967	ppbv	98
25) Ethyl Acetate	5.78	43	3353572	9.851	ppbv	100
26) Hexane	5.79	57	1531015	10.103	ppbv	99
27) Carbon Disulfide	4.63	76	2066113	10.752	ppbv	99
28) Methyl tert-Butyl Ether	5.12	73	2419571	10.012	ppbv	99
29) Chloroform	5.86	83	2552810	9.451	ppbv	99
30) Cyclohexane	7.26	84	1366275	10.308	ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	1494243	9.807	ppbv	100
32) 1,1,1-Trichloroethane	6.63	97	2574896	8.697	ppbv	98
34) 2-Butanone	5.34	43	2074161	9.789	ppbv	99
35) Carbon Tetrachloride	7.15	117	2809989	8.556	ppbv	99
36) Benzene	7.02	78	3206625	9.857	ppbv	100
37) 1,2-Dichloroethane	6.43	62	1903089	8.690	ppbv	98
38) Trichloroethene	7.97	130	1294205	9.830	ppbv	99
39) 1,2-Dichloropropane	7.75	63	1190117	9.601	ppbv	98
40) 1,4-Dioxane	7.97	88	448911	10.140	ppbv	85
41) Tetrahydrofuran	6.16	42	1272735	10.471	ppbv	99
42) Bromodichloromethane	7.93	83	2748830	9.259	ppbv	98
43) Methyl Methacrylate	8.15	69	1255443	10.337	ppbv	98

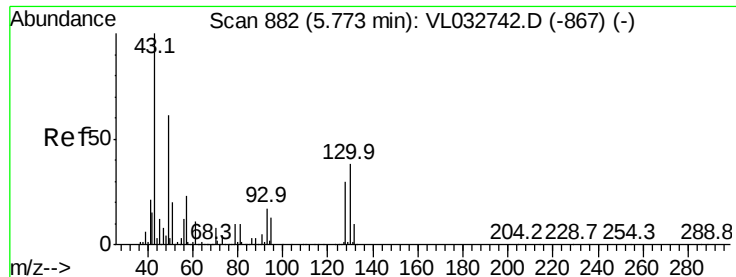
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	5271201	9.696	ppbv	98
45) t-1,3-Dichloropropene	9.43	75	1885821	11.571	ppbv	98
46) cis-1,3-Dichloropropene	8.85	75	2154744	10.943	ppbv	97
47) 1,1,2-Trichloroethane	9.63	97	1437383	9.807	ppbv	98
48) Dibromochloromethane	10.46	129	2470554	9.917	ppbv	100
49) Bromoform	13.22	173	2112202	10.267	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	3264231	9.863	ppbv	98
51) 2-Hexanone	10.28	43	2307626	10.823	ppbv #	99
52) Tetrachloroethene	11.39	164	1181510	10.440	ppbv	97
53) Toluene	9.96	91	3762499	11.086	ppbv	100
54) 1,2-Dibromoethane	10.78	107	2067443	9.979	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.29	131	1707312	8.865	ppbv	100
57) Chlorobenzene	12.32	112	2849907	9.016	ppbv	97
58) Ethyl Benzene	12.88	91	5023483	10.108	ppbv	97
59) m/p-Xylene	13.14	91	4022463	9.092	ppbv #	31
60) o-Xylene	13.87	91	4015118	9.026	ppbv	98
61) Styrene	13.70	104	3115827	10.760	ppbv	98
62) Isopropylbenzene	14.84	105	5823856	9.686	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2692174	7.764	ppbv	99
64) n-propylbenzene	15.73	120	1484074	9.384	ppbv	95
65) tert-Butylbenzene	16.92	119	5068063	9.403	ppbv	97
66) Benzyl Chloride	17.17	91	3047325	10.227	ppbv	99
67) sec-Butylbenzene	17.47	105	7407731	9.537	ppbv	99
69) p-Isopropyltoluene	17.83	119	5889126	9.535	ppbv	98
70) n-Butylbenzene	18.73	91	5830961	9.298	ppbv	99
71) 2-Chlorotoluene	15.63	91	4259871	9.500	ppbv	98
72) 4-Ethyltoluene	16.01	105	4738523	9.719	ppbv	98
73) 1,3,5-Trimethylbenzene	16.01	105	4738523	9.940	ppbv #	76
74) 1,2,4-Trimethylbenzene	16.94	105	4494679	8.811	ppbv	93
75) 1,3-Dichlorobenzene	17.18	146	2596712	8.874	ppbv	98
76) 1,4-Dichlorobenzene	17.32	146	2691803	9.848	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2503287	9.247	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1701354	11.645	ppbv	99
79) Naphthalene	22.43	128	3978389	11.872	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1437851	17.131	ppbv	97
81) 1,2,4-Trichlorobenzene	22.15	180	1984377	11.792	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

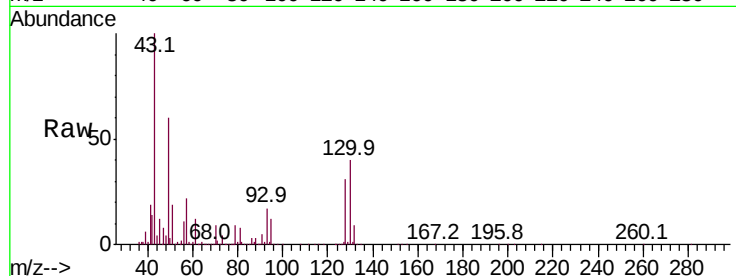
Tot Ion: 49 Resp: 1599458

Ion Ratio Lower Upper

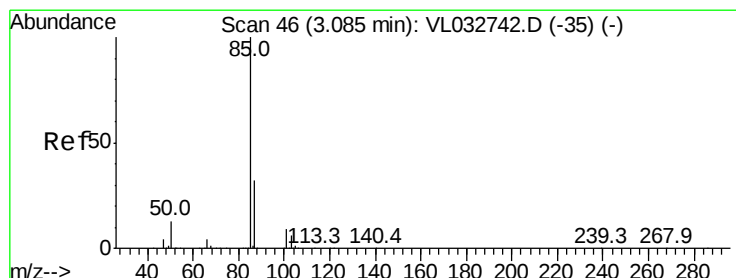
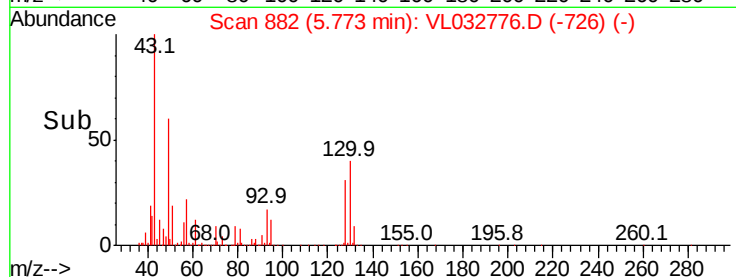
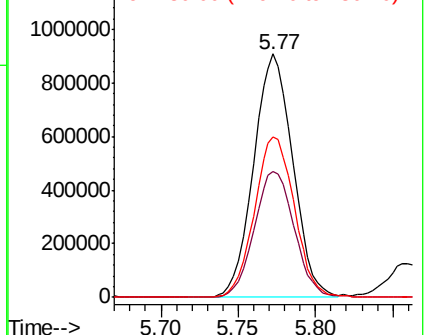
49 100

128 53.0 24.9 74.6

130 67.5 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.386 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032776.D

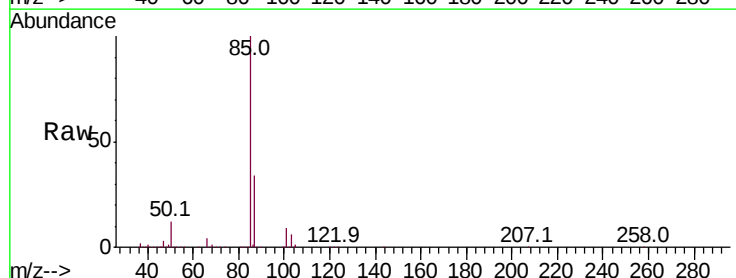
Acq: 20 Nov 2018 11:57

Tgt Ion: 85 Resp: 1698130

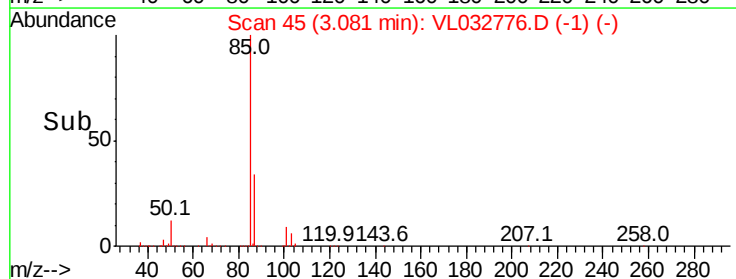
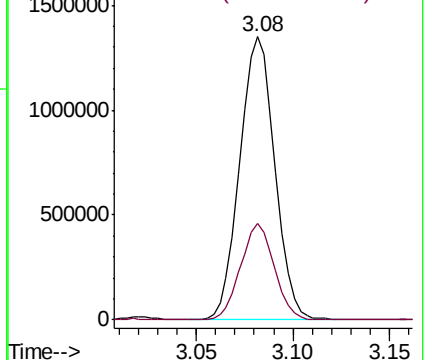
Ion Ratio Lower Upper

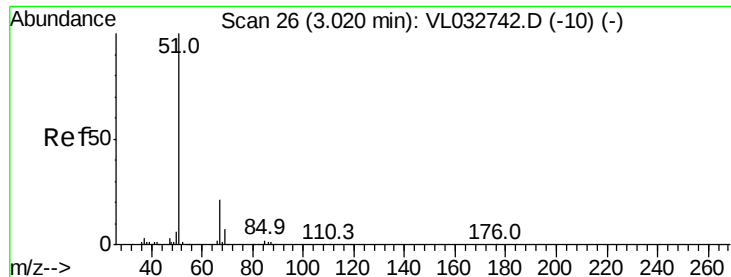
85 100

87 34.2 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.472 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

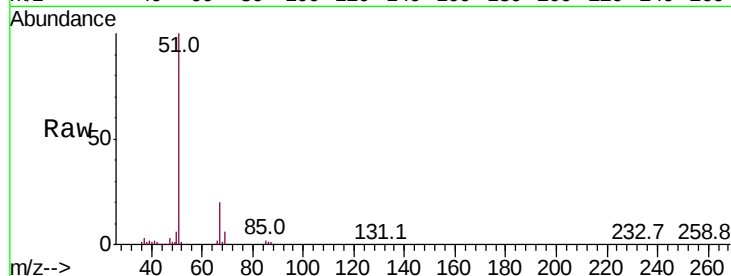
ClientSampleId :

Tot Ion: 51 Resp: 1074334

Ion Ratio Lower Upper

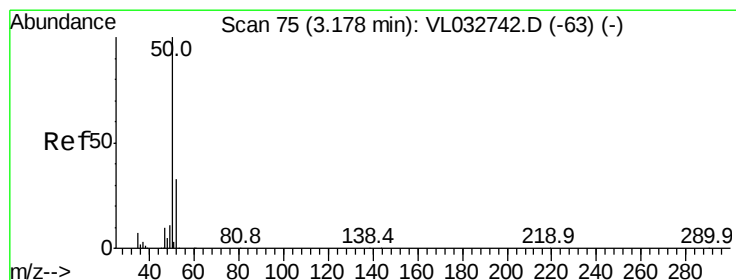
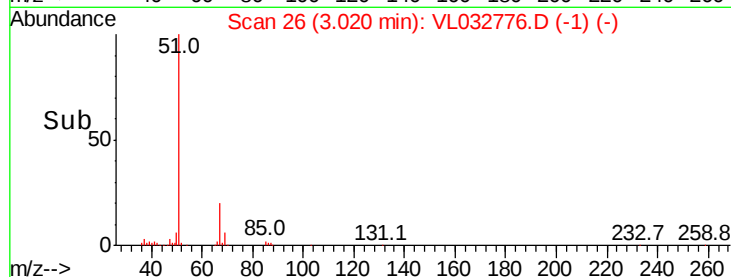
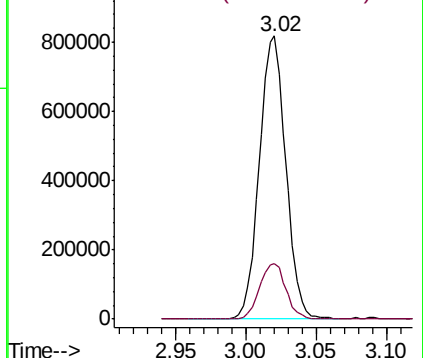
51 100

67 19.7 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.632 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032776.D

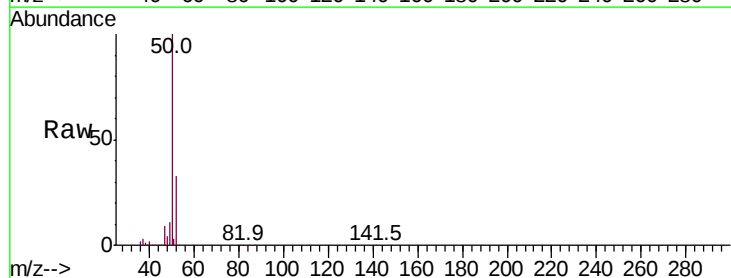
Acq: 20 Nov 2018 11:57

Tgt Ion: 50 Resp: 606985

Ion Ratio Lower Upper

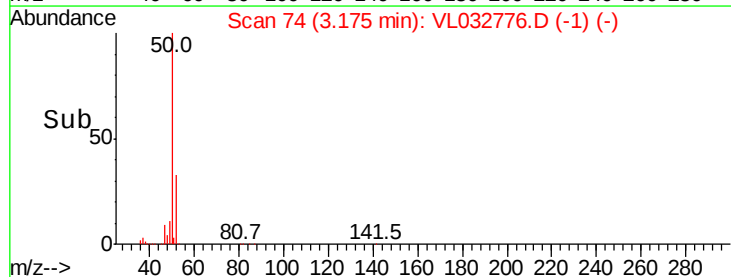
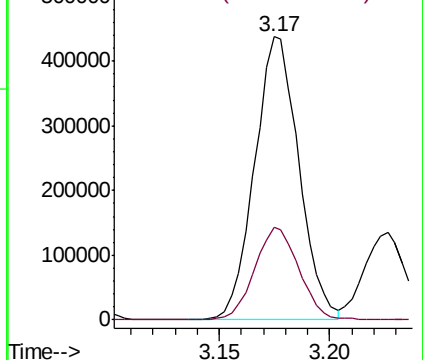
50 100

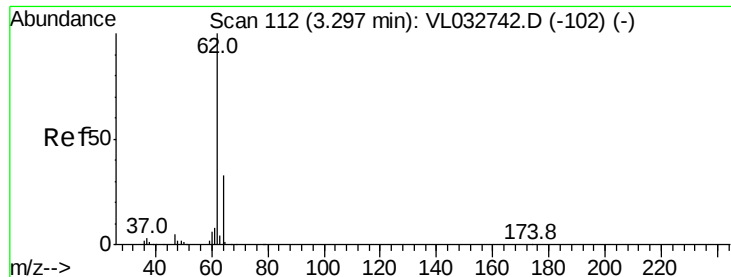
52 32.8 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.395 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

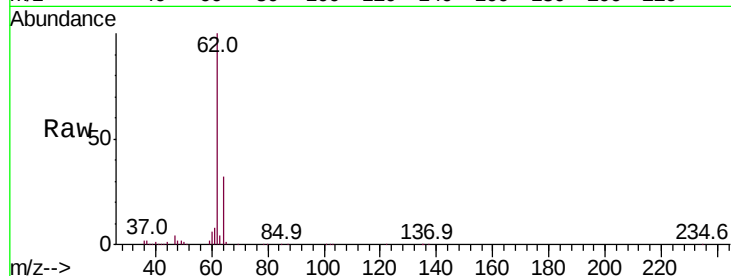
ClientSampleId :

Tot Ion: 62 Resp: 625450

Ion Ratio Lower Upper

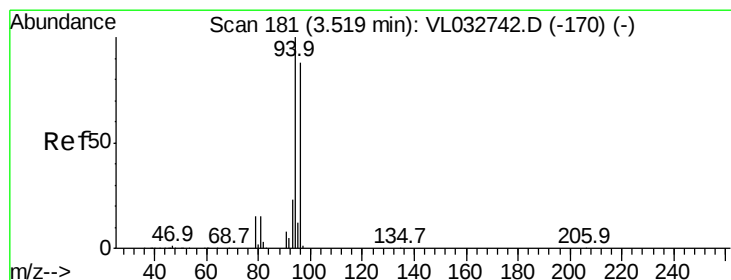
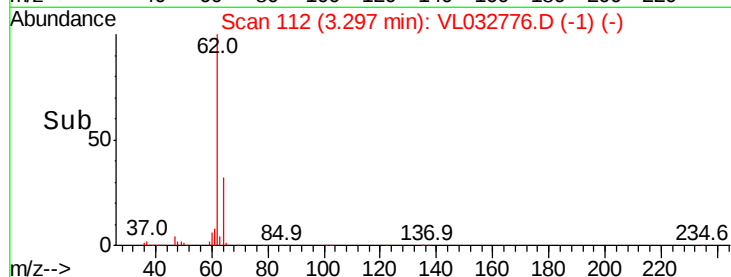
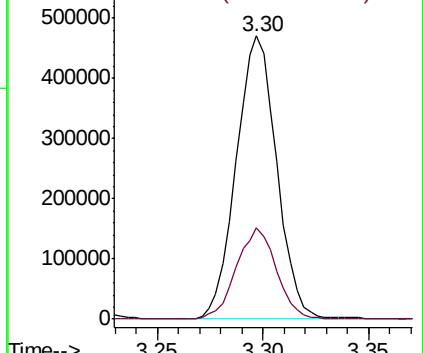
62 100

64 32.1 26.2 39.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.952 ppbv

RT: 3.52 min Scan# 181

Delta R.T. -0.00 min

Lab File: VL032776.D

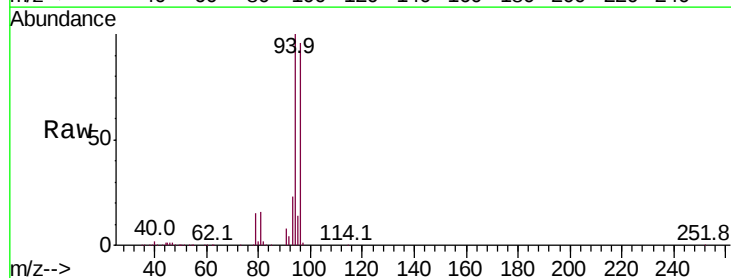
Acq: 20 Nov 2018 11:57

Tgt Ion: 94 Resp: 408039

Ion Ratio Lower Upper

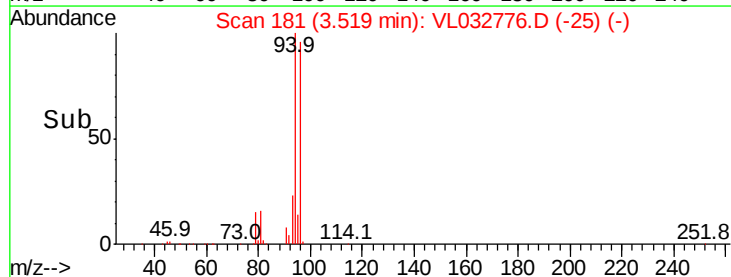
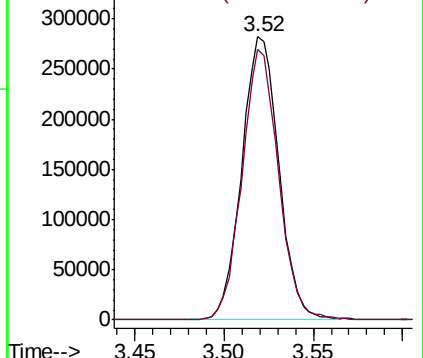
94 100

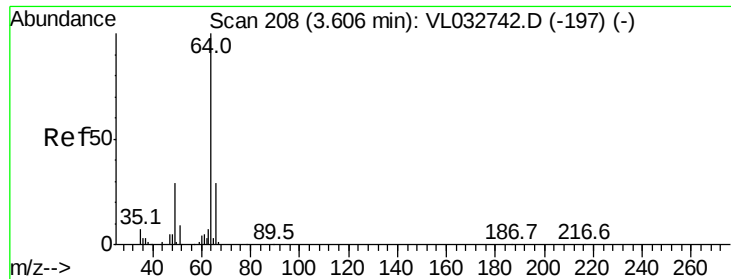
96 95.6 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.876 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

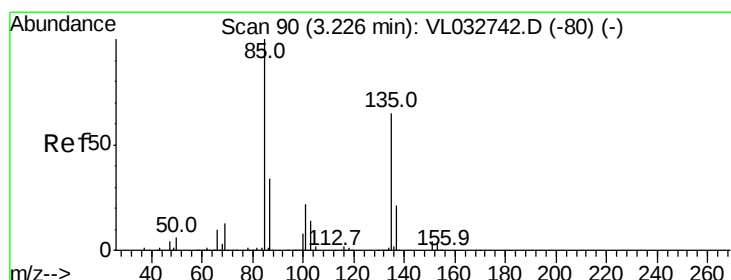
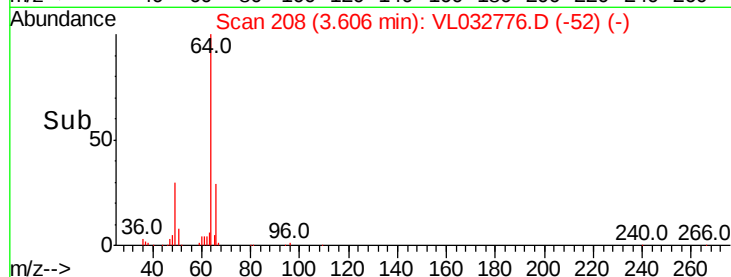
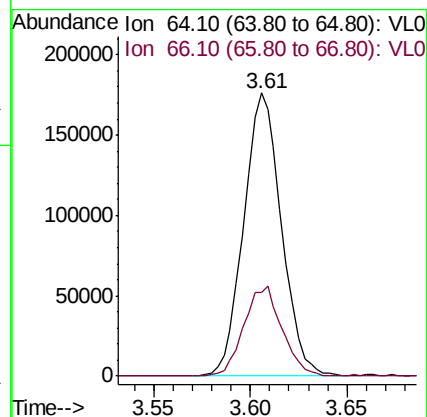
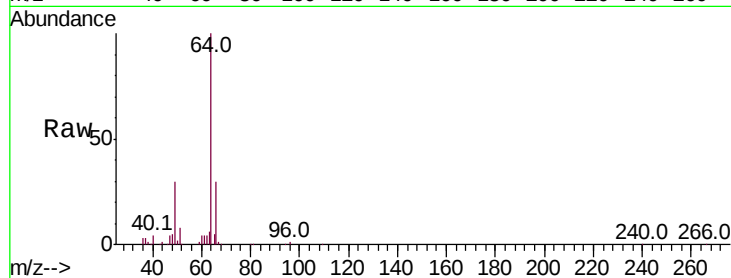
ClientSampleId :

Tot Ion: 64 Resp: 238340

Ion Ratio Lower Upper

64 100

66 29.8 23.2 34.8



#8

Dichlorotetrafluoroethane

Concen: 8.393 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL032776.D

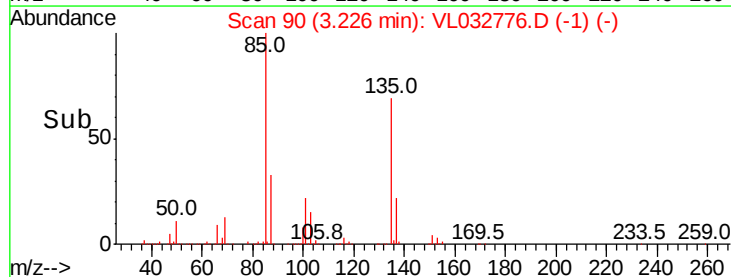
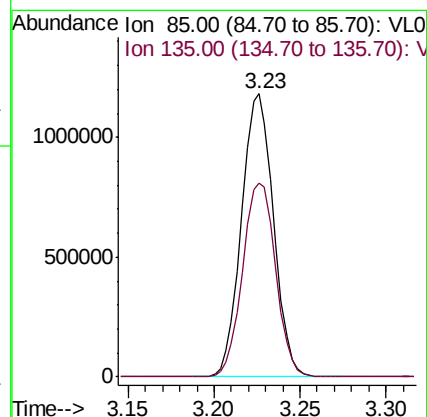
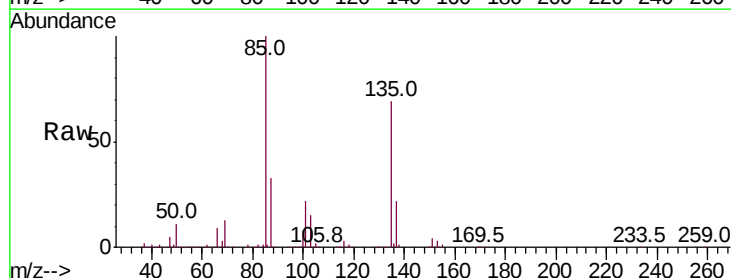
Acq: 20 Nov 2018 11:57

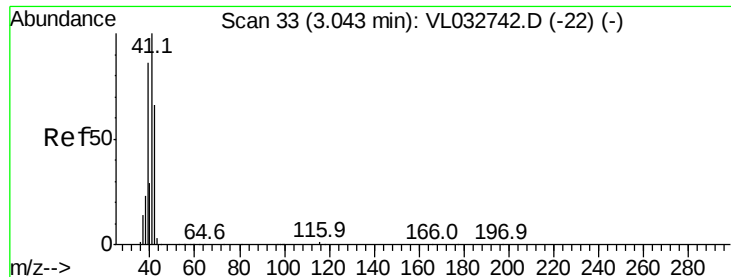
Tgt Ion: 85 Resp: 1520519

Ion Ratio Lower Upper

85 100

135 70.9 53.8 80.8





#9

Propene

Concen: 9.496 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

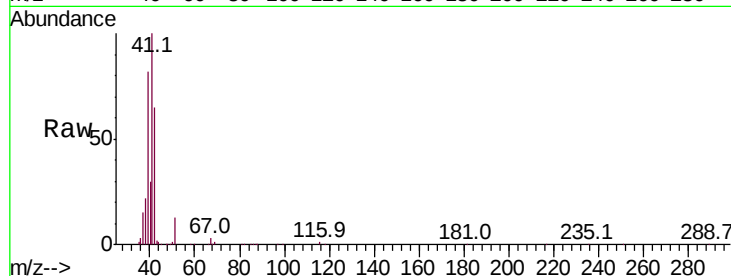
ClientSampleId :

Tot Ion: 41 Resp: 481897

Ion Ratio Lower Upper

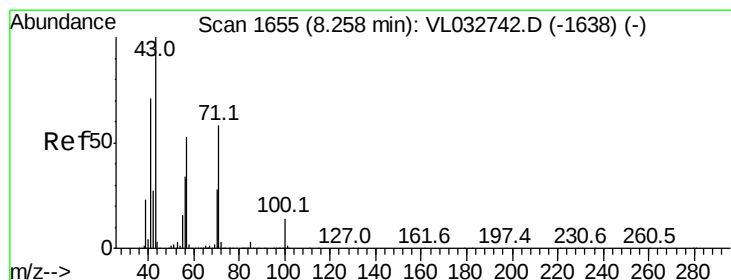
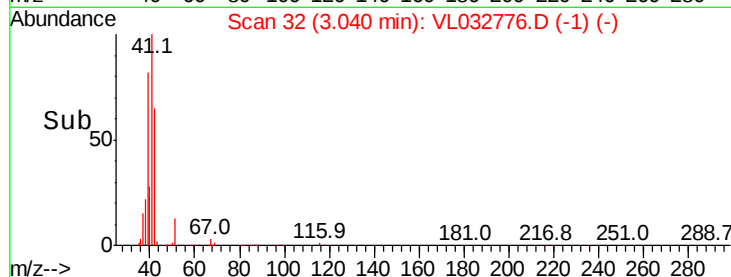
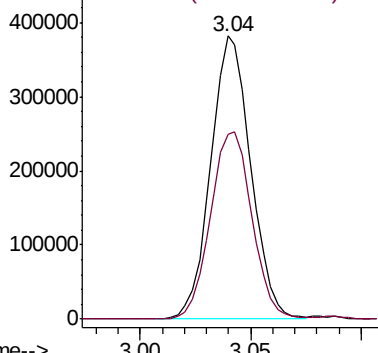
41 100

42 69.4 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.923 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VL032776.D

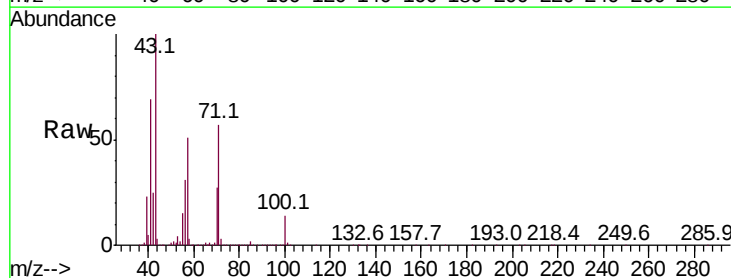
Acq: 20 Nov 2018 11:57

Tgt Ion: 43 Resp: 1922466

Ion Ratio Lower Upper

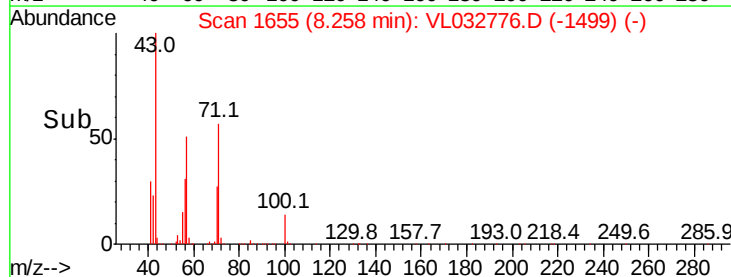
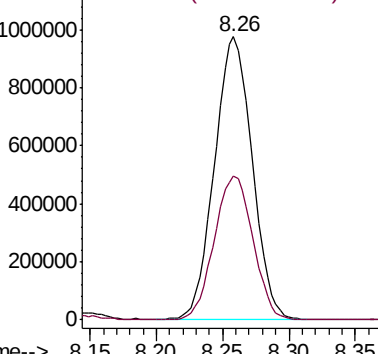
43 100

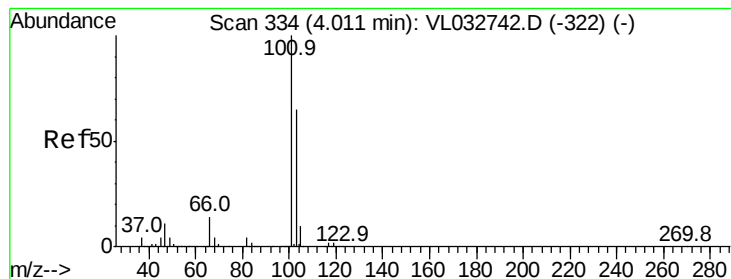
57 52.3 41.8 62.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 11.779 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

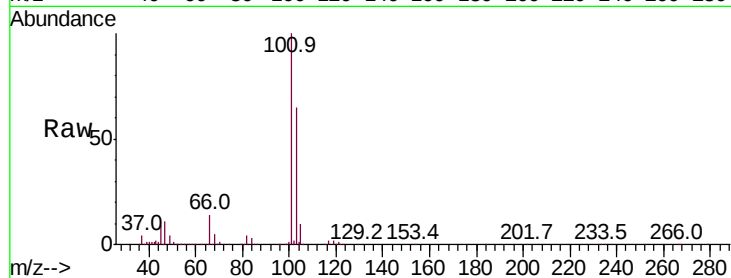
ClientSampleId :

Tot Ion:101 Resp: 2552206

Ion Ratio Lower Upper

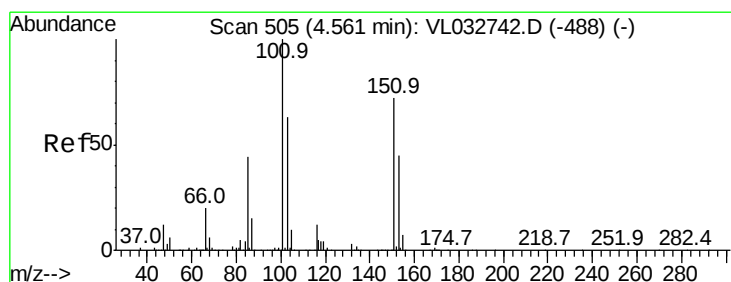
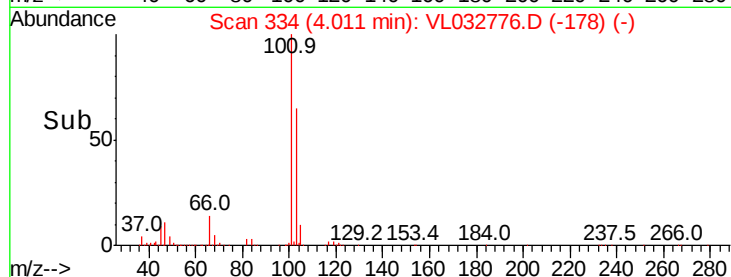
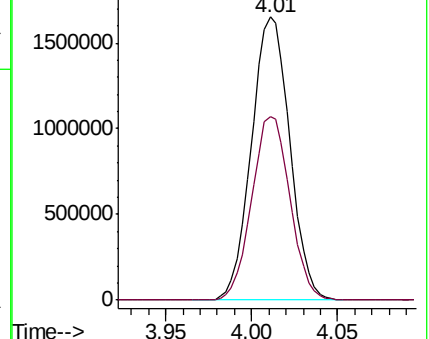
101 100

103 65.0 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.259 ppbv

RT: 4.56 min Scan# 504

Delta R.T. -0.00 min

Lab File: VL032776.D

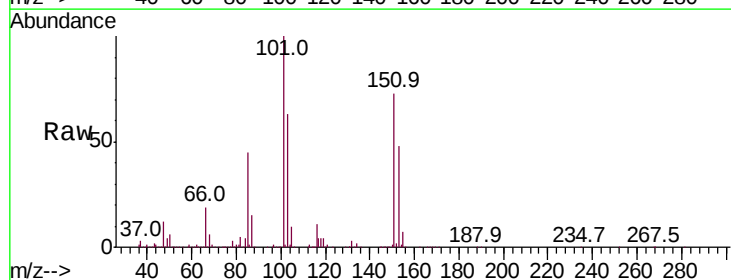
Acq: 20 Nov 2018 11:57

Tgt Ion:101 Resp: 1461658

Ion Ratio Lower Upper

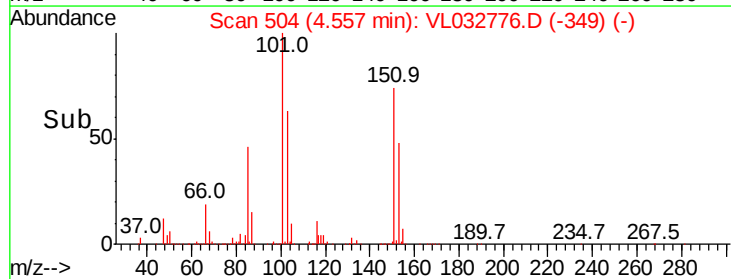
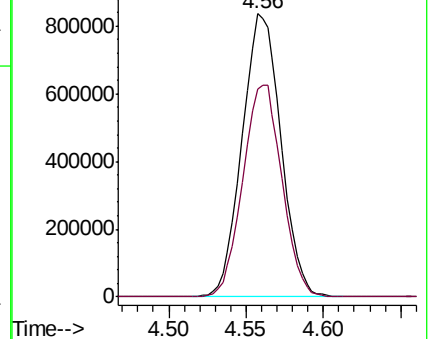
101 100

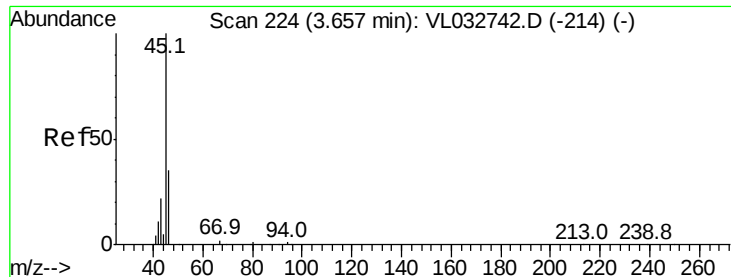
151 75.7 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.197 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

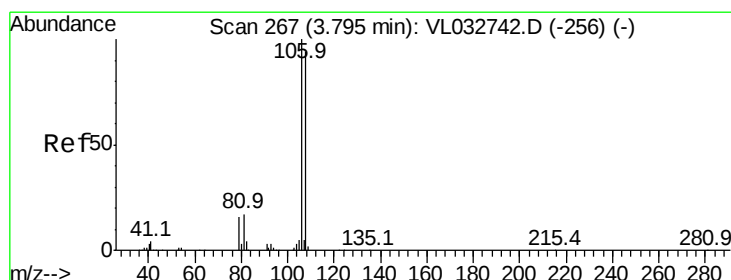
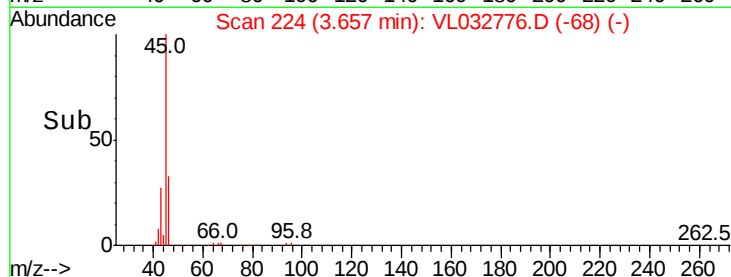
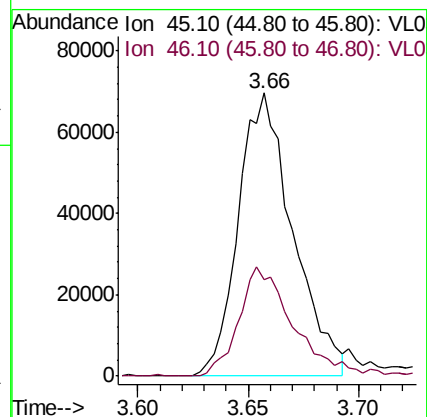
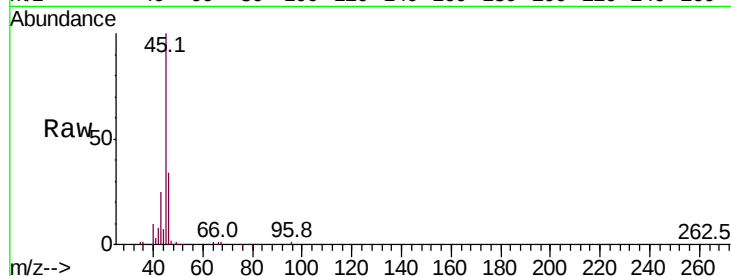
ClientSampleId :

Tot Ion: 45 Resp: 119624

Ion Ratio Lower Upper

45 100

46 39.1 14.5 57.9



#14

Bromoethene

Concen: 9.115 ppbv

RT: 3.80 min Scan# 267

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

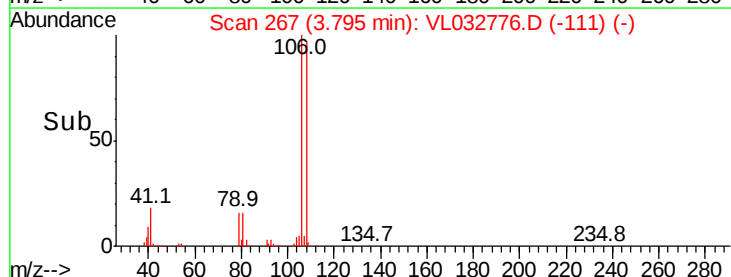
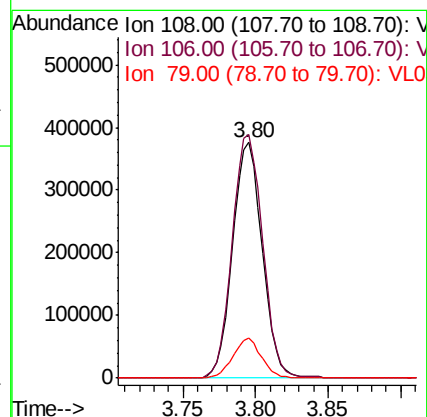
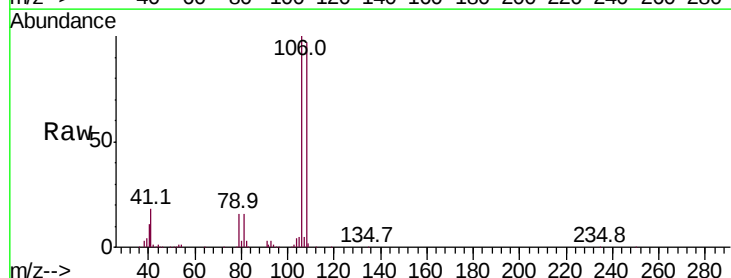
Tgt Ion: 108 Resp: 535209

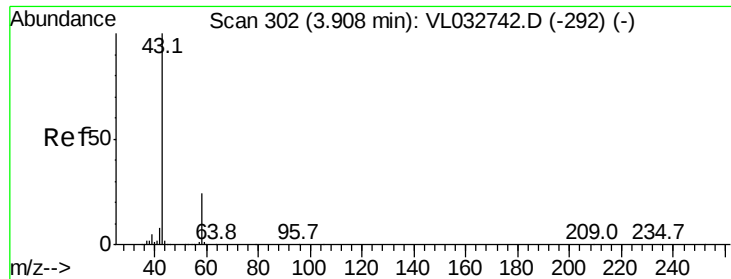
Ion Ratio Lower Upper

108 100

106 106.6 84.9 127.3

79 16.4 14.2 21.4

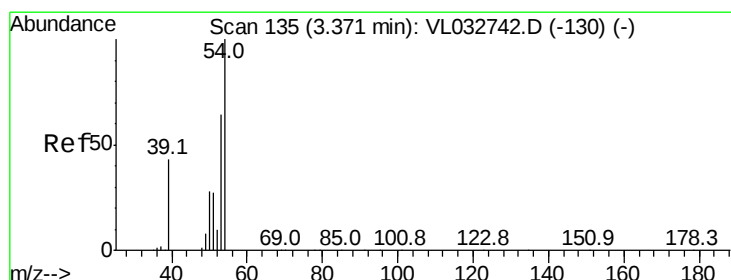
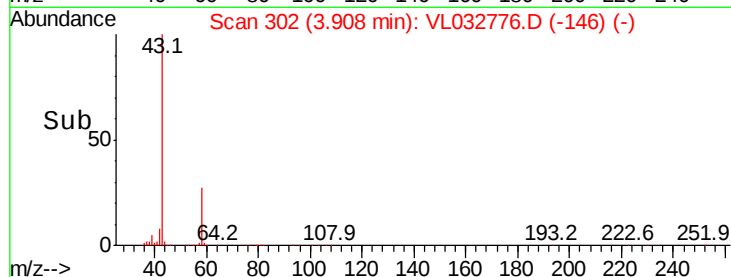
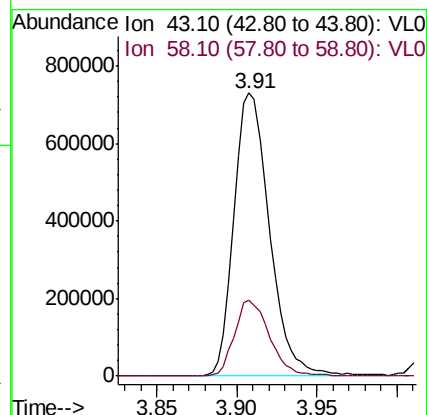
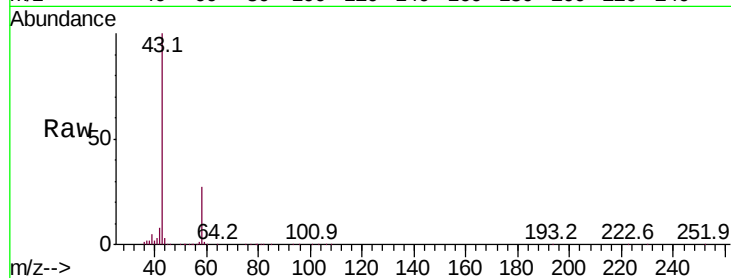




#15
Acetone
Concen: 7.538 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

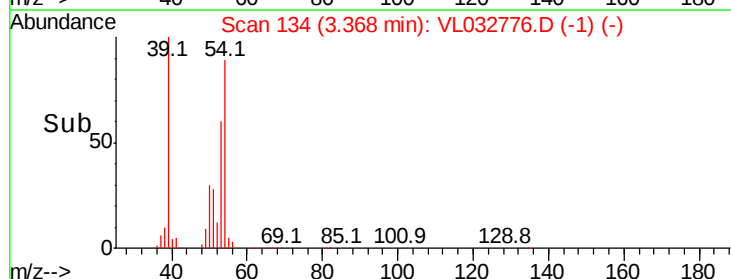
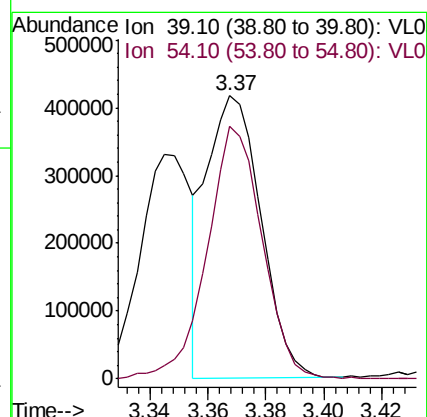
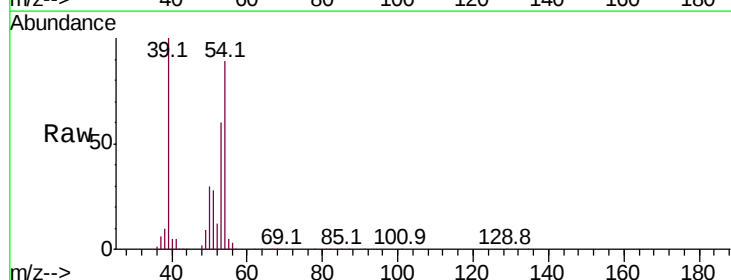
Instrument :
MSVOA_L
ClientSampleId :

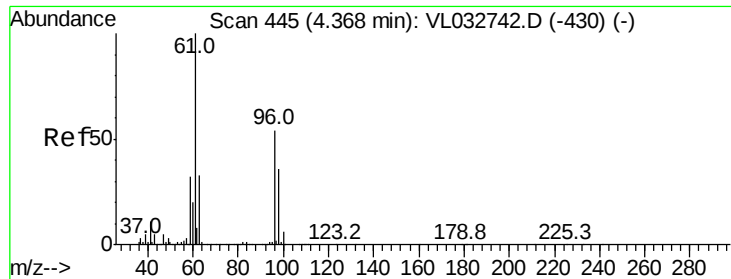
Tot Ion: 43 Resp: 1101069
Ion Ratio Lower Upper
43 100
58 26.7 21.1 31.7



#16
1,3-Butadiene
Concen: 9.543 ppbv
RT: 3.37 min Scan# 134
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion: 39 Resp: 539835
Ion Ratio Lower Upper
39 100
54 92.0 68.9 103.3



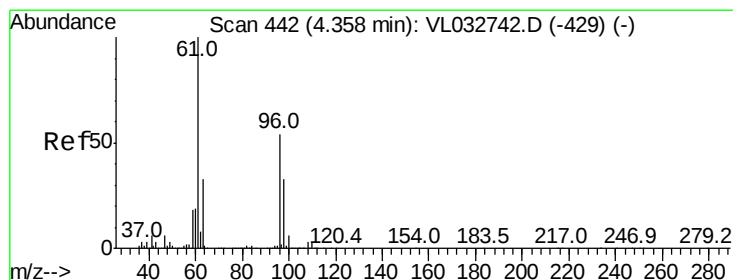
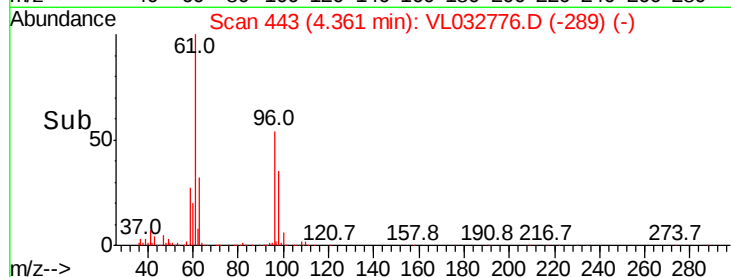
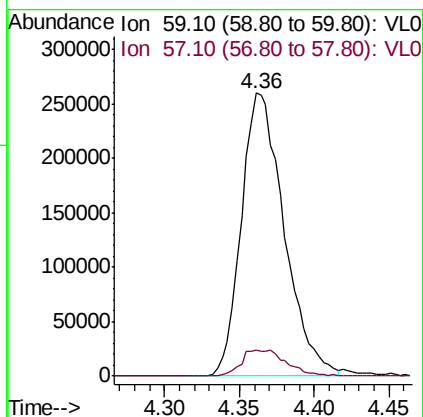
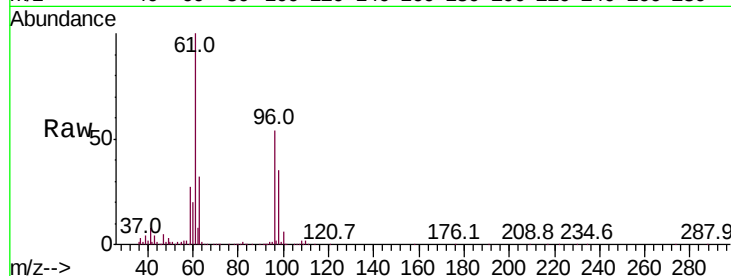


#17

tert-Butyl alcohol
Concen: 11.290 ppbv
RT: 4.36 min Scan# 443
Delta R.T. -0.01 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampled :

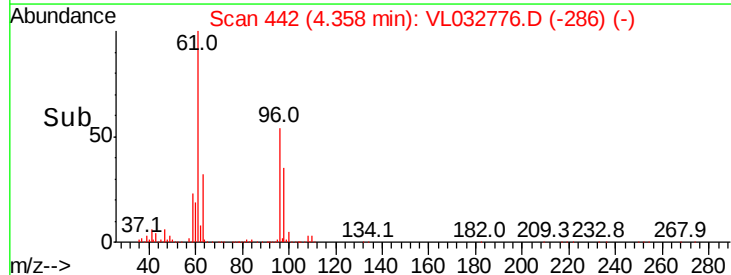
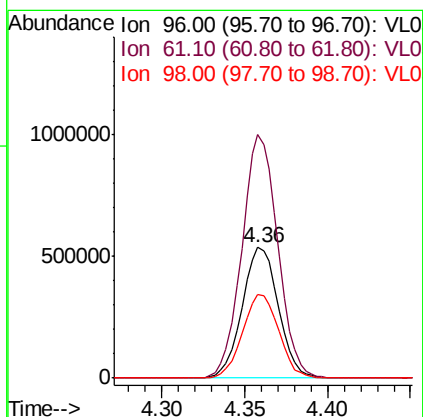
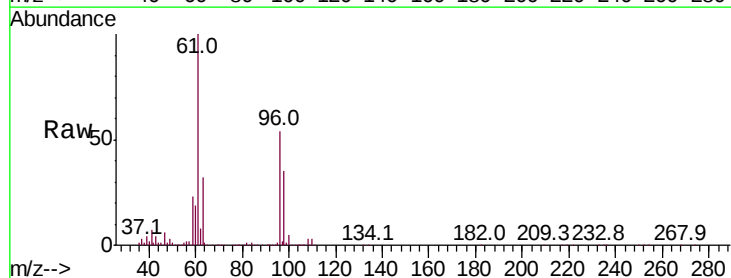
Tot Ion: 59 Resp: 517226
Ion Ratio Lower Upper
59 100
57 9.9 7.8 11.8

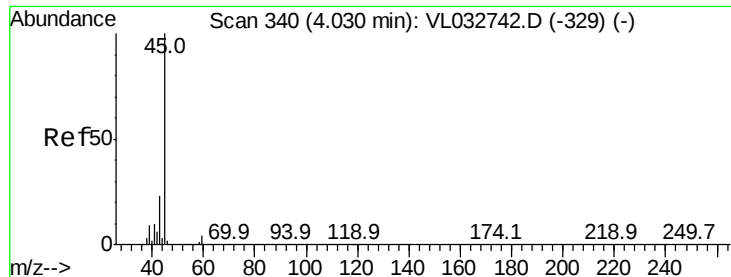


#18

1,1-Dichloroethene
Concen: 9.418 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion: 96 Resp: 819661
Ion Ratio Lower Upper
96 100
61 186.0 148.5 222.7
98 64.2 48.6 72.8



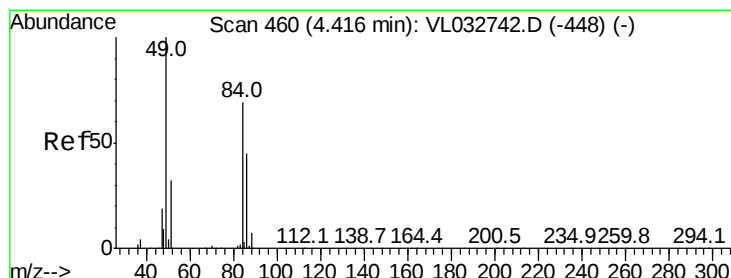
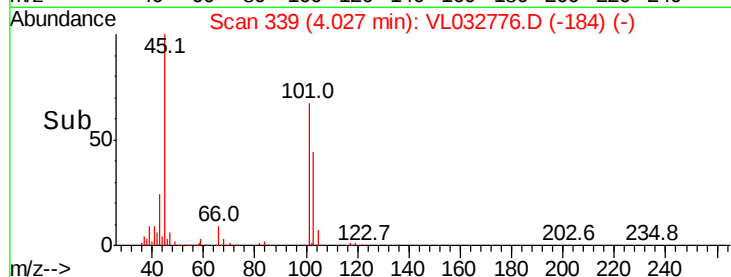
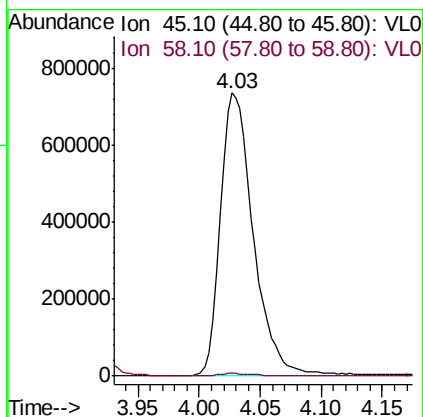
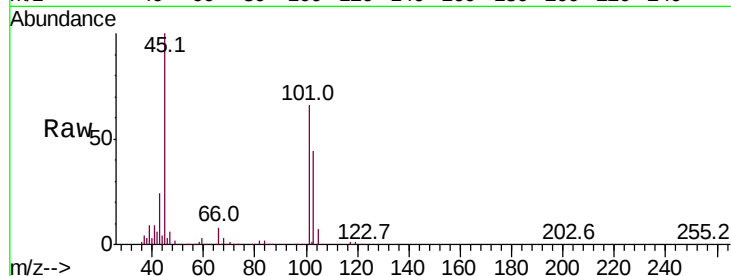


#19

Isopropyl Alcohol
 Concen: 14.348 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. -0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Instrument :
 MSVOA_L
 ClientSampleId :

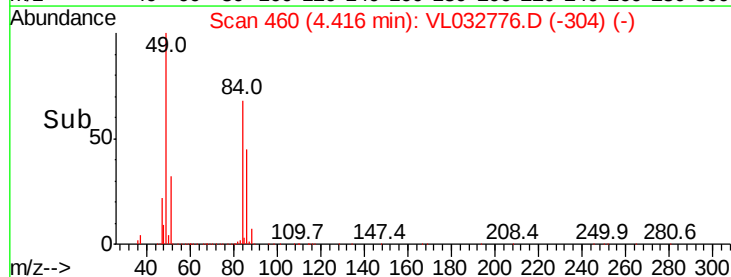
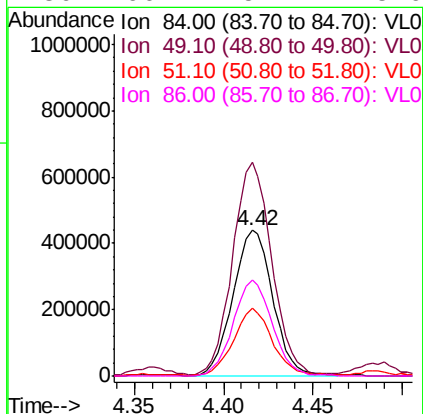
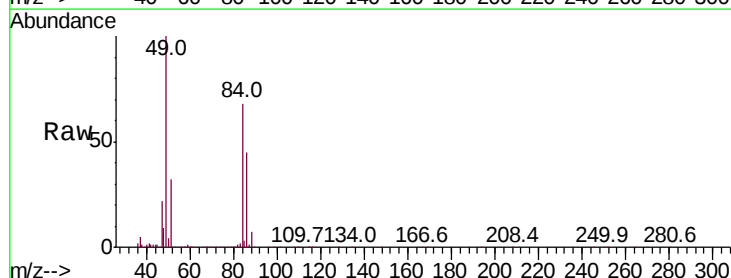
Tot Ion: 45 Resp: 1396151
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.4 2.0#

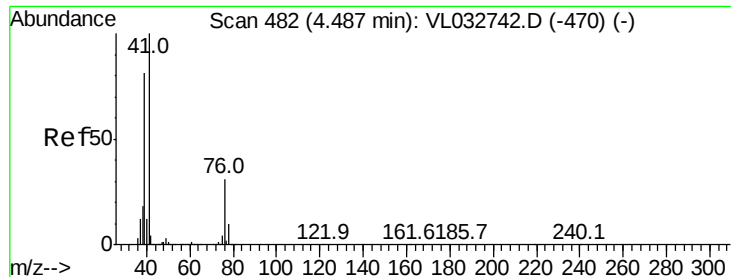


#20

Methylene Chloride
 Concen: 8.977 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Tgt Ion: 84 Resp: 678835
 Ion Ratio Lower Upper
 84 100
 49 146.0 115.8 173.6
 51 46.2 36.9 55.3
 86 66.2 52.4 78.6

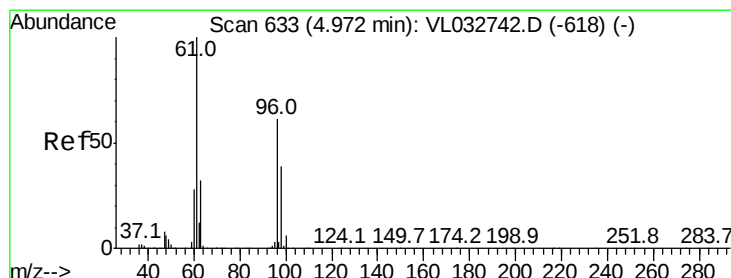
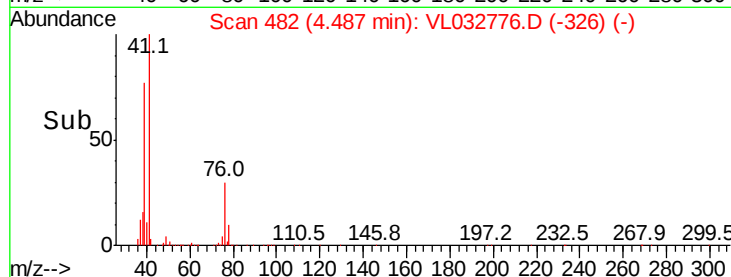
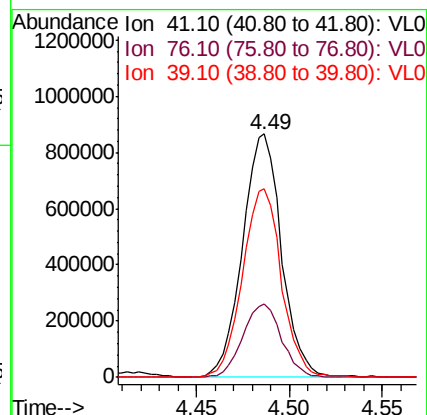
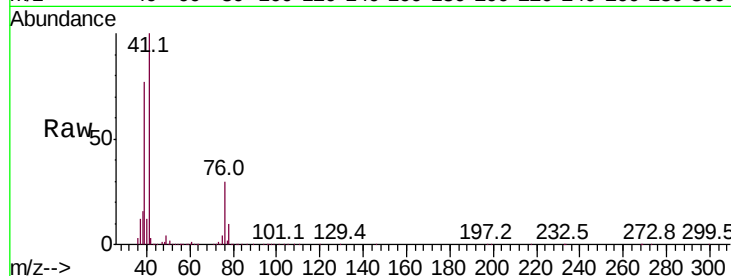




#21
Allvl Chloride
Concen: 10.245 ppbv
RT: 4.49 min Scan# 482
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

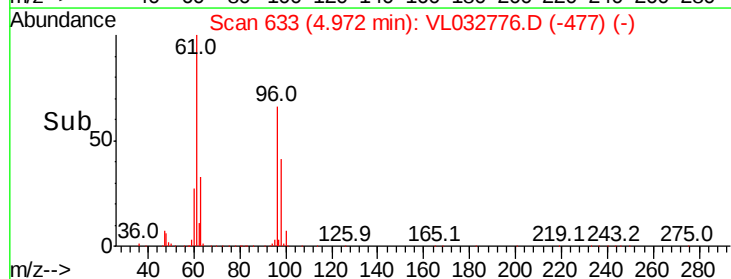
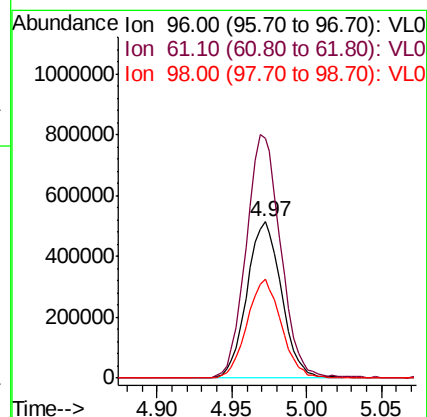
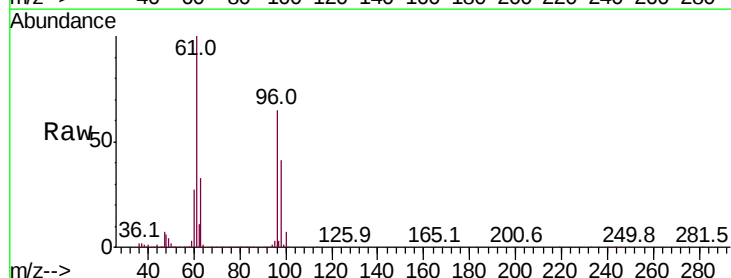
Instrument :
MSVOA_L
ClientSampled :

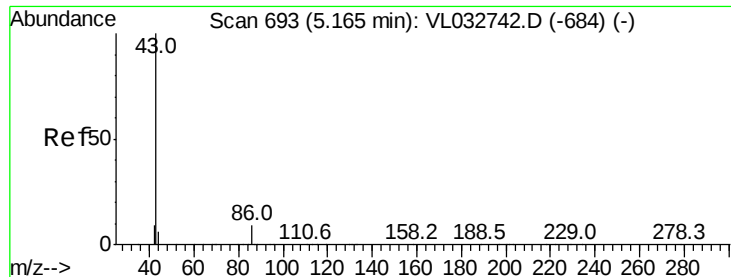
Tot Ion: 41 Resp: 1257595
Ion Ratio Lower Upper
41 100
76 30.3 24.4 36.6
39 77.9 63.5 95.3



#22
trans-1,2-Dichloroethene
Concen: 9.740 ppbv
RT: 4.97 min Scan# 633
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion: 96 Resp: 827741
Ion Ratio Lower Upper
96 100
61 153.3 130.2 195.2
98 63.3 50.2 75.2





#23

Vinyl Acetate

Concen: 9.834 ppbv

RT: 5.17 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 2618501

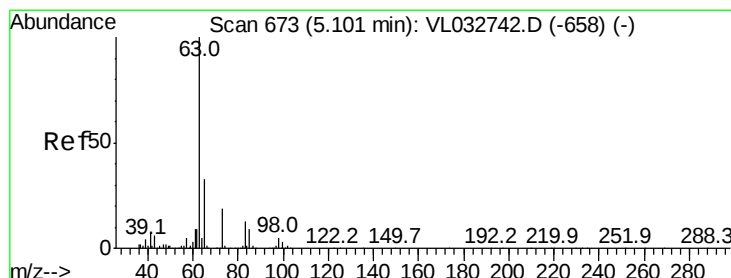
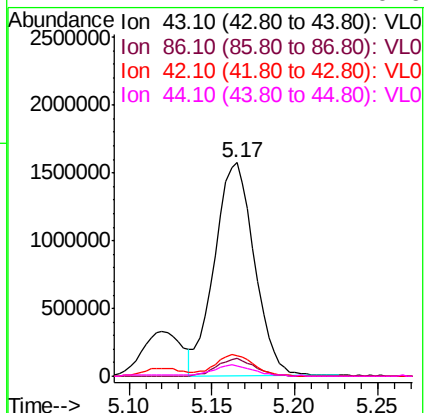
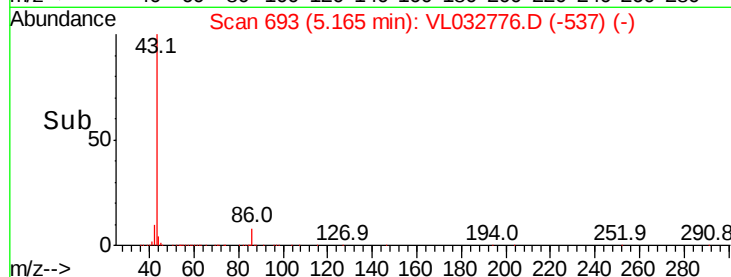
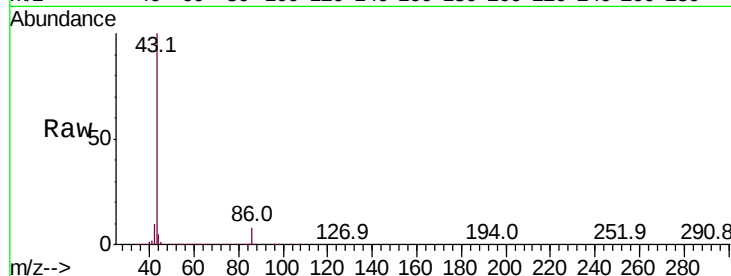
Ion	Ratio	Lower	Upper
43	100		
86	8.3	6.2	9.4
42	9.8	7.8	11.6
44	4.7	4.4	6.6

43 100

86 8.3 6.2 9.4

42 9.8 7.8 11.6

44 4.7 4.4 6.6



#24

1,1-Dichloroethane

Concen: 8.967 ppbv

RT: 5.10 min Scan# 673

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

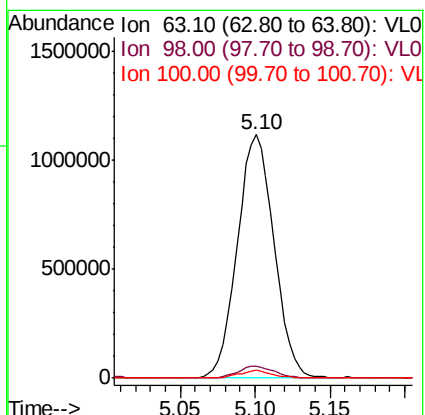
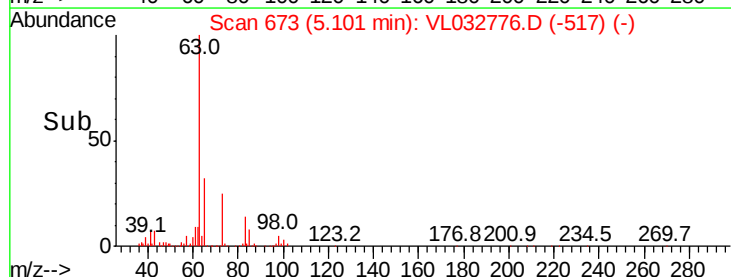
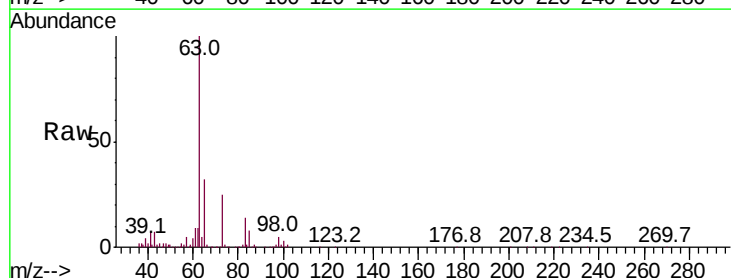
Tgt Ion: 63 Resp: 1898222

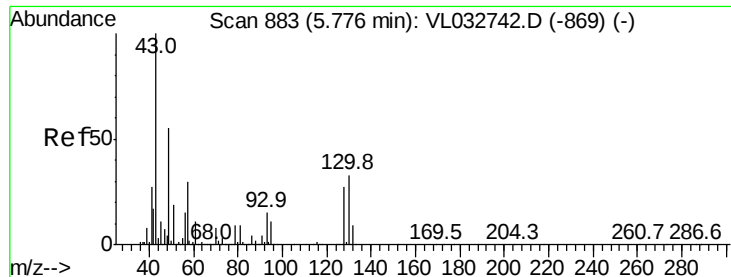
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.3	6.8
100	3.2	1.4	4.2

63 100

98 5.1 2.3 6.8

100 3.2 1.4 4.2





#25

Ethyl Acetate

Concen: 9.851 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.00 min

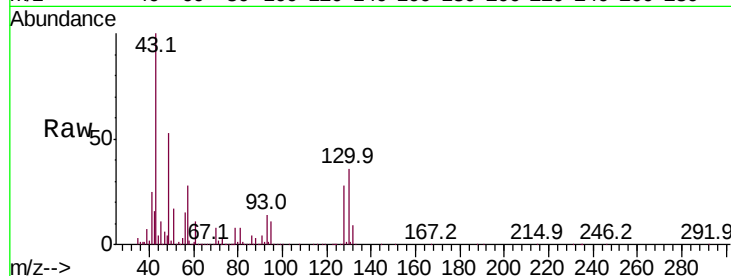
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 3353572

Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.8	11.6
70	7.2	5.8	8.6



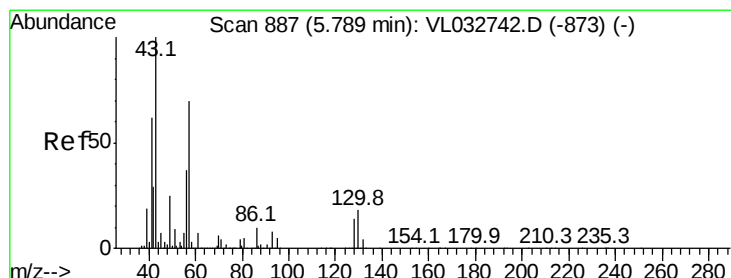
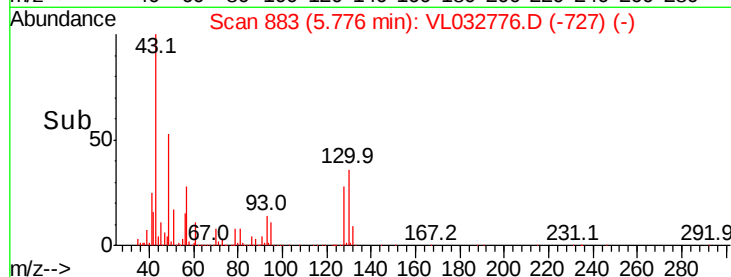
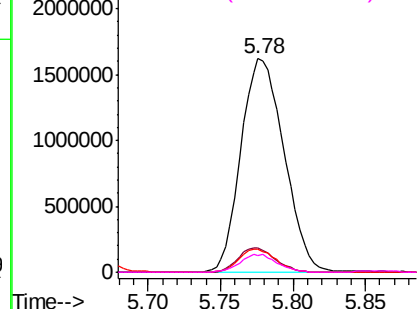
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 10.103 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion: 57 Resp: 1531015

Ion	Ratio	Lower	Upper
57	100		
41	87.2	70.3	105.5
43	220.3	174.0	261.0
56	52.8	42.3	63.5

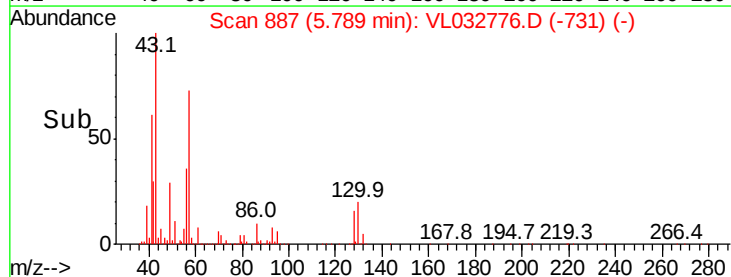
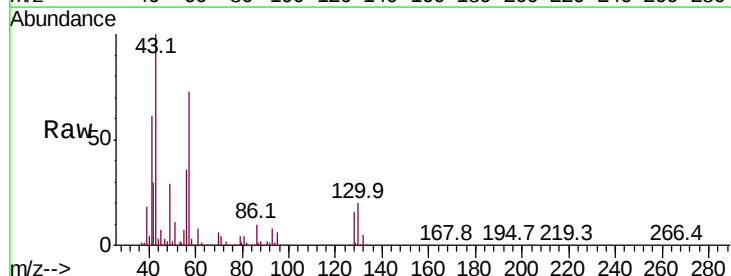
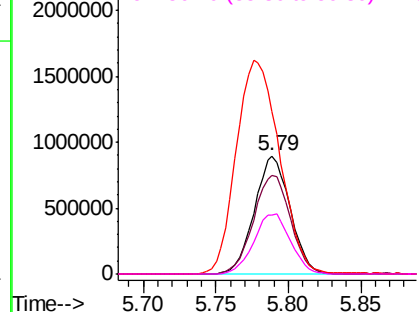
Abundance

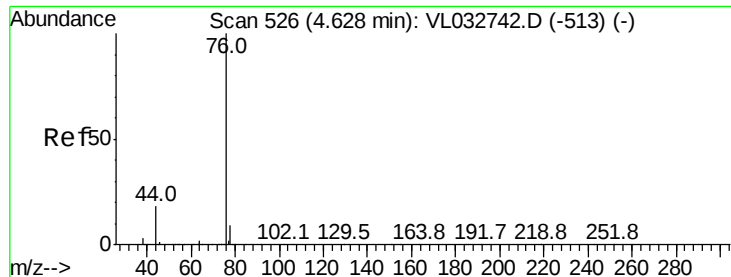
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.752 ppbv

RT: 4.63 min Scan# 526

Delta R.T. 0.00 min

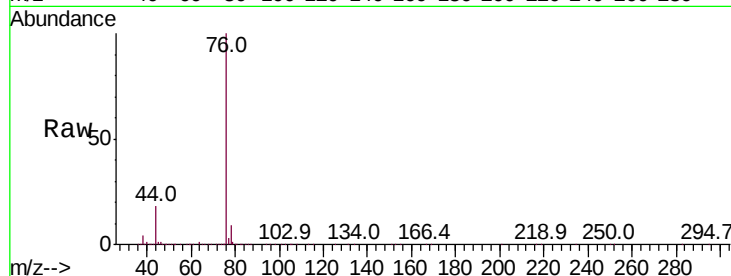
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 76 Resp: 2066113

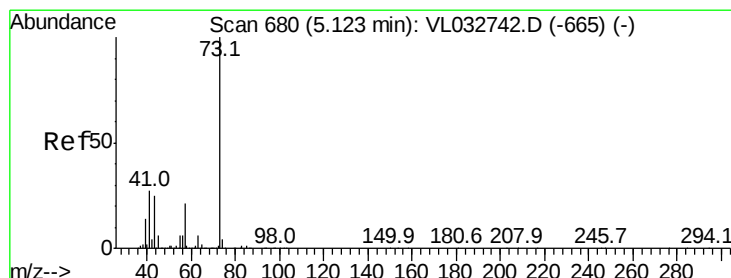
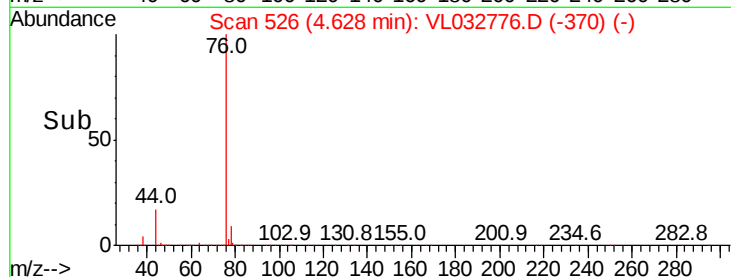
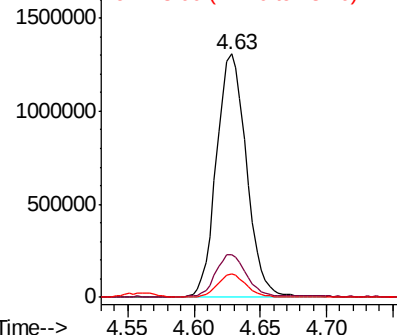
Ion	Ratio	Lower	Upper
76	100		
44	17.8	14.4	21.6
78	9.3	7.7	11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 10.012 ppbv

RT: 5.12 min Scan# 679

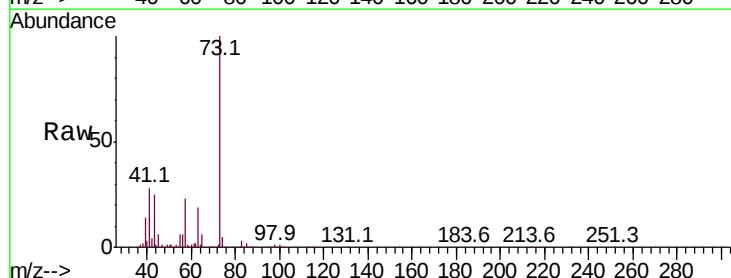
Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

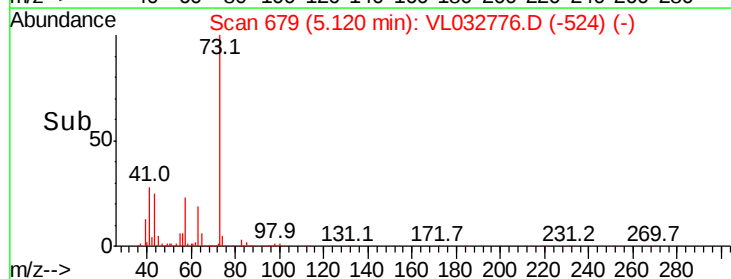
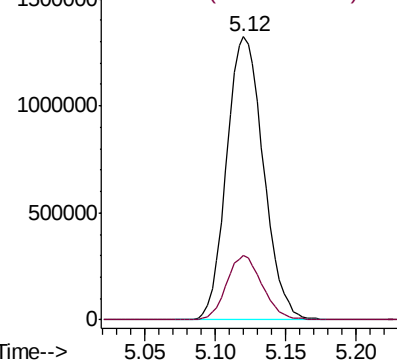
Tgt Ion: 73 Resp: 2419571

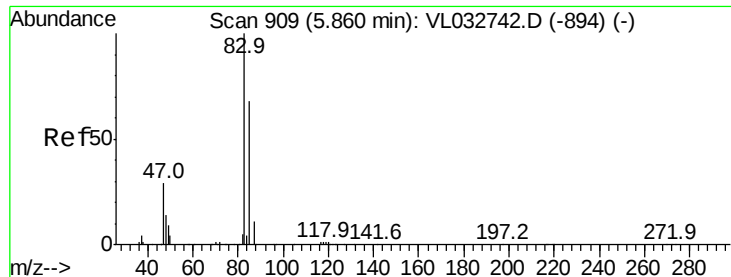
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	26.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.451 ppbv

RT: 5.86 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

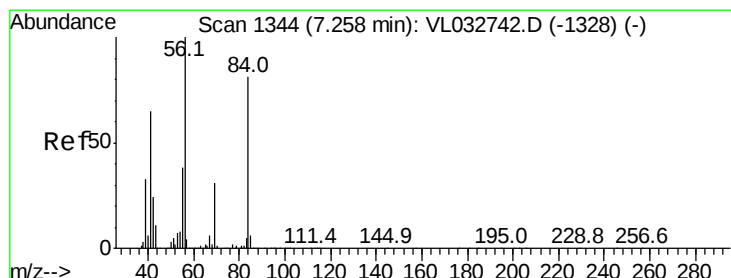
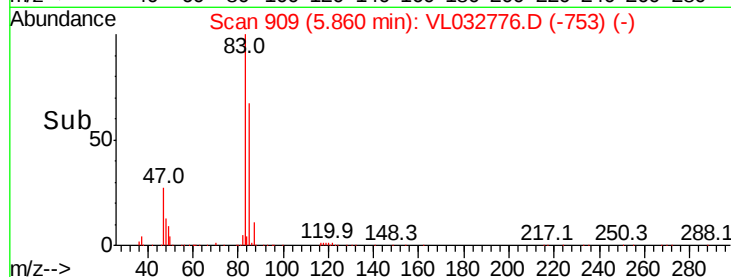
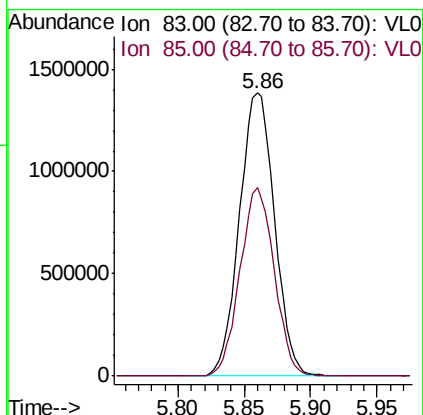
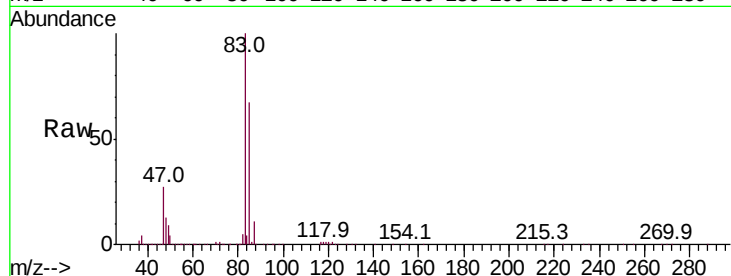
ClientSampleId :

Tot Ion: 83 Resp: 2552810

Ion Ratio Lower Upper

83 100

85 66.6 54.2 81.4



#30

Cyclohexane

Concen: 10.308 ppbv

RT: 7.26 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

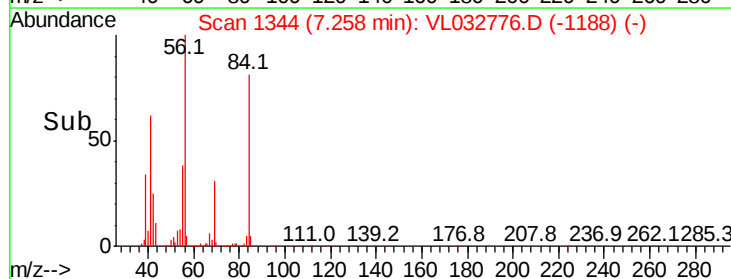
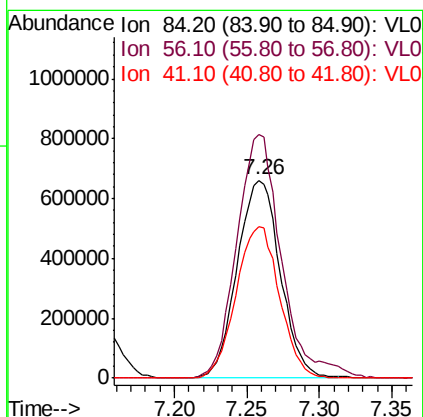
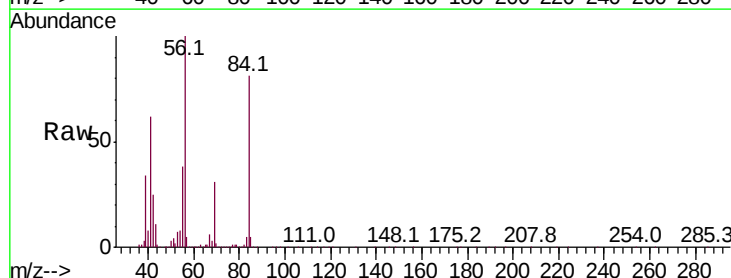
Tgt Ion: 84 Resp: 1366275

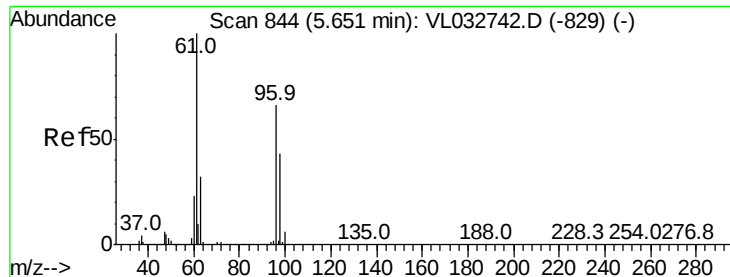
Ion Ratio Lower Upper

84 100

56 128.0 105.0 157.4

41 77.2 65.3 97.9



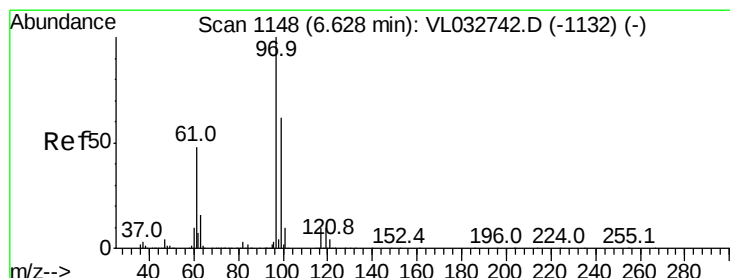
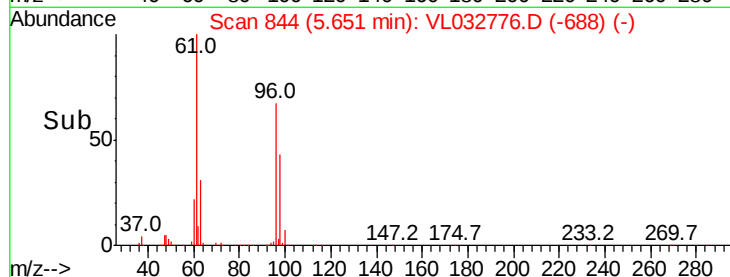
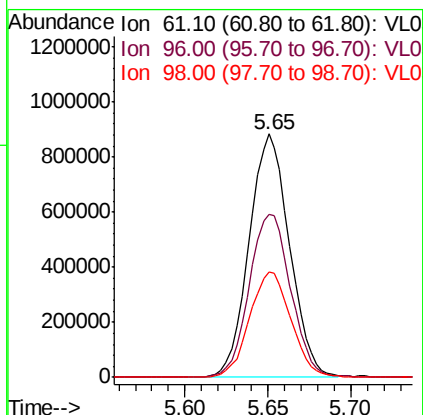
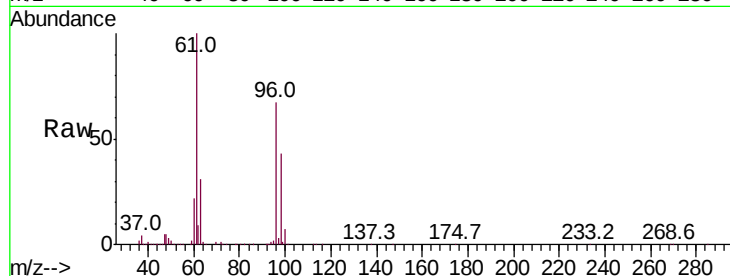


#31

cis-1,2-Dichloroethene
Concen: 9.807 ppbv
RT: 5.65 min Scan# 844
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampled :

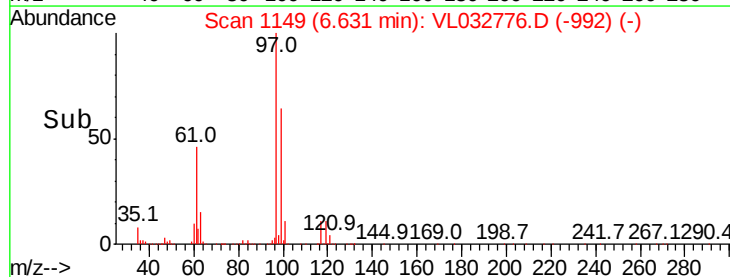
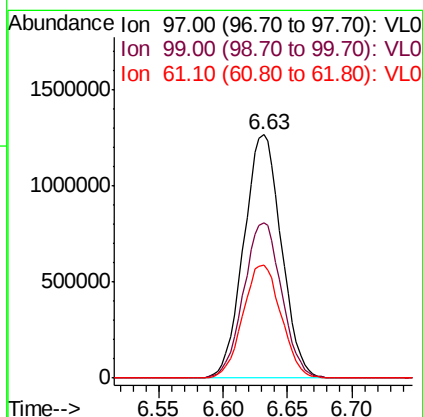
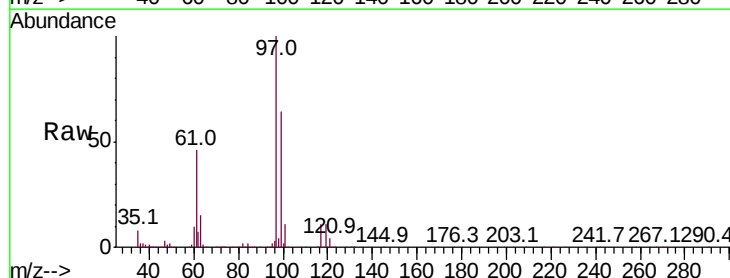
Tot Ion: 61 Resp: 1494243
Ion Ratio Lower Upper
61 100
96 66.8 53.2 79.8
98 43.2 34.4 51.6

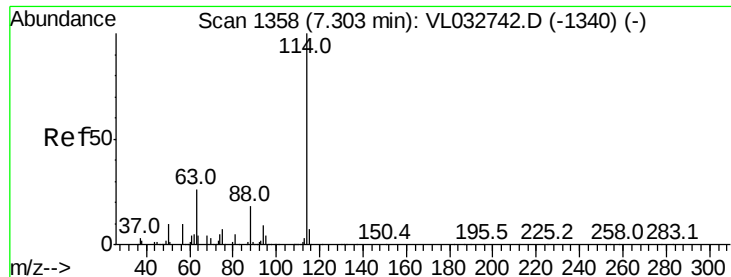


#32

1,1,1-Trichloroethane
Concen: 8.697 ppbv
RT: 6.63 min Scan# 1149
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion: 97 Resp: 2574896
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 47.3 39.7 59.5

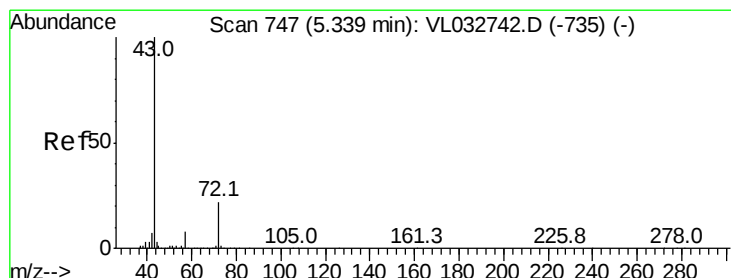
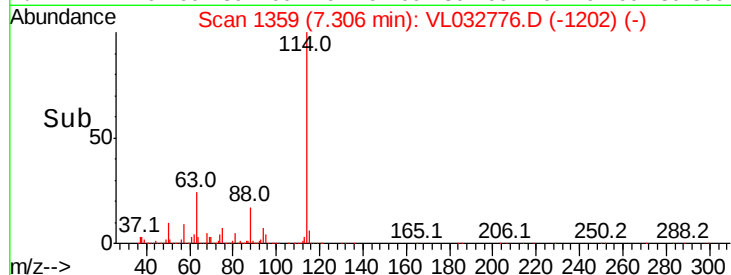
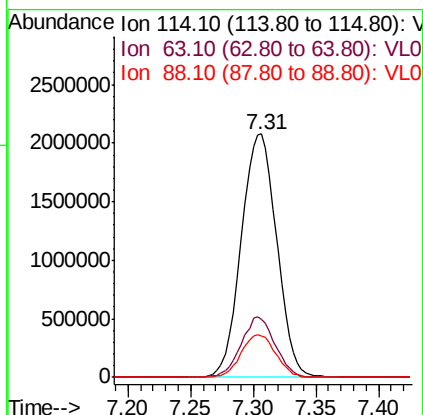
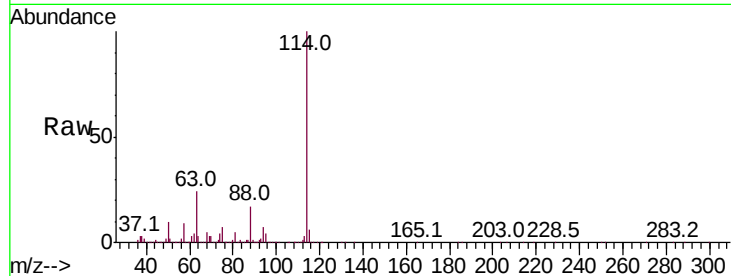




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

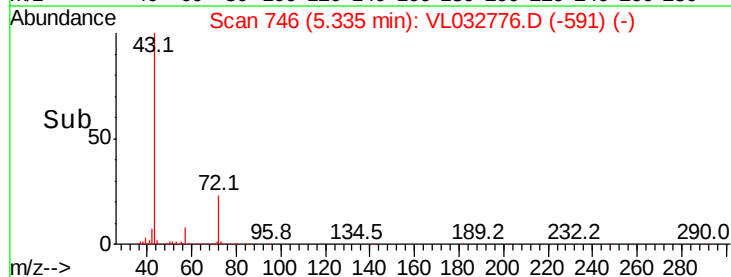
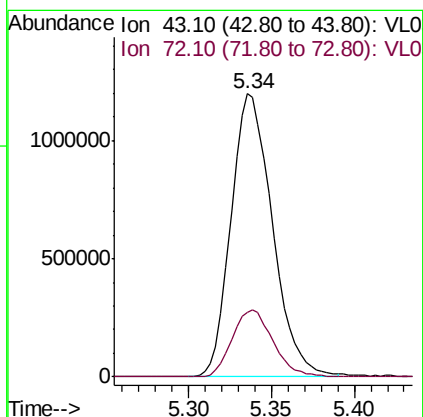
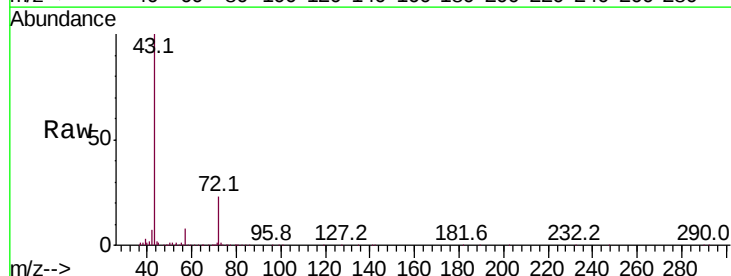
Instrument :
 MSVOA_L
 ClientSampled :

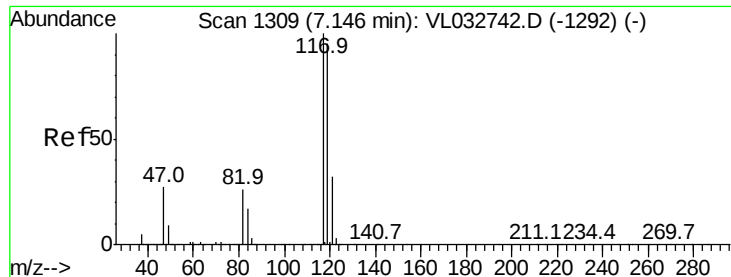
Tot Ion:114 Resp: 4085426
 Ion Ratio Lower Upper
 114 100
 63 24.1 20.9 31.3
 88 17.2 14.4 21.6



#34
 2-Butanone
 Concen: 9.789 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Tgt Ion: 43 Resp: 2074161
 Ion Ratio Lower Upper
 43 100
 72 23.6 18.4 27.6





#35

Carbon Tetrachloride

Concen: 8.556 ppbv

RT: 7.15 min Scan# 1309

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

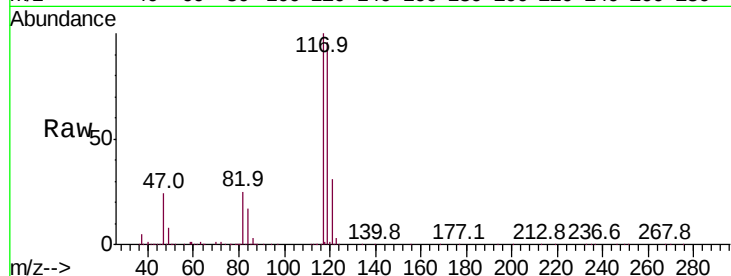
Tot Ion:117 Resp: 2809989

Ion Ratio Lower Upper

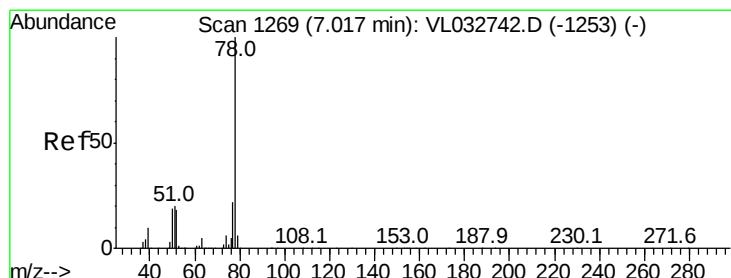
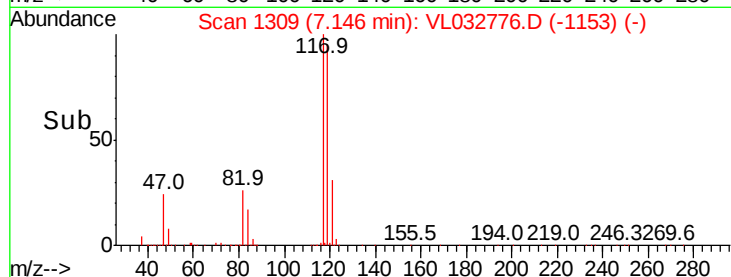
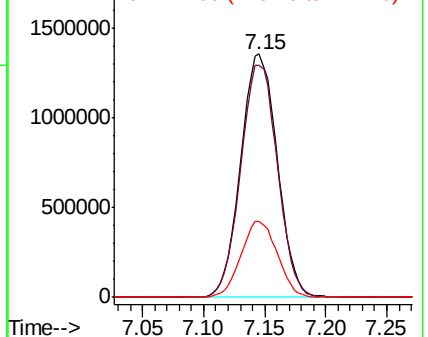
117 100

119 95.6 76.1 114.1

121 31.3 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.857 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

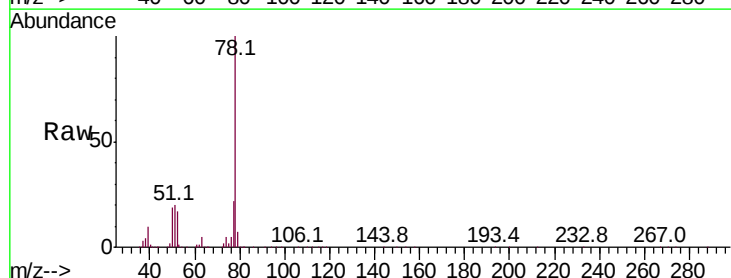
Tgt Ion: 78 Resp: 3206625

Ion Ratio Lower Upper

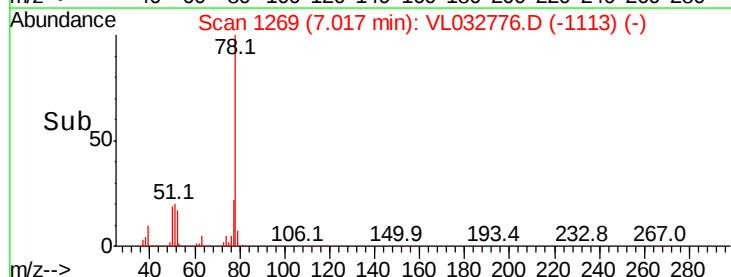
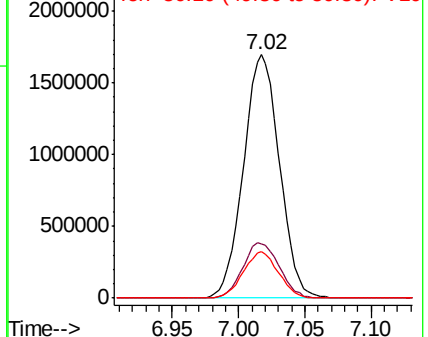
78 100

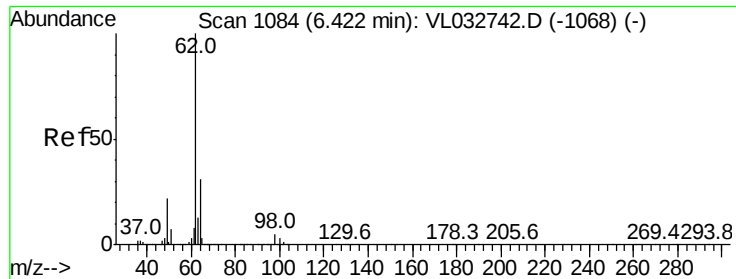
77 22.4 17.8 26.8

50 19.0 15.4 23.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

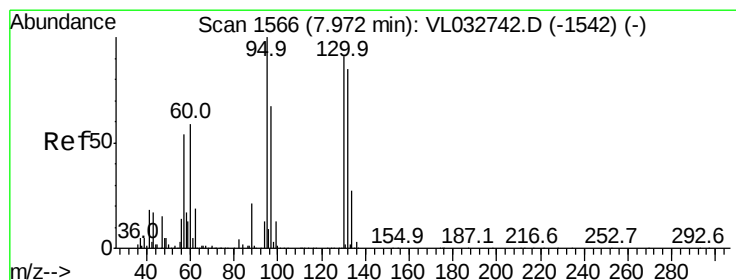
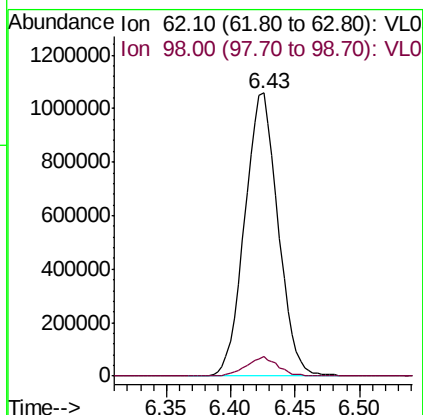
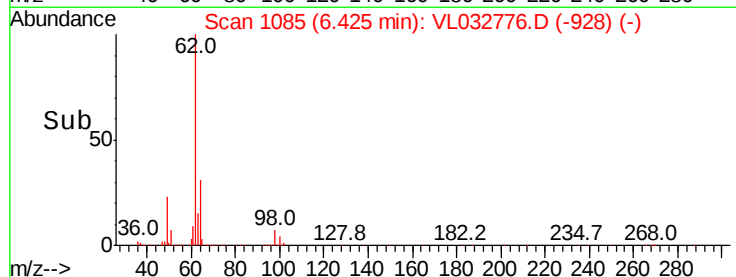
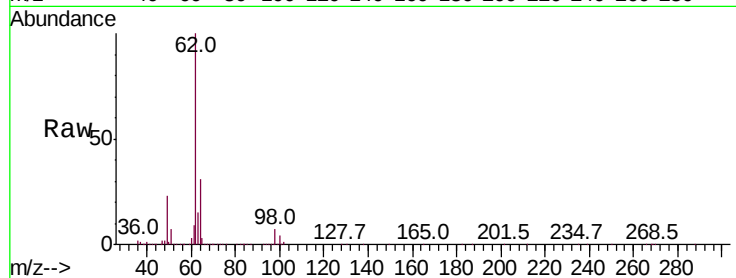




#37
1,2-Dichloroethane
Concen: 8.690 ppbv
RT: 6.43 min Scan# 1085
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

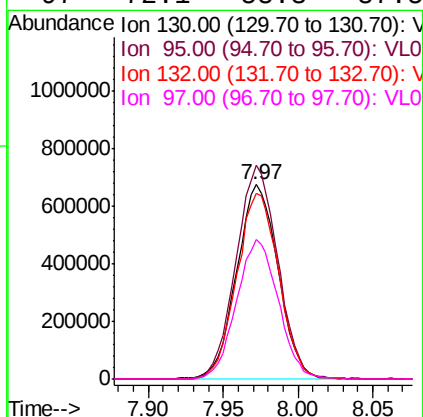
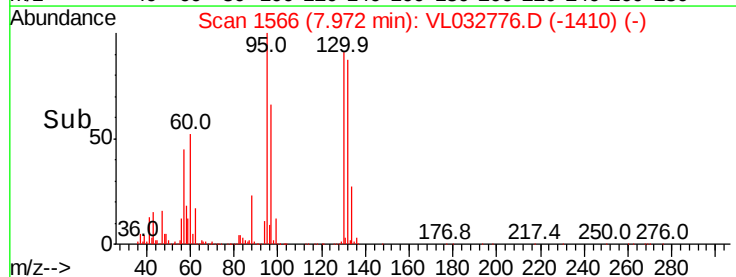
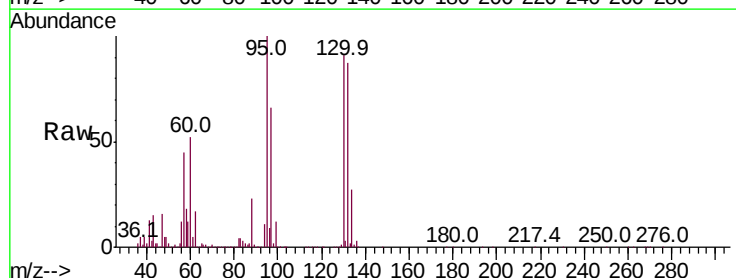
Instrument :
MSVOA_L
ClientSampleId :

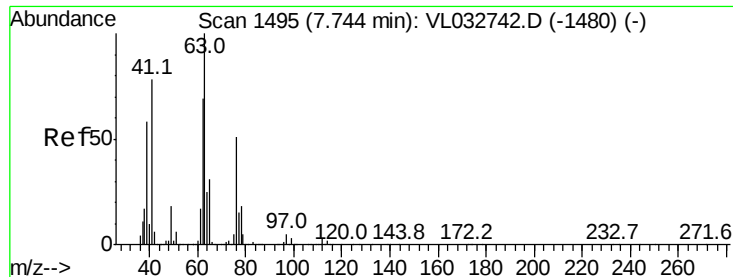
Tot Ion: 62 Resp: 1903089
Ion Ratio Lower Upper
62 100
98 6.4 4.5 6.7



#38
Trichloroethene
Concen: 9.830 ppbv
RT: 7.97 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion:130 Resp: 1294205
Ion Ratio Lower Upper
130 100
95 109.9 87.7 131.5
132 95.9 74.6 111.8
97 72.1 58.3 87.5





#39

1,2-Dichloropropane

Concen: 9.601 ppbv

RT: 7.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

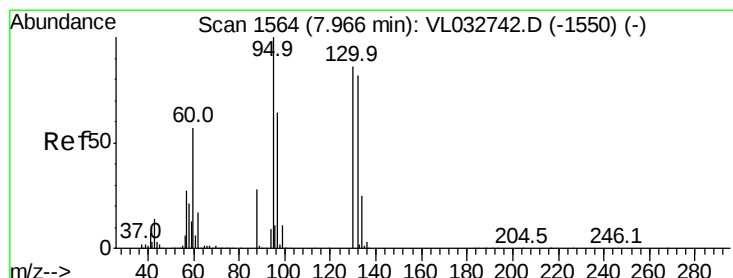
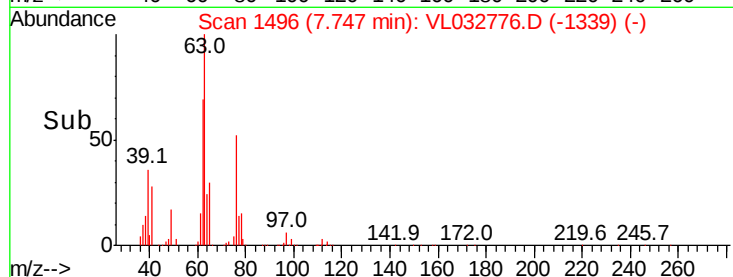
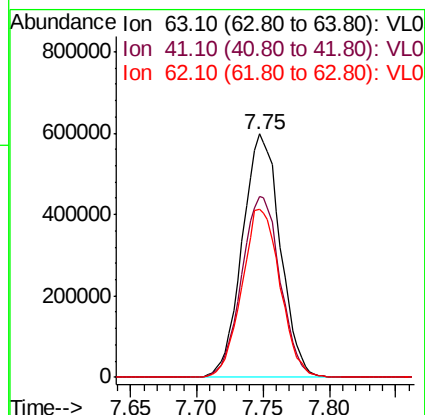
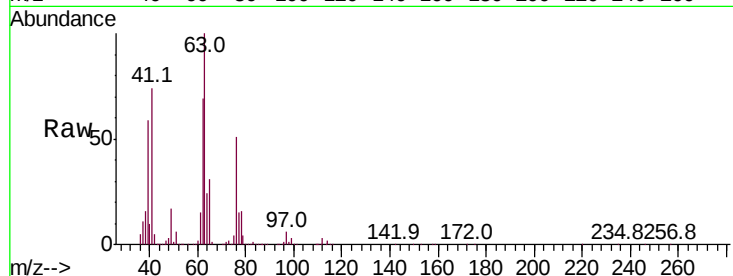
Tot Ion: 63 Resp: 1190117

Ion Ratio Lower Upper

63 100

41 74.2 62.0 93.0

62 68.9 55.4 83.2



#40

1,4-Dioxane

Concen: 10.140 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion: 88 Resp: 448911

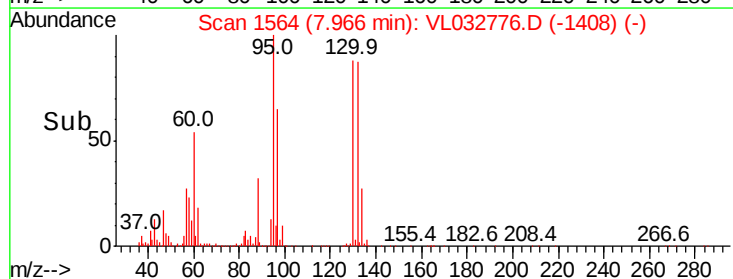
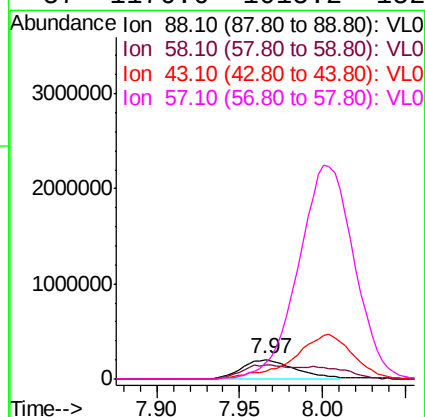
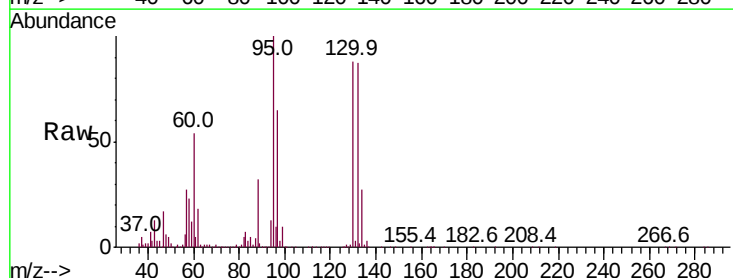
Ion Ratio Lower Upper

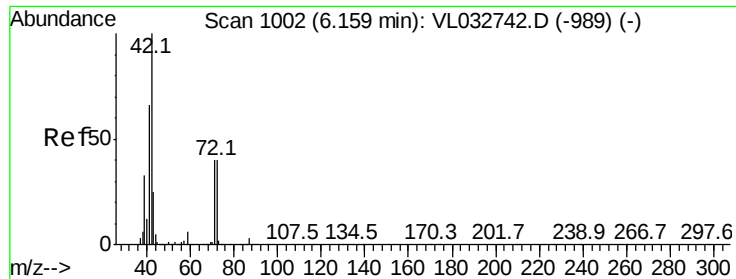
88 100

58 128.3 105.3 157.9

43 259.6 226.1 339.1

57 1176.6 1015.2 1522.8

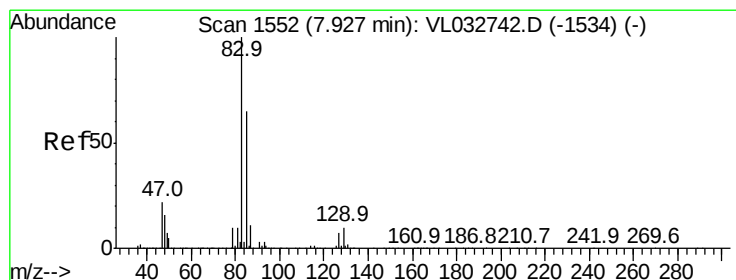
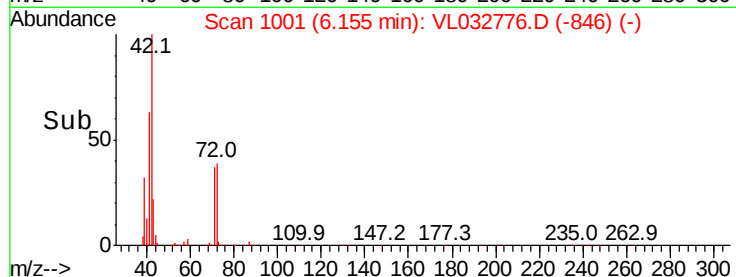
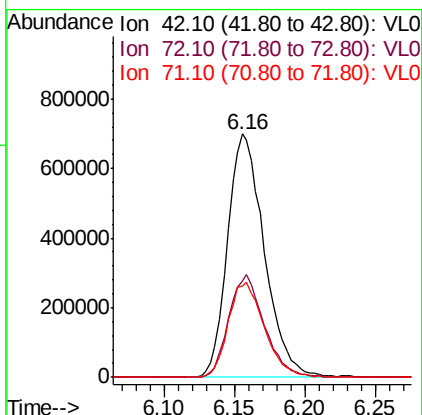
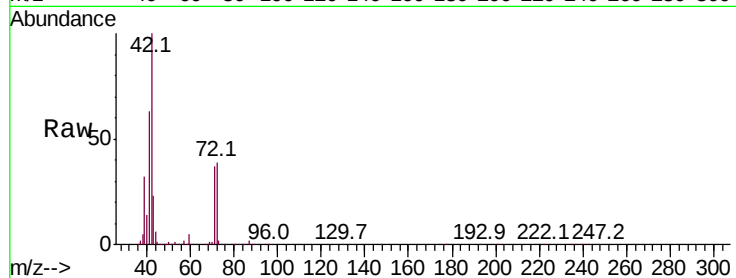




#41
Tetrahydrofuran
Concen: 10.471 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

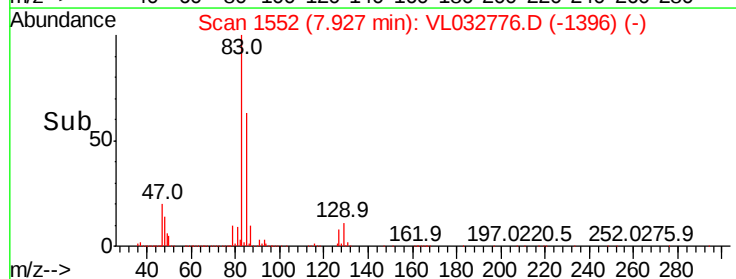
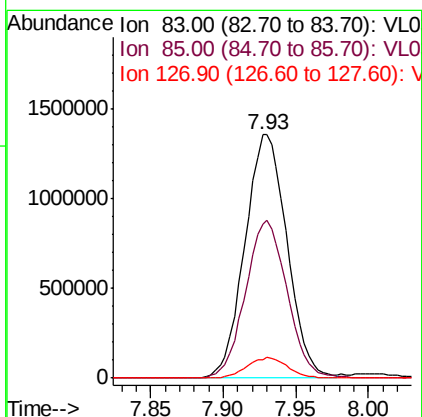
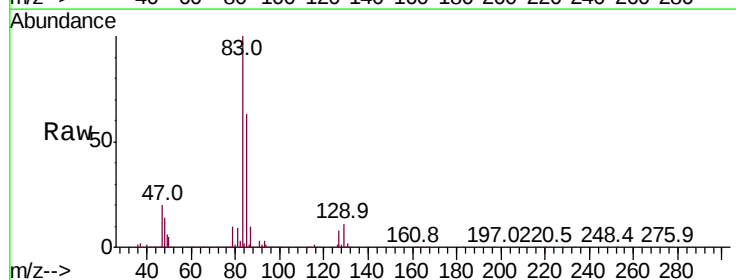
Instrument :
MSVOA_L
ClientSampled :

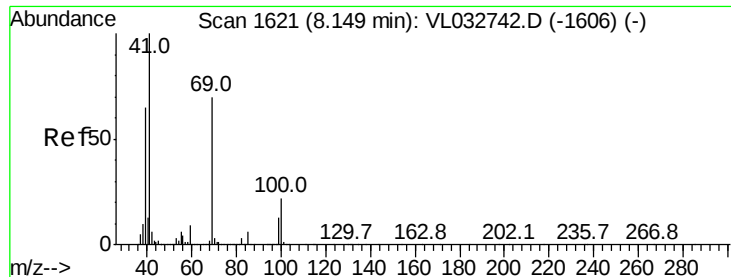
Tot Ion: 42 Resp: 1272735
Ion Ratio Lower Upper
42 100
72 41.0 32.4 48.6
71 38.8 31.6 47.4



#42
Bromodichloromethane
Concen: 9.259 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion: 83 Resp: 2748830
Ion Ratio Lower Upper
83 100
85 63.2 51.8 77.8
127 7.8 5.9 8.9





#43

Methyl Methacrylate

Concen: 10.337 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. -0.00 min

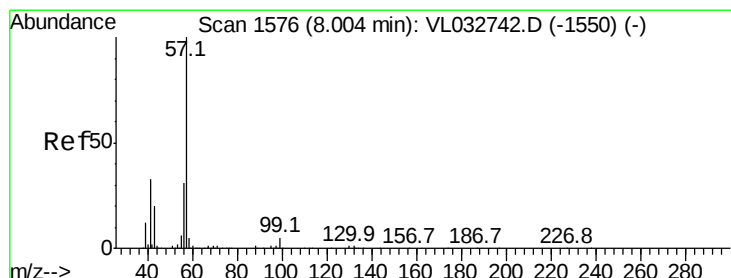
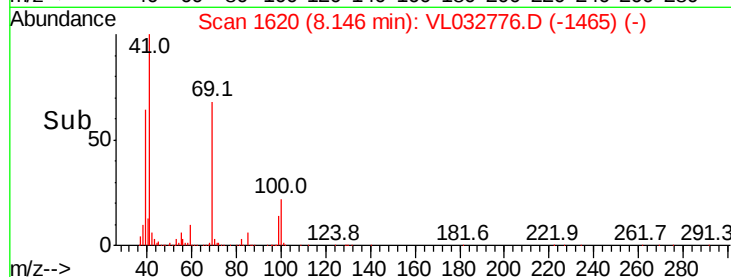
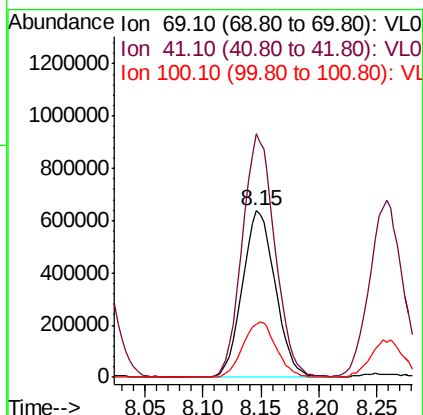
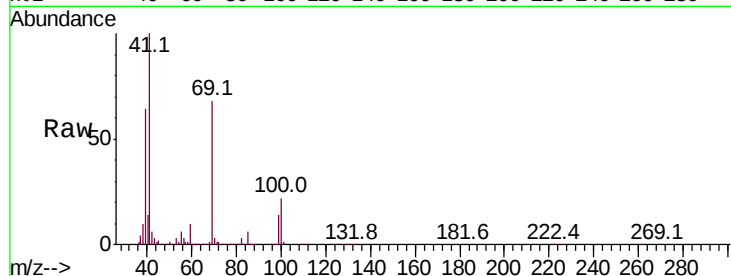
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 1255443

Ion	Ratio	Lower	Upper
69	100		
41	145.4	115.0	172.4
100	33.8	25.4	38.0



#44

2,2,4-Trimethylpentane

Concen: 9.696 ppbv

RT: 8.00 min Scan# 1575

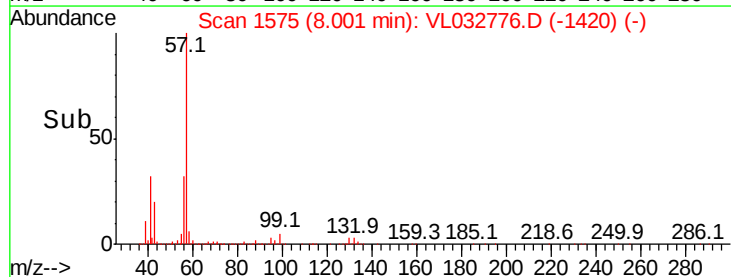
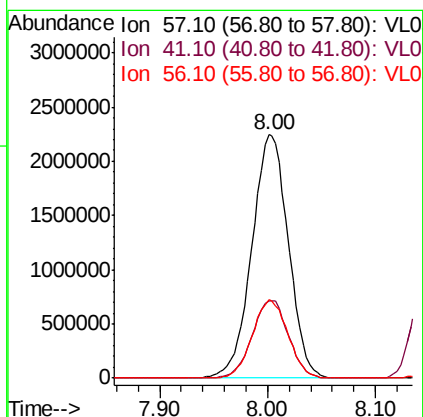
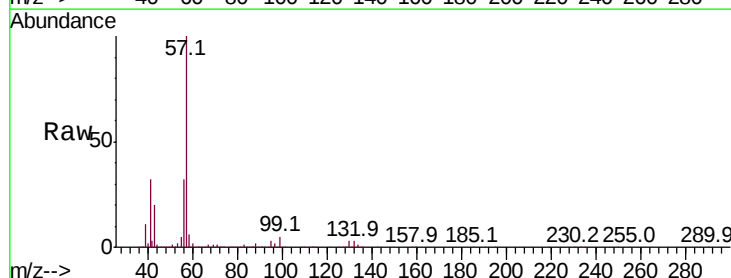
Delta R.T. -0.00 min

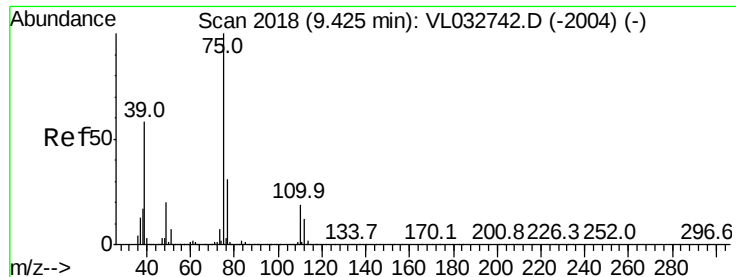
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion: 57 Resp: 5271201

Ion	Ratio	Lower	Upper
57	100		
41	31.7	26.6	39.8
56	31.3	24.8	37.2





#45

t-1,3-Dichloropropene

Concen: 11.571 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. 0.00 min

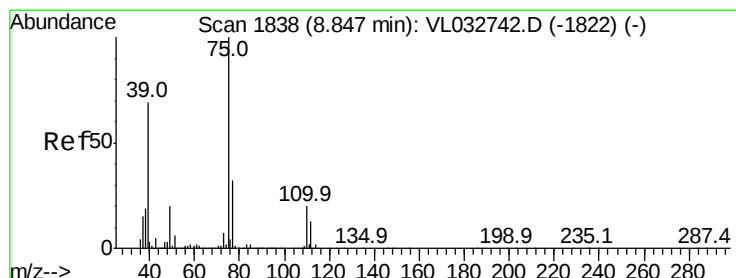
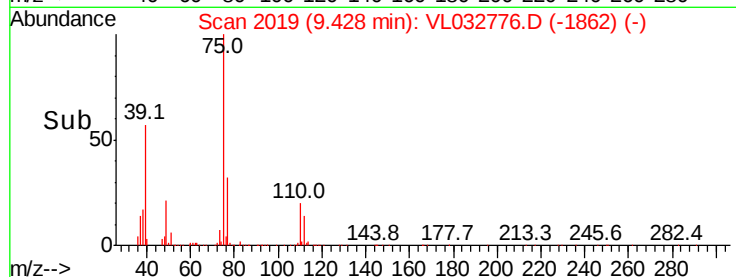
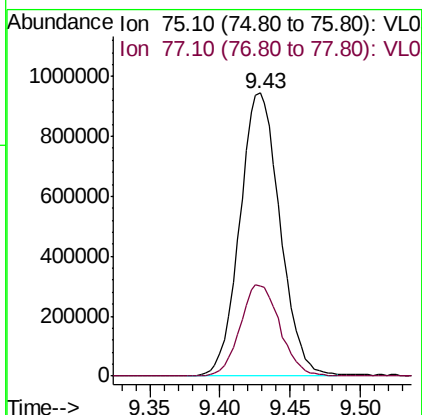
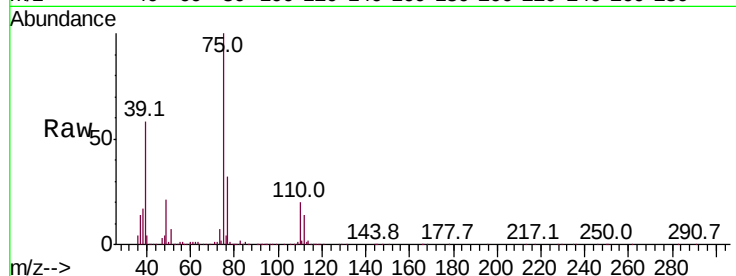
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 1885821

Ion	Ratio	Lower	Upper
75	100		
77	32.0	24.6	36.8



#46

cis-1,3-Dichloropropene

Concen: 10.943 ppbv

RT: 8.85 min Scan# 1838

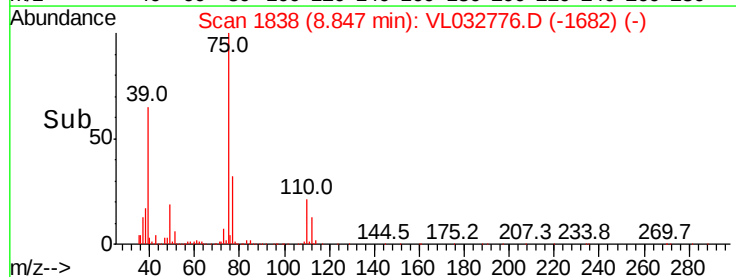
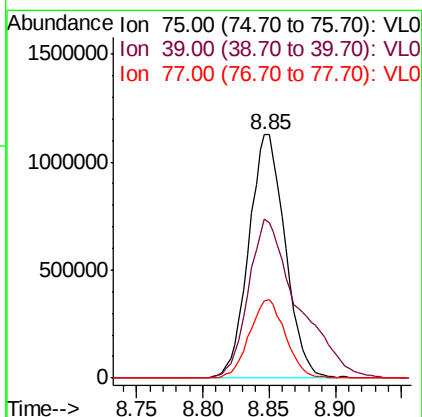
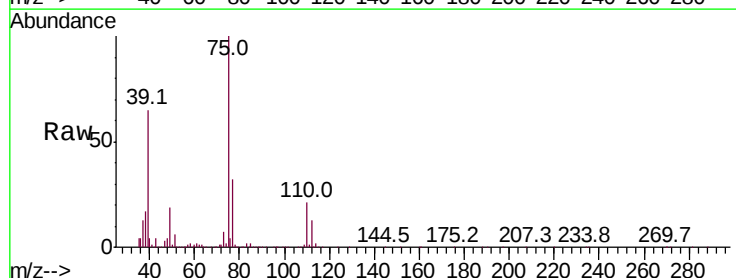
Delta R.T. 0.00 min

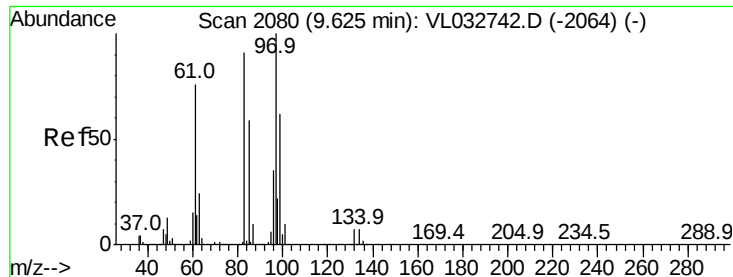
Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion: 75 Resp: 2154744

Ion	Ratio	Lower	Upper
75	100		
39	65.4	55.2	82.8
77	31.7	25.8	38.6





#47

1,1,2-Trichloroethane

Concen: 9.807 ppbv

RT: 9.63 min Scan# 2081

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 1437383

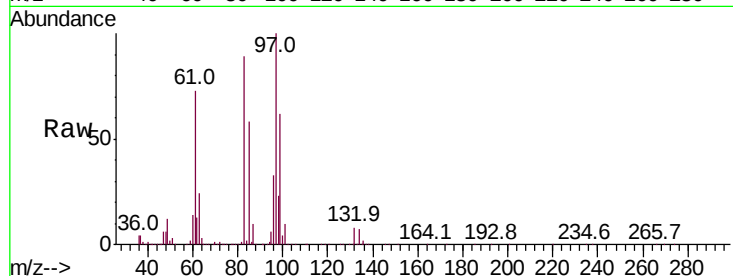
Ion	Ratio	Lower	Upper
97	100		
83	89.3	73.0	109.4
85	57.4	47.0	70.4
99	61.6	49.9	74.9

97 100

83 89.3 73.0 109.4

85 57.4 47.0 70.4

99 61.6 49.9 74.9

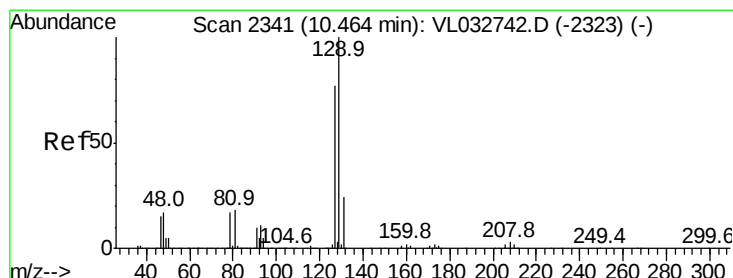
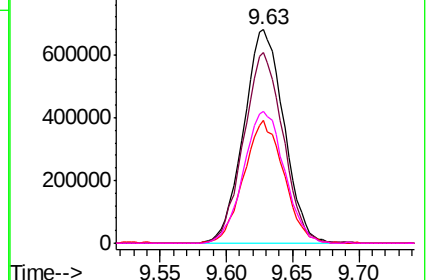
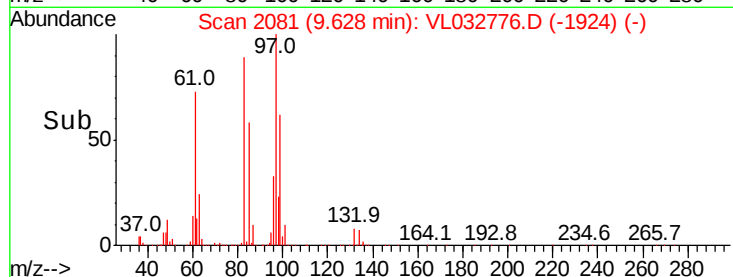


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 9.917 ppbv

RT: 10.46 min Scan# 2341

Delta R.T. 0.00 min

Lab File: VL032776.D

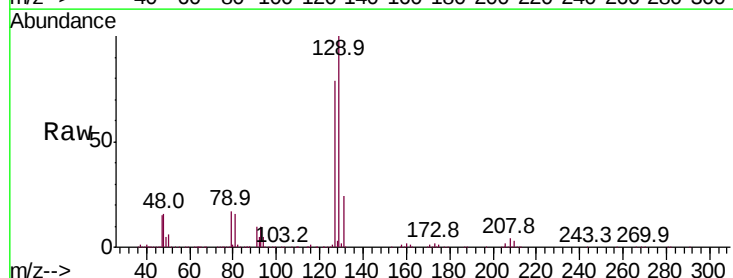
Acq: 20 Nov 2018 11:57

Tgt Ion: 129 Resp: 2470554

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.0	117.0

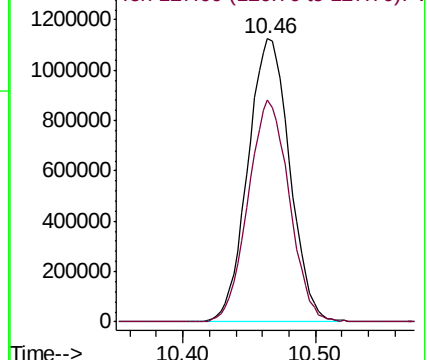
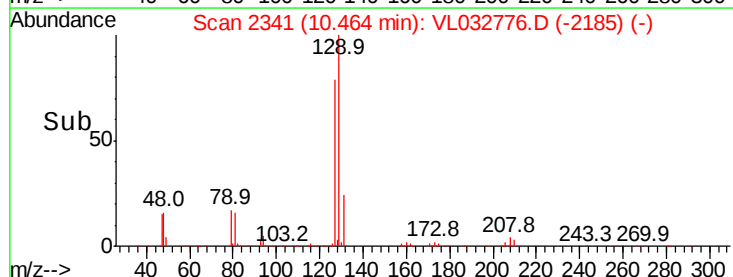
129 100

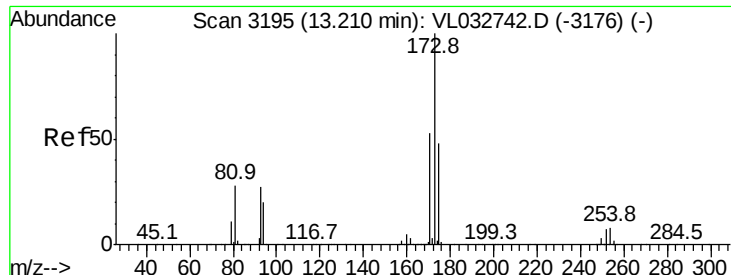
127 77.6 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.267 ppbv

RT: 13.22 min Scan# 3197

Delta R.T. 0.01 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampled :

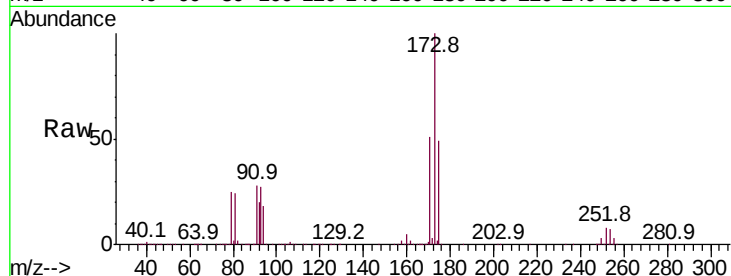
Tot Ion:173 Resp: 2112202

Ion Ratio Lower Upper

173 100

175 49.1 39.4 59.0

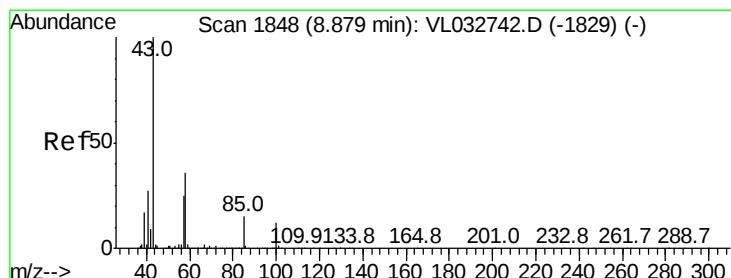
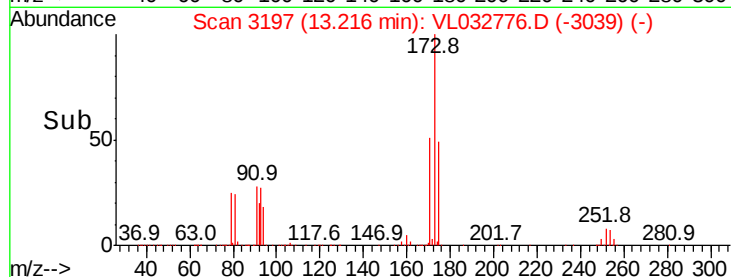
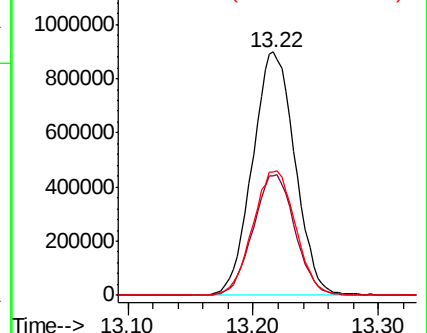
171 51.8 42.0 63.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.863 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VL032776.D

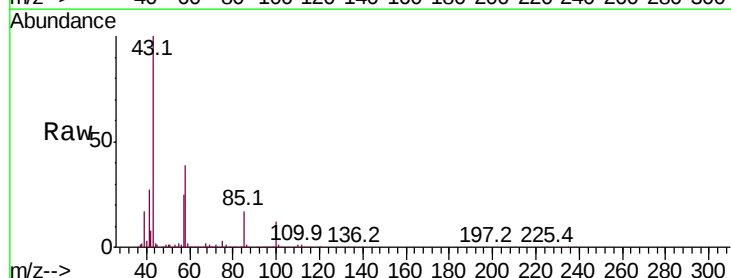
Acq: 20 Nov 2018 11:57

Tgt Ion: 43 Resp: 3264231

Ion Ratio Lower Upper

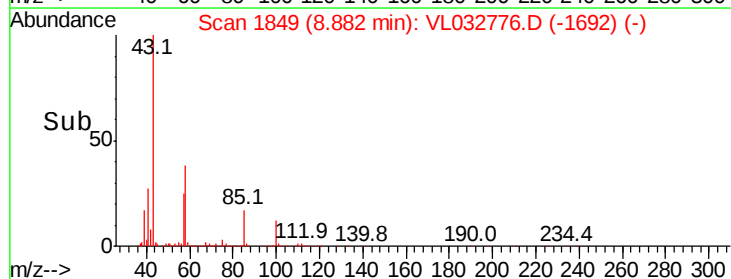
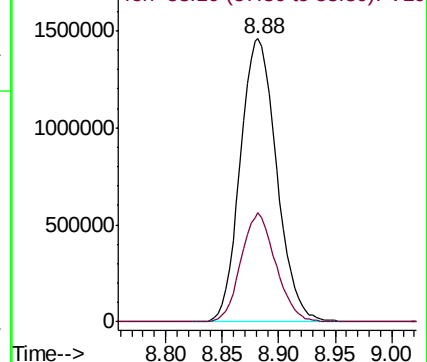
43 100

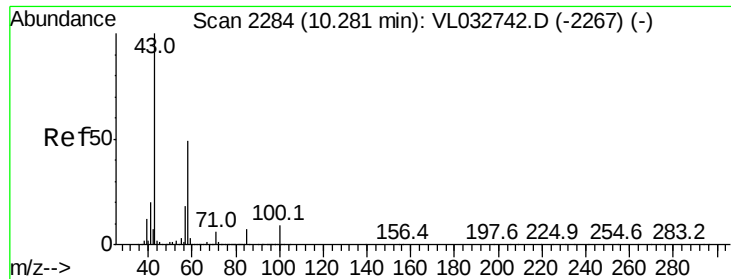
58 36.9 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

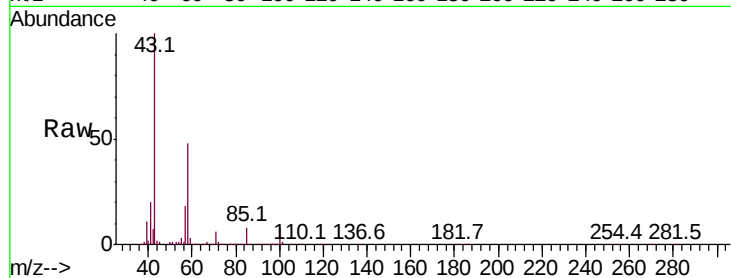




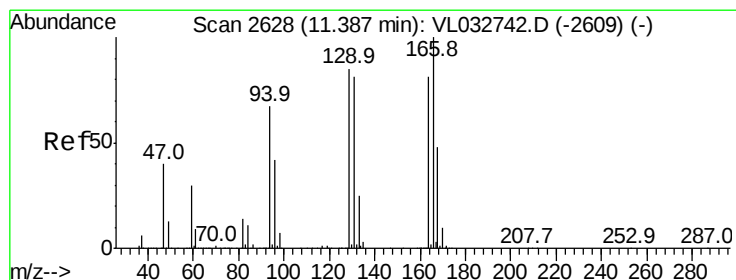
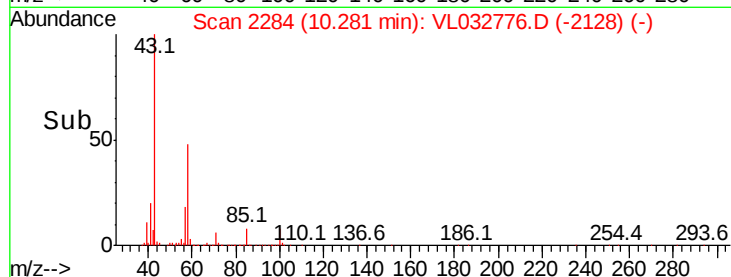
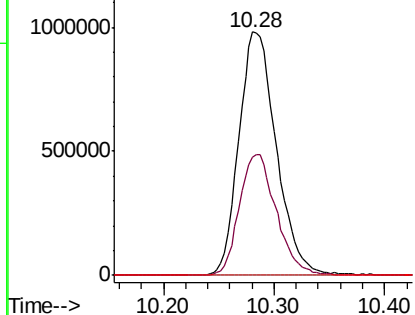
#51
2-Hexanone
Concen: 10.823 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 43 Resp: 2307626
Ion Ratio Lower Upper
43 100
58 49.1 38.9 58.3
98 0.2 0.2 0.4#

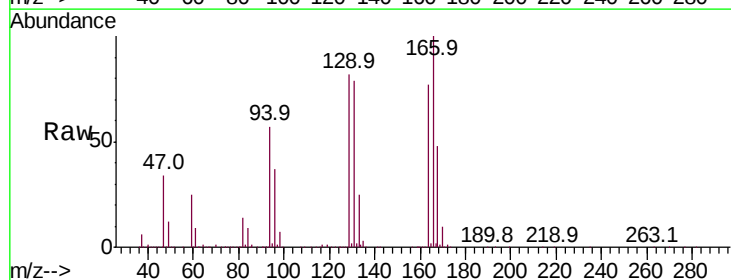


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

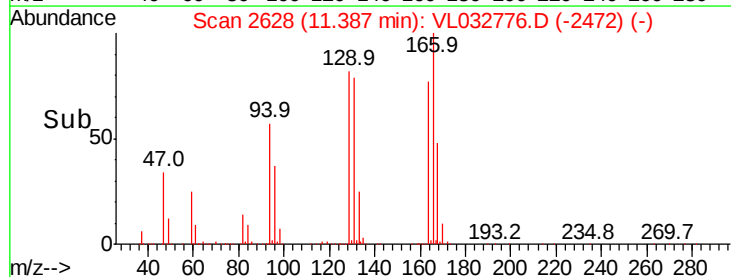
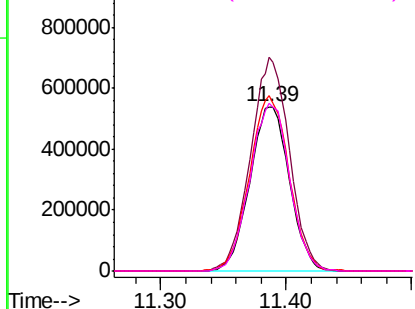


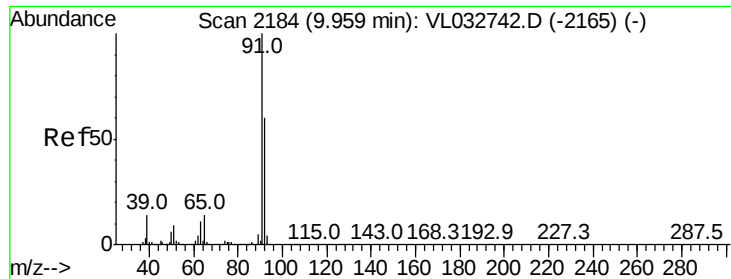
#52
Tetrachloroethene
Concen: 10.440 ppbv
RT: 11.39 min Scan# 2628
Delta R.T. -0.00 min
Lab File: VL032776.D
Acq: 20 Nov 2018 11:57

Tgt Ion:164 Resp: 1181510
Ion Ratio Lower Upper
164 100
166 130.1 99.3 148.9
129 107.1 83.9 125.9
131 102.3 80.8 121.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.086 ppbv

RT: 9.96 min Scan# 2184

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

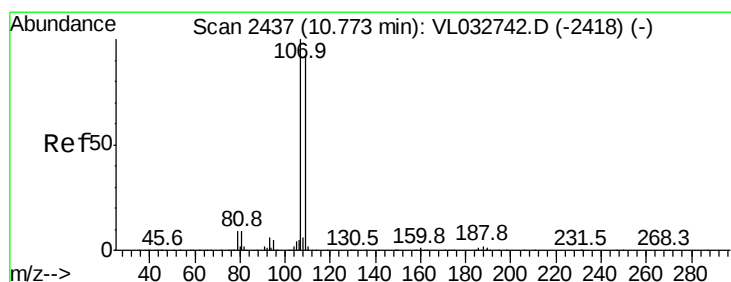
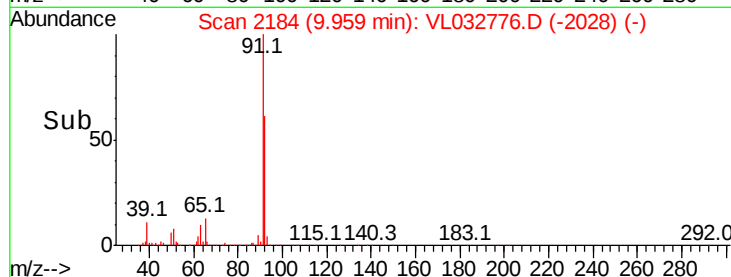
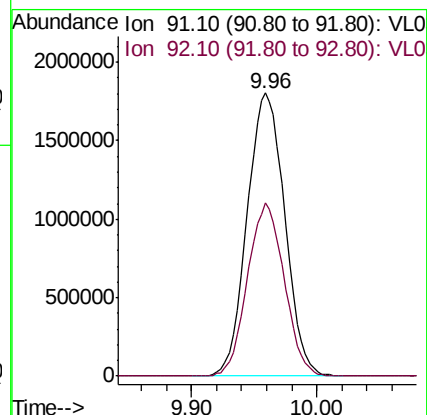
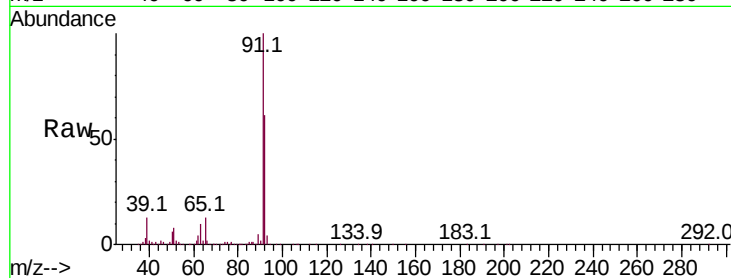
ClientSampleId :

Tot Ion: 91 Resp: 3762499

Ion Ratio Lower Upper

91 100

92 59.6 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.979 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. 0.00 min

Lab File: VL032776.D

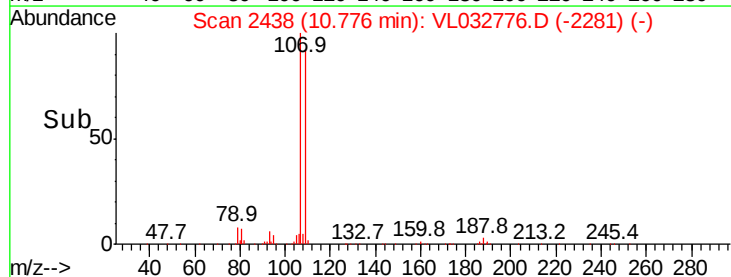
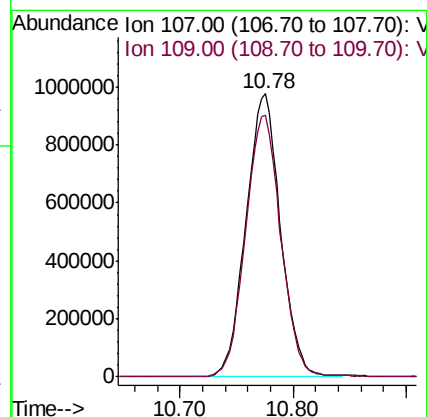
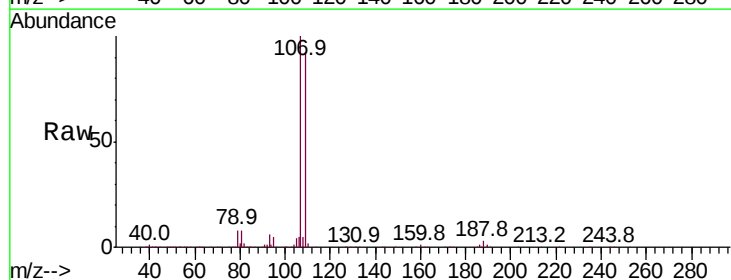
Acq: 20 Nov 2018 11:57

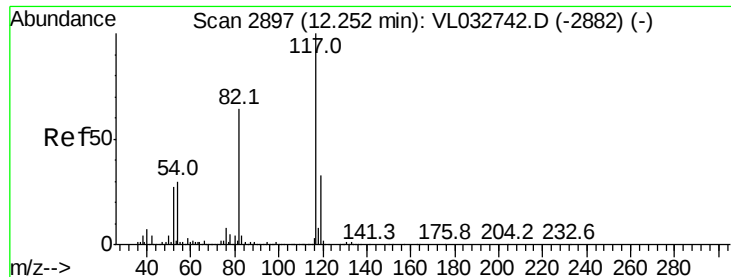
Tgt Ion: 107 Resp: 2067443

Ion Ratio Lower Upper

107 100

109 92.2 73.8 110.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampled :

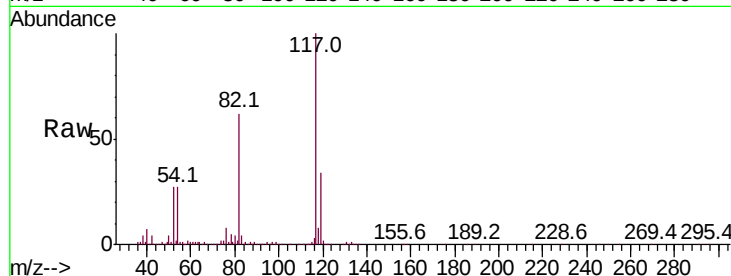
Tot Ion:117 Resp: 4129312

Ion Ratio Lower Upper

117 100

82 57.8 51.0 76.6

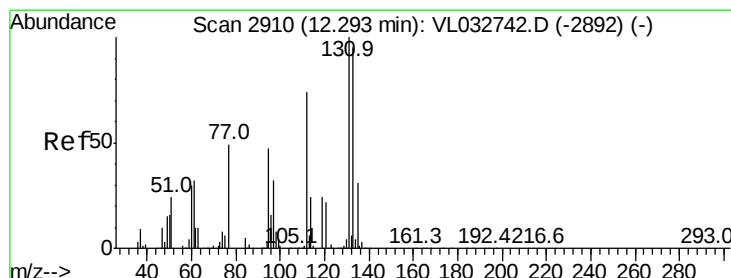
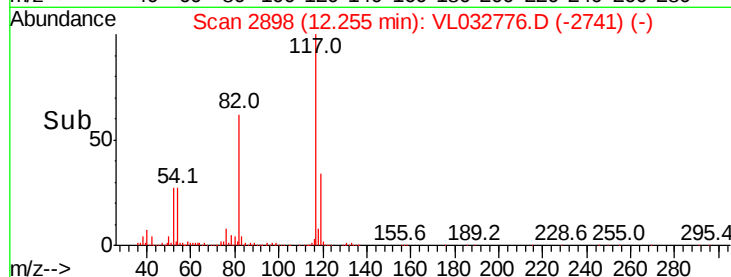
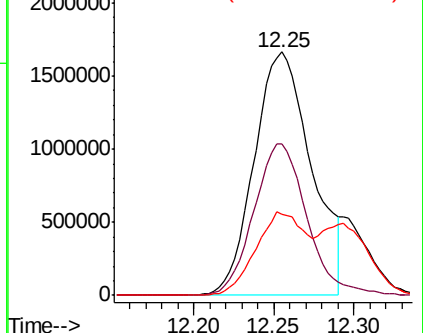
119 31.7 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.865 ppbv

RT: 12.29 min Scan# 2910

Delta R.T. -0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

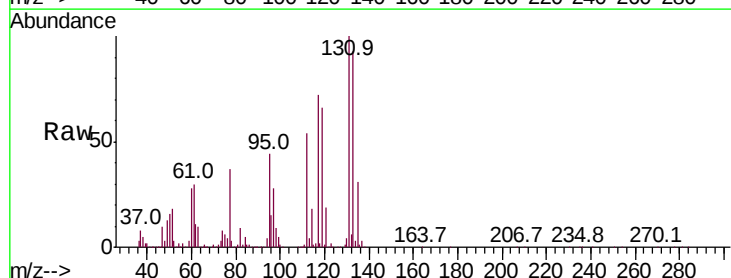
Tgt Ion:131 Resp: 1707312

Ion Ratio Lower Upper

131 100

133 94.4 75.8 113.6

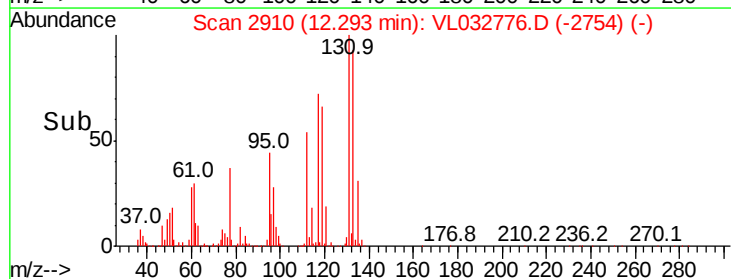
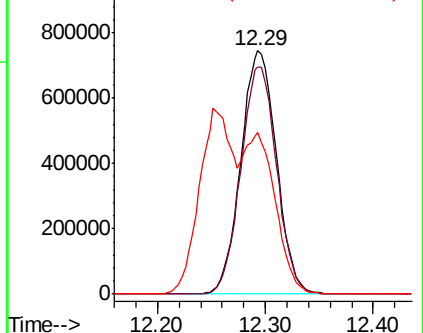
119 56.6 45.2 67.8

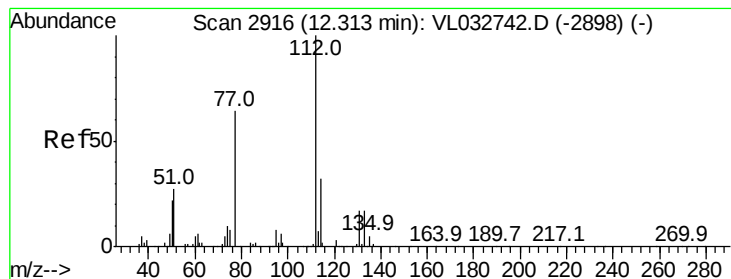


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.016 ppbv

RT: 12.32 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

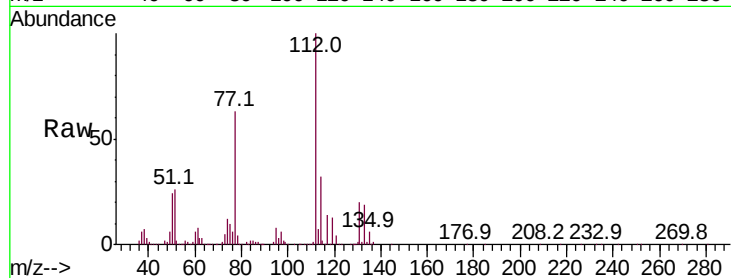
Tot Ion:112 Resp: 2849907

Ion	Ratio	Lower	Upper
112	100		
77	62.3	52.3	78.5
114	31.6	28.4	34.8

112 100

77 62.3 52.3 78.5

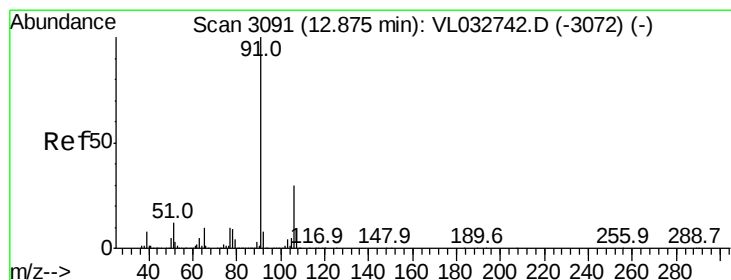
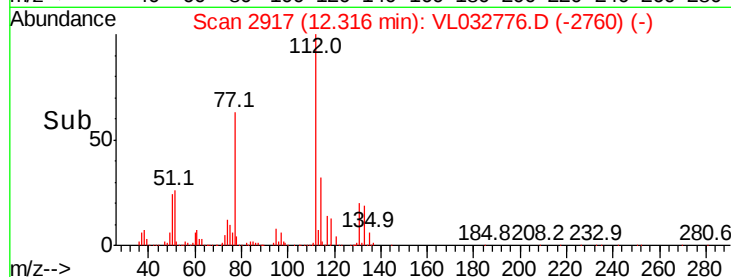
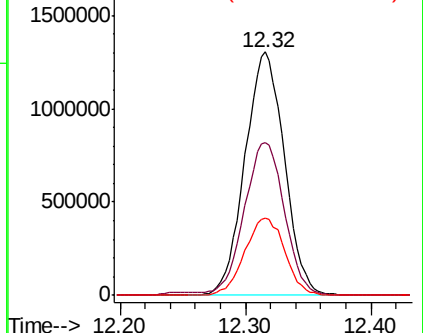
114 31.6 28.4 34.8



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.108 ppbv

RT: 12.88 min Scan# 3092

Delta R.T. 0.00 min

Lab File: VL032776.D

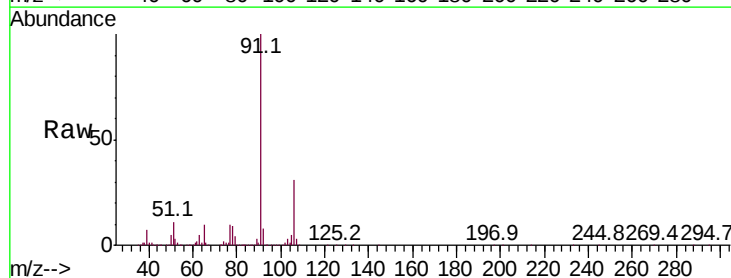
Acq: 20 Nov 2018 11:57

Tgt Ion: 91 Resp: 5023483

Ion	Ratio	Lower	Upper
91	100		
106	31.3	23.6	35.4

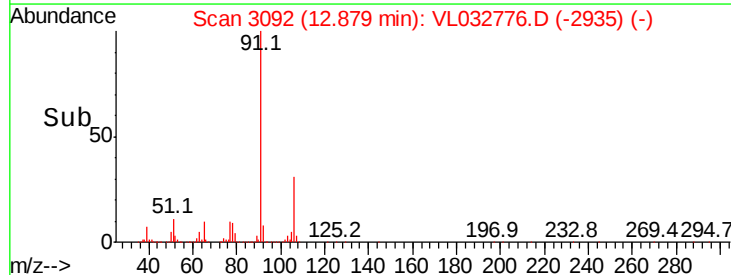
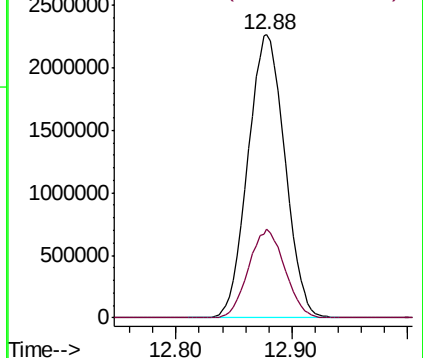
91 100

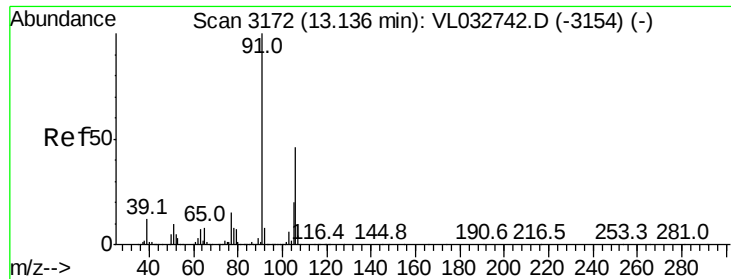
106 31.3 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 9.092 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

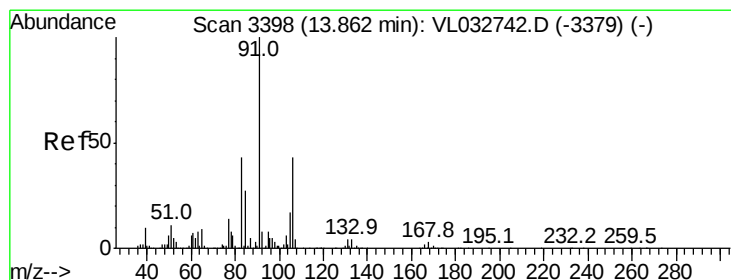
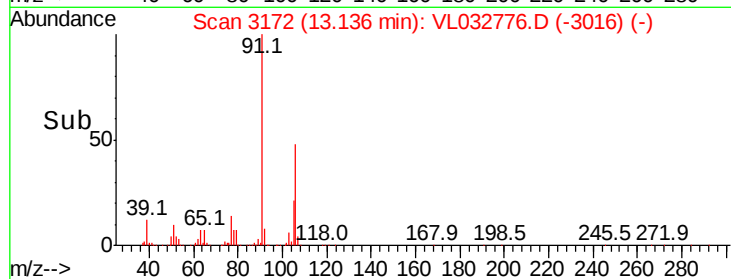
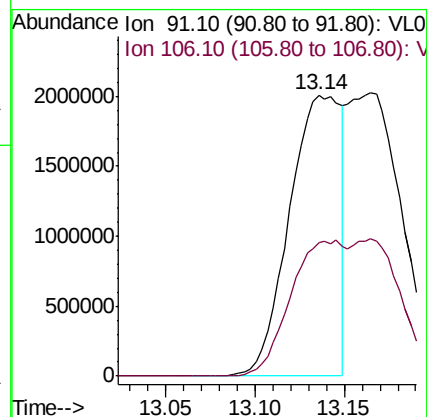
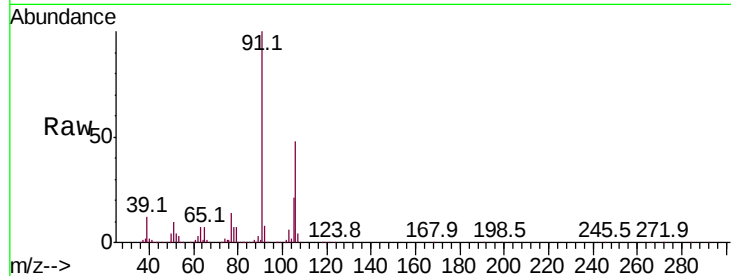
ClientSampleId :

Tot Ion: 91 Resp: 4022463

Ion Ratio Lower Upper

91 100

106 0.0 36.1 54.1#



#60

o-Xylene

Concen: 9.026 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. 0.00 min

Lab File: VL032776.D

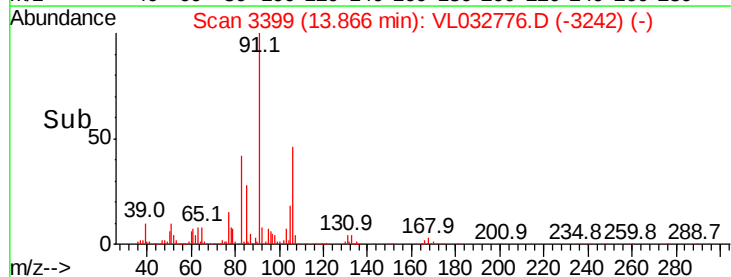
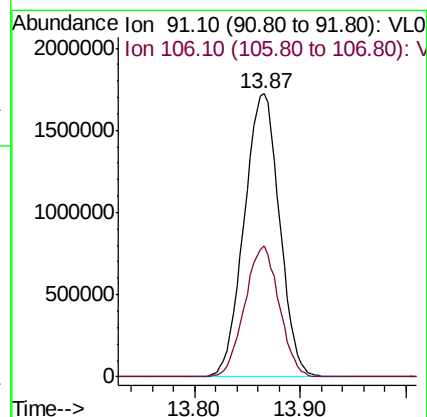
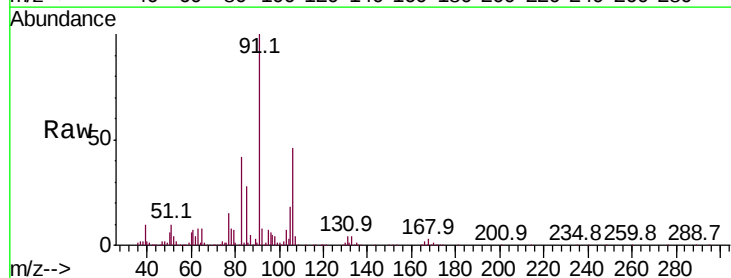
Acq: 20 Nov 2018 11:57

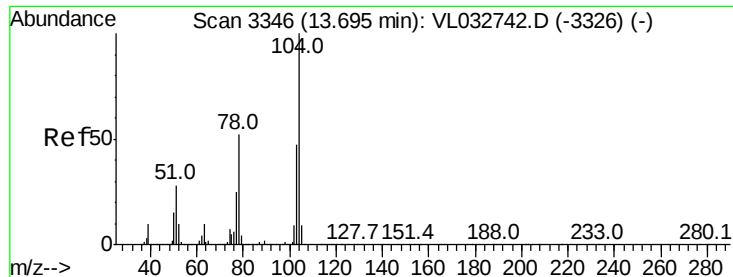
Tgt Ion: 91 Resp: 4015118

Ion Ratio Lower Upper

91 100

106 45.1 21.9 65.7





#61

Stvrene

Concen: 10.760 ppbv

RT: 13.70 min Scan# 3347

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

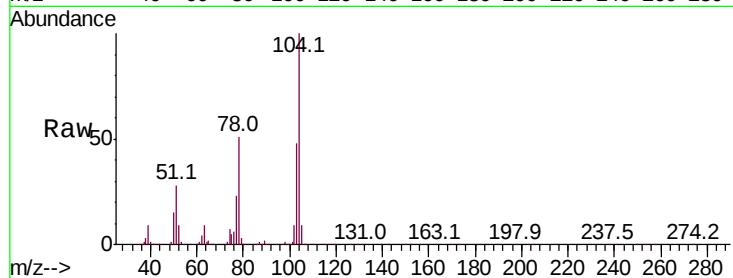
Tot Ion:104 Resp: 3115827

Ion Ratio Lower Upper

104 100

78 50.1 42.2 63.4

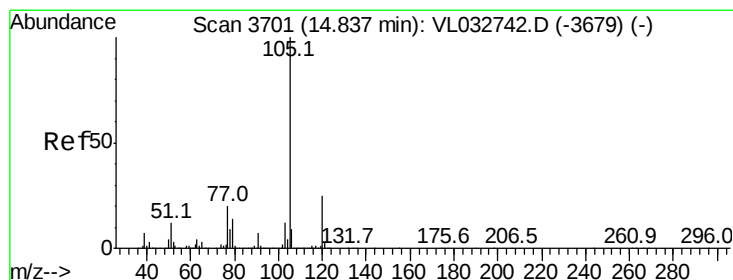
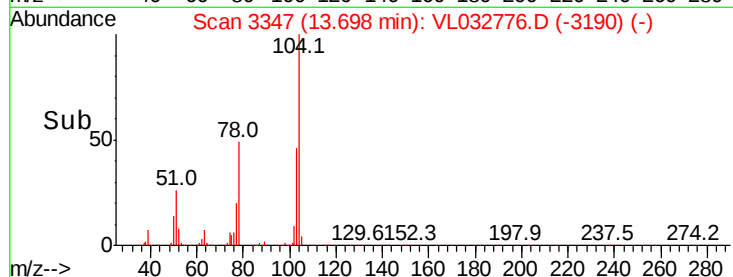
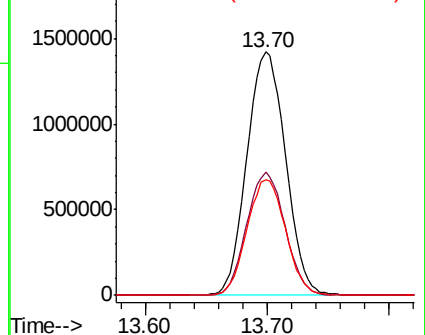
103 47.6 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 9.686 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032776.D

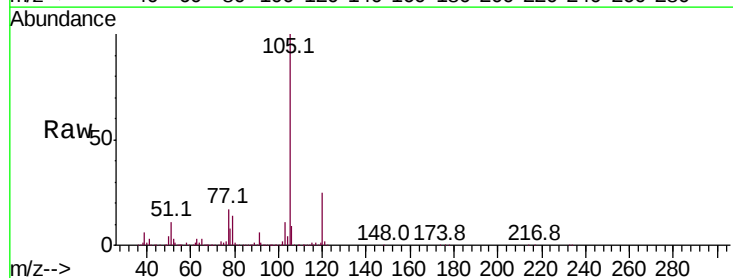
Acq: 20 Nov 2018 11:57

Tgt Ion:105 Resp: 5823856

Ion Ratio Lower Upper

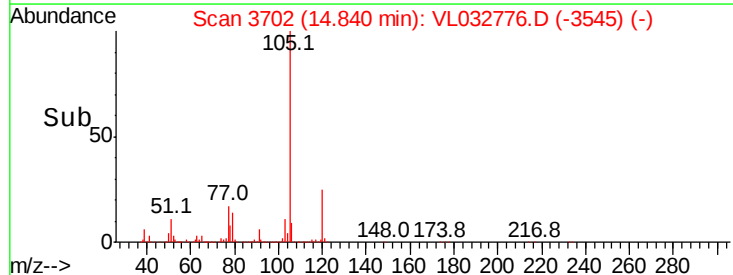
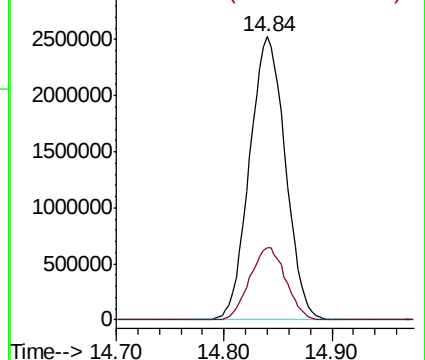
105 100

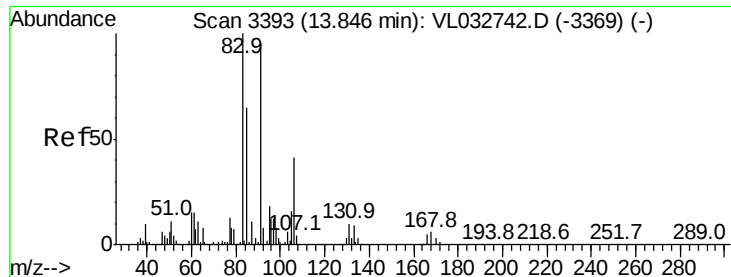
120 25.8 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.764 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. 0.01 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

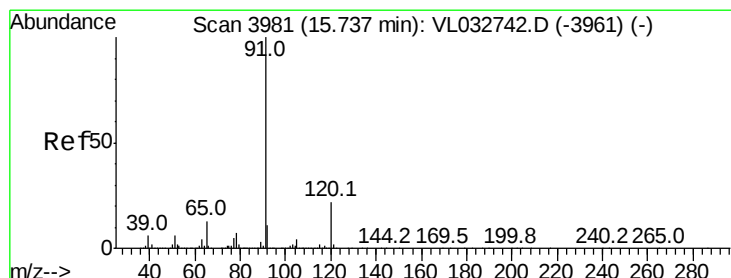
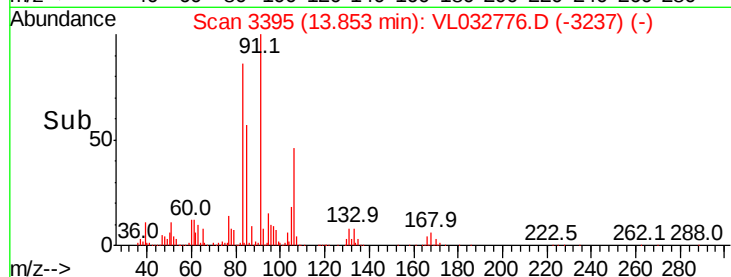
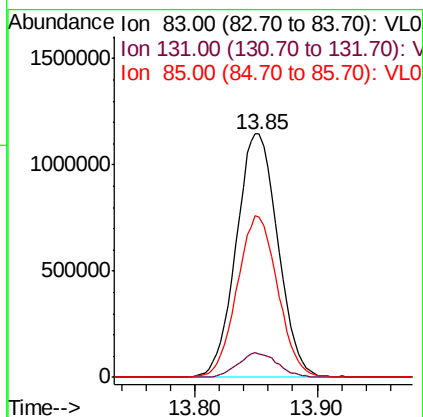
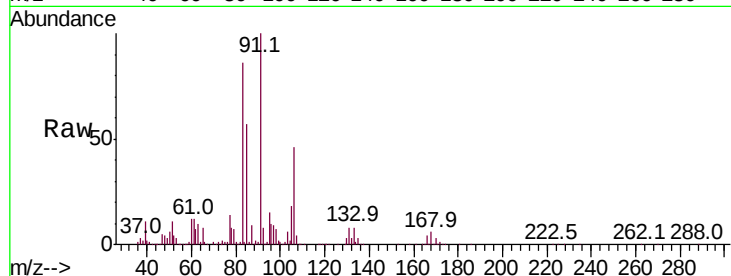
Tot Ion: 83 Resp: 2692174

Ion Ratio Lower Upper

83 100

131 9.8 4.7 14.1

85 65.3 32.5 97.4



#64

n-propylbenzene

Concen: 9.384 ppbv

RT: 15.73 min Scan# 3980

Delta R.T. -0.00 min

Lab File: VL032776.D

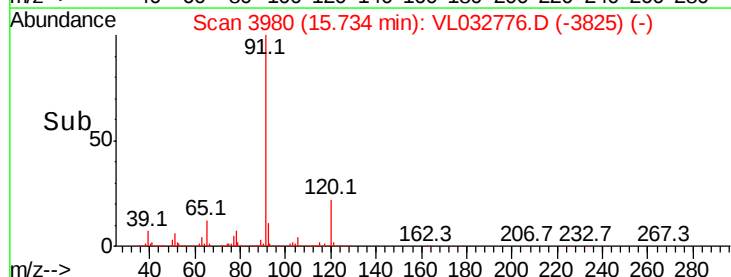
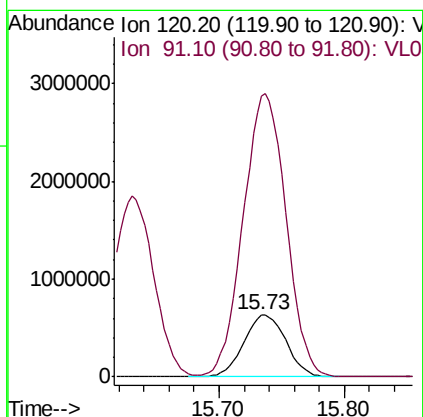
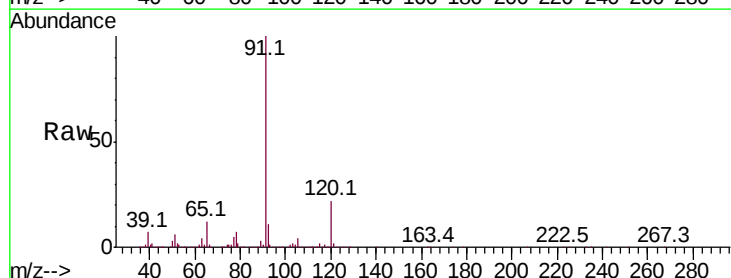
Acq: 20 Nov 2018 11:57

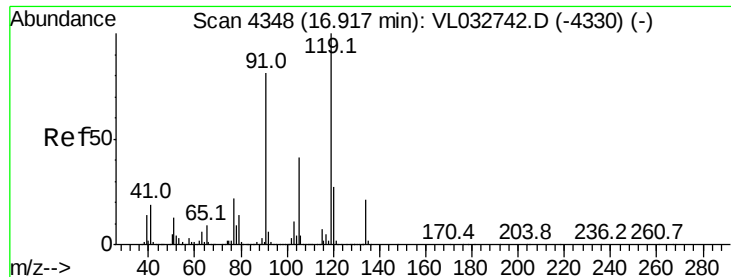
Tgt Ion:120 Resp: 1484074

Ion Ratio Lower Upper

120 100

91 464.4 381.7 572.5





#65

tert-Butylbenzene

Concen: 9.403 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.01 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampled :

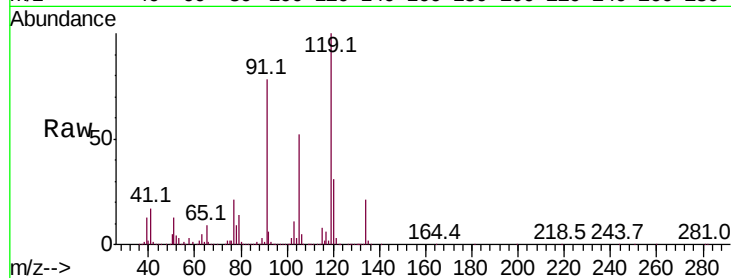
Tot Ion: 119 Resp: 5068063

Ion Ratio Lower Upper

119 100

91 78.5 65.6 98.4

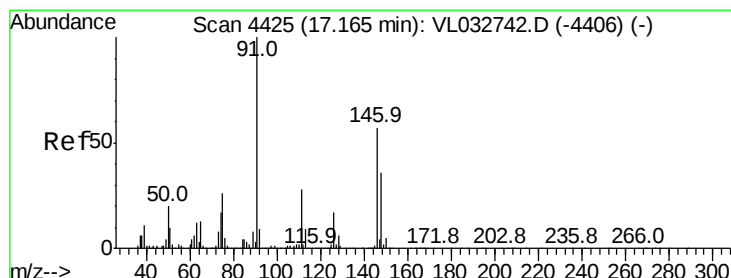
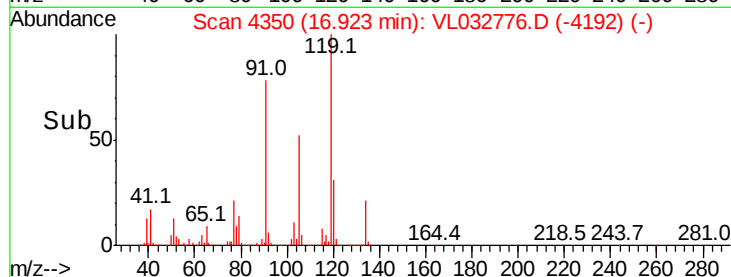
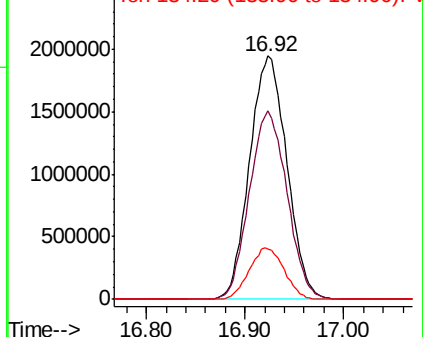
134 20.0 15.9 23.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.227 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

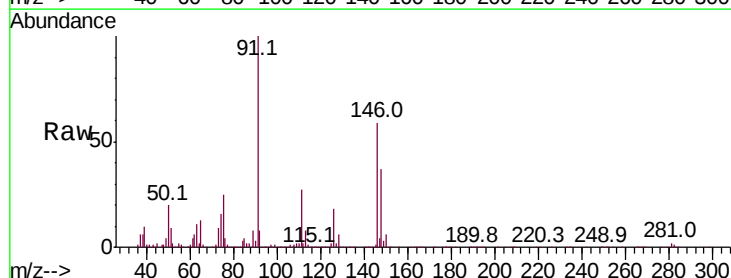
Tgt Ion: 91 Resp: 3047325

Ion Ratio Lower Upper

91 100

126 18.4 14.2 21.2

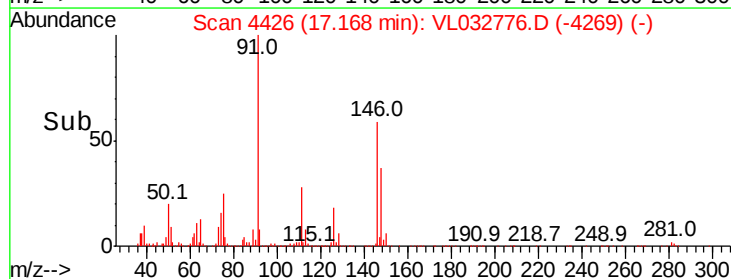
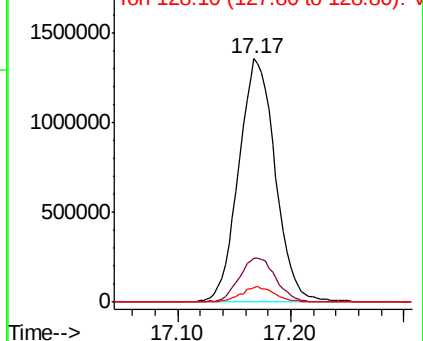
128 5.9 4.5 6.7

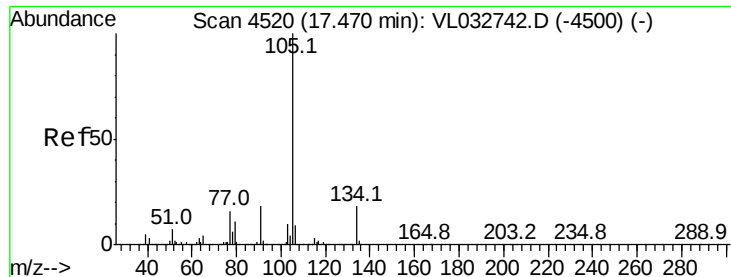


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.537 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

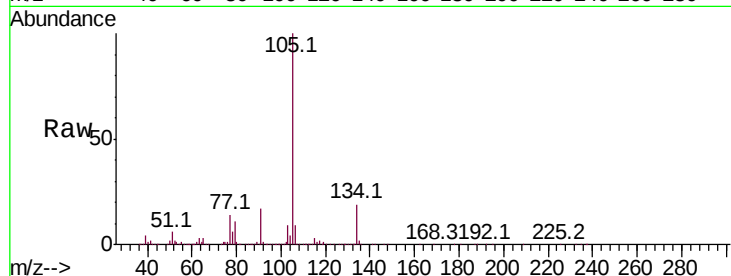
ClientSampleId :

Tot Ion:105 Resp: 7407731

Ion Ratio Lower Upper

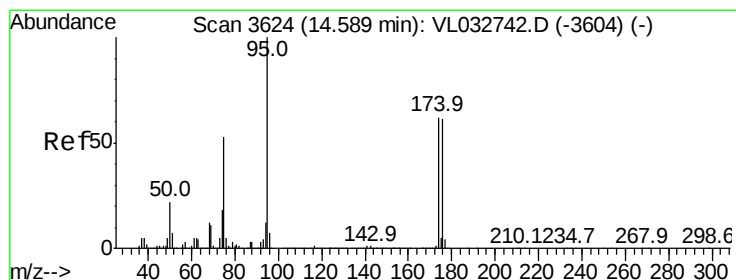
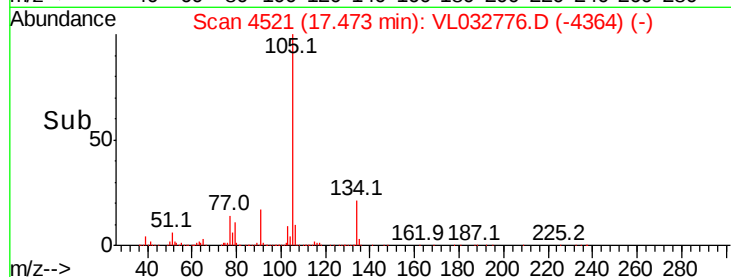
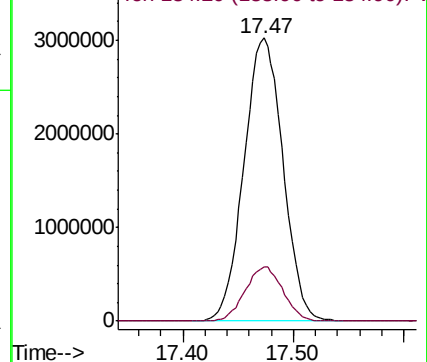
105 100

134 18.6 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.025 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

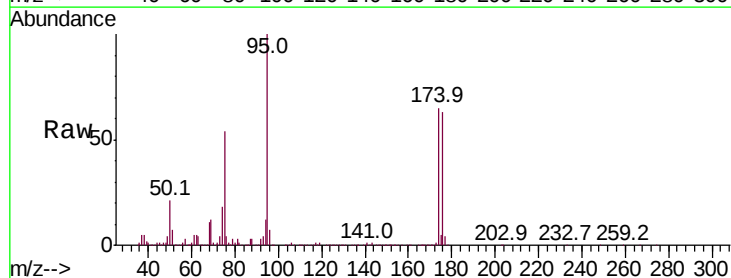
Tgt Ion: 95 Resp: 2787468

Ion Ratio Lower Upper

95 100

174 66.9 50.7 76.1

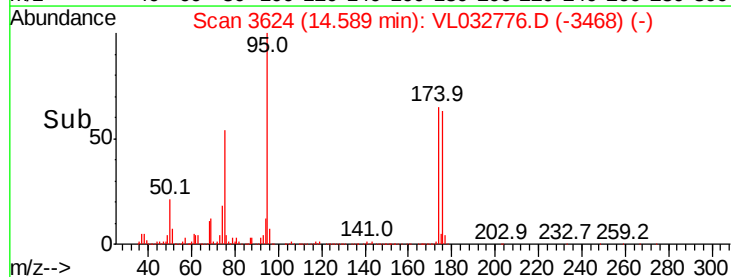
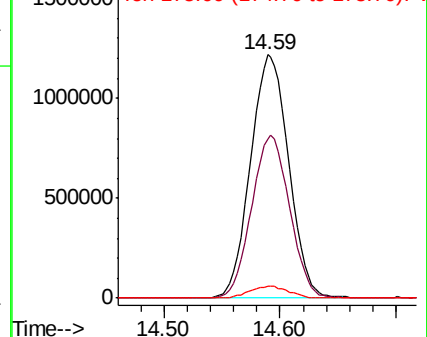
175 5.0 3.8 5.6

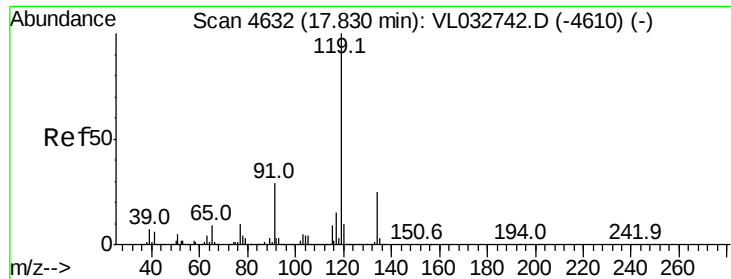


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

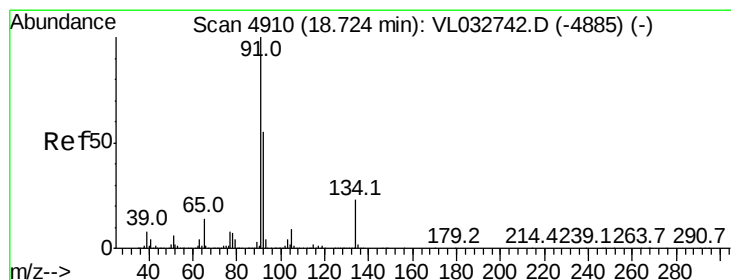
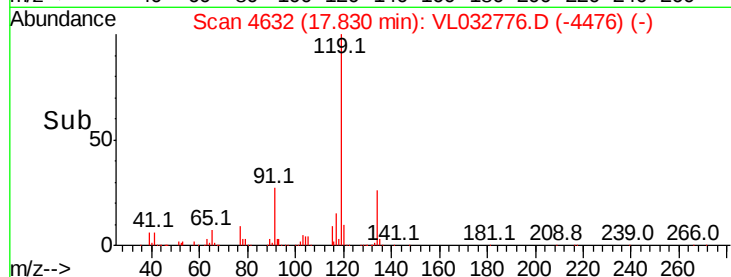
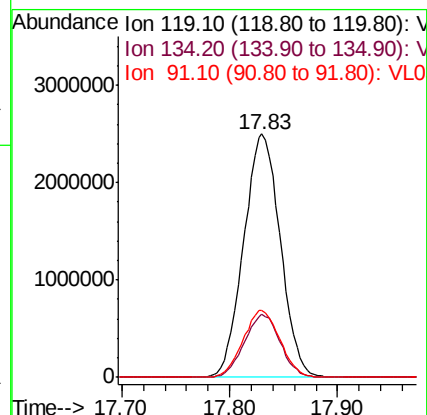
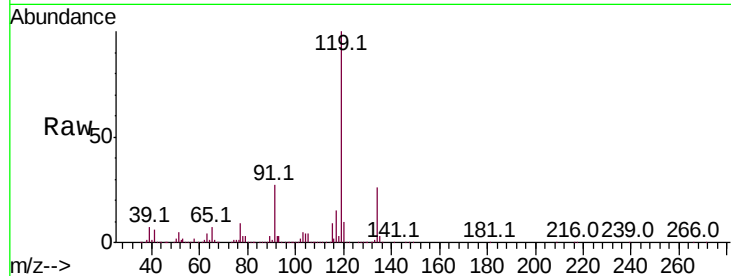




#69
 p-Isopropyltoluene
 Concen: 9.535 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

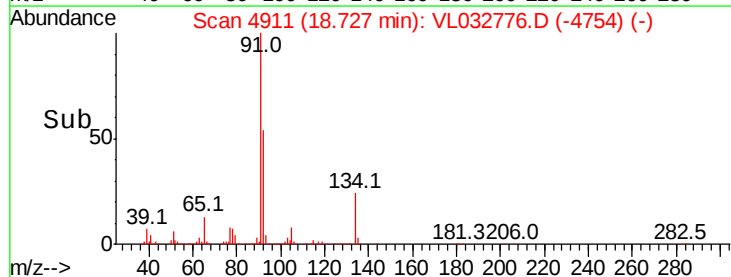
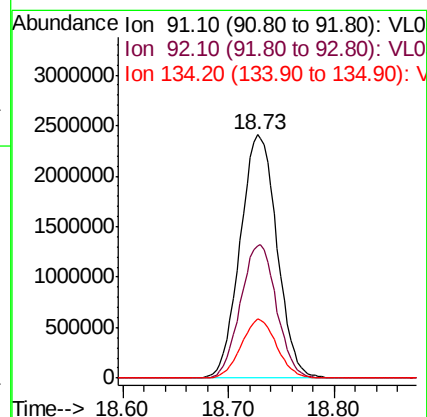
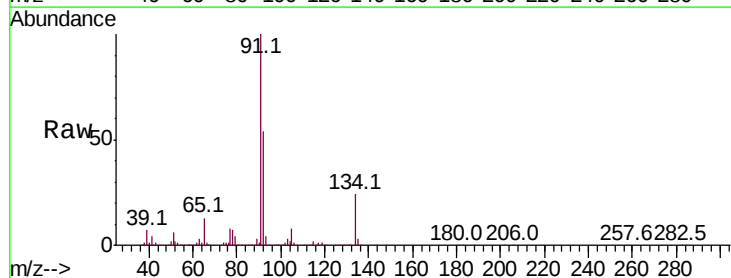
Instrument :
 MSVOA_L
 ClientSampleId :

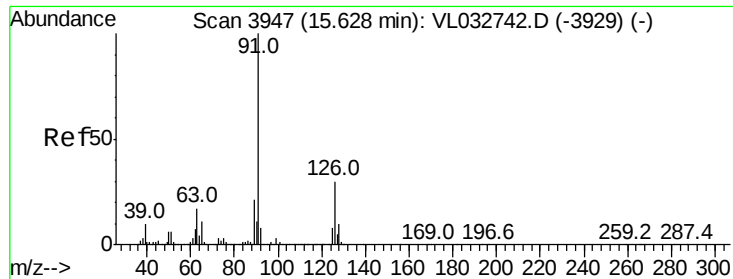
Tot Ion:119 Resp: 5889126
 Ion Ratio Lower Upper
 119 100
 134 25.4 20.2 30.4
 91 27.6 23.5 35.3



#70
 n-Butylbenzene
 Concen: 9.298 ppbv
 RT: 18.73 min Scan# 4911
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Tgt Ion: 91 Resp: 5830961
 Ion Ratio Lower Upper
 91 100
 92 53.8 42.9 64.3
 134 23.5 17.8 26.8





#71

2-Chlorotoluene

Concen: 9.500 ppbv

RT: 15.63 min Scan# 3948

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

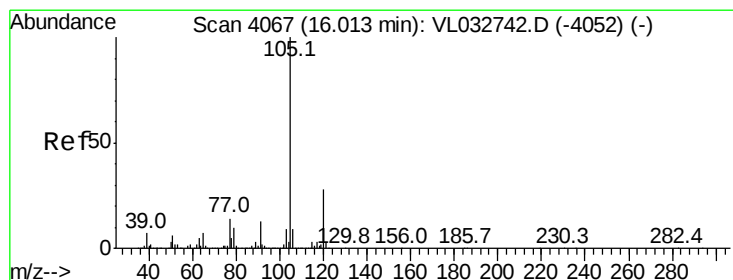
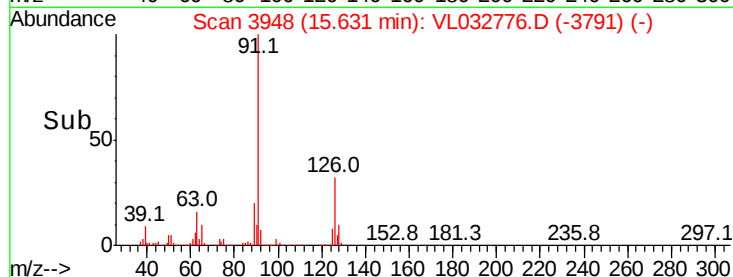
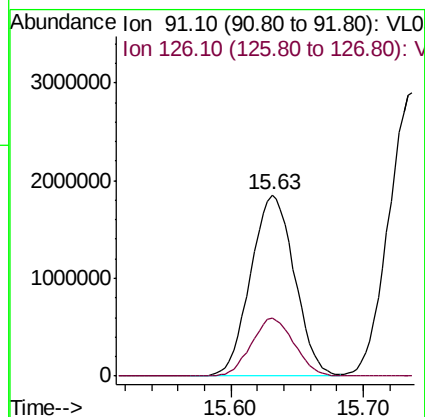
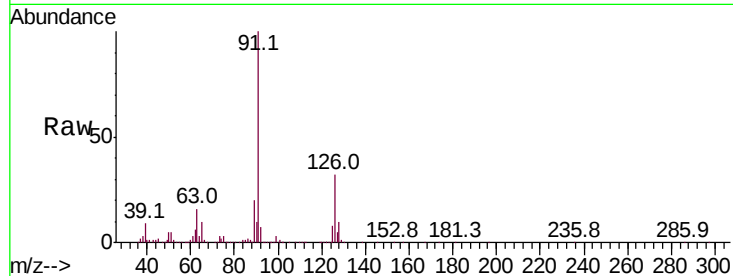
ClientSampleId :

Tot Ion: 91 Resp: 4259871

Ion Ratio Lower Upper

91 100

126 31.4 12.1 48.5



#72

4-Ethyltoluene

Concen: 9.719 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion:105 Resp: 4738523

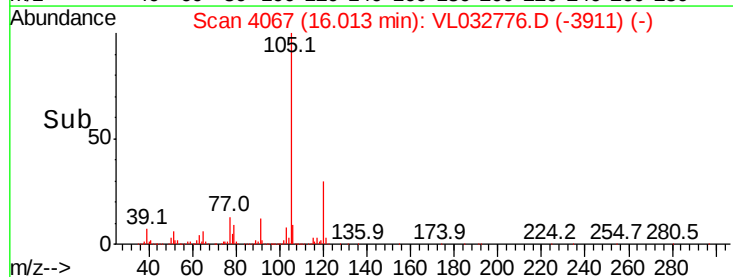
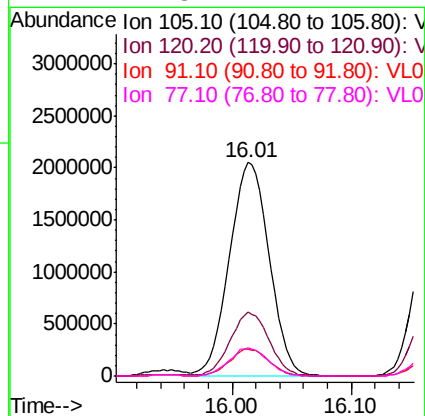
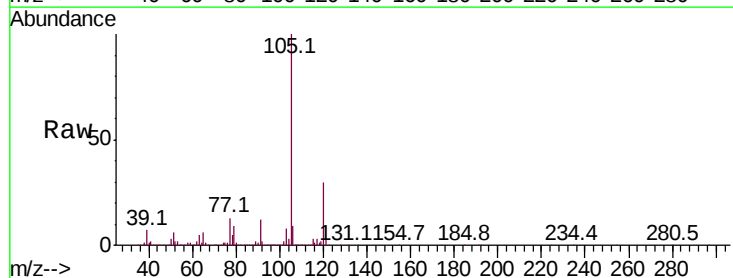
Ion Ratio Lower Upper

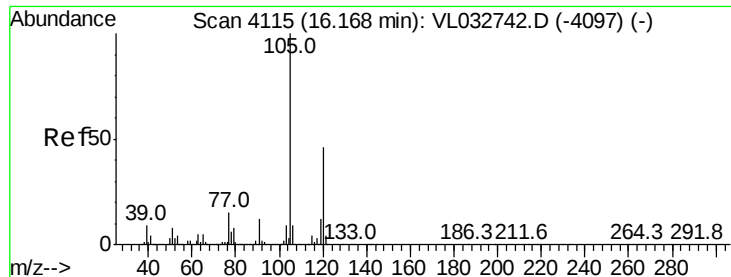
105 100

120 29.3 22.9 34.3

91 12.5 10.6 15.8

77 12.8 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 9.940 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. -0.15 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

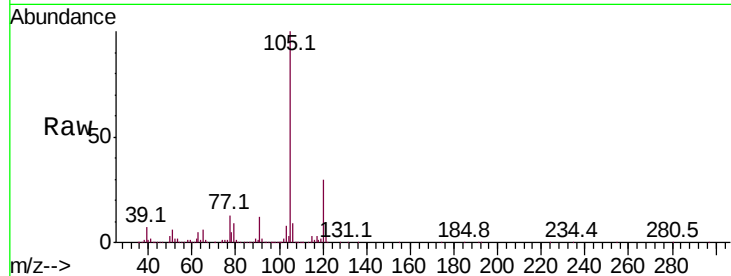
ClientSampled :

Tot Ion:105 Resp: 4738523

Ion Ratio Lower Upper

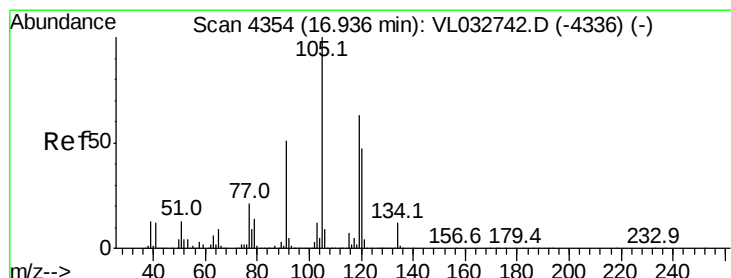
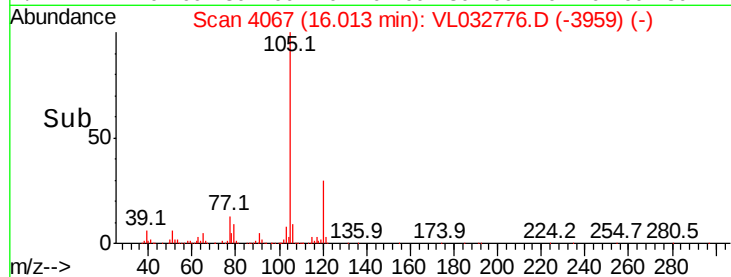
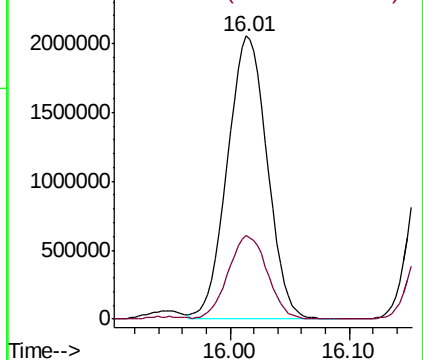
105 100

120 29.8 36.6 55.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.811 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. 0.01 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Tgt Ion:105 Resp: 4494679

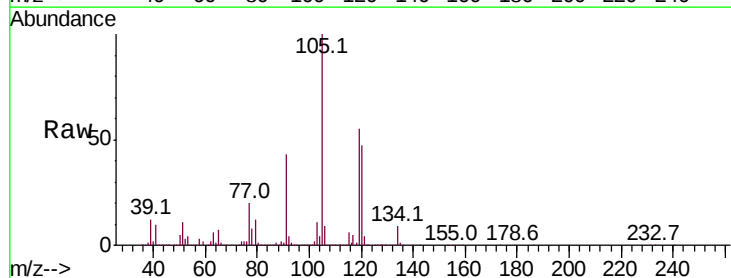
Ion Ratio Lower Upper

105 100

120 46.7 37.6 56.4

91 43.2 42.5 63.7

77 19.8 17.4 26.2

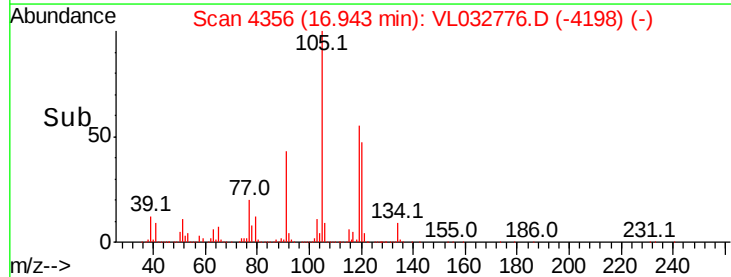
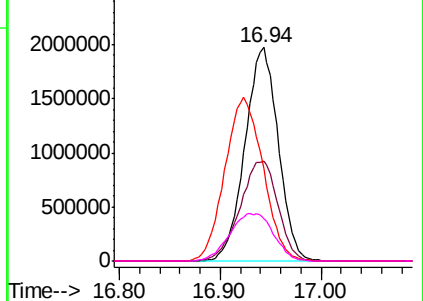


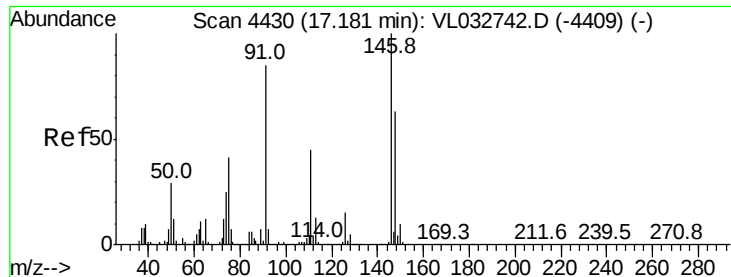
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.874 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

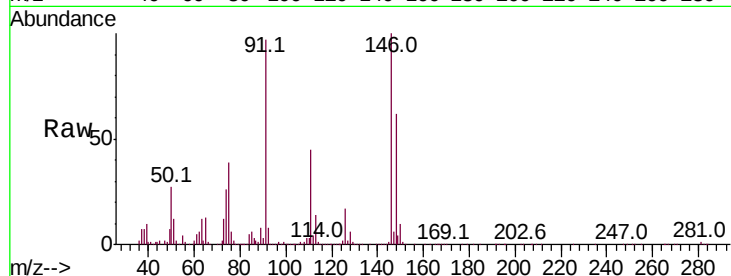
Tot Ion:146 Resp: 2596712

Ion Ratio Lower Upper

146 100

111 45.7 23.5 70.6

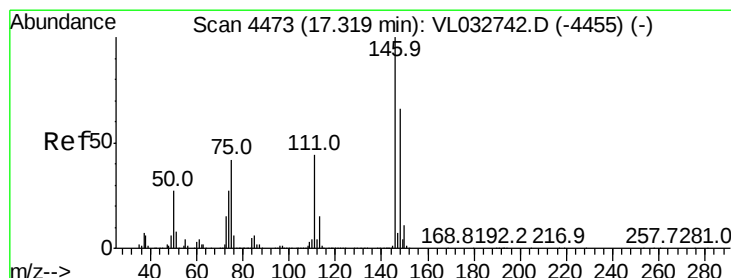
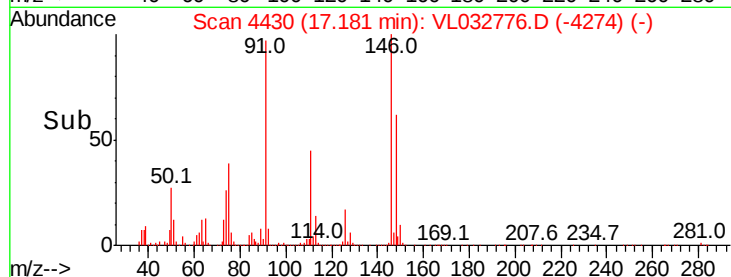
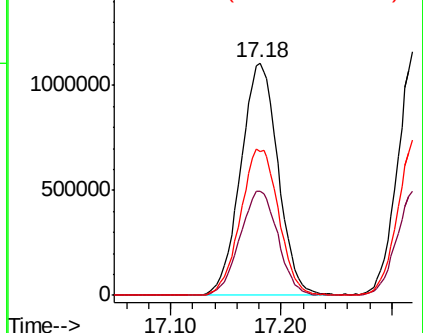
148 64.5 31.8 95.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.848 ppbv

RT: 17.32 min Scan# 4474

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

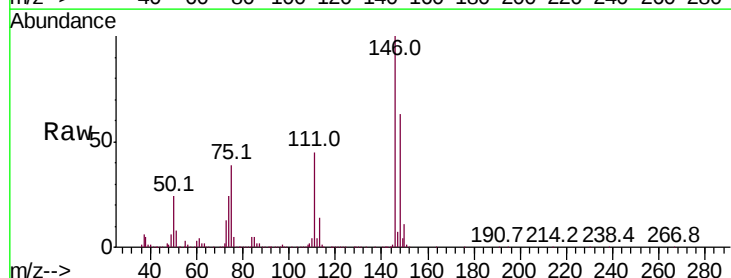
Tgt Ion:146 Resp: 2691803

Ion Ratio Lower Upper

146 100

111 44.5 22.5 67.5

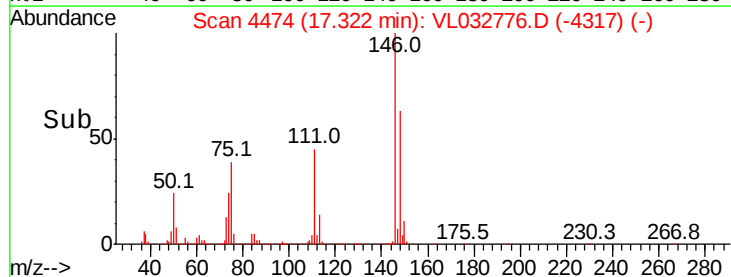
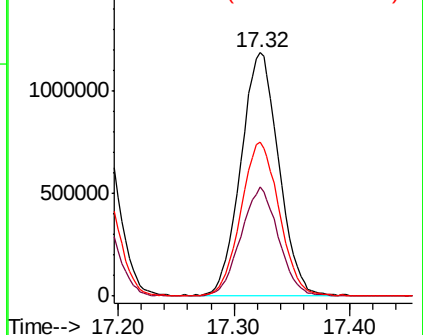
148 64.4 32.5 97.5

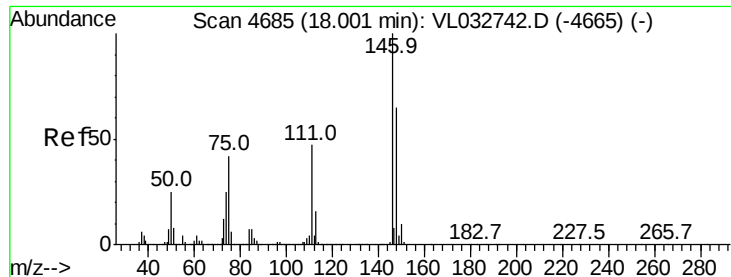


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

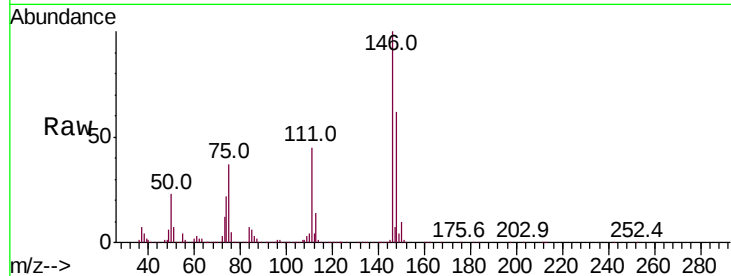




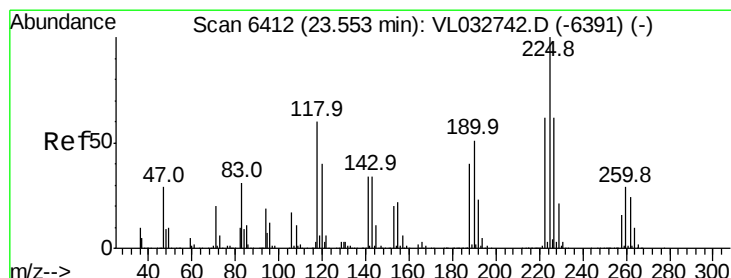
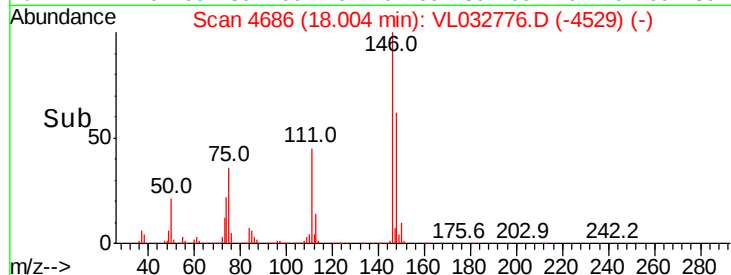
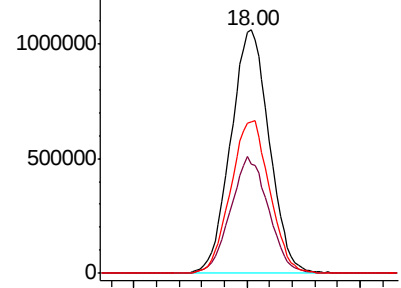
#77
 1,2-Dichlorobenzene
 Concen: 9.247 ppbv
 RT: 18.00 min Scan# 4686
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:146 Resp: 2503287
 Ion Ratio Lower Upper
 146 100
 111 47.1 24.4 73.2
 148 63.9 32.2 96.6

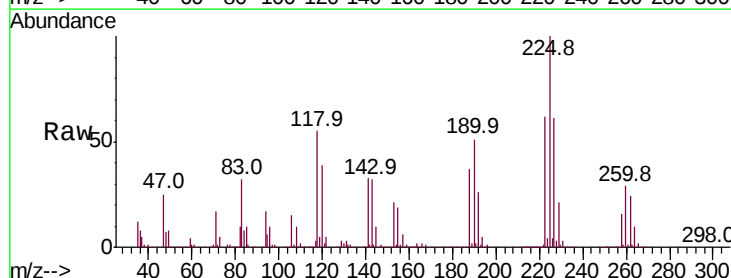


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

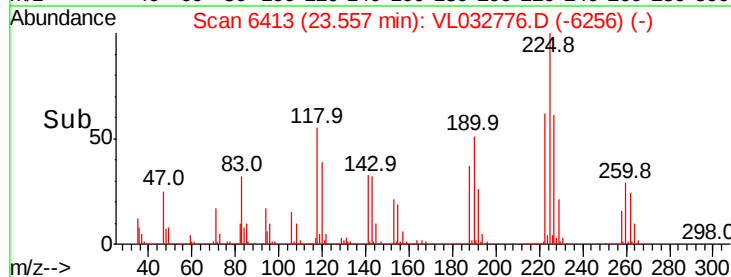
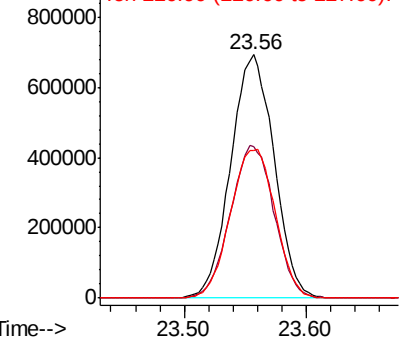


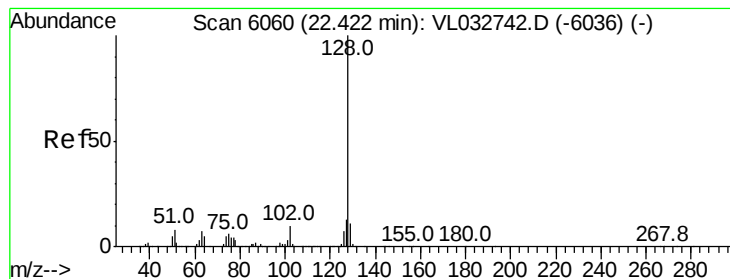
#78
 Hexachloro-1,3-Butadiene
 Concen: 11.645 ppbv
 RT: 23.56 min Scan# 6413
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Tgt Ion:225 Resp: 1701354
 Ion Ratio Lower Upper
 225 100
 223 63.3 50.3 75.5
 227 63.6 50.2 75.4



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.872 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. 0.01 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

Instrument :

MSVOA_L

ClientSampleId :

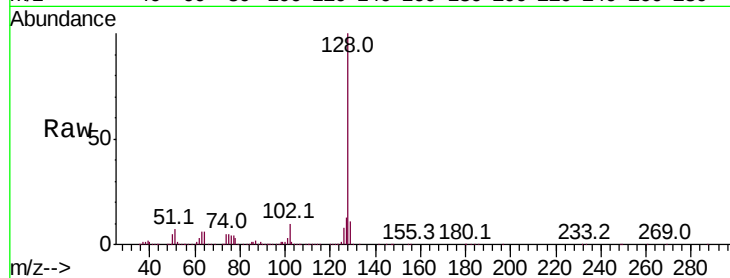
Tot Ion:128 Resp: 3978389

Ion Ratio Lower Upper

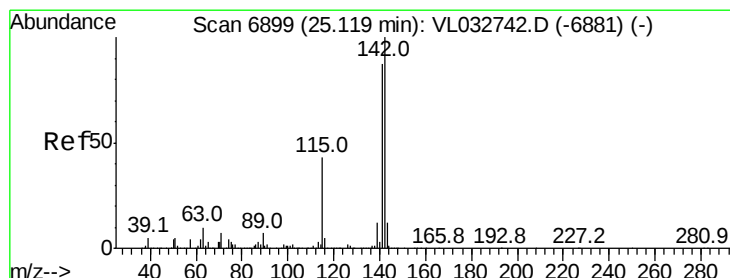
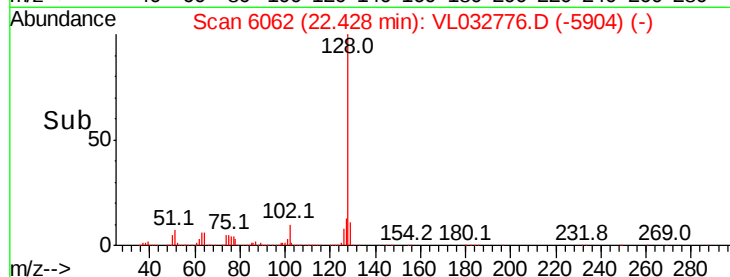
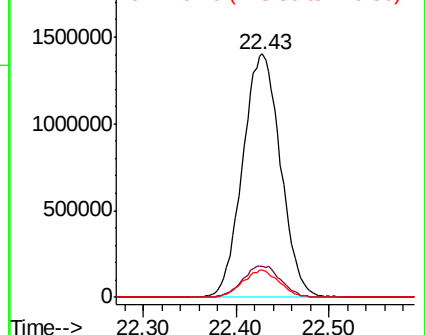
128 100

127 12.8 10.1 15.1

129 11.2 8.9 13.3



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 17.131 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL032776.D

Acq: 20 Nov 2018 11:57

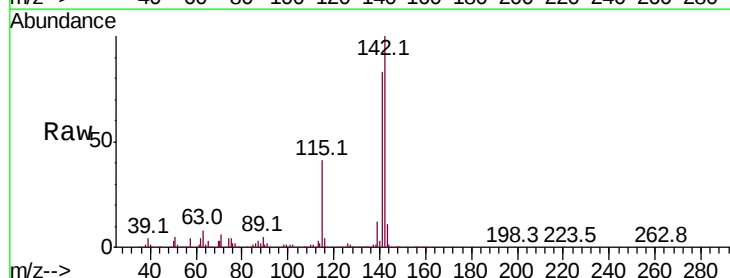
Tgt Ion:142 Resp: 1437851

Ion Ratio Lower Upper

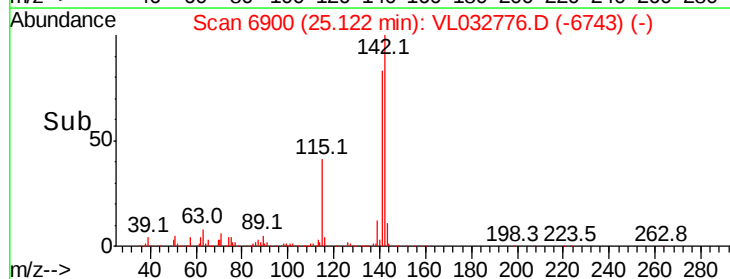
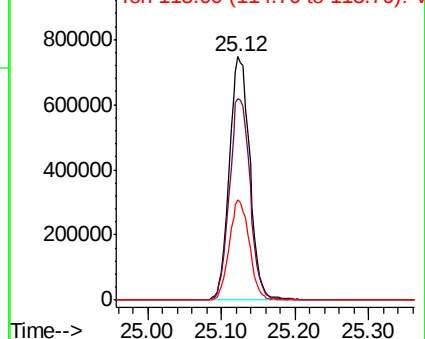
142 100

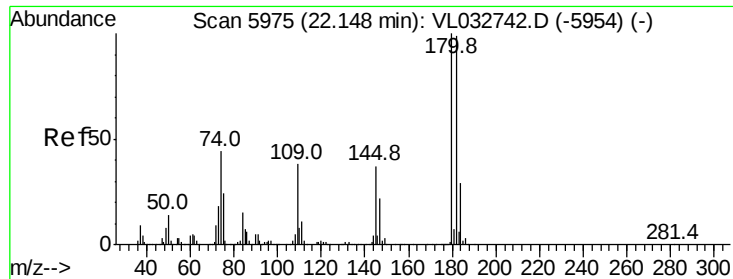
141 84.2 68.7 103.1

115 40.4 35.5 53.3



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

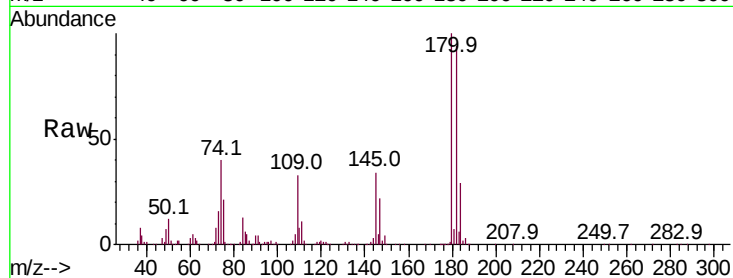




#81
 1,2,4-Trichlorobenzene
 Concen: 11.792 ppbv
 RT: 22.15 min Scan# 5976
 Delta R.T. 0.00 min
 Lab File: VL032776.D
 Acq: 20 Nov 2018 11:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 1984377
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.3 115.9
 184 30.2 24.2 36.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

