

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032311.D
 Acq On : 27 Jul 2018 1:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 05:31:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 05:29:53 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	2121994	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	4307441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	5104599	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4025198	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	248043	0.746 ppbv	99
3) Chlorodifluoromethane	3.06	51	218880	0.924 ppbv	100
4) Chloromethane	3.22	50	131733	0.940 ppbv	99
5) Vinyl Chloride	3.34	62	117833	0.888 ppbv	93
6) Bromomethane	3.57	94	63111	0.879 ppbv	99
7) Chloroethane	3.65	64	40875	0.873 ppbv	96
8) Dichlorotetrafluoroethane	3.27	85	273585	0.940 ppbv	100
9) Propene	3.08	41	93502	0.900 ppbv	97
10) Heptane	8.32	43	333954	1.004 ppbv	99
11) Trichlorofluoromethane	4.06	101	256484	0.922 ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.62	101	177437	0.988 ppbv	99
13) Ethanol	3.72	45	6114	0.205 ppbv #	1
14) Bromoethene	3.85	108	71775	0.888 ppbv #	96
15) Acetone	3.97	43	213903	0.977 ppbv	100
16) 1,3-Butadiene	3.41	39	100365	0.896 ppbv	98
17) tert-Butyl alcohol	4.43	59	66227	0.939 ppbv	95
18) 1,1-Dichloroethene	4.41	96	78027	0.927 ppbv	97
19) Isopropyl Alcohol	4.09	45	149622	0.995 ppbv #	92
20) Methylene Chloride	4.47	84	83863	0.975 ppbv	94
21) Allyl Chloride	4.54	41	137605	0.937 ppbv	96
22) trans-1,2-Dichloroethene	5.03	96	74496	0.860 ppbv	95
23) Vinyl Acetate	5.22	43	336558	0.851 ppbv #	97
24) 1,1-Dichloroethane	5.16	63	260963	0.911 ppbv	99
25) Ethyl Acetate	5.85	43	464116	0.963 ppbv	99
26) Hexane	5.85	57	211582	0.957 ppbv	98
27) Carbon Disulfide	4.69	76	174525	0.890 ppbv	98
28) Methyl tert-Butyl Ether	5.19	73	268085	0.829 ppbv	99
29) Chloroform	5.91	83	298575	0.923 ppbv	93
30) Cyclohexane	7.33	84	141365	0.768 ppbv #	60
31) cis-1,2-Dichloroethene	5.71	61	179001	0.842 ppbv	97
32) 1,1,1-Trichloroethane	6.69	97	279156	0.852 ppbv	99
34) 2-Butanone	5.40	43	289243	0.971 ppbv	99
35) Carbon Tetrachloride	7.21	117	271463	0.921 ppbv	95
36) Benzene	7.08	78	403869	0.949 ppbv	96
37) 1,2-Dichloroethane	6.49	62	233562	0.939 ppbv	99
38) Trichloroethene	8.04	130	162727	1.129 ppbv	97
39) 1,2-Dichloropropane	7.82	63	198468	1.130 ppbv	94
40) 1,4-Dioxane	8.06	88	20938	0.406 ppbv #	1
41) Tetrahydrofuran	6.24	42	152358	0.887 ppbv	99
42) Bromodichloromethane	7.99	83	375854	1.142 ppbv #	98
43) Methyl Methacrylate	8.22	69	181464	1.038 ppbv	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032311.D
 Acq On : 27 Jul 2018 1:57
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

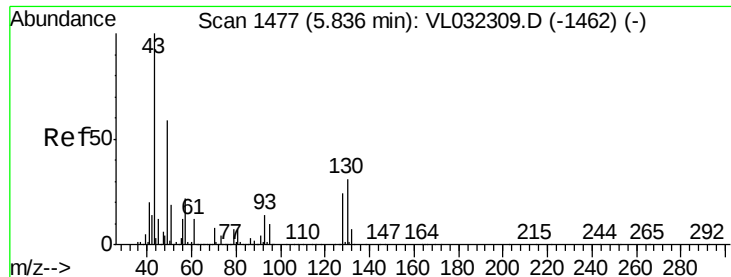
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 05:31:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 05:29:53 2018
 QLast Update : Fri Jul 27 05:29:53 2018
 Response via : Initial Calibration

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

44) 2,2,4-Trimethylpentane	8.07	57	890739	1.181	ppbv	97
45) t-1,3-Dichloropropene	9.49	75	191618	0.904	ppbv	96
46) cis-1,3-Dichloropropene	8.92	75	245337	0.934	ppbv	96
47) 1,1,2-Trichloroethane	9.70	97	194513	1.063	ppbv	95
48) Dibromochloromethane	10.53	129	278789	1.037	ppbv	98
49) Bromoform	13.29	173	230050	0.982	ppbv	99
50) 4-Methyl-2-Pentanone	8.96	43	509632	1.036	ppbv	97
51) 2-Hexanone	10.37	43	362835	0.938	ppbv #	97
52) Tetrachloroethene	11.46	164	145883	0.993	ppbv	96
53) Toluene	10.03	91	468090	0.908	ppbv	98
54) 1,2-Dibromoethane	10.85	107	268849	0.990	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.36	131	226169	1.000	ppbv #	1
57) Chlorobenzene	12.39	112	430309	1.029	ppbv	98
58) Ethyl Benzene	12.95	91	653205	0.923	ppbv	91
59) m/p-Xylene	13.23	91	515240	0.844	ppbv #	17
60) o-Xylene	13.94	91	566991	0.932	ppbv	98
61) Styrene	13.77	104	391855	0.877	ppbv	99
62) Isopropylbenzene	14.91	105	816388	0.948	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.92	83	487283	0.938	ppbv	100
64) n-propylbenzene	15.80	120	209238	0.947	ppbv	90
65) tert-Butylbenzene	16.99	119	710120	0.966	ppbv	99
66) Benzyl Chloride	17.24	91	353857	0.860	ppbv	98
67) sec-Butylbenzene	17.54	105	1060235	0.966	ppbv	98
69) p-Isopropyltoluene	17.90	119	356611	0.420	ppbv #	33
70) n-Butylbenzene	18.80	91	938020	0.988	ppbv	96
71) 2-Chlorotoluene	15.70	91	623380	0.906	ppbv	99
72) 4-Ethyltoluene	16.08	105	614477	0.887	ppbv	98
73) 1,3,5-Trimethylbenzene	16.24	105	625564	0.924	ppbv	98
74) 1,2,4-Trimethylbenzene	17.01	105	688506	0.967	ppbv	99
75) 1,3-Dichlorobenzene	17.25	146	397043	1.000	ppbv	97
76) 1,4-Dichlorobenzene	17.39	146	366746	0.933	ppbv	97
77) 1,2-Dichlorobenzene	18.07	146	232219	0.603	ppbv #	49
78) Hexachloro-1,3-Butadiene	23.62	225	10227	0.081	ppbv #	18
79) Naphthalene	22.51	128	545558	0.903	ppbv	99
80) Naphthalene, 2-methyl-	25.19	142	168835	0.658	ppbv	96
81) 1,2,4-Trichlorobenzene	22.23	180	135909	0.460	ppbv #	12

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1476

Delta R.T. -0.00 min

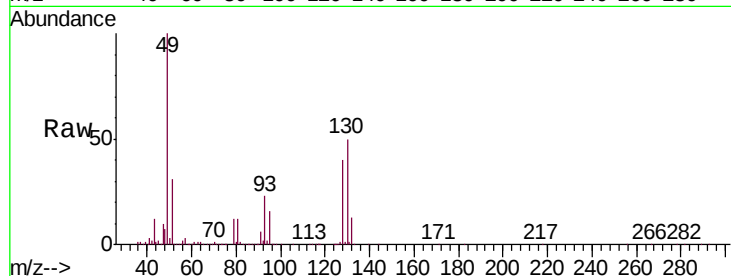
Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 2121994

Ion	Ratio	Lower	Upper
49	100		
128	39.8	20.2	60.6
130	51.2	25.8	77.3



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

5.83

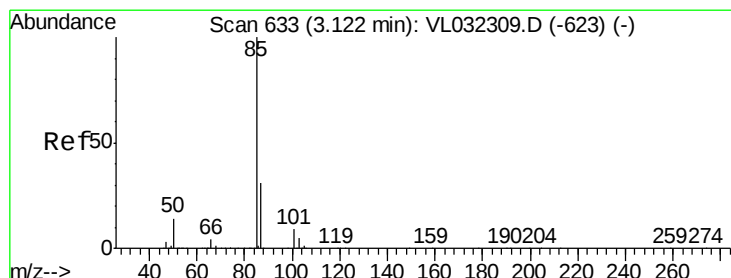
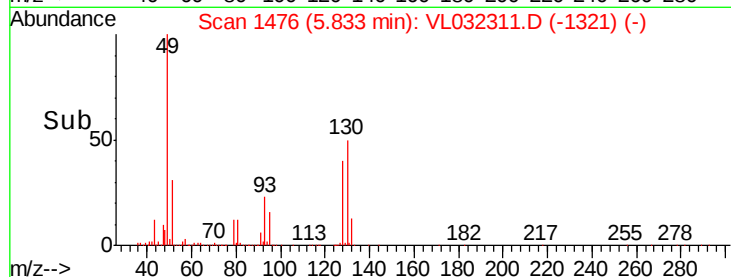
1000000

500000

0

Time-->

5.75 5.80 5.85 5.90



#2

Dichlorodifluoromethane

Concen: 0.746 ppbv

RT: 3.12 min Scan# 633

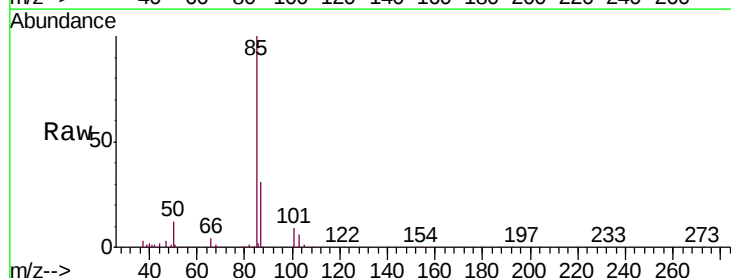
Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 85 Resp: 248043

Ion	Ratio	Lower	Upper
85	100		
87	30.8	25.2	37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.12

200000

150000

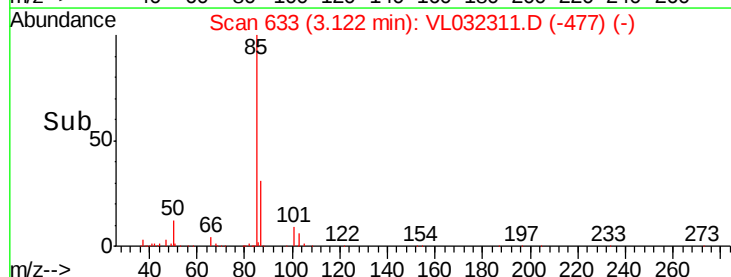
100000

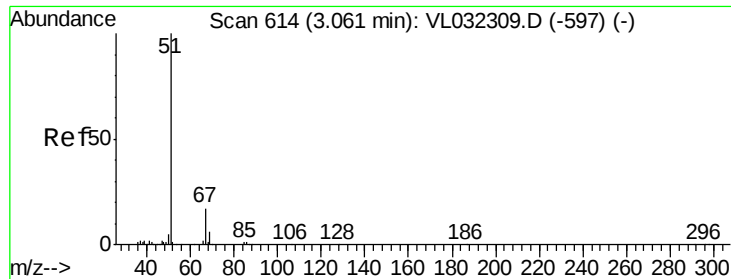
50000

0

Time-->

3.10 3.15





#3

Chlorodifluoromethane

Concen: 0.924 ppbv

RT: 3.06 min Scan# 614

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

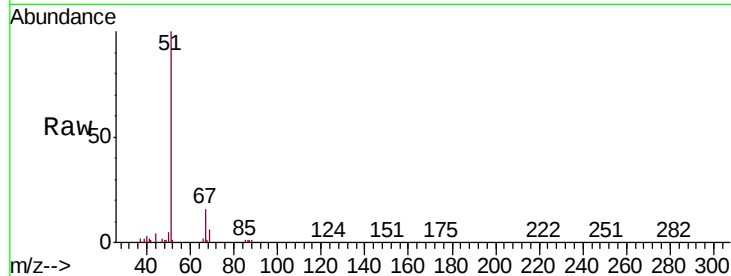
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 218880

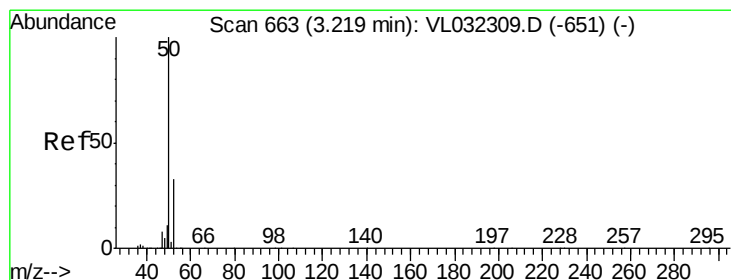
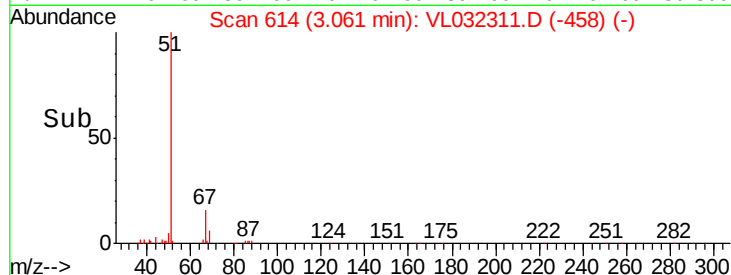
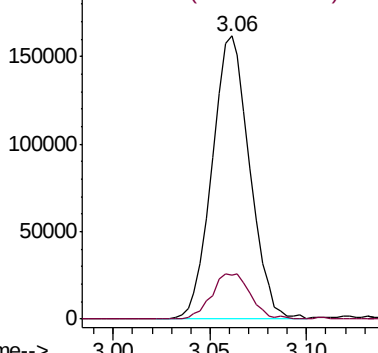
Ion Ratio Lower Upper

51 100

67 17.0 13.5 20.3



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.940 ppbv

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VL032311.D

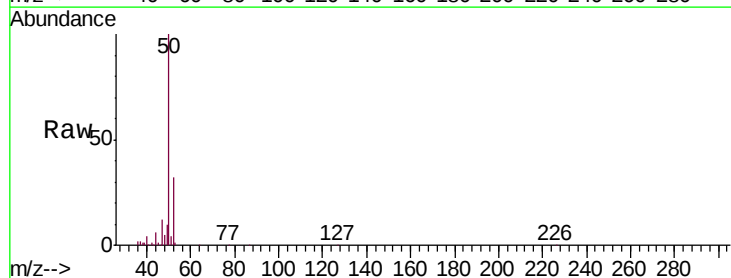
Acq: 27 Jul 2018 1:57

Tgt Ion: 50 Resp: 131733

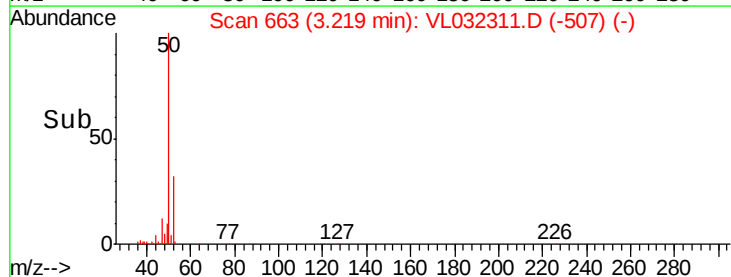
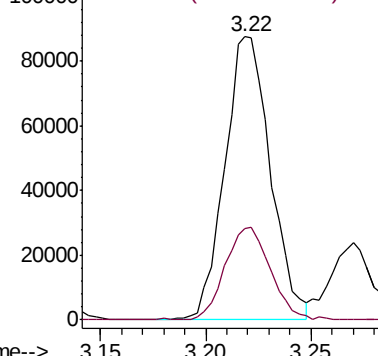
Ion Ratio Lower Upper

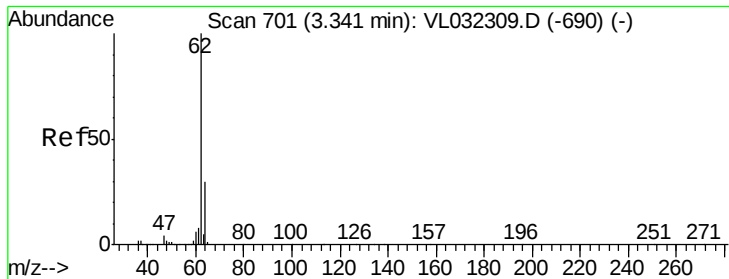
50 100

52 32.4 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.888 ppbv

RT: 3.34 min Scan# 701

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

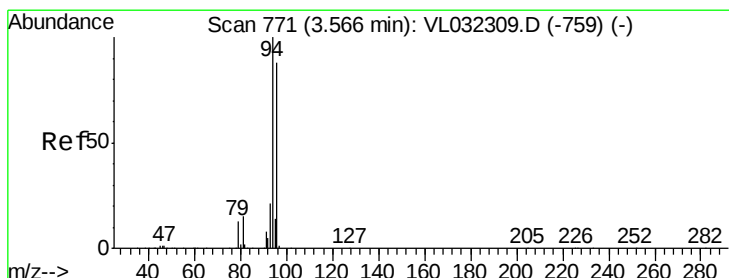
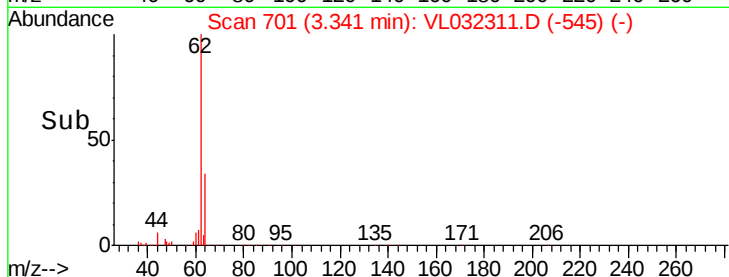
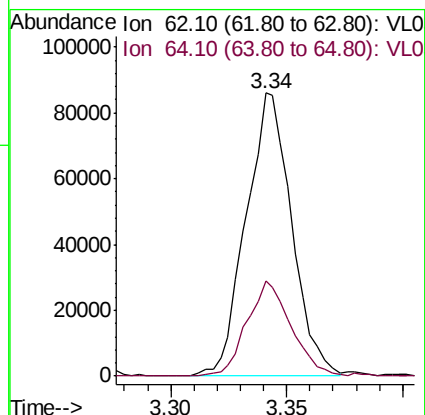
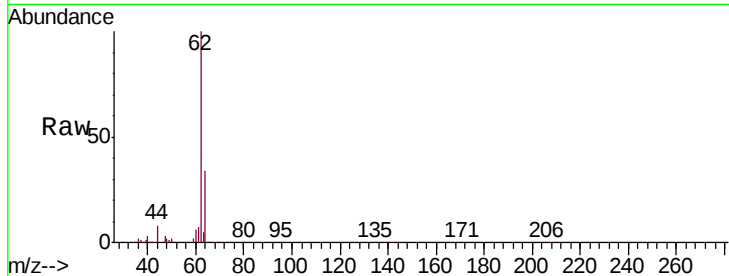
ClientSampleId :

Tot Ion: 62 Resp: 117833

Ion Ratio Lower Upper

62 100

64 33.8 24.1 36.1



#6

Bromomethane

Concen: 0.879 ppbv

RT: 3.57 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL032311.D

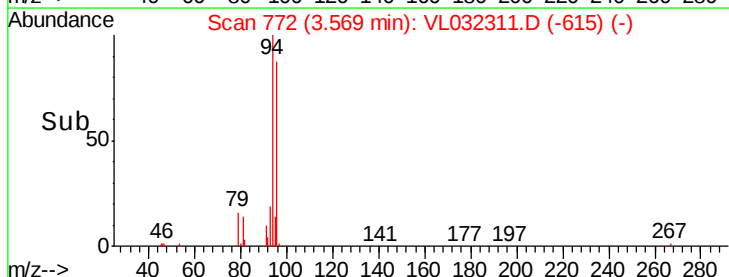
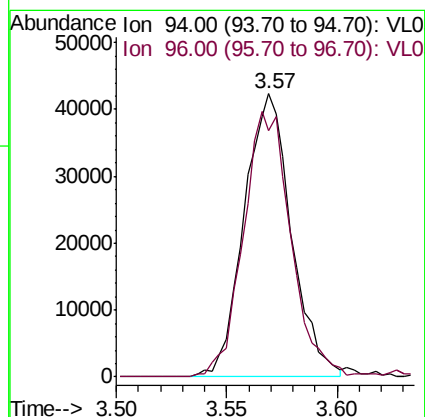
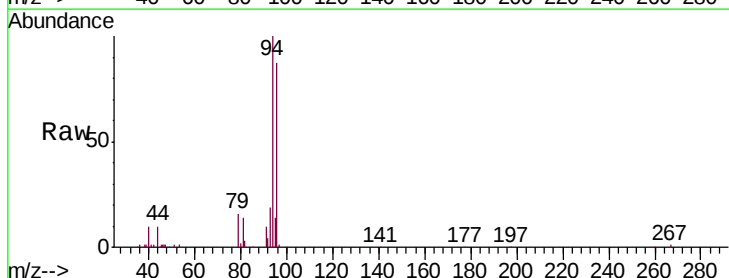
Acq: 27 Jul 2018 1:57

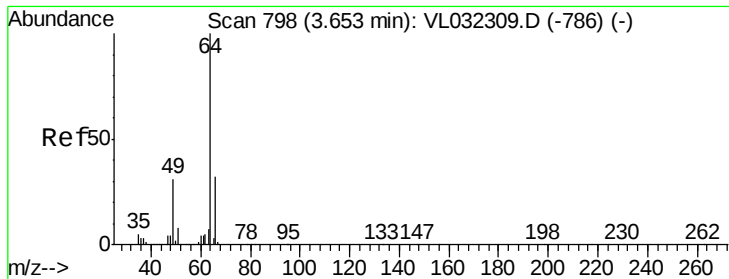
Tgt Ion: 94 Resp: 63111

Ion Ratio Lower Upper

94 100

96 87.2 70.2 105.4





#7

Chloroethane

Concen: 0.873 ppbv

RT: 3.65 min Scan# 798

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

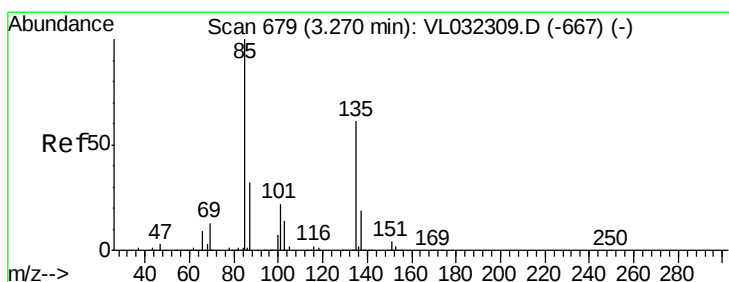
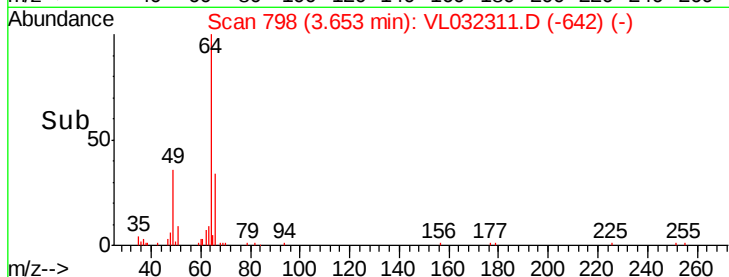
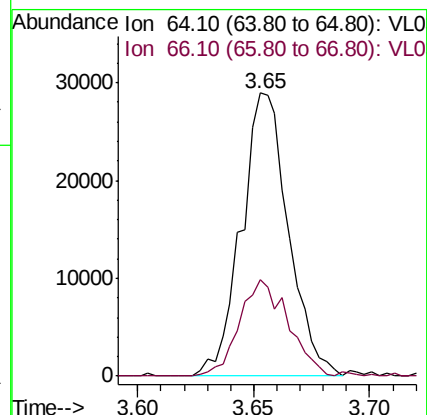
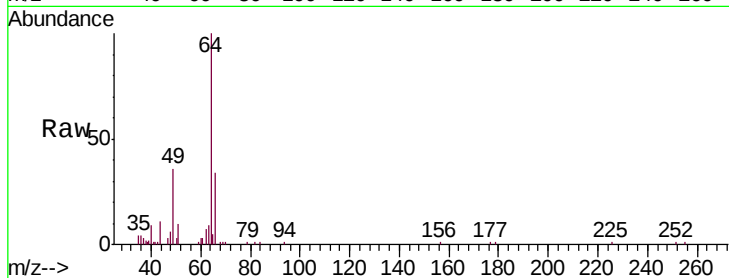
ClientSampleId :

Tot Ion: 64 Resp: 40875

Ion Ratio Lower Upper

64 100

66 34.1 25.7 38.5



#8

Dichlorotetrafluoroethane

Concen: 0.940 ppbv

RT: 3.27 min Scan# 679

Delta R.T. 0.00 min

Lab File: VL032311.D

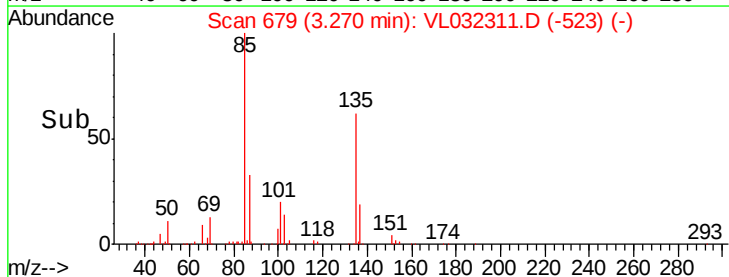
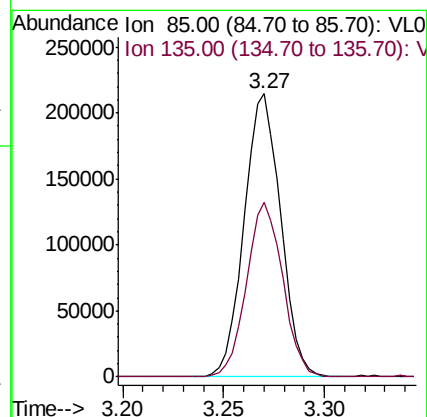
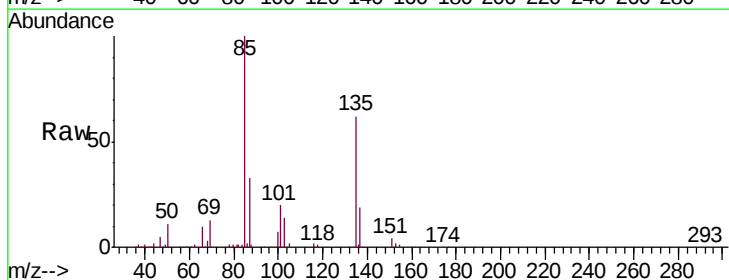
Acq: 27 Jul 2018 1:57

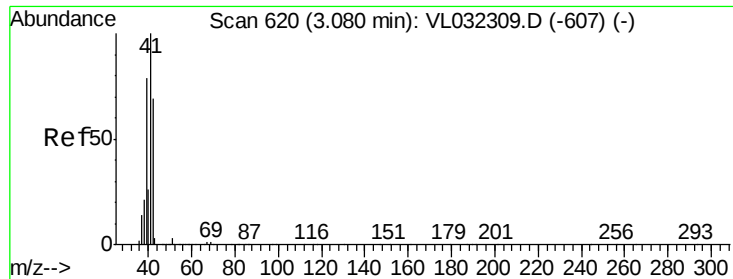
Tgt Ion: 85 Resp: 273585

Ion Ratio Lower Upper

85 100

135 61.0 48.7 73.1





#9

Propene

Concen: 0.900 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

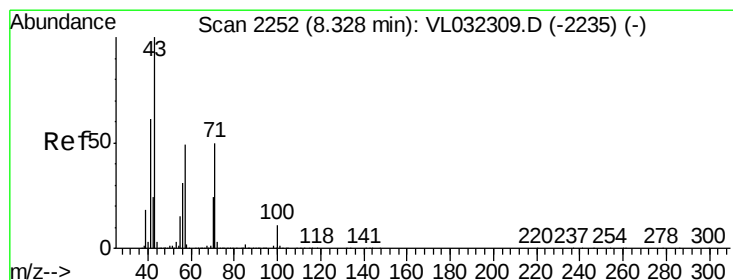
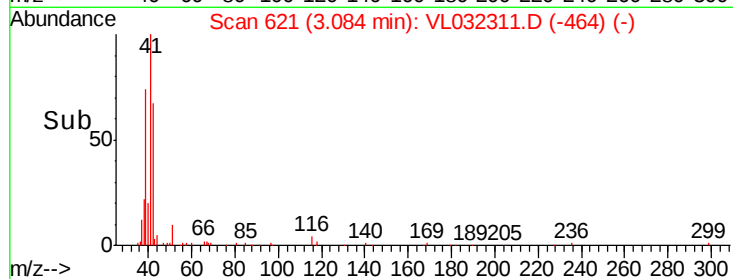
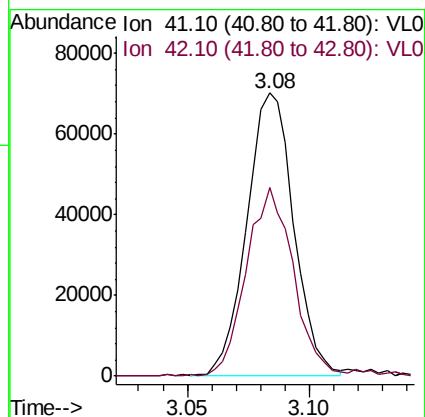
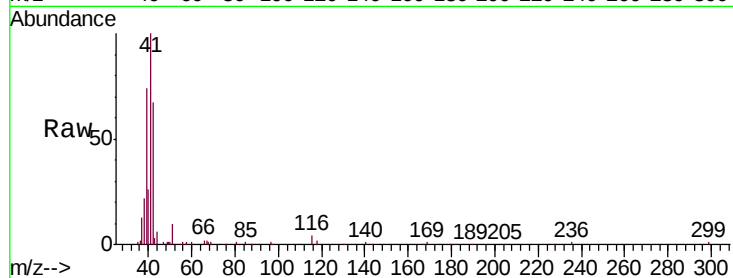
ClientSampleId :

Tot Ion: 41 Resp: 93502

Ion Ratio Lower Upper

41 100

42 68.6 56.8 85.2



#10

Heptane

Concen: 1.004 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VL032311.D

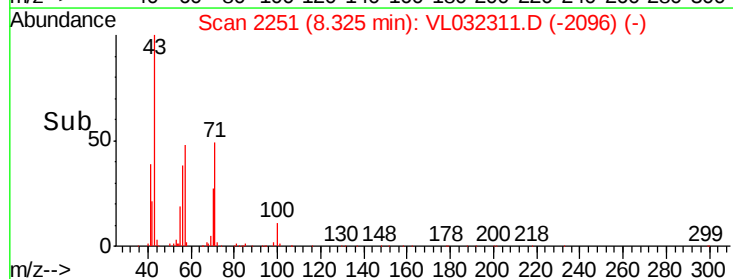
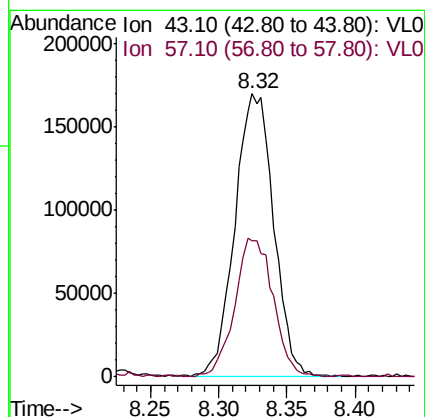
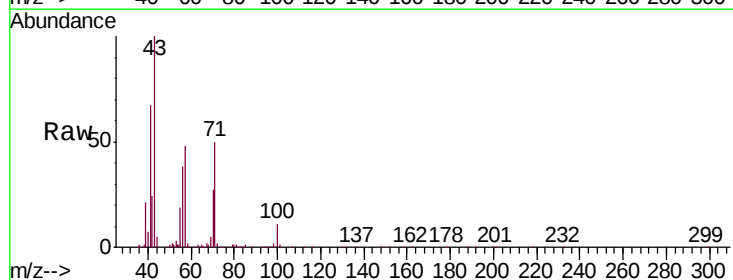
Acq: 27 Jul 2018 1:57

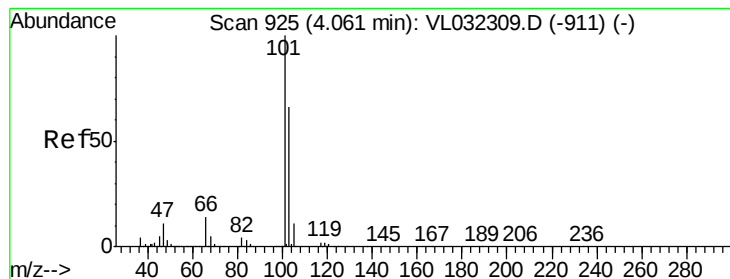
Tgt Ion: 43 Resp: 333954

Ion Ratio Lower Upper

43 100

57 49.4 39.0 58.4





#11

Trichlorofluoromethane

Concen: 0.922 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

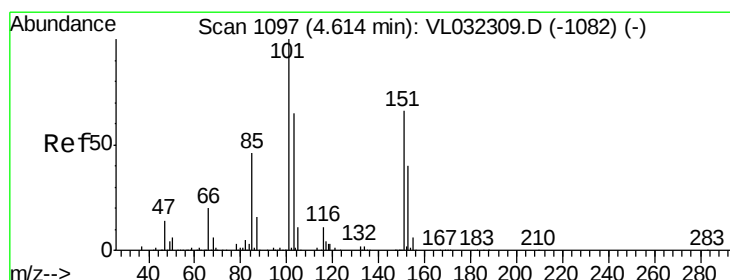
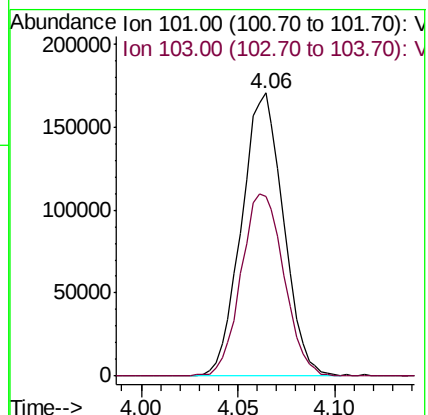
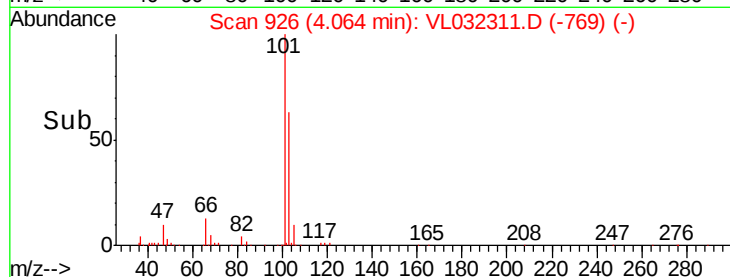
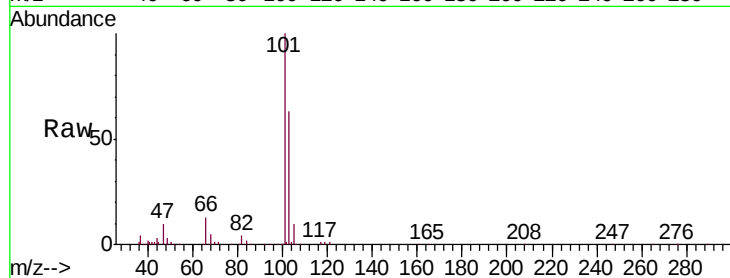
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:101 Resp: 256484

Ion Ratio Lower Upper

101 100

103 63.3 52.6 78.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.988 ppbv

RT: 4.62 min Scan# 1098

Delta R.T. 0.00 min

Lab File: VL032311.D

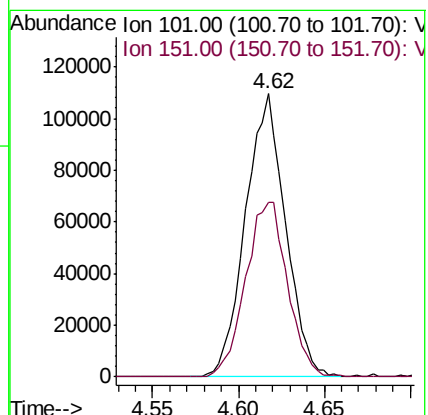
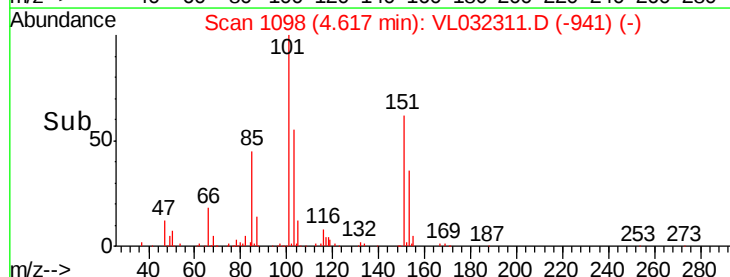
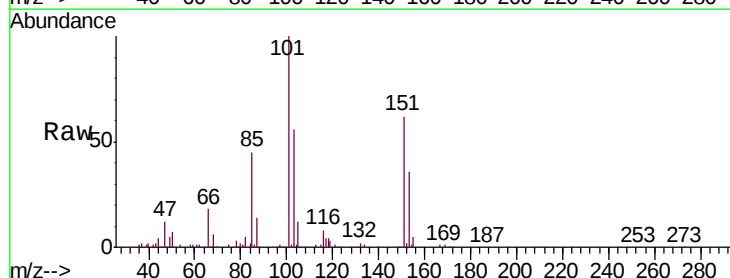
Acq: 27 Jul 2018 1:57

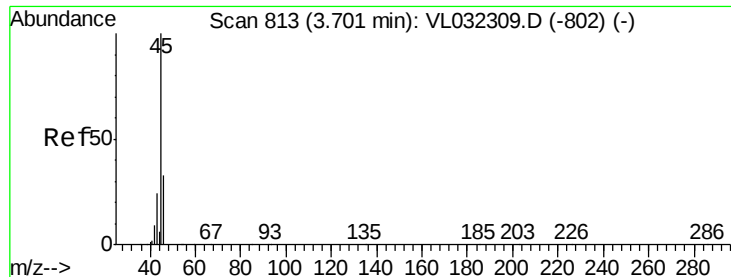
Tgt Ion:101 Resp: 177437

Ion Ratio Lower Upper

101 100

151 64.6 52.4 78.6





#13

Ethanol

Concen: 0.205 ppbv

RT: 3.72 min Scan# 820

Delta R.T. 0.02 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

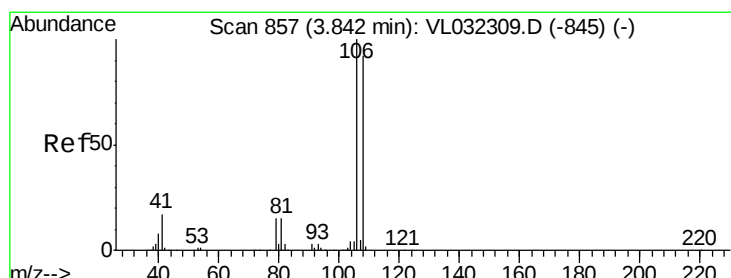
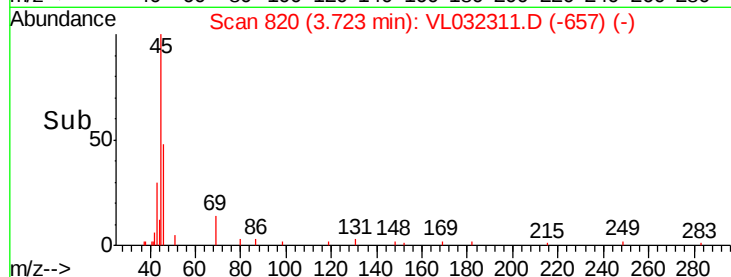
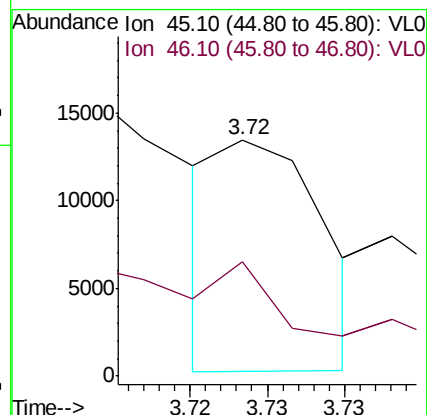
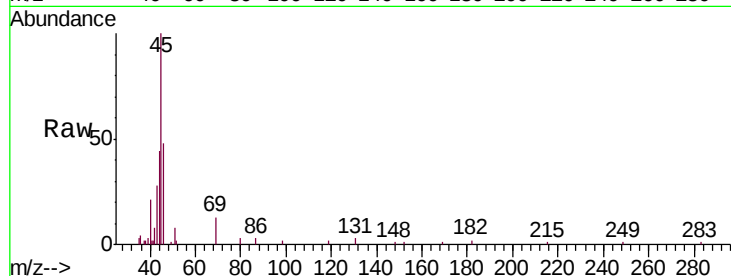
ClientSampleId :

Tot Ion: 45 Resp: 6114

Ion Ratio Lower Upper

45 100

46 215.0 15.2 60.6#



#14

Bromoethene

Concen: 0.888 ppbv

RT: 3.85 min Scan# 858

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

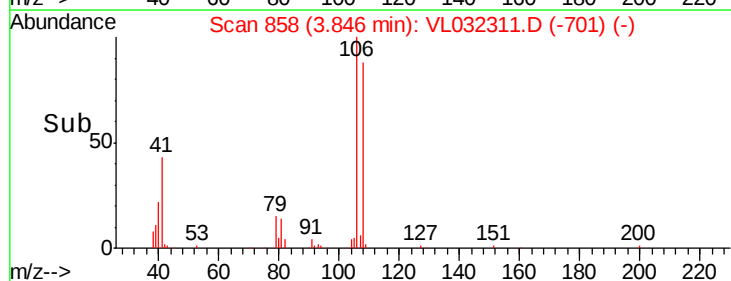
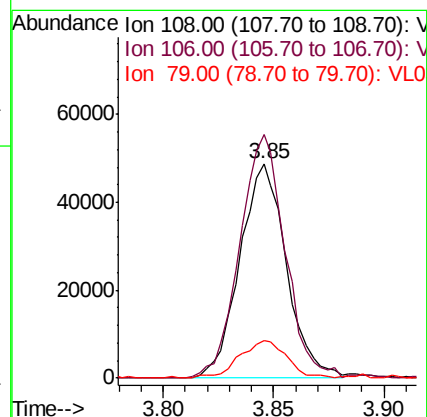
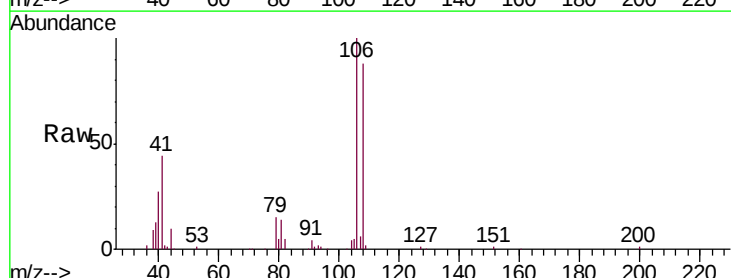
Tgt Ion: 108 Resp: 71775

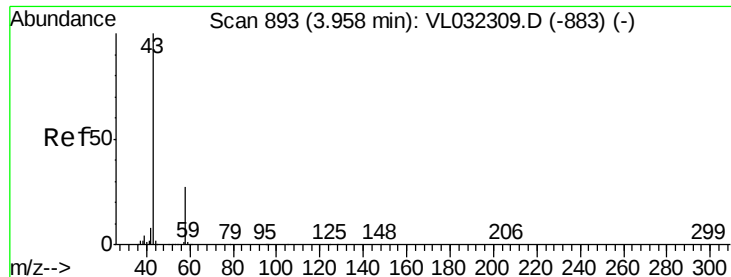
Ion Ratio Lower Upper

108 100

106 111.1 86.0 129.0

79 19.3 12.8 19.2#





#15

Acetone

Concen: 0.977 ppbv

RT: 3.97 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

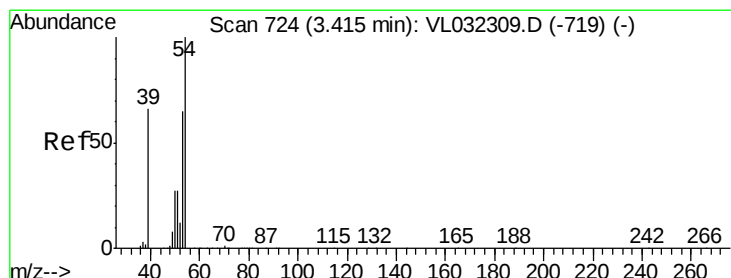
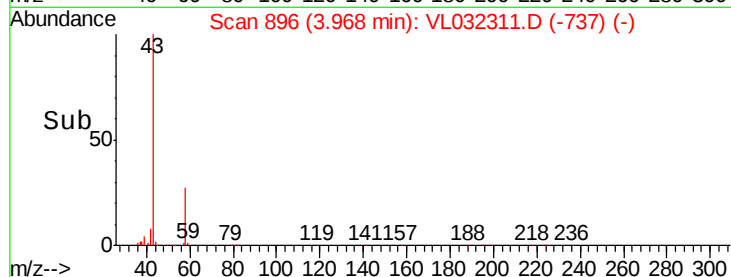
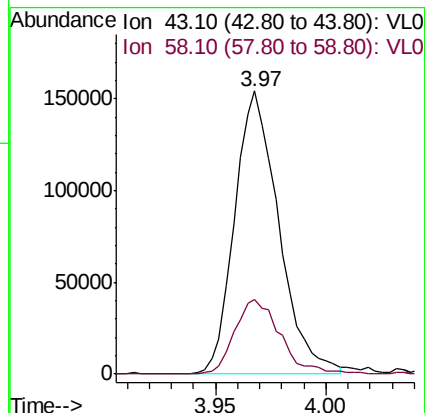
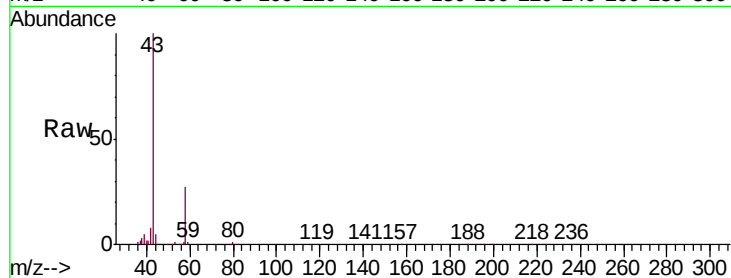
ClientSampleId :

Tot Ion: 43 Resp: 213903

Ion Ratio Lower Upper

43 100

58 28.0 22.5 33.7



#16

1,3-Butadiene

Concen: 0.896 ppbv

RT: 3.41 min Scan# 724

Delta R.T. 0.00 min

Lab File: VL032311.D

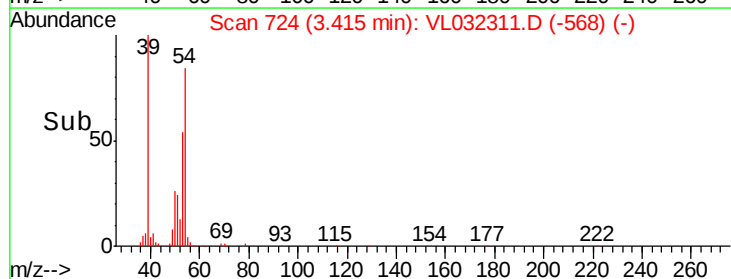
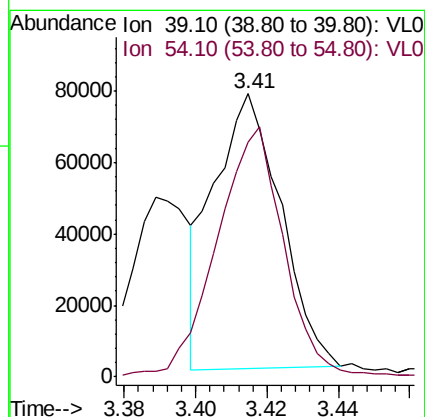
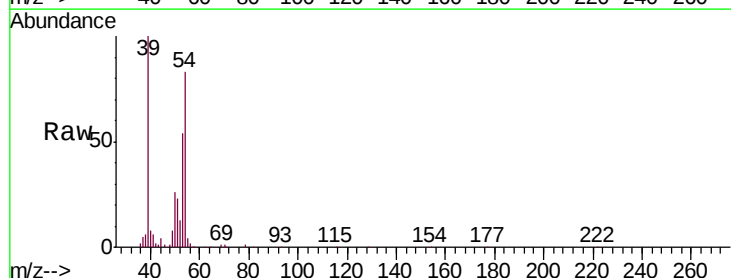
Acq: 27 Jul 2018 1:57

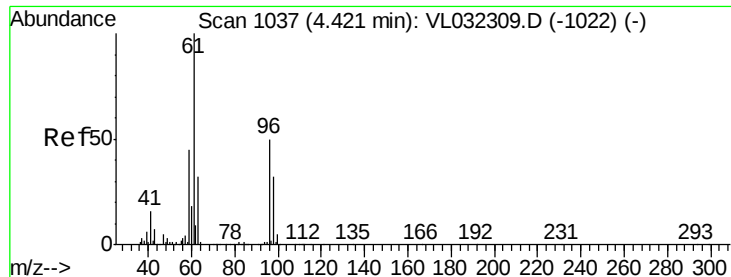
Tgt Ion: 39 Resp: 100365

Ion Ratio Lower Upper

39 100

54 90.9 74.3 111.5





#17

tert-Butyl alcohol

Concen: 0.939 ppbv

RT: 4.43 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

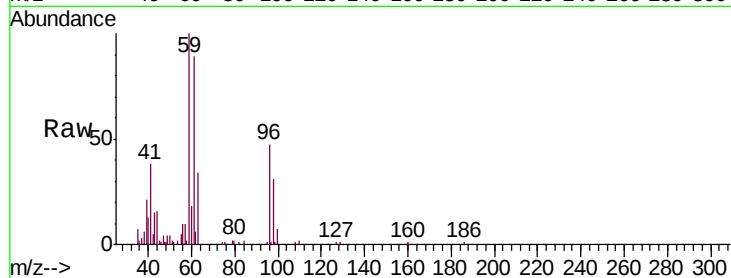
ClientSampleId :

Tot Ion: 59 Resp: 66227

Ion Ratio Lower Upper

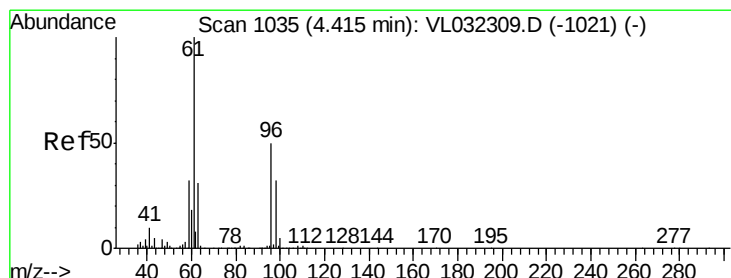
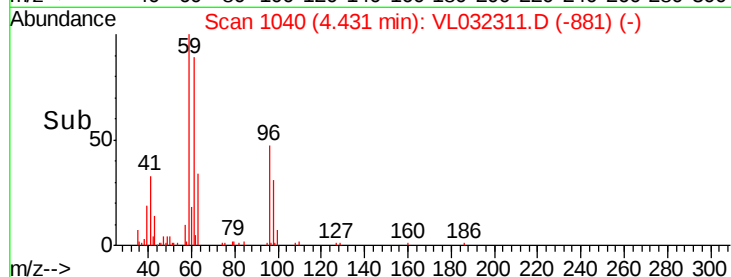
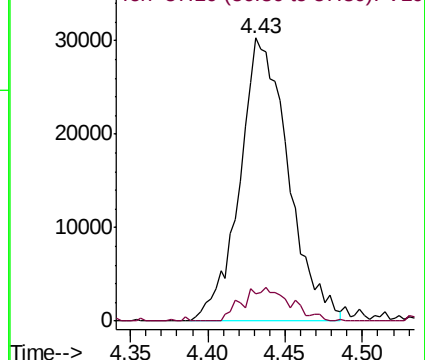
59 100

57 11.7 8.0 12.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.927 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

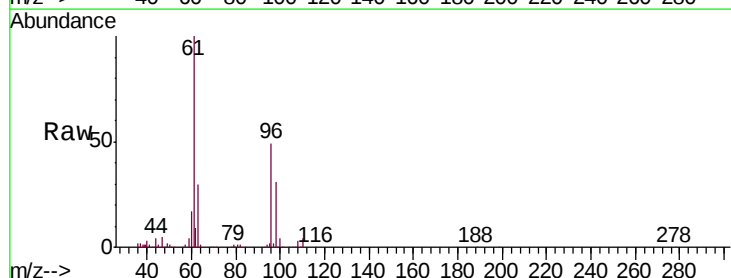
Tgt Ion: 96 Resp: 78027

Ion Ratio Lower Upper

96 100

61 204.1 159.0 238.4

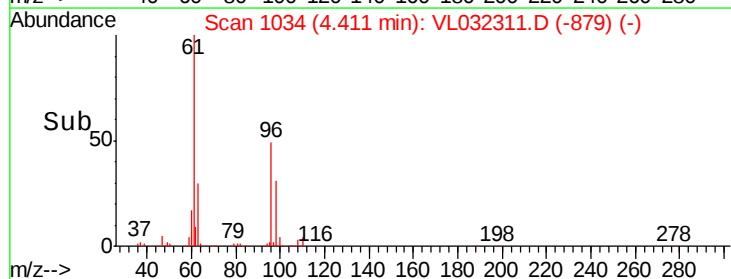
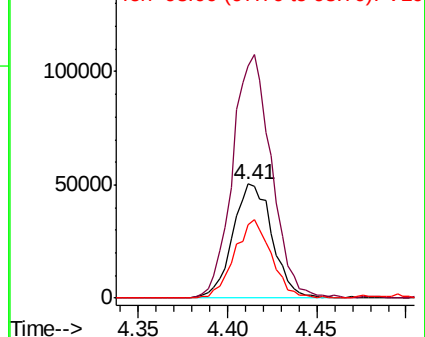
98 64.2 51.1 76.7

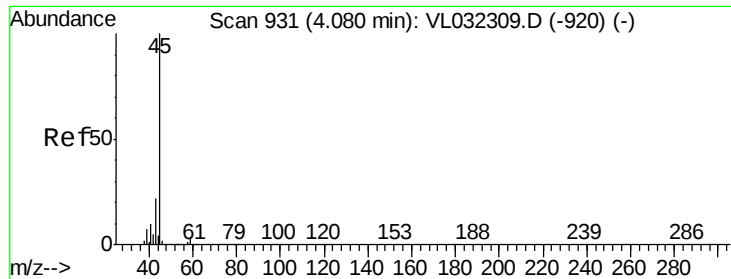


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.995 ppbv

RT: 4.09 min Scan# 934

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

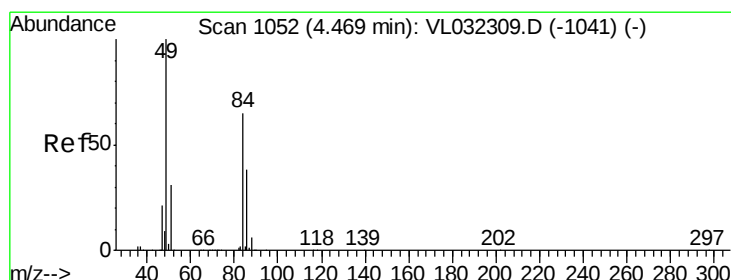
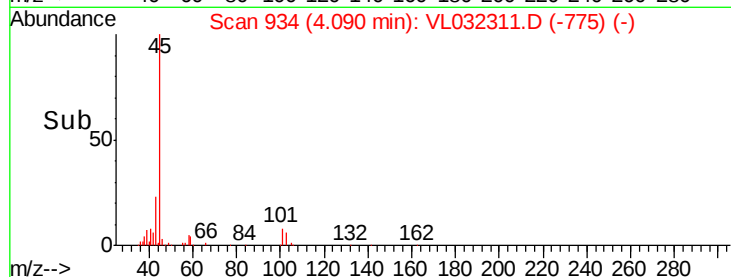
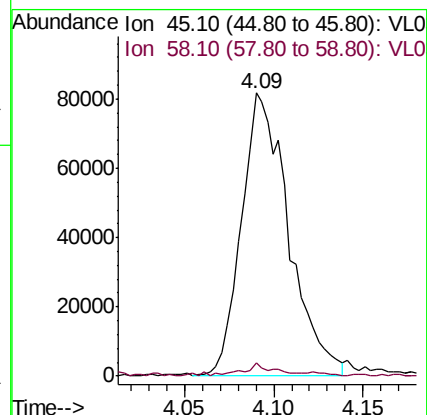
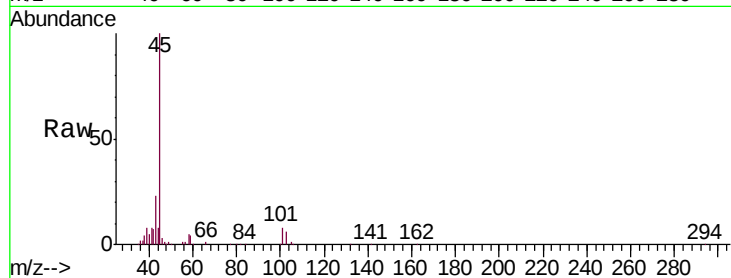
ClientSampleId :

Tot Ion: 45 Resp: 149622

Ion Ratio Lower Upper

45 100

58 4.7 1.5 2.3#



#20

Methylene Chloride

Concen: 0.975 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 84 Resp: 83863

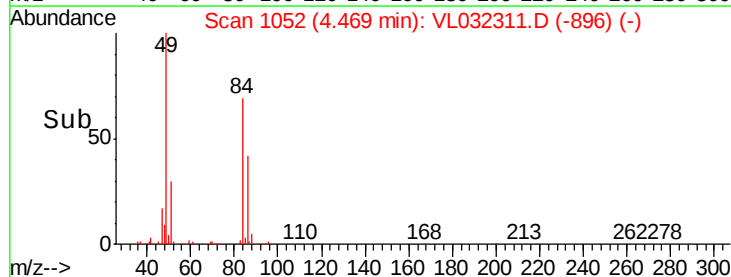
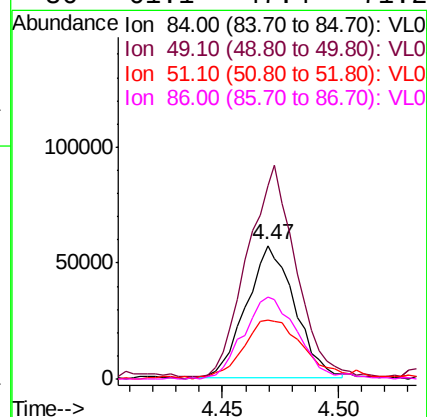
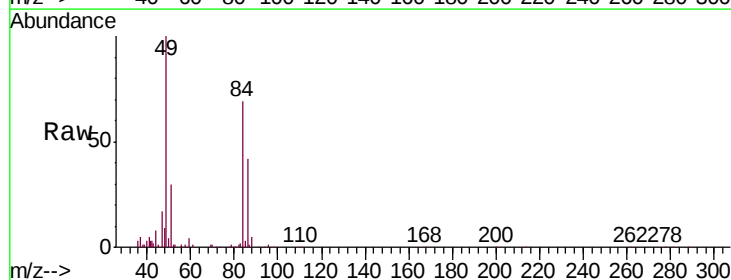
Ion Ratio Lower Upper

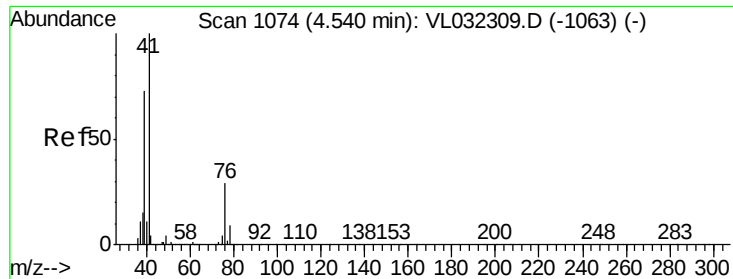
84 100

49 144.5 123.4 185.0

51 43.7 38.2 57.2

86 61.1 47.4 71.2

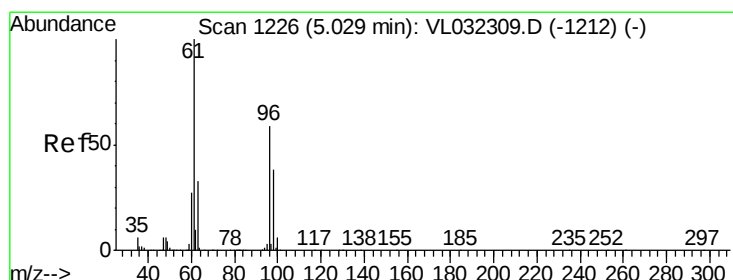
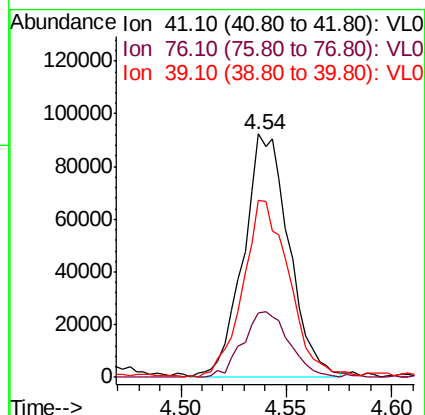
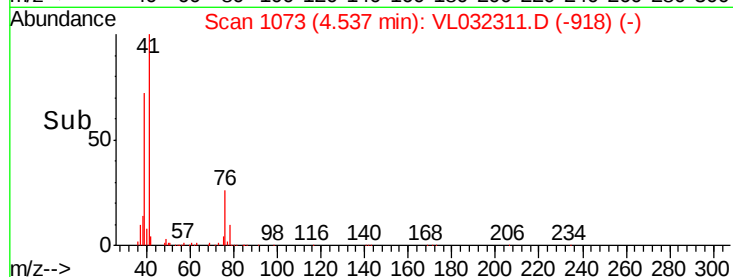
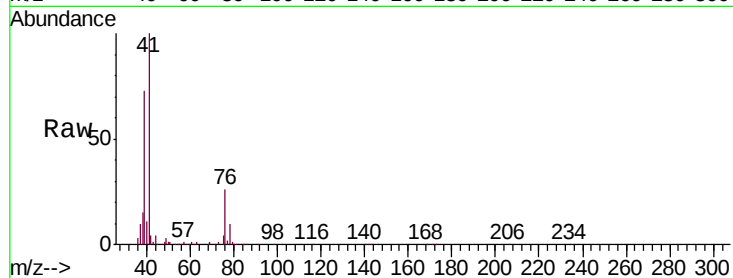




#21
 Allvl Chloride
 Concen: 0.937 ppbv
 RT: 4.54 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

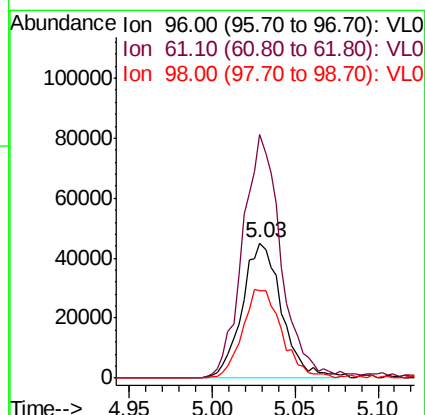
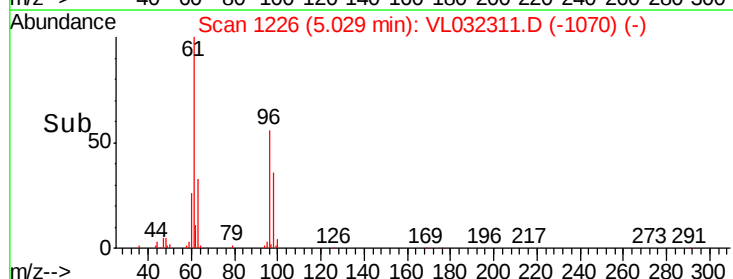
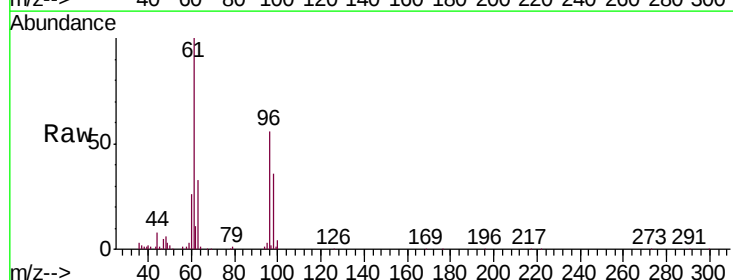
Instrument :
 MSVOA_L
 ClientSampleId :

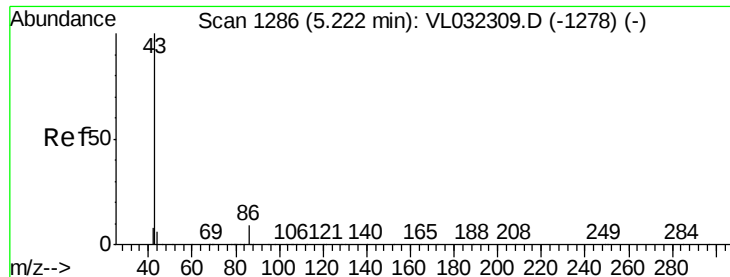
Tot Ion: 41 Resp: 137605
 Ion Ratio Lower Upper
 41 100
 76 28.1 23.1 34.7
 39 77.1 58.2 87.2



#22
 trans-1,2-Dichloroethene
 Concen: 0.860 ppbv
 RT: 5.03 min Scan# 1226
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion: 96 Resp: 74496
 Ion Ratio Lower Upper
 96 100
 61 180.1 136.5 204.7
 98 64.3 51.3 76.9





#23

Vinyl Acetate

Concen: 0.851 ppbv

RT: 5.22 min Scan# 1286

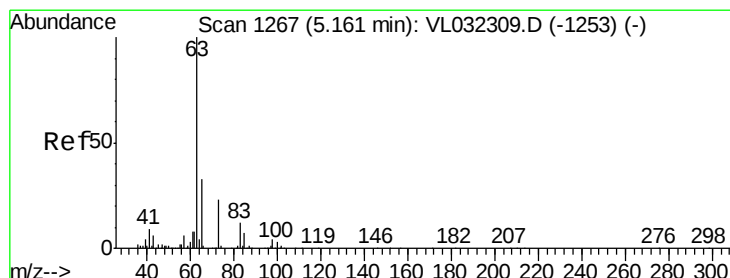
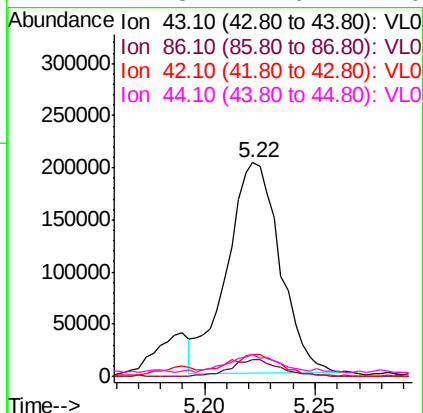
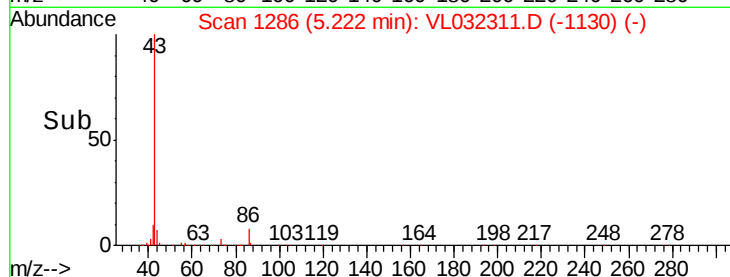
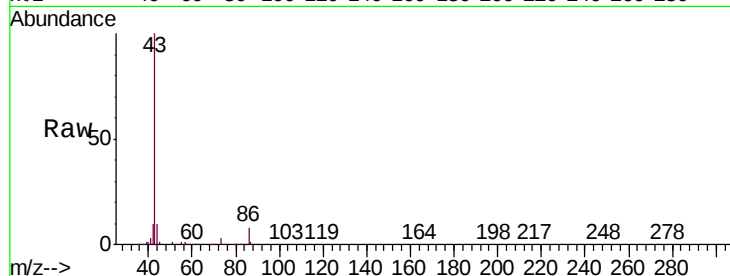
Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	336558
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.3	9.5
42	10.1	7.0	10.4
44	7.8	4.6	7.0#



#24

1,1-Dichloroethane

Concen: 0.911 ppbv

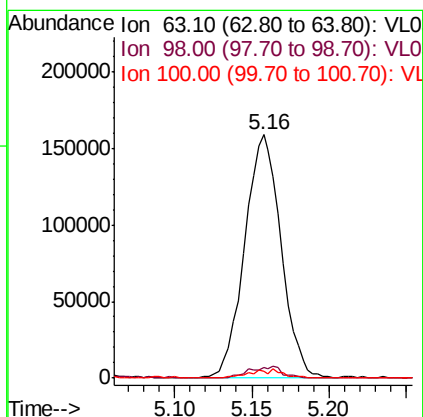
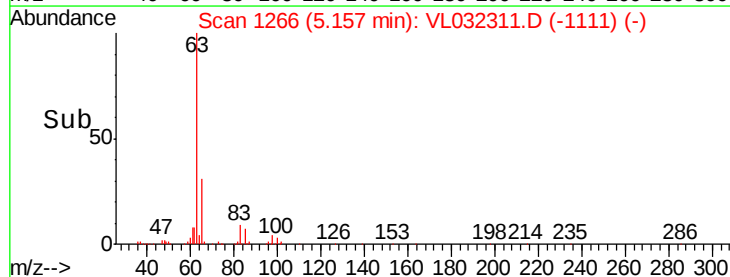
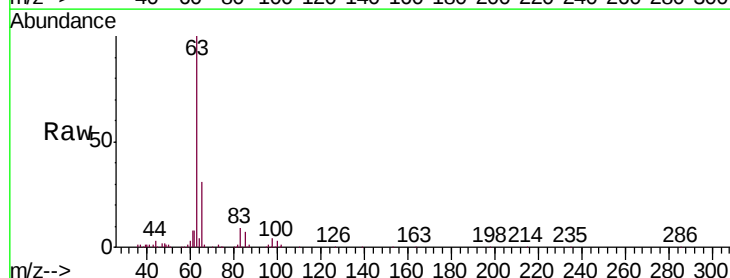
RT: 5.16 min Scan# 1266

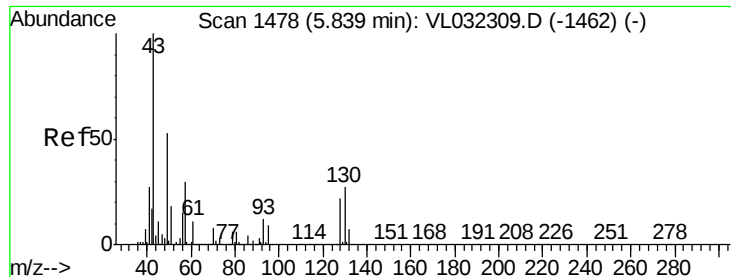
Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion:	63	Resp:	260963
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.1	6.5
100	2.9	1.3	3.8

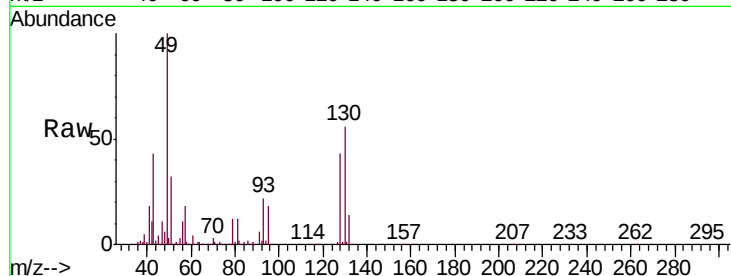




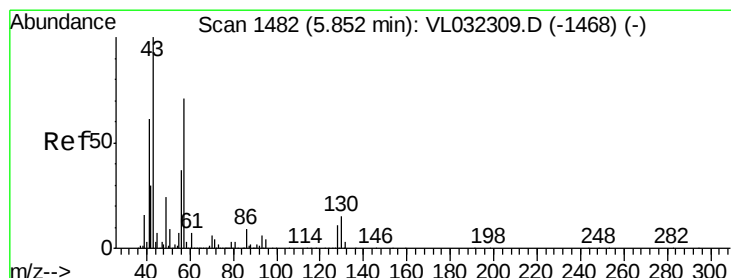
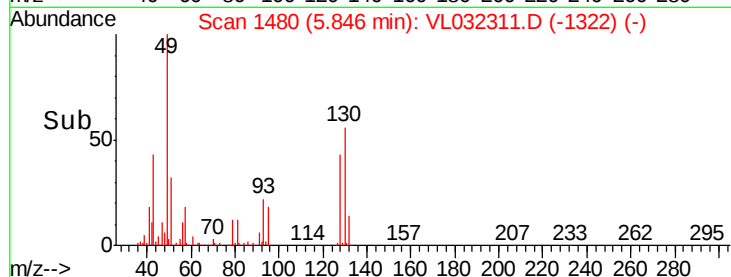
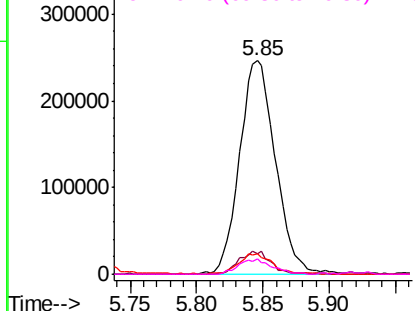
#25
Ethyl Acetate
Concen: 0.963 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. 0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	464116
Ion	Ratio	Lower	Upper
43	100		
45	9.6	8.1	12.1
61	9.5	7.4	11.0
70	6.7	5.6	8.4

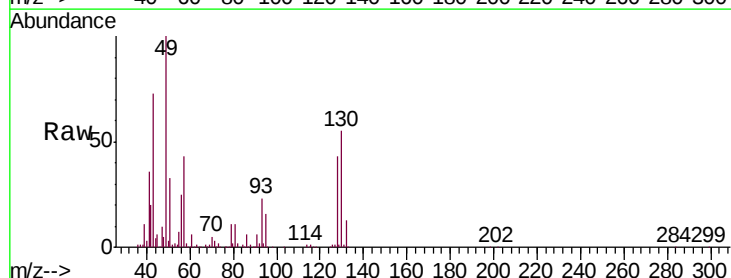


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

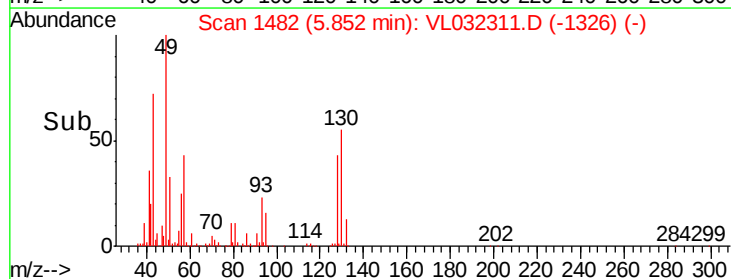
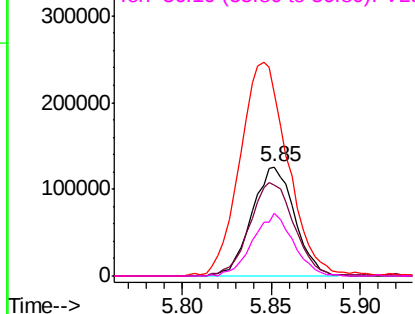


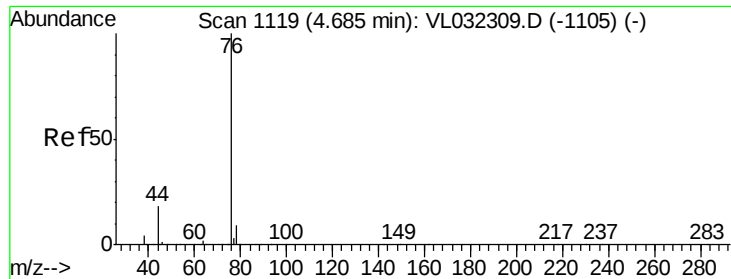
#26
Hexane
Concen: 0.957 ppbv
RT: 5.85 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion:	57	Resp:	211582
Ion	Ratio	Lower	Upper
57	100		
41	89.2	68.1	102.1
43	220.9	177.4	266.2
56	55.0	41.9	62.9



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: 0.890 ppbv

RT: 4.69 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampled :

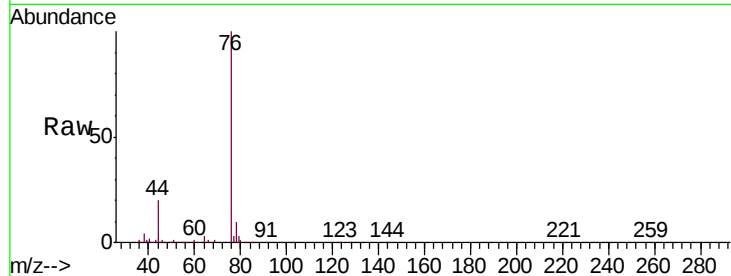
Tot Ion: 76 Resp: 174525

Ion Ratio Lower Upper

76 100

44 18.7 14.0 21.0

78 10.1 7.5 11.3



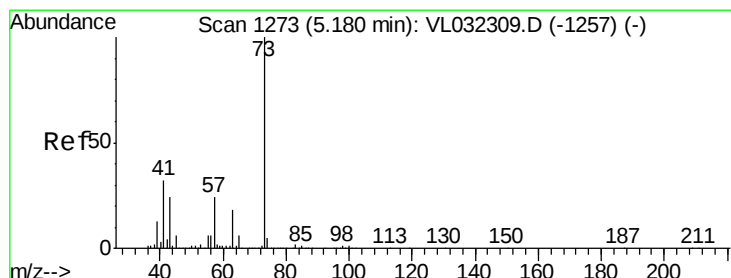
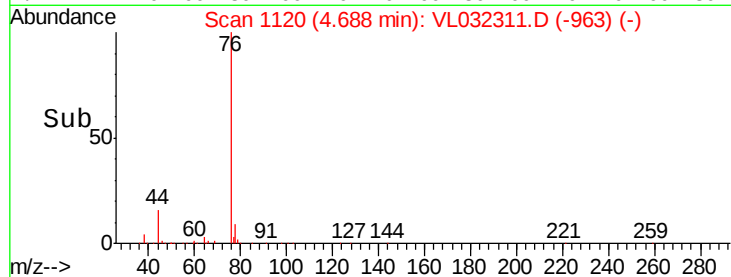
Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

4.69

100000

50000

Time--> 4.60 4.65 4.70 4.75



#28

Methyl tert-Butyl Ether

Concen: 0.829 ppbv

RT: 5.19 min Scan# 1276

Delta R.T. 0.01 min

Lab File: VL032311.D

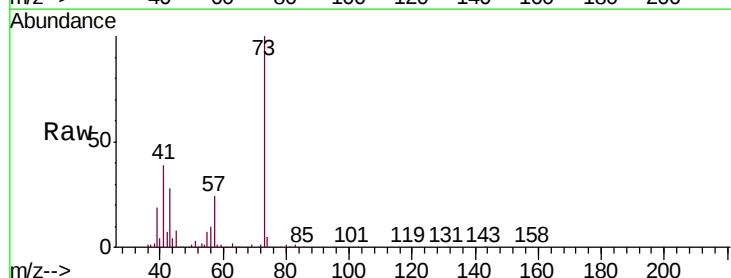
Acq: 27 Jul 2018 1:57

Tgt Ion: 73 Resp: 268085

Ion Ratio Lower Upper

73 100

57 24.6 19.4 29.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

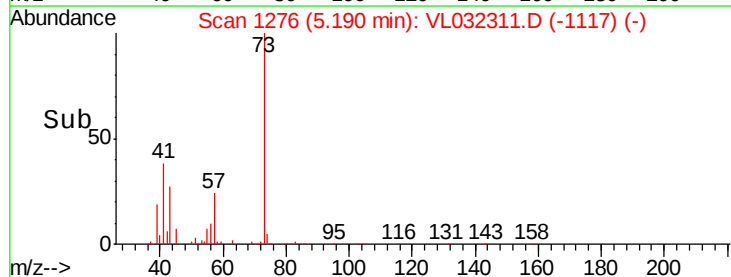
5.19

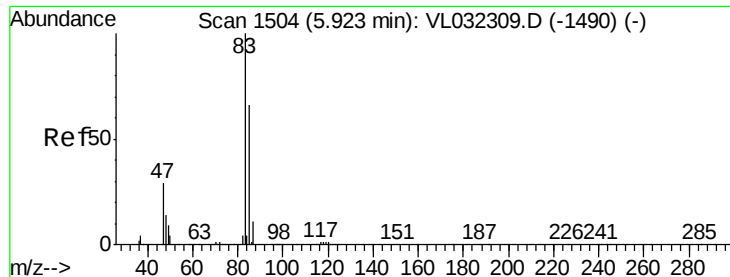
150000

100000

50000

Time--> 5.10 5.15 5.20 5.25

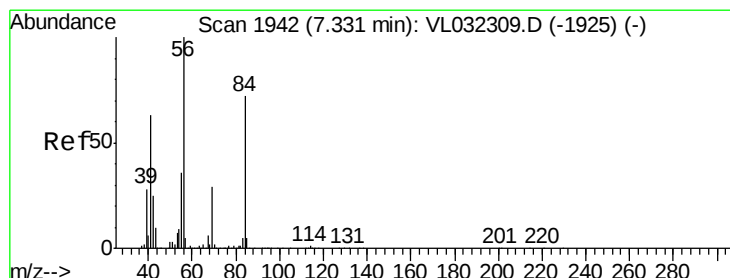
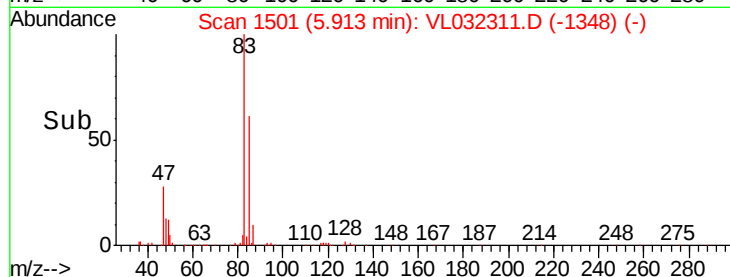
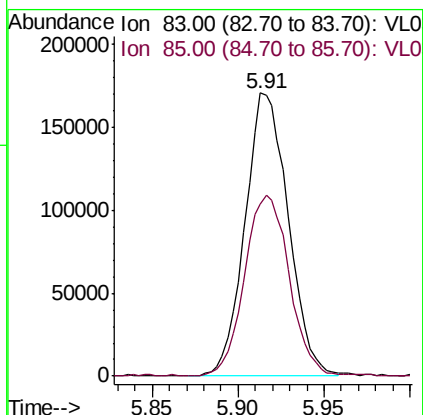
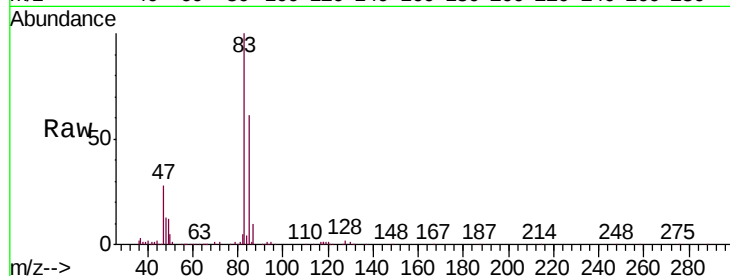




#29
Chloroform
Concen: 0.923 ppbv
RT: 5.91 min Scan# 1501
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

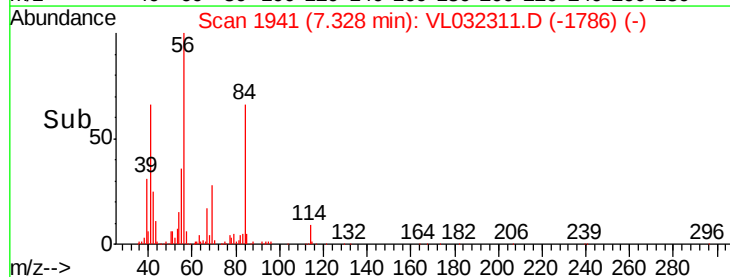
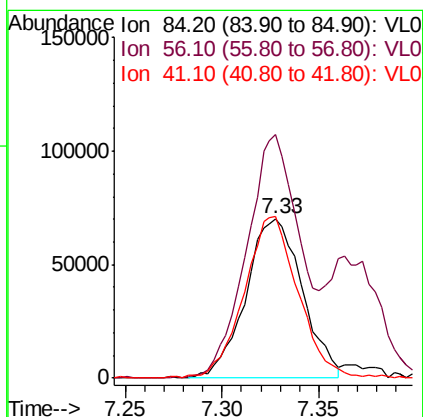
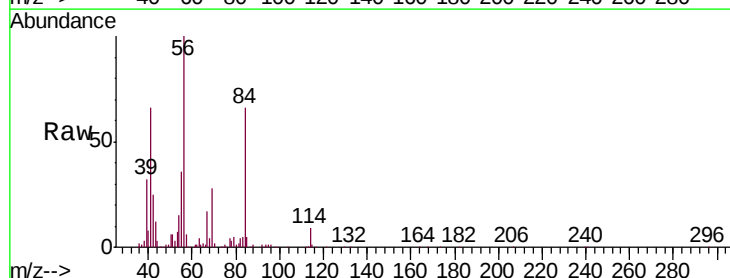
Instrument :
MSVOA_L
ClientSampleId :

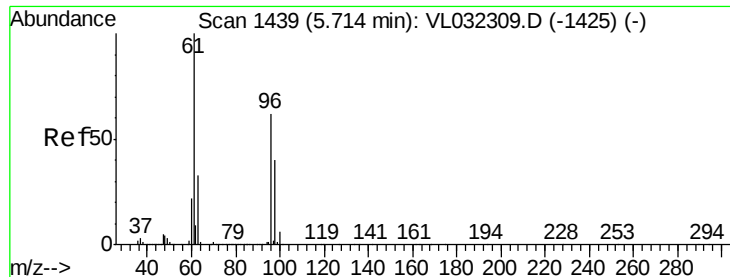
Tot Ion: 83 Resp: 298575
Ion Ratio Lower Upper
83 100
85 60.6 52.9 79.3



#30
Cyclohexane
Concen: 0.768 ppbv
RT: 7.33 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 84 Resp: 141365
Ion Ratio Lower Upper
84 100
56 216.3 116.8 175.2#
41 98.6 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 0.842 ppbv

RT: 5.71 min Scan# 1438

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

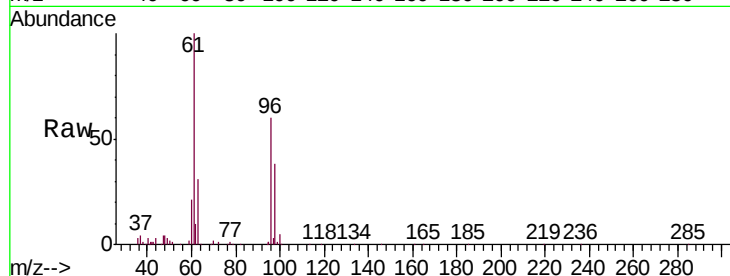
Tot Ion: 61 Resp: 179001

Ion Ratio Lower Upper

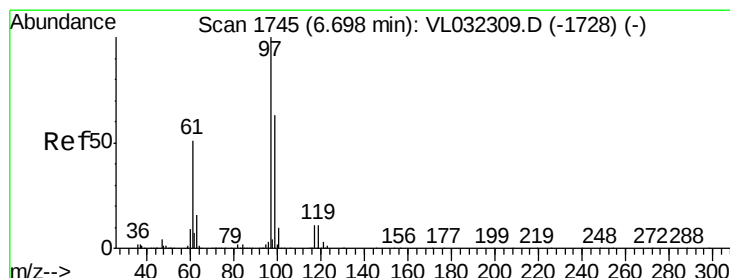
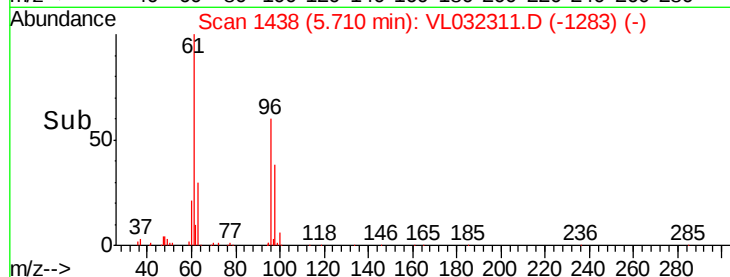
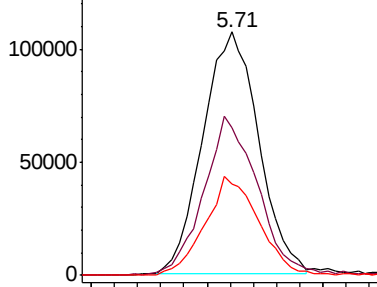
61 100

96 59.6 49.8 74.6

98 37.7 31.8 47.6



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.852 ppbv

RT: 6.69 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

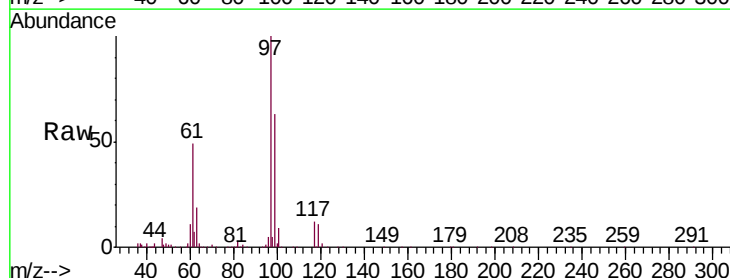
Tgt Ion: 97 Resp: 279156

Ion Ratio Lower Upper

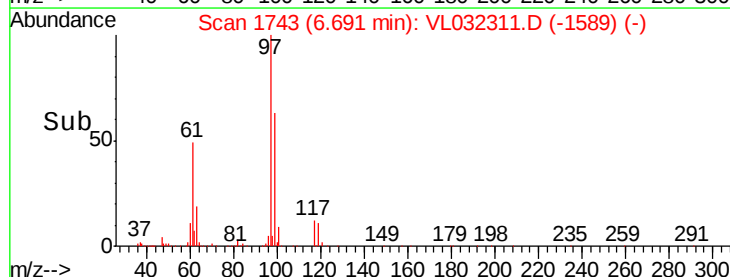
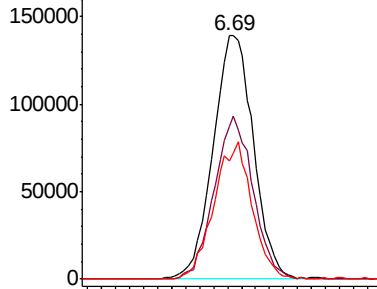
97 100

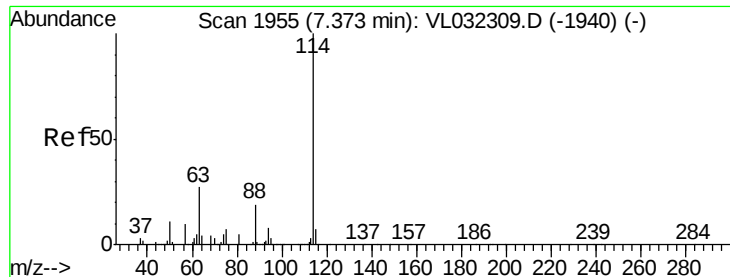
99 64.1 50.9 76.3

61 53.3 41.8 62.6



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

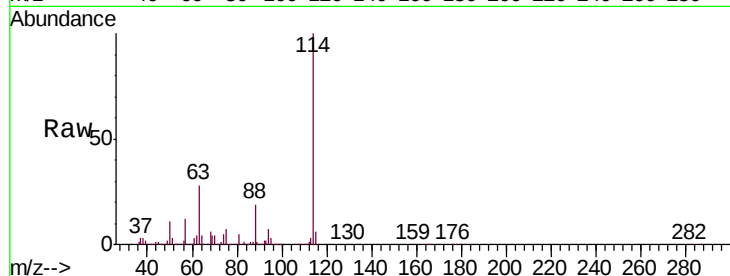




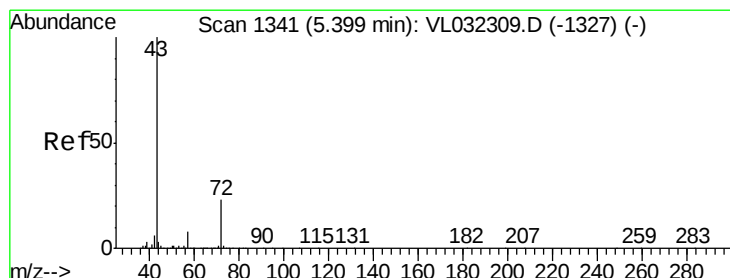
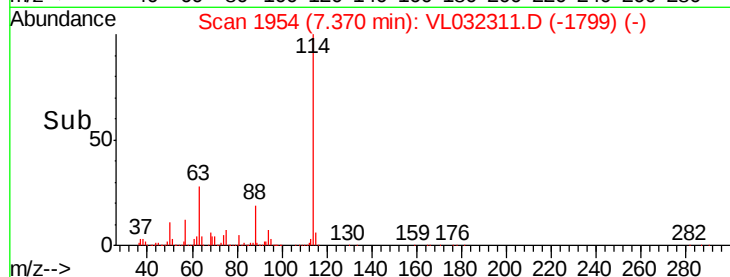
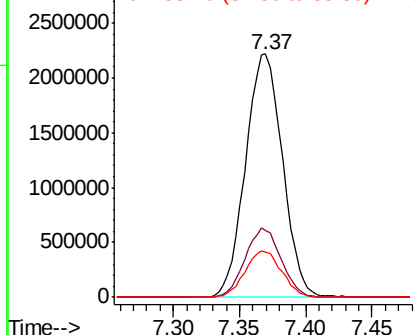
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.37 min Scan# 1954
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4307441
 Ion Ratio Lower Upper
 114 100
 63 28.0 22.4 33.6
 88 19.1 15.3 22.9

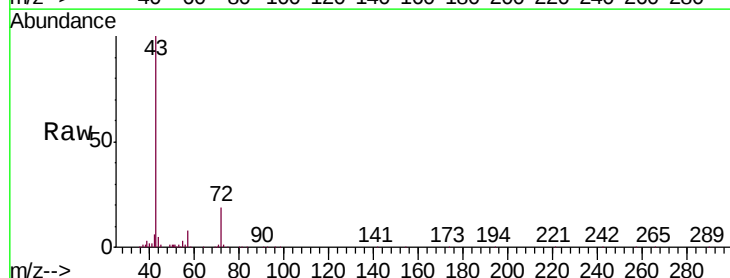


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

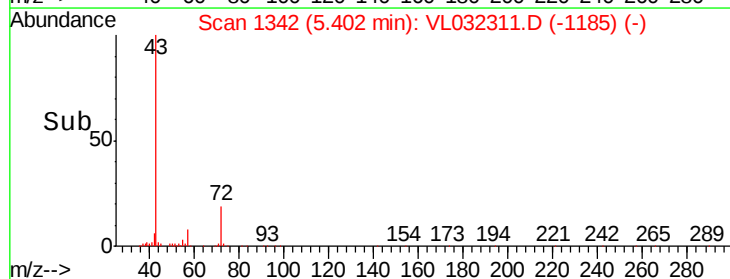
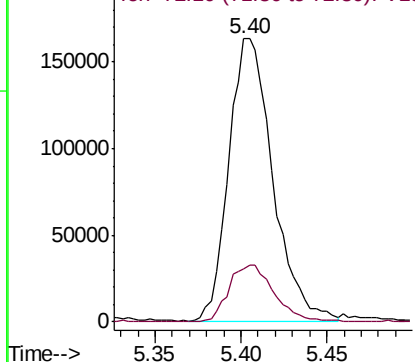


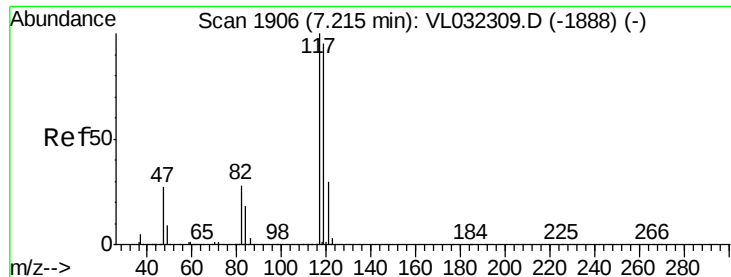
#34
 2-Butanone
 Concen: 0.971 ppbv
 RT: 5.40 min Scan# 1342
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion: 43 Resp: 289243
 Ion Ratio Lower Upper
 43 100
 72 21.1 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

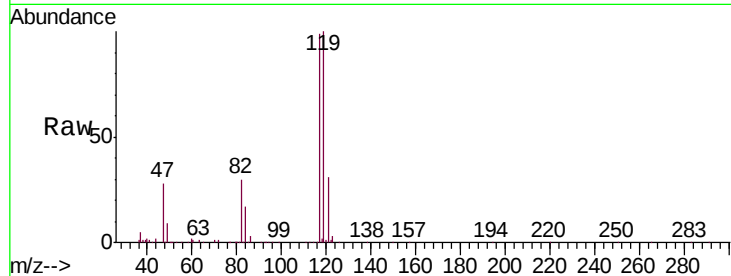




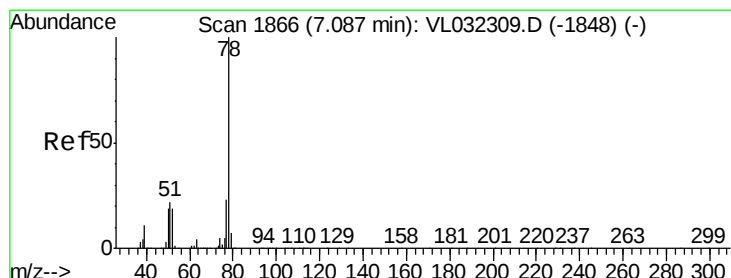
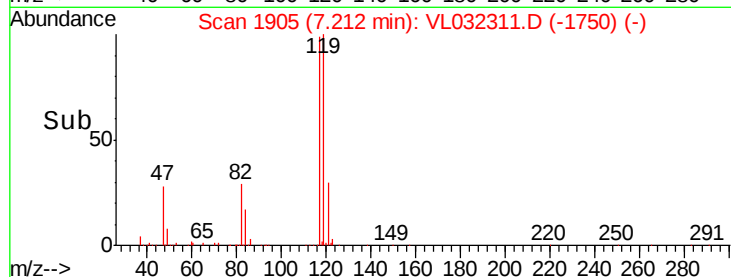
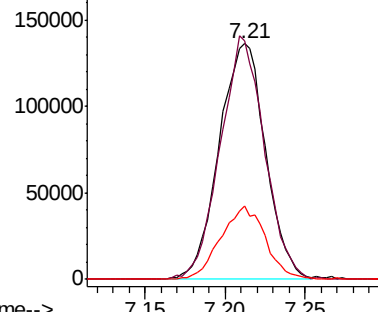
#35
Carbon Tetrachloride
Concen: 0.921 ppbv
RT: 7.21 min Scan# 1905
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 271463
Ion Ratio Lower Upper
117 100
119 100.9 76.1 114.1
121 30.9 24.4 36.6

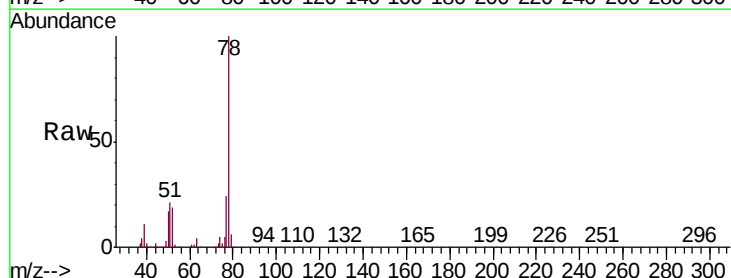


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

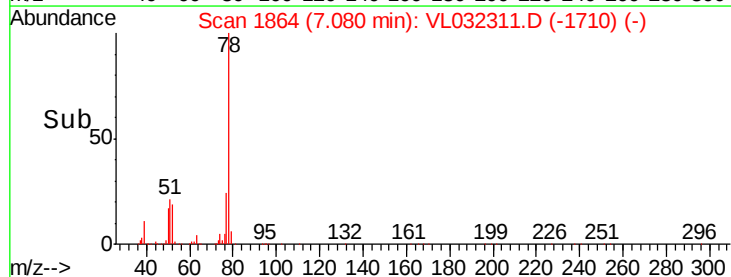
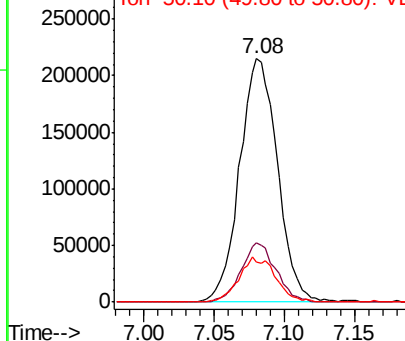


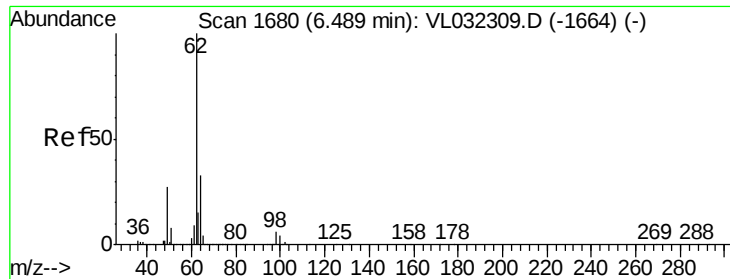
#36
Benzene
Concen: 0.949 ppbv
RT: 7.08 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 78 Resp: 403869
Ion Ratio Lower Upper
78 100
77 24.5 18.4 27.6
50 16.7 15.3 22.9



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: 0.939 ppbv

RT: 6.49 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

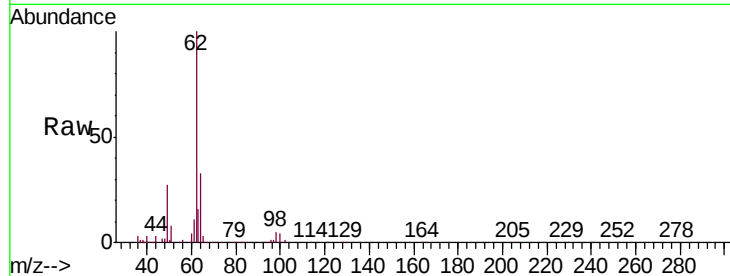
ClientSampled :

Tot Ion: 62 Resp: 233562

Ion Ratio Lower Upper

62 100

98 6.0 5.1 7.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

150000

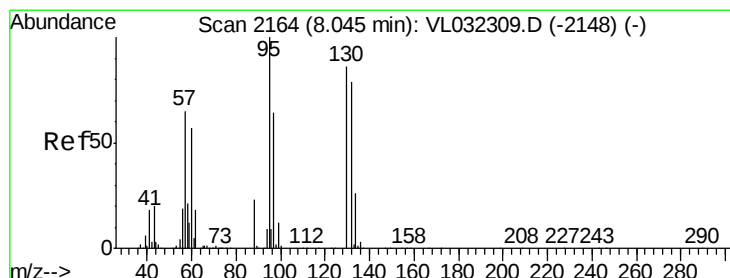
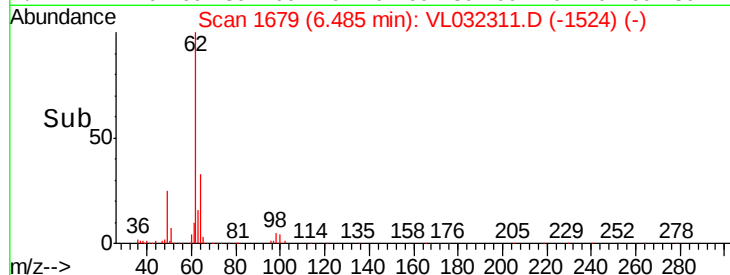
100000

50000

0

6.40 6.45 6.50 6.55

Time-->



#38

Trichloroethene

Concen: 1.129 ppbv

RT: 8.04 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 130 Resp: 162727

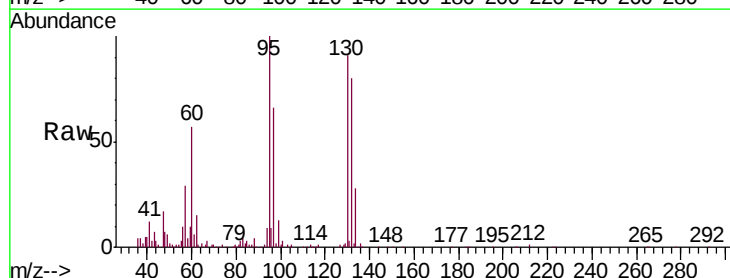
Ion Ratio Lower Upper

130 100

95 111.0 92.9 139.3

132 88.5 73.0 109.4

97 72.9 59.6 89.4



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

150000

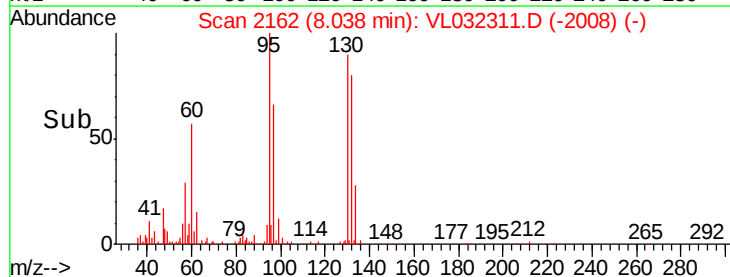
100000

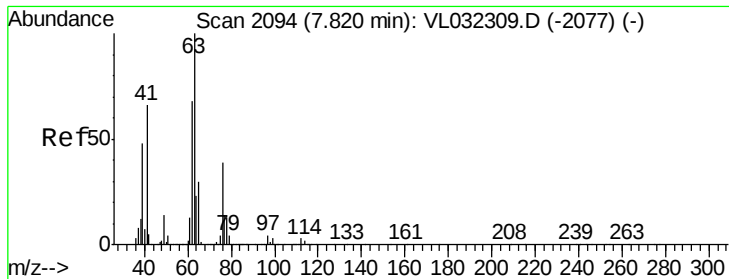
50000

0

7.95 8.00 8.05 8.10

Time-->





#39

1,2-Dichloropropane

Concen: 1.130 ppbv

RT: 7.82 min Scan# 2093

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

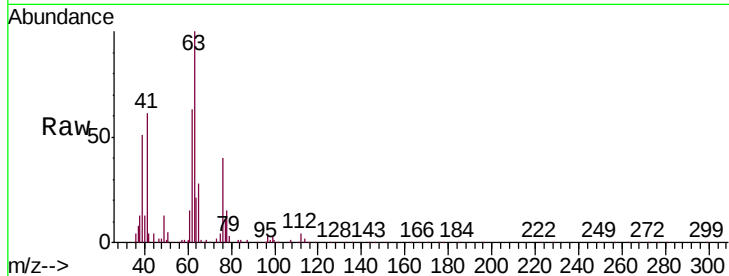
Tot Ion: 63 Resp: 198468

Ion Ratio Lower Upper

63 100

41 61.4 52.5 78.7

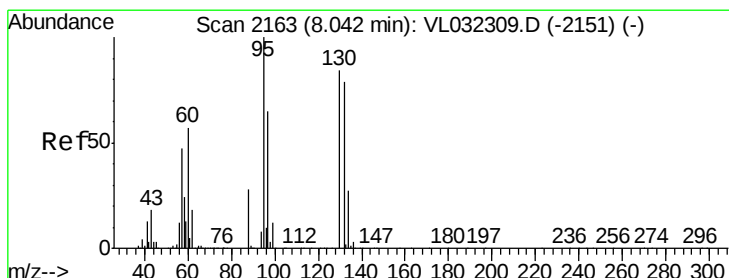
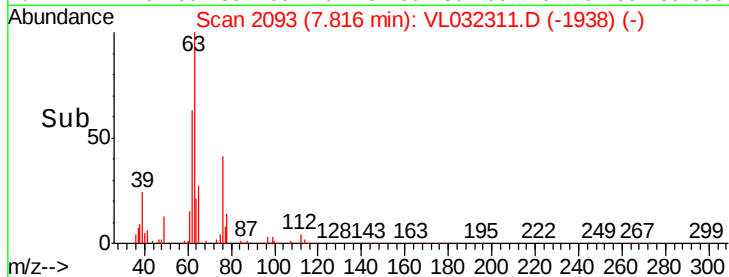
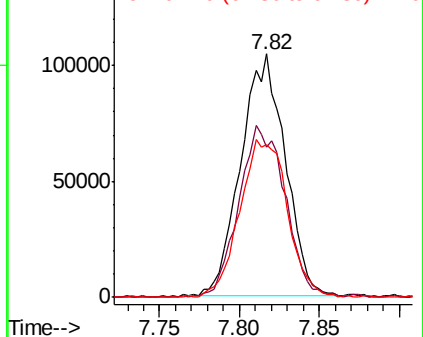
62 62.7 54.6 81.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.406 ppbv

RT: 8.06 min Scan# 2168

Delta R.T. 0.02 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 88 Resp: 20938

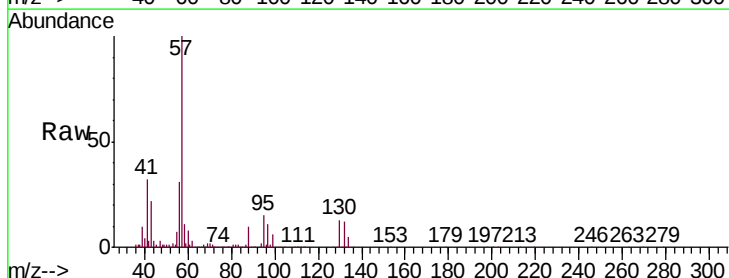
Ion Ratio Lower Upper

88 100

58 0.0 120.5 180.7#

43 0.0 246.2 369.2#

57 0.0 1097.4 1646.2#

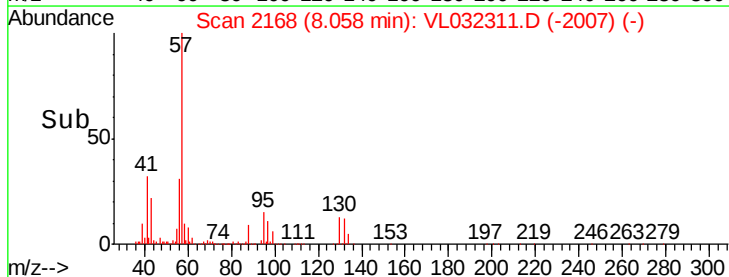
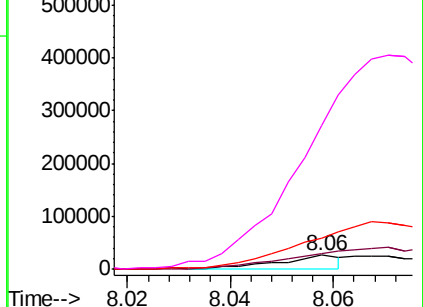


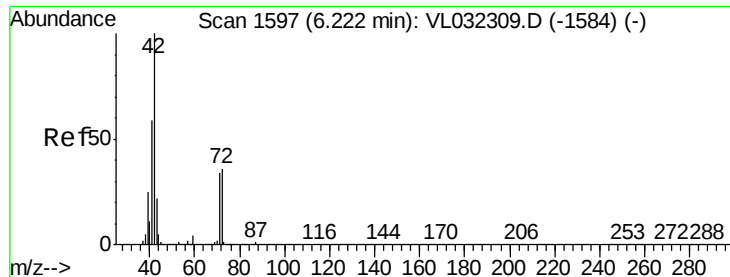
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

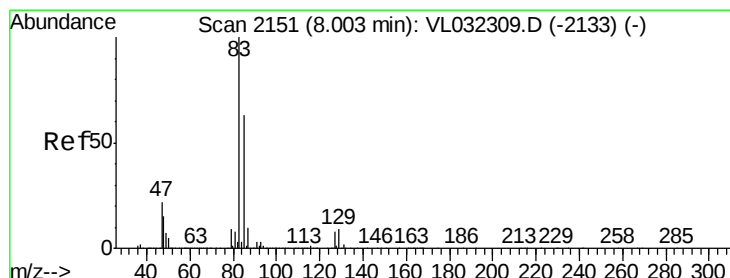
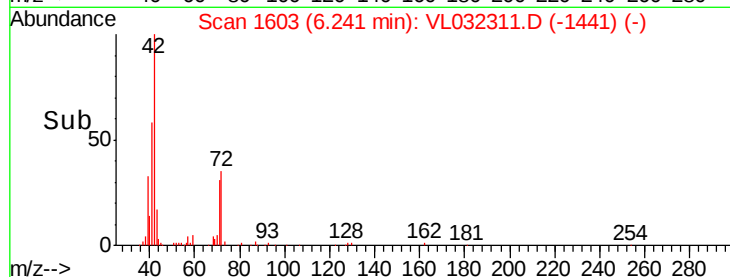
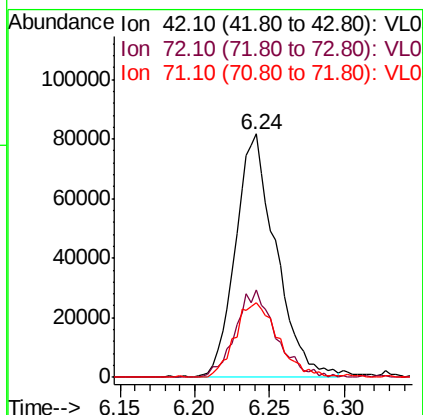
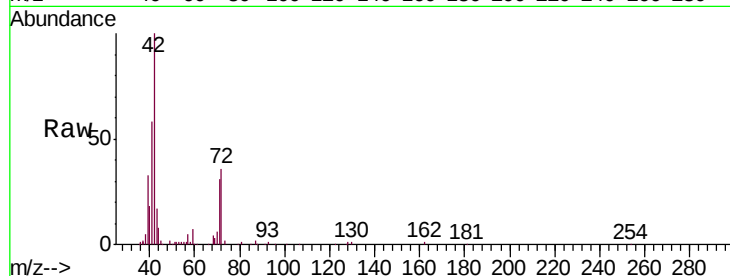




#41
Tetrahydrofuran
Concen: 0.887 ppbv
RT: 6.24 min Scan# 1603
Delta R.T. 0.02 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

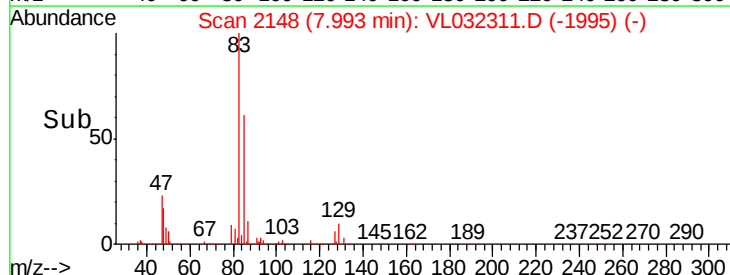
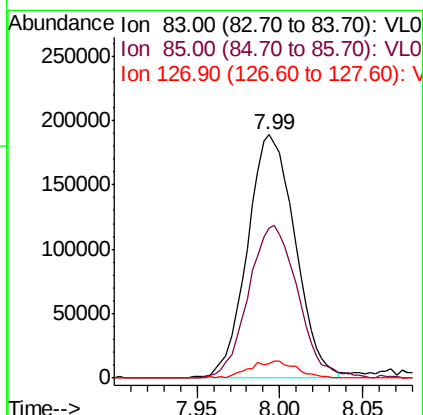
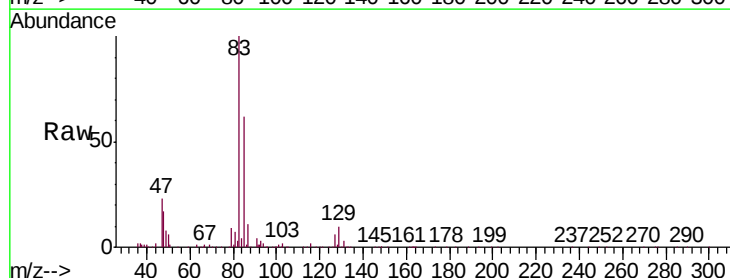
Instrument :
MSVOA_L
ClientSampleId :

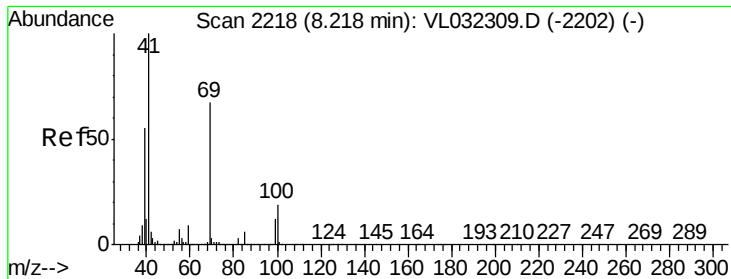
Tot Ion	Ratio	Lower	Upper
42	100		
72	36.8	28.6	42.8
71	34.2	27.8	41.6



#42
Bromodichloromethane
Concen: 1.142 ppbv
RT: 7.99 min Scan# 2148
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.7	76.1
127	5.8	6.0	9.0

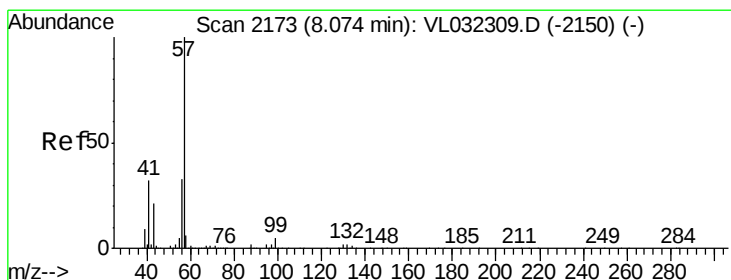
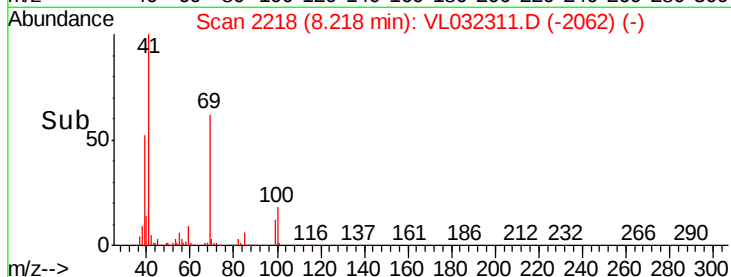
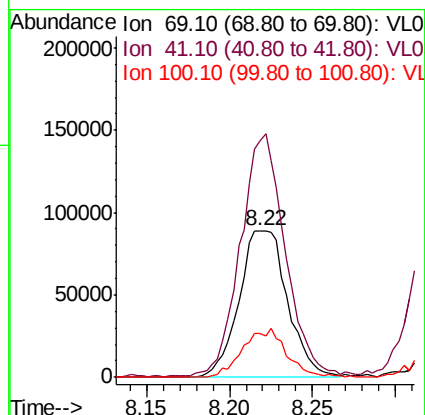
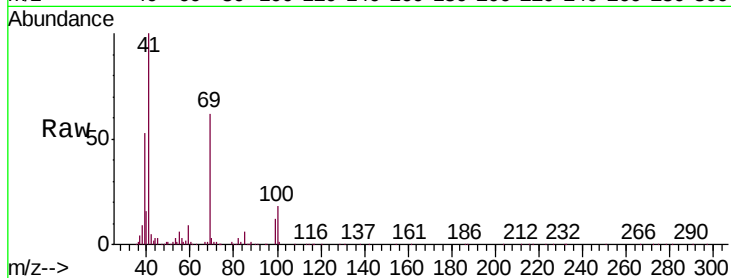




#43
Methvl Methacrilate
Concen: 1.038 ppbv
RT: 8.22 min Scan# 2218
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

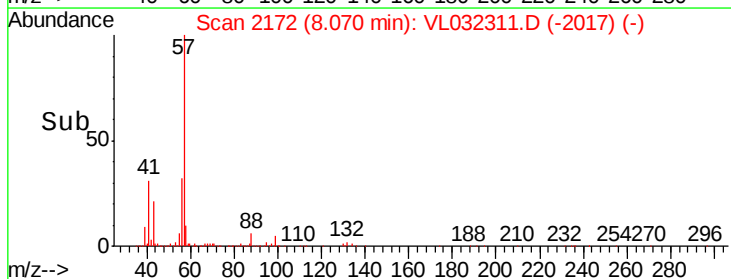
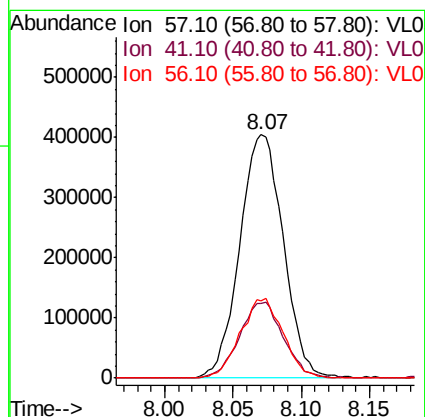
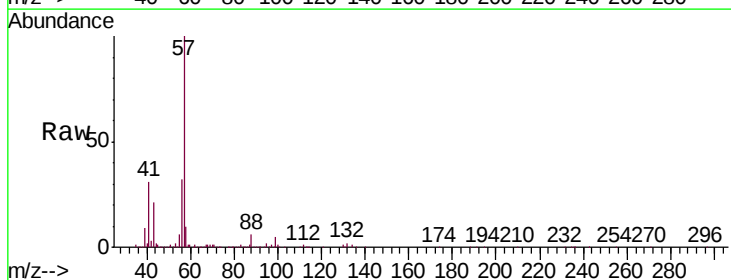
Instrument :
MSVOA_L
ClientSampleId :

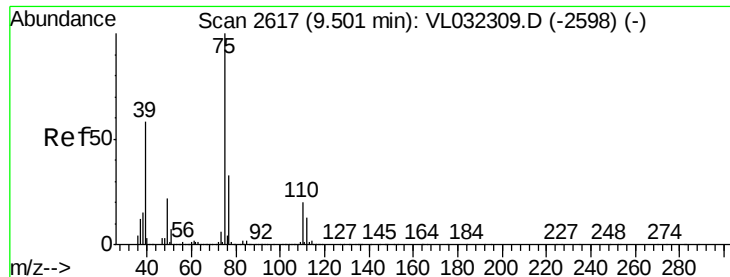
Tot Ion: 69 Resp: 181464
Ion Ratio Lower Upper
69 100
41 151.7 120.6 180.8
100 30.2 23.2 34.8



#44
2,2,4-Trimethylpentane
Concen: 1.181 ppbv
RT: 8.07 min Scan# 2172
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 57 Resp: 890739
Ion Ratio Lower Upper
57 100
41 32.3 24.3 36.5
56 32.7 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 0.904 ppbv

RT: 9.49 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

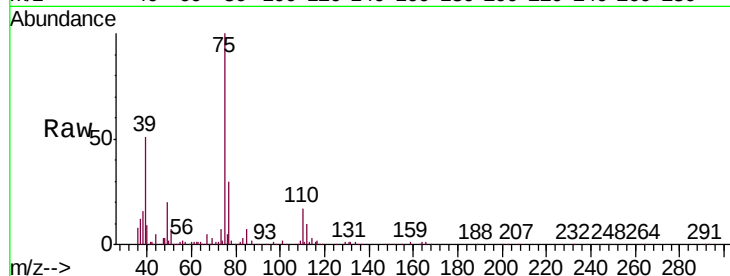
ClientSampleId :

Tot Ion: 75 Resp: 191618

Ion Ratio Lower Upper

75 100

77 30.3 26.2 39.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.49

100000

80000

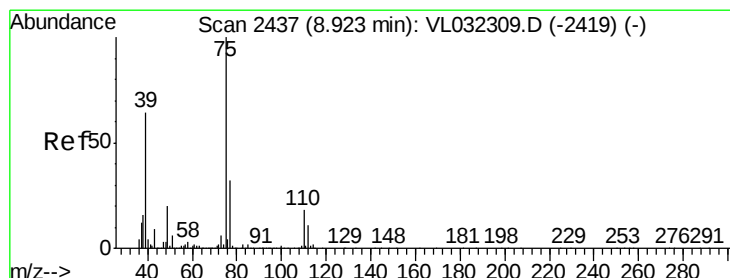
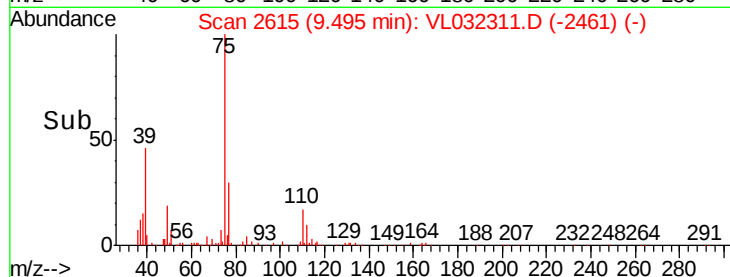
60000

40000

20000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 0.934 ppbv

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

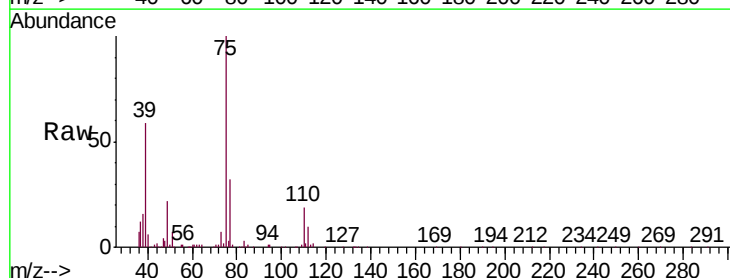
Tgt Ion: 75 Resp: 245337

Ion Ratio Lower Upper

75 100

39 58.8 50.9 76.3

77 31.6 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

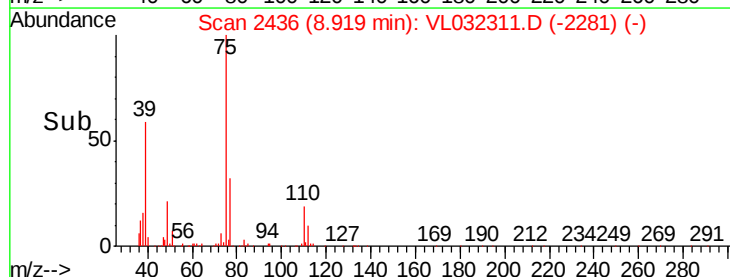
150000

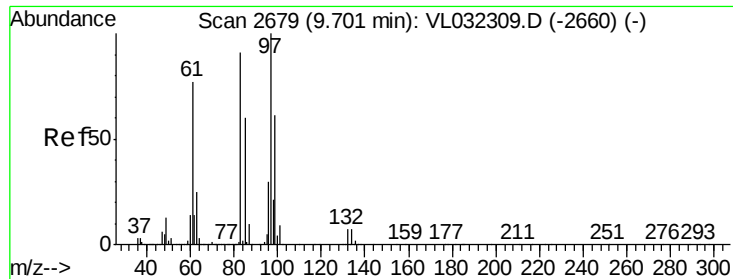
100000

50000

0

Time-->

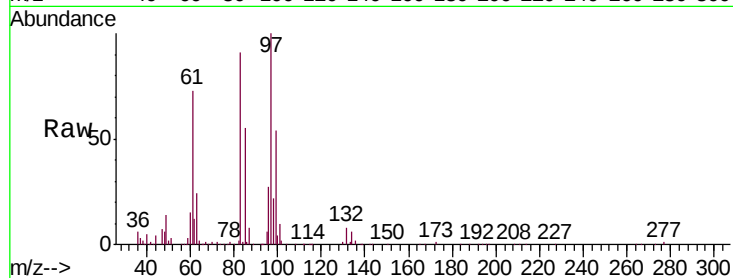




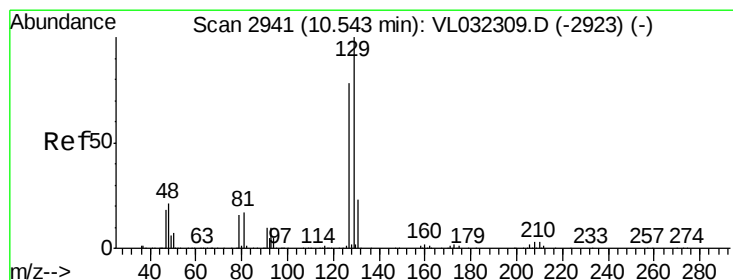
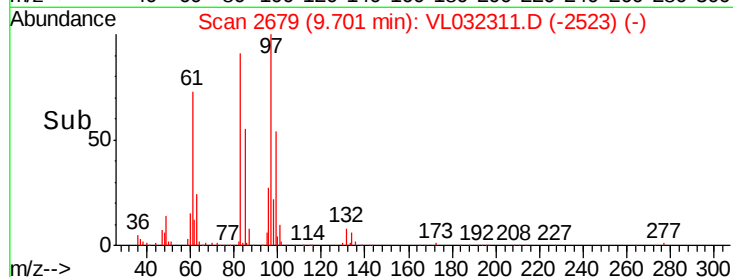
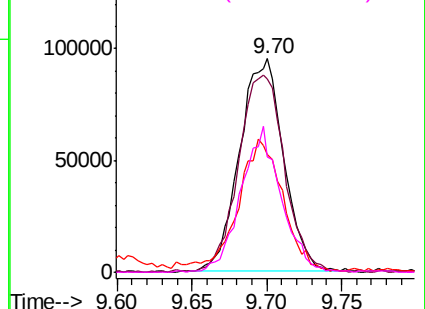
#47
 1,1,2-Trichloroethane
 Concen: 1.063 ppbv
 RT: 9.70 min Scan# 2679
 Delta R.T. 0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion	97	Resp	194513
Ion Ratio	Lower	Upper	
97	100		
83	90.7	73.0	109.6
85	54.7	48.1	72.1
99	53.8	48.5	72.7

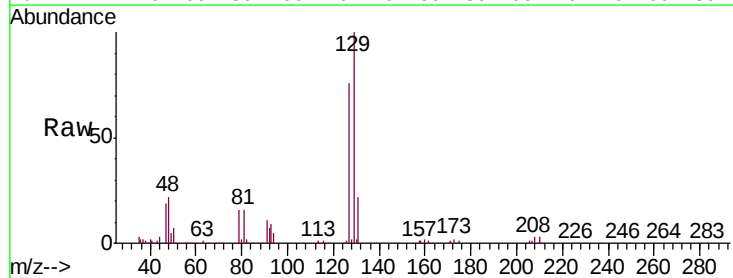


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

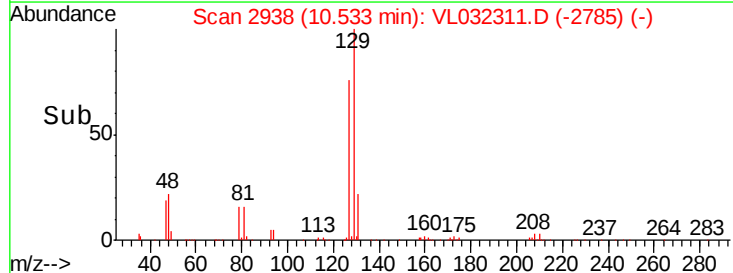
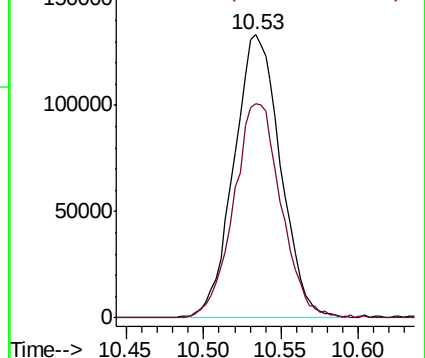


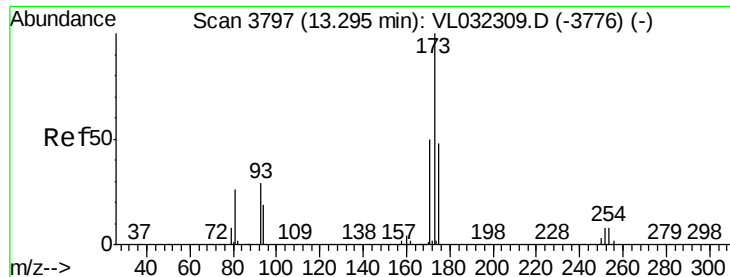
#48
 Dibromochloromethane
 Concen: 1.037 ppbv
 RT: 10.53 min Scan# 2938
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion	129	Resp	278789
Ion Ratio	Lower	Upper	
129	100		
127	77.3	39.5	118.3



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





#49

Bromoform

Concen: 0.982 ppbv

RT: 13.29 min Scan# 3794

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

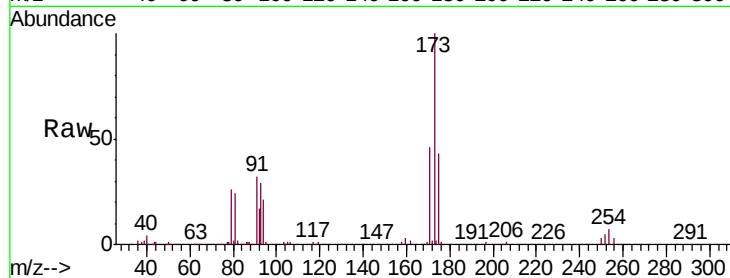
Tot Ion:173 Resp: 230050

Ion Ratio Lower Upper

173 100

175 48.3 38.9 58.3

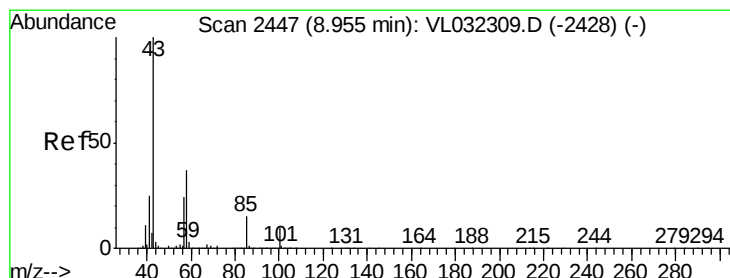
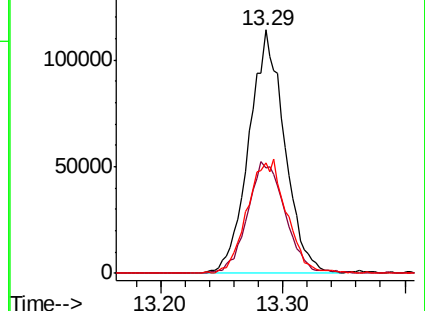
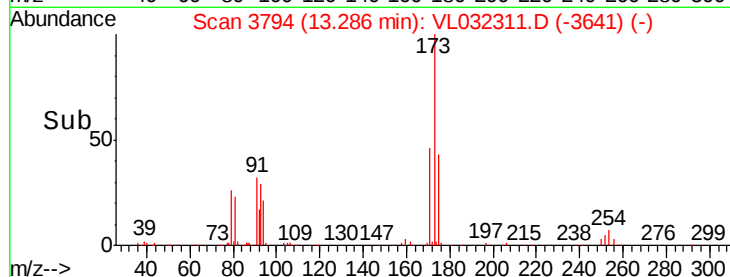
171 51.3 42.2 63.2



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: 1.036 ppbv

RT: 8.96 min Scan# 2450

Delta R.T. 0.01 min

Lab File: VL032311.D

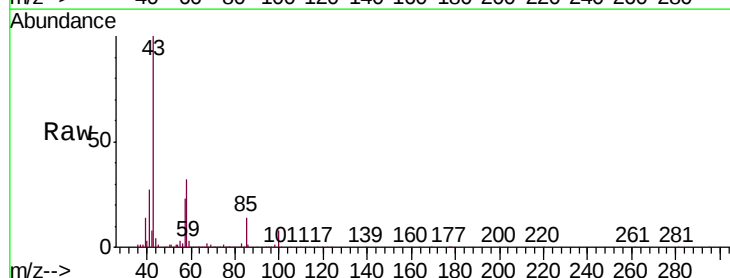
Acq: 27 Jul 2018 1:57

Tgt Ion: 43 Resp: 509632

Ion Ratio Lower Upper

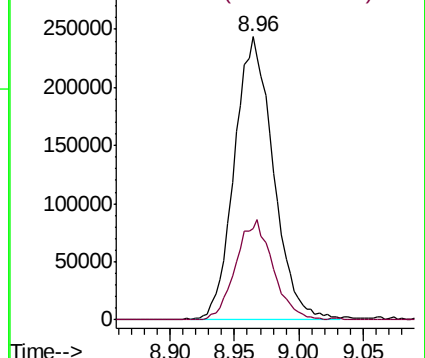
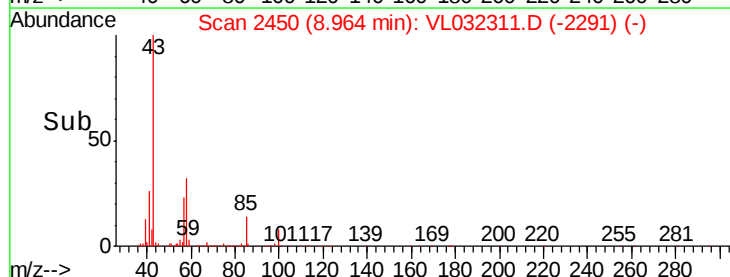
43 100

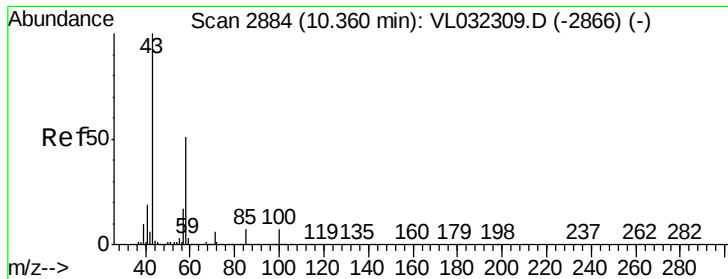
58 34.3 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.938 ppbv

RT: 10.37 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

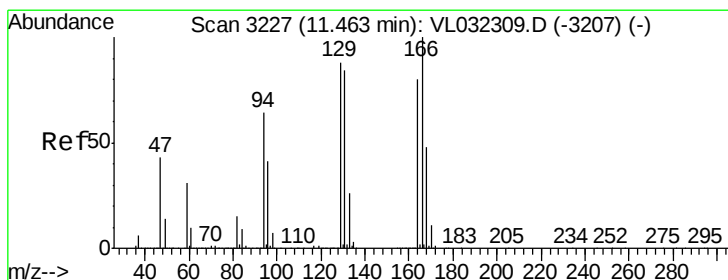
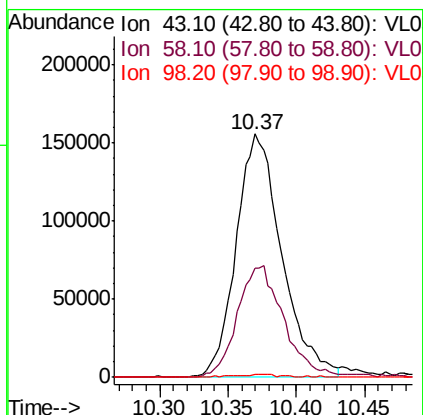
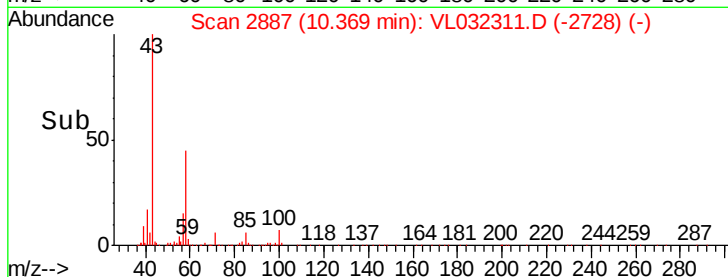
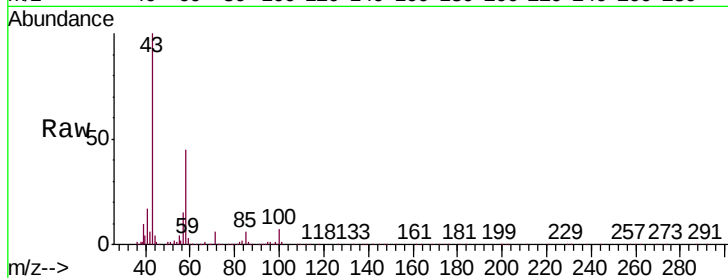
Tot Ion: 43 Resp: 362835

Ion Ratio Lower Upper

43 100

58 46.8 39.1 58.7

98 1.3 0.3 0.5#



#52

Tetrachloroethene

Concen: 0.993 ppbv

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 164 Resp: 145883

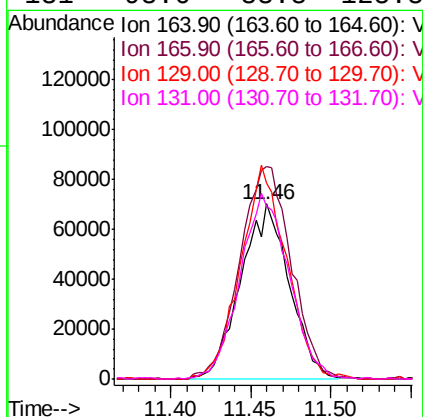
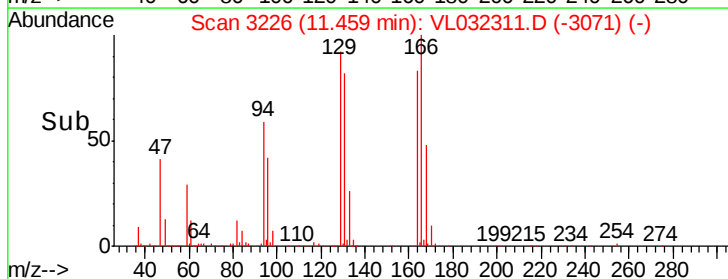
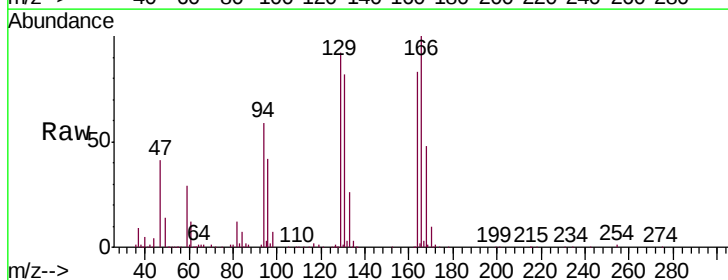
Ion Ratio Lower Upper

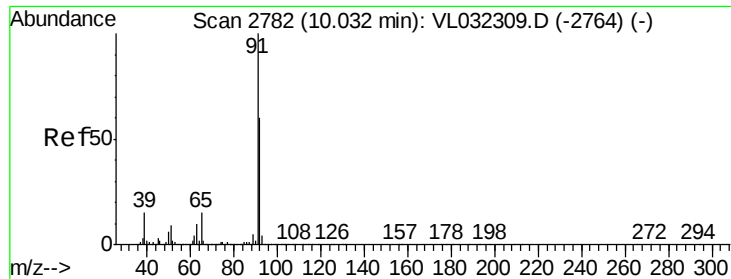
164 100

166 120.9 100.0 150.0

129 111.7 87.9 131.9

131 98.6 83.8 125.8





#53

Toluene

Concen: 0.908 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

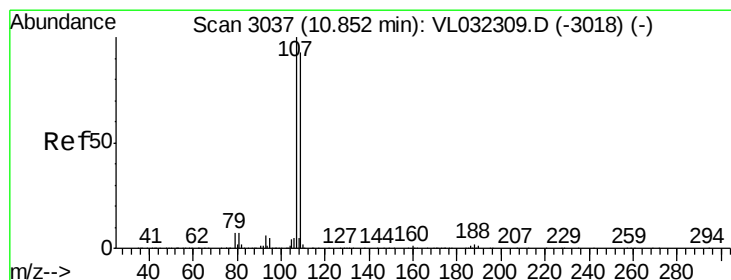
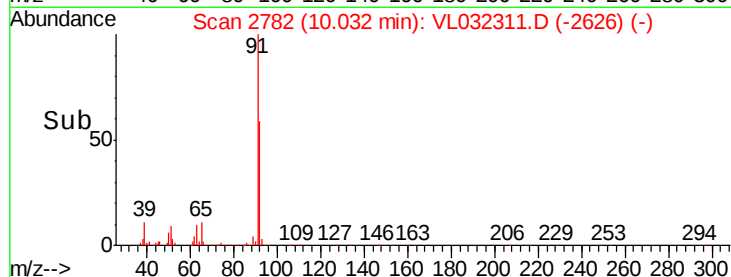
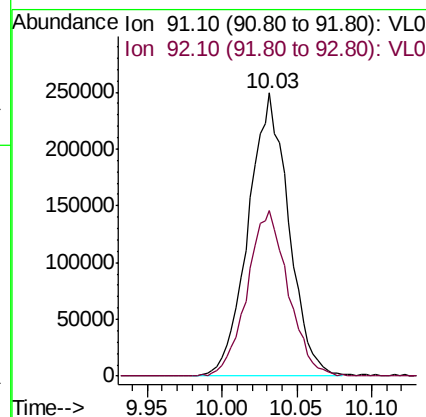
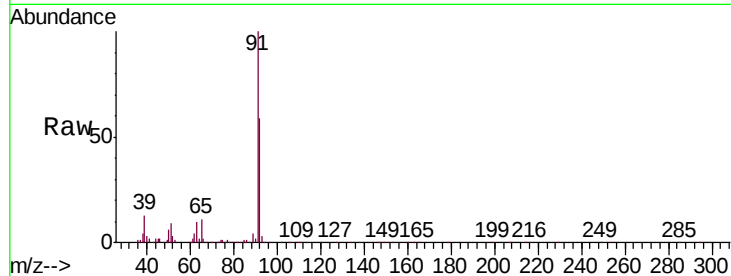
ClientSampled :

Tot Ion: 91 Resp: 468090

Ion Ratio Lower Upper

91 100

92 59.3 48.6 72.8



#54

1,2-Dibromoethane

Concen: 0.990 ppbv

RT: 10.85 min Scan# 3035

Delta R.T. -0.01 min

Lab File: VL032311.D

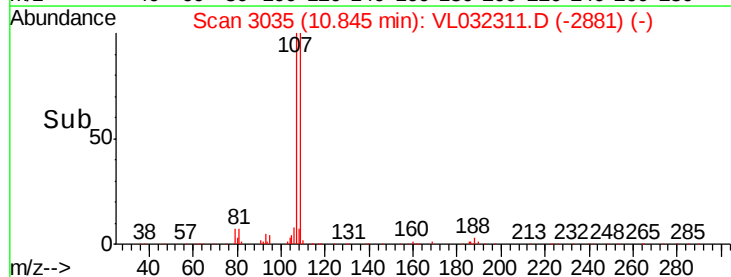
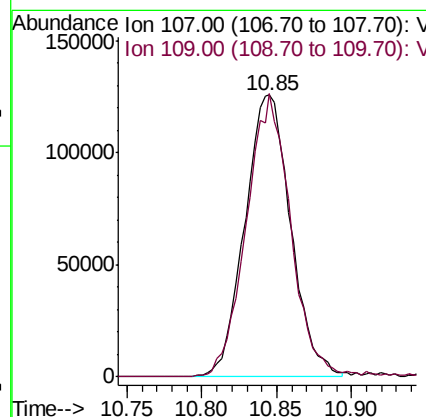
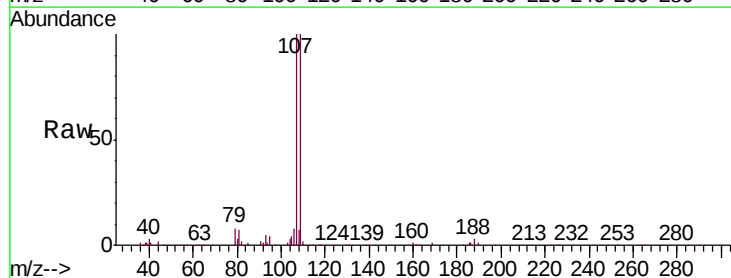
Acq: 27 Jul 2018 1:57

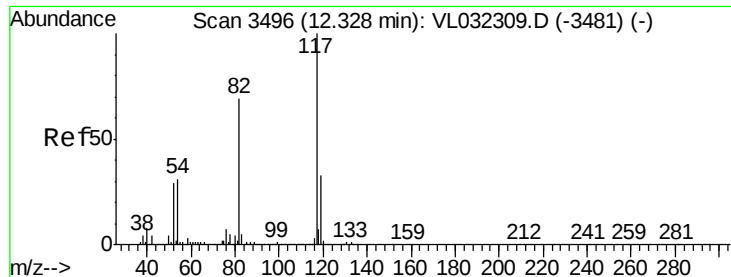
Tgt Ion: 107 Resp: 268849

Ion Ratio Lower Upper

107 100

109 100.4 74.1 111.1

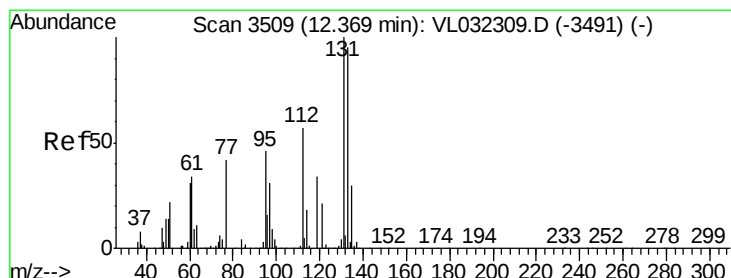
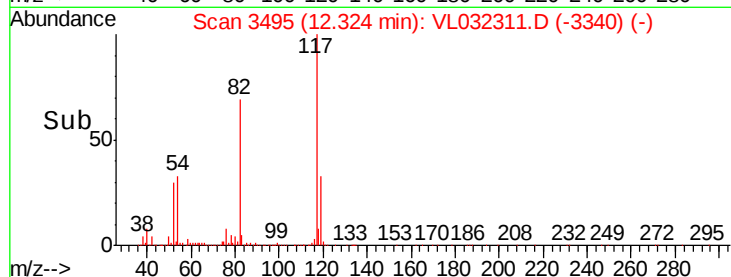
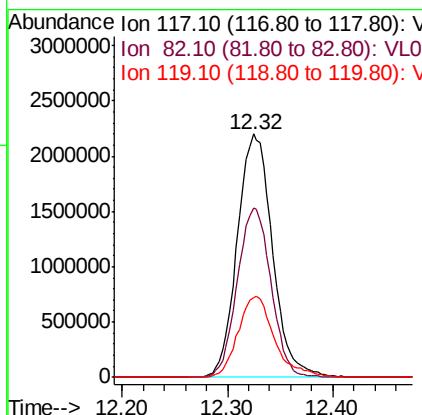
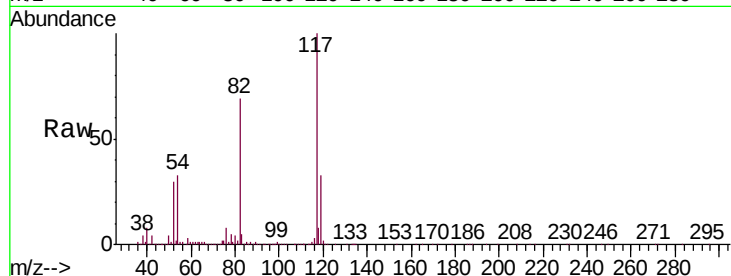




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.32 min Scan# 3495
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

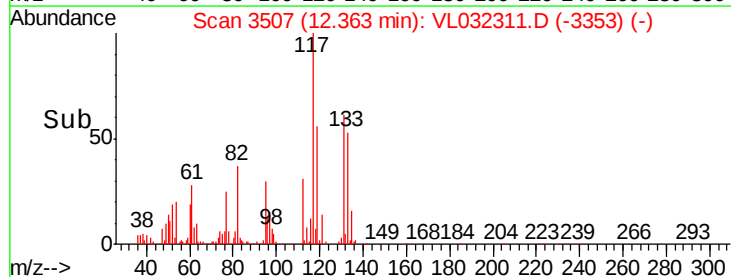
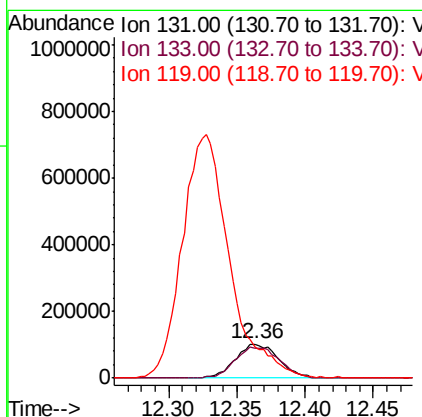
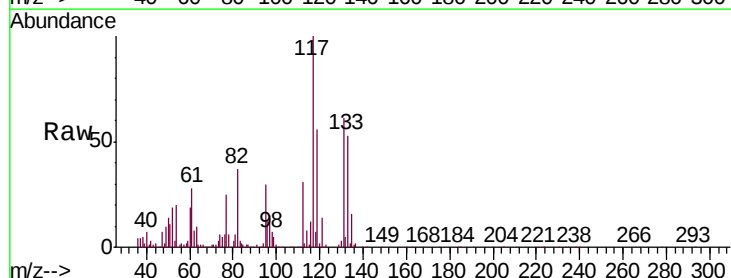
Instrument :
MSVOA_L
ClientSampled :

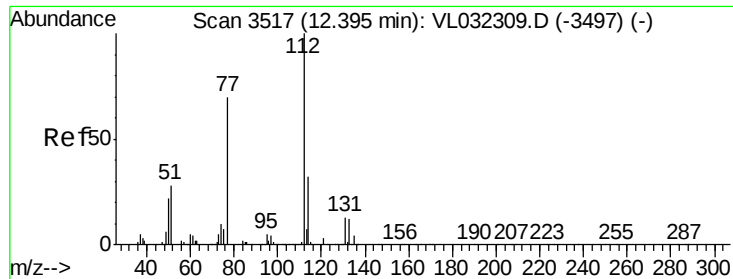
Tot Ion:117 Resp: 5104599
Ion Ratio Lower Upper
117 100
82 67.1 52.6 78.8
119 34.6 25.7 38.5



#56
1,1,1,2-Tetrachloroethane
Concen: 1.000 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion:131 Resp: 226169
Ion Ratio Lower Upper
131 100
133 94.9 75.8 113.6
119 780.3 48.1 72.1#

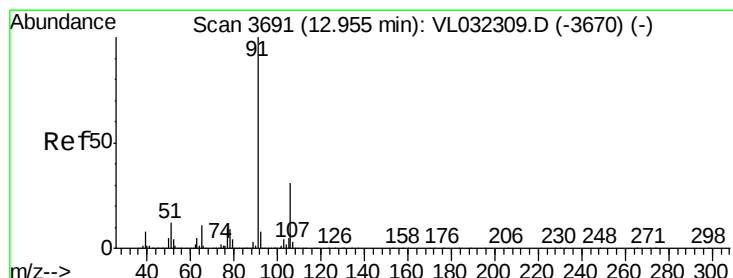
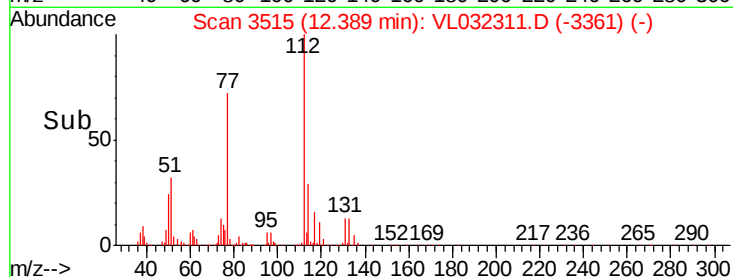
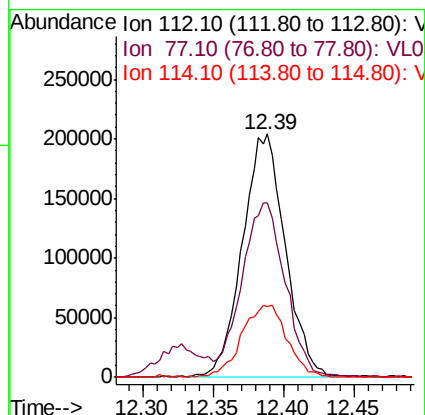
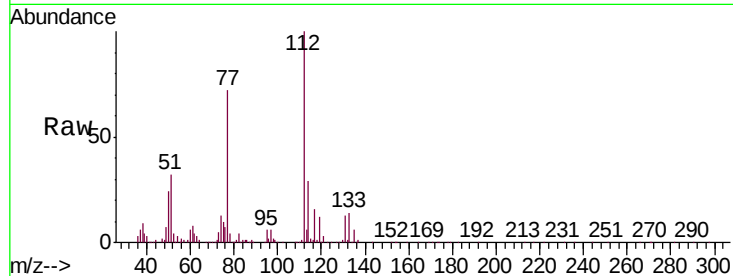




#57
Chlorobenzene
Concen: 1.029 ppbv
RT: 12.39 min Scan# 3515
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

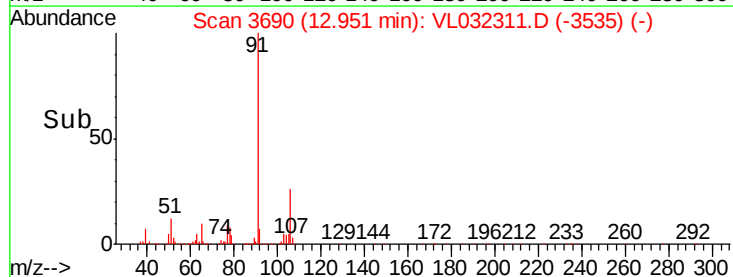
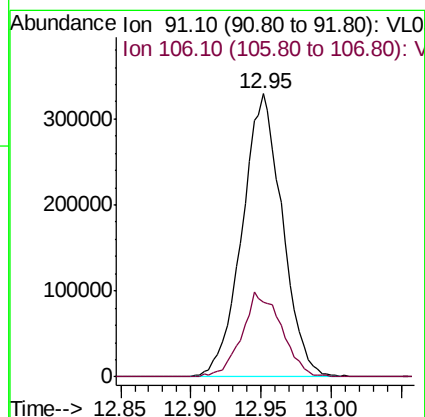
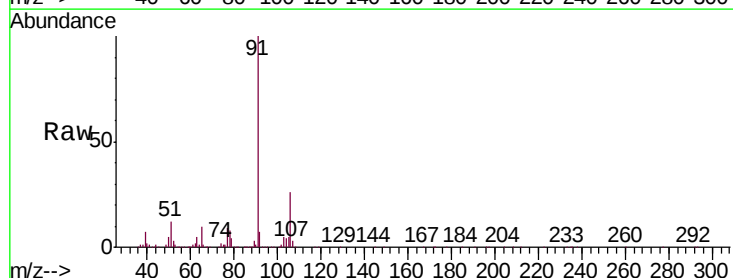
Instrument :
MSVOA_L
ClientSampleId :

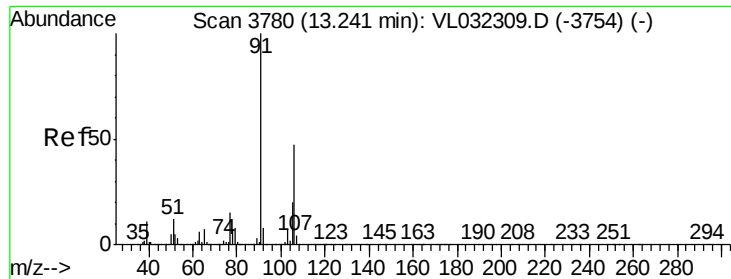
Tot Ion	Ratio	Lower	Upper
112	100		
77	71.4	56.5	84.7
114	28.8	28.4	34.7



#58
Ethyl Benzene
Concen: 0.923 ppbv
RT: 12.95 min Scan# 3690
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.2	25.0	37.4

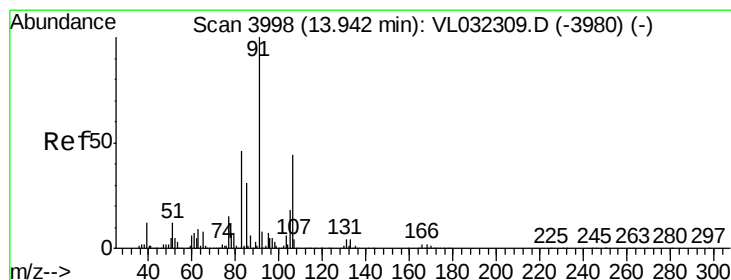
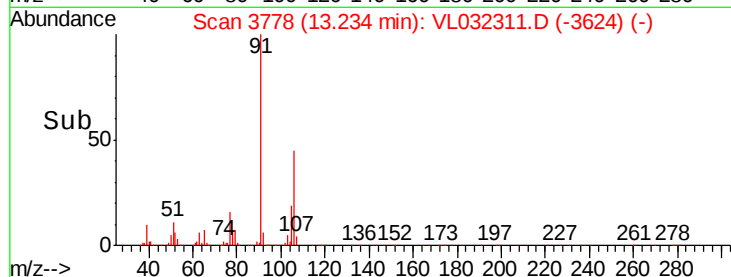
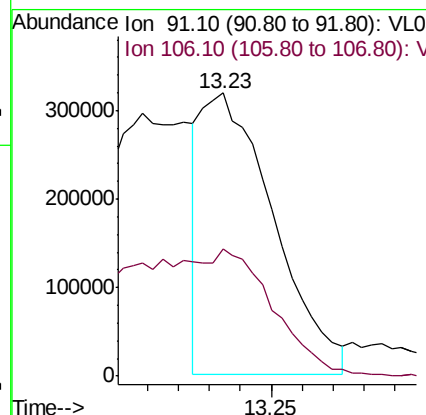
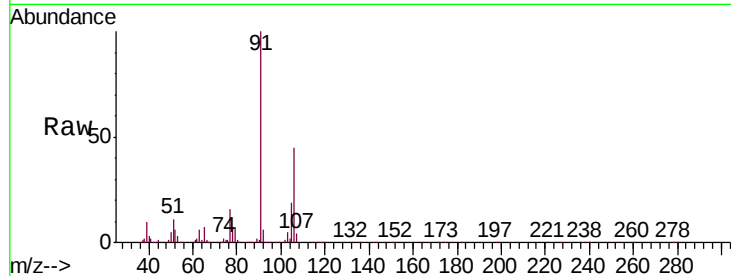




#59
m/p-Xylene
Concen: 0.844 ppbv
RT: 13.23 min Scan# 3778
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

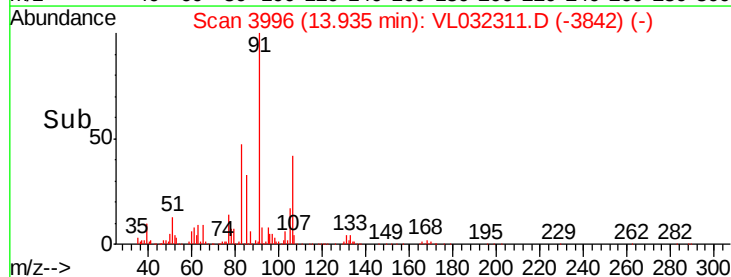
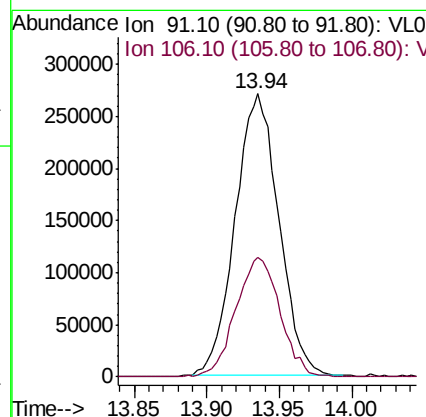
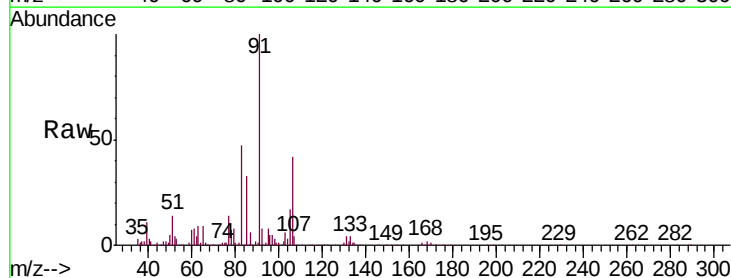
Instrument :
MSVOA_L
ClientSampled :

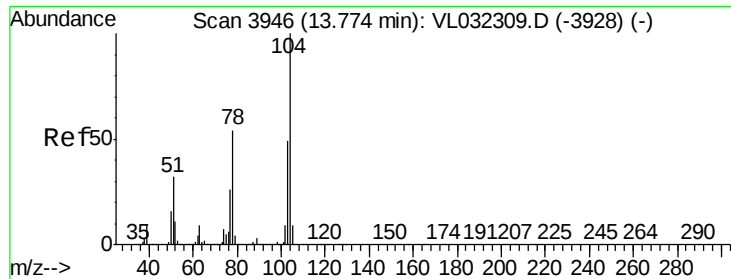
Tot Ion: 91 Resp: 515240
Ion Ratio Lower Upper
91 100
106 100.1 36.4 54.6#



#60
o-Xylene
Concen: 0.932 ppbv
RT: 13.94 min Scan# 3996
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 91 Resp: 566991
Ion Ratio Lower Upper
91 100
106 43.2 22.4 67.0

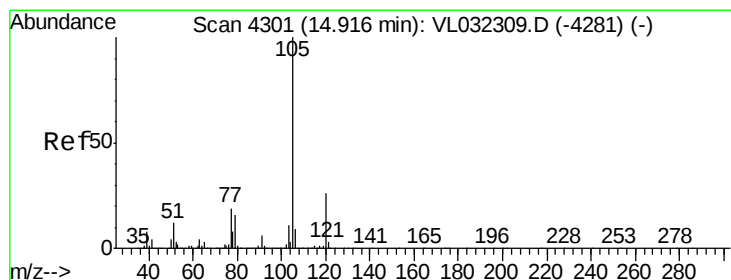
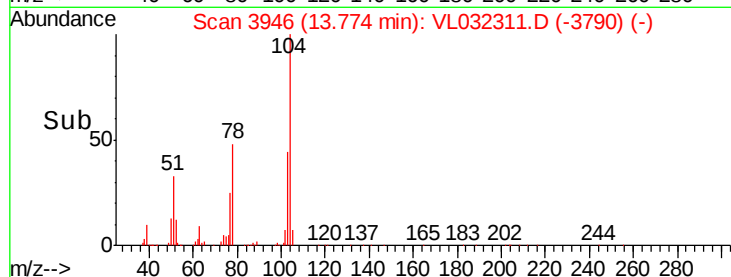
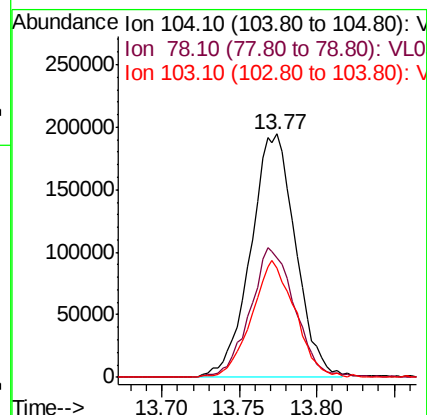
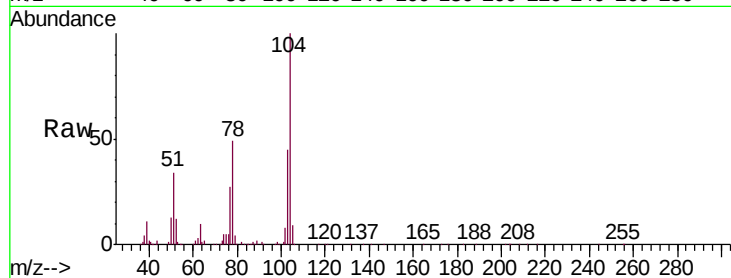




#61
Stvrene
Concen: 0.877 ppbv
RT: 13.77 min Scan# 3946
Delta R.T. 0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

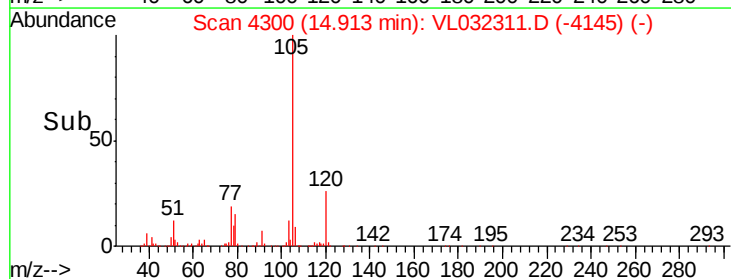
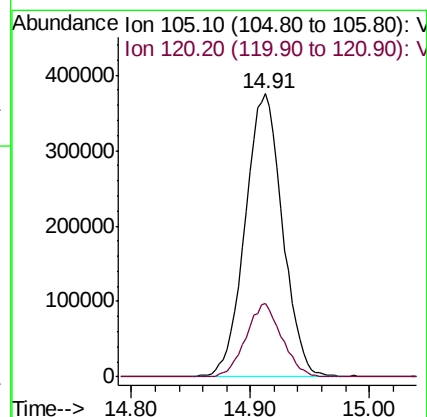
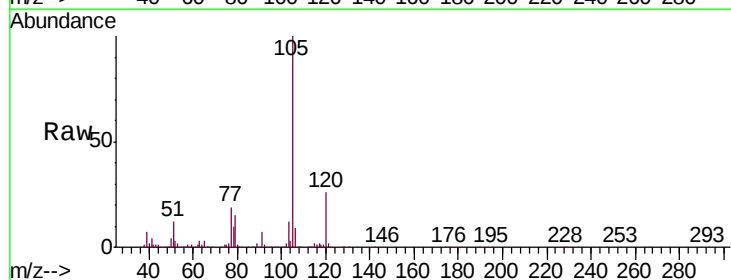
Instrument :
MSVOA_L
ClientSampleId :

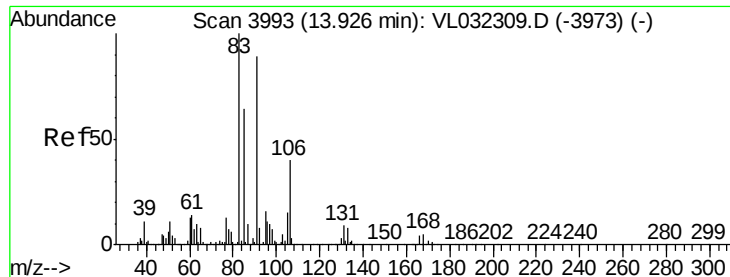
Tot Ion	Ratio	Lower	Upper
104	100		
78	53.6	42.6	63.8
103	46.6	38.0	57.0



#62
Isopropylbenzene
Concen: 0.948 ppbv
RT: 14.91 min Scan# 4300
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 0.938 ppbv

RT: 13.92 min Scan# 3992

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampled :

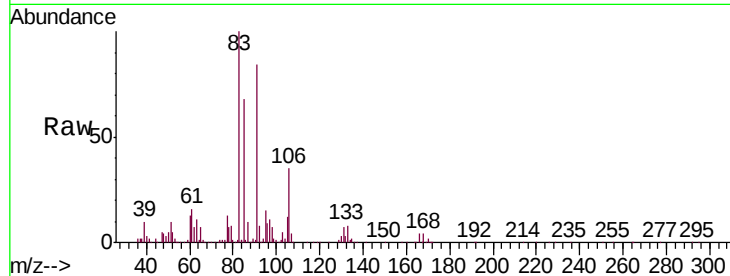
Tot Ion: 83 Resp: 487283

Ion Ratio Lower Upper

83 100

131 8.3 4.3 12.8

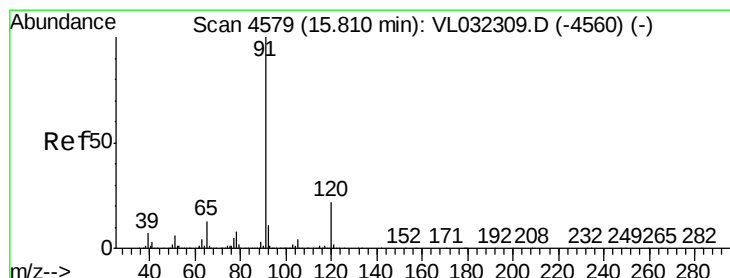
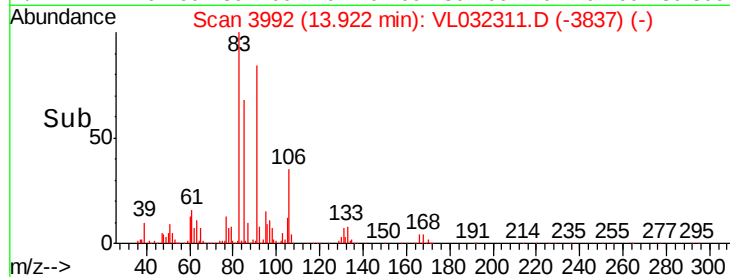
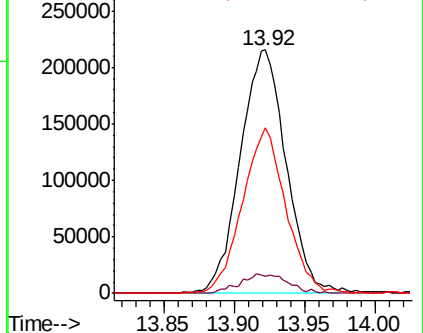
85 64.9 32.6 97.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.947 ppbv

RT: 15.80 min Scan# 4577

Delta R.T. -0.01 min

Lab File: VL032311.D

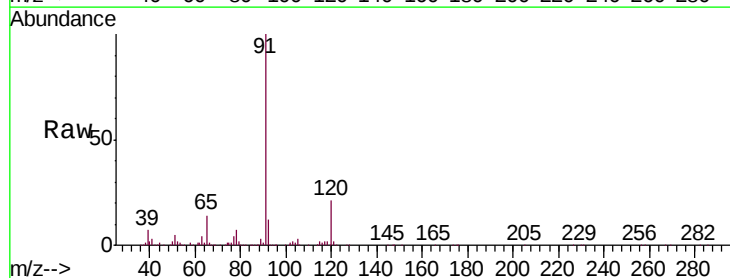
Acq: 27 Jul 2018 1:57

Tgt Ion: 120 Resp: 209238

Ion Ratio Lower Upper

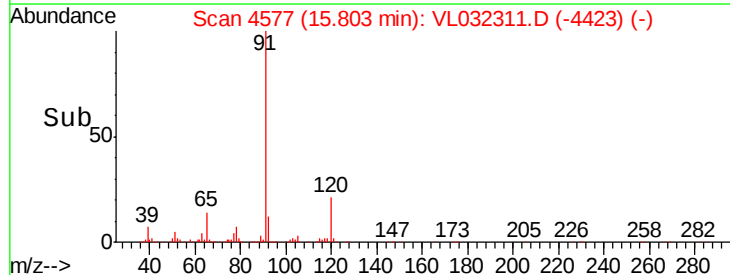
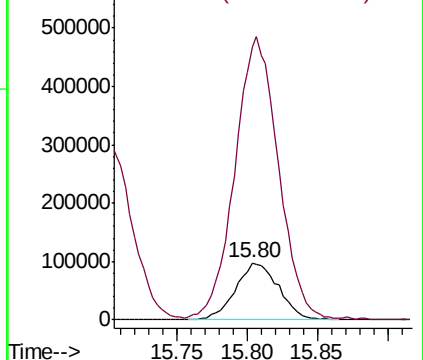
120 100

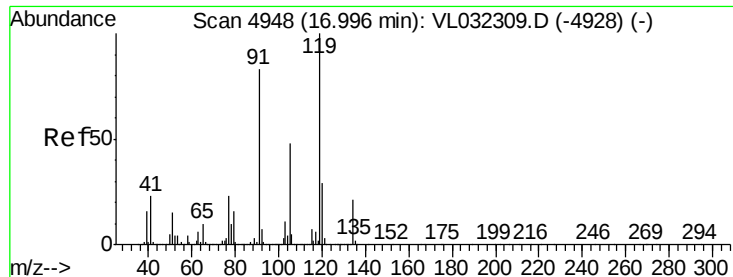
91 504.8 381.8 572.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

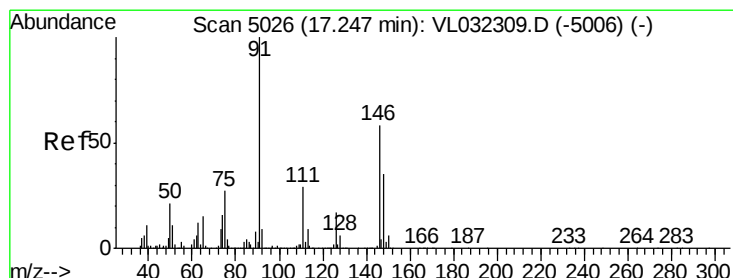
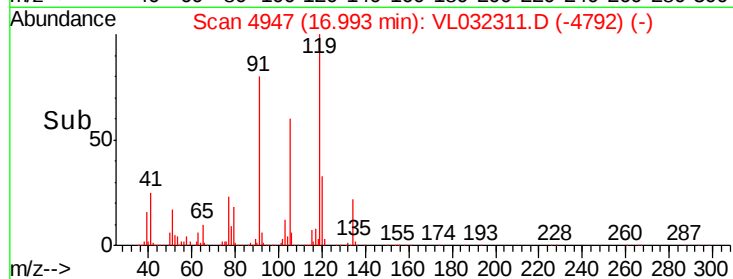
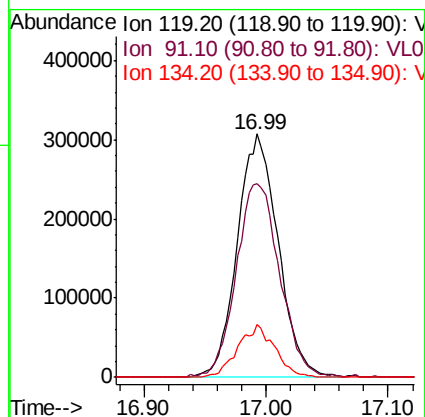
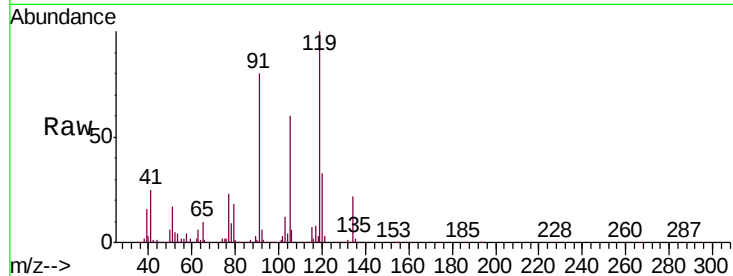




#65
tert-Butylbenzene
Concen: 0.966 ppbv
RT: 16.99 min Scan# 4947
Delta R.T. -0.00 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

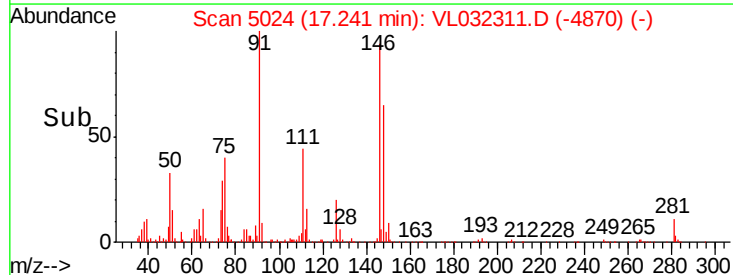
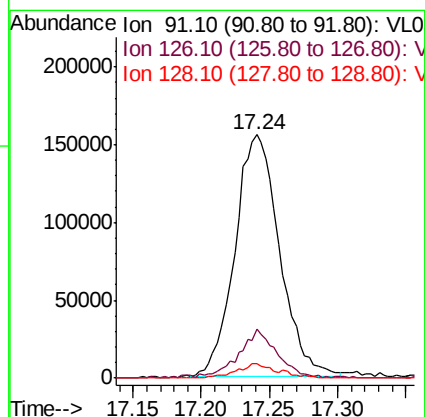
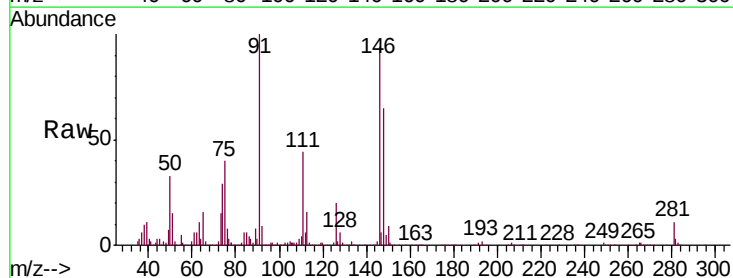
Instrument :
MSVOA_L
ClientSampleId :

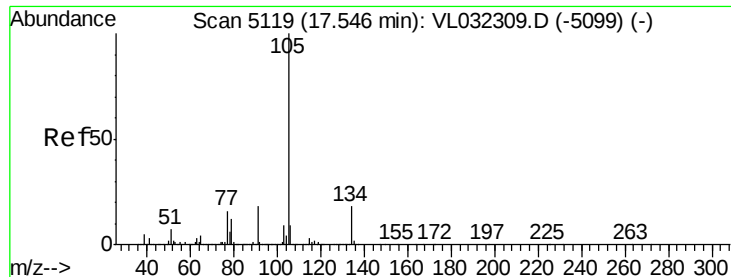
Tot Ion: 119 Resp: 710120
Ion Ratio Lower Upper
119 100
91 85.4 67.5 101.3
134 19.6 15.8 23.6



#66
Benzyl Chloride
Concen: 0.860 ppbv
RT: 17.24 min Scan# 5024
Delta R.T. -0.01 min
Lab File: VL032311.D
Acq: 27 Jul 2018 1:57

Tgt Ion: 91 Resp: 353857
Ion Ratio Lower Upper
91 100
126 18.4 13.7 20.5
128 5.7 4.3 6.5





#67

sec-Butylbenzene

Concen: 0.966 ppbv

RT: 17.54 min Scan# 5118

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

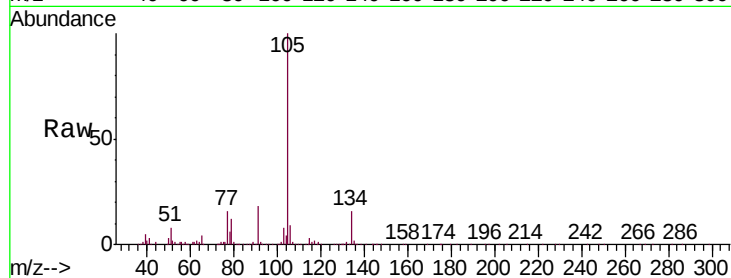
ClientSampled :

Tot Ion:105 Resp: 1060235

Ion Ratio Lower Upper

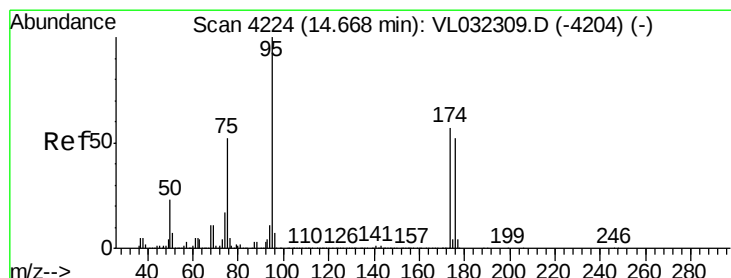
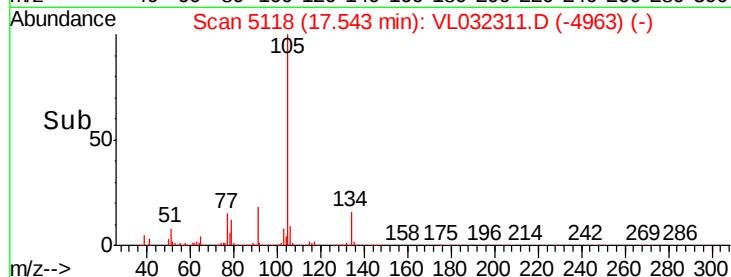
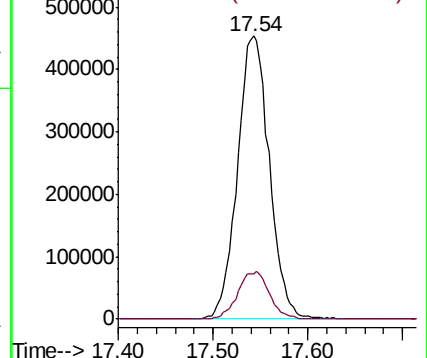
105 100

134 16.8 14.2 21.4



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: 9.854 ppbv

RT: 14.66 min Scan# 4222

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

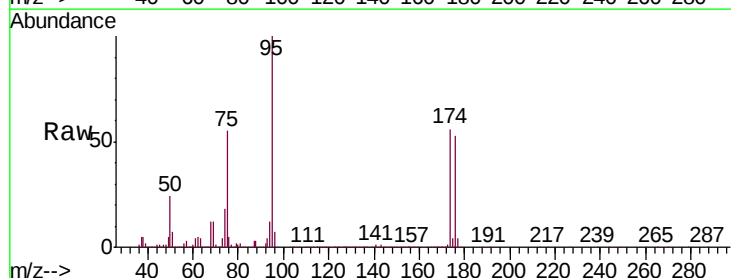
Tgt Ion: 95 Resp: 4025198

Ion Ratio Lower Upper

95 100

174 56.4 45.5 68.3

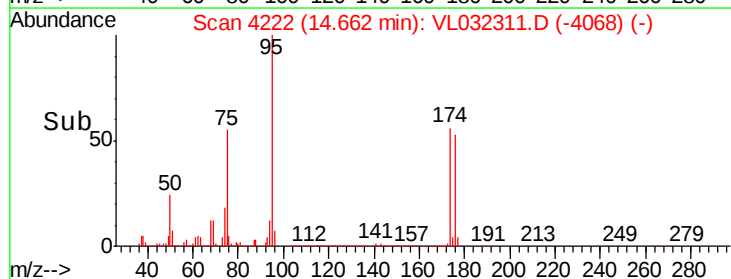
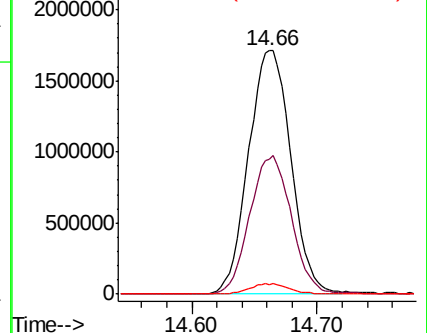
175 4.0 3.3 4.9

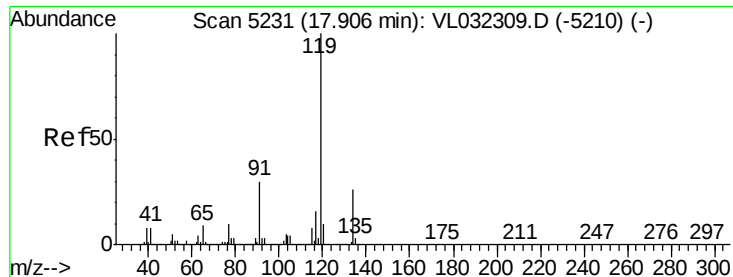


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.420 ppbv

RT: 17.90 min Scan# 5230

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

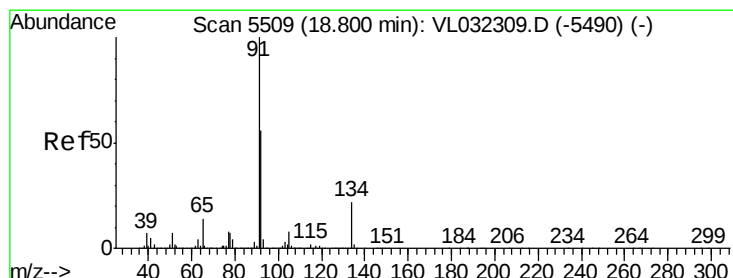
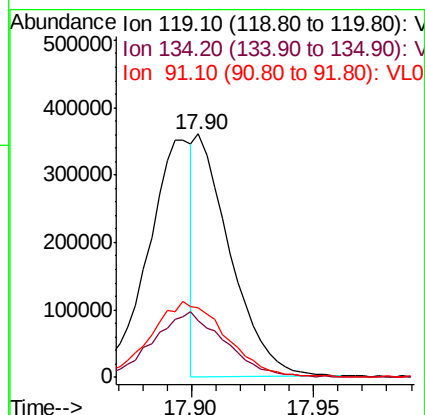
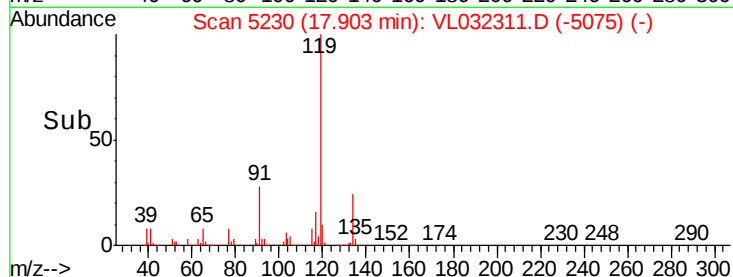
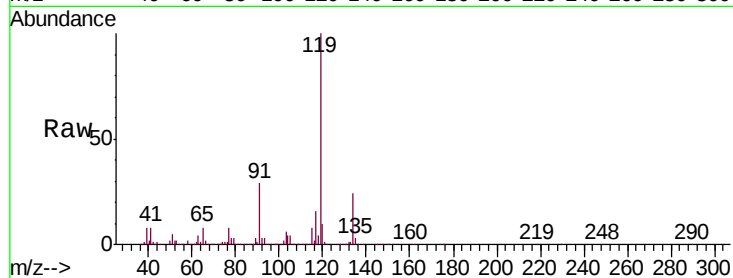
Tot Ion: 119 Resp: 356611

Ion Ratio Lower Upper

119 100

134 56.7 20.3 30.5#

91 68.4 23.8 35.6#



#70

n-Butylbenzene

Concen: 0.988 ppbv

RT: 18.80 min Scan# 5508

Delta R.T. -0.00 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

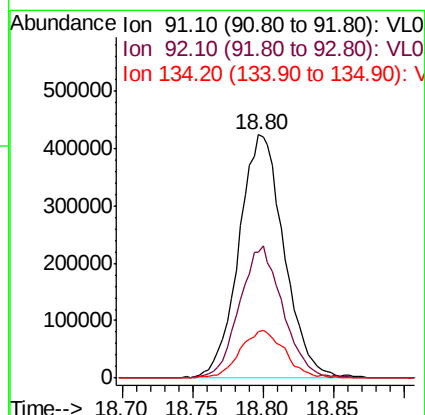
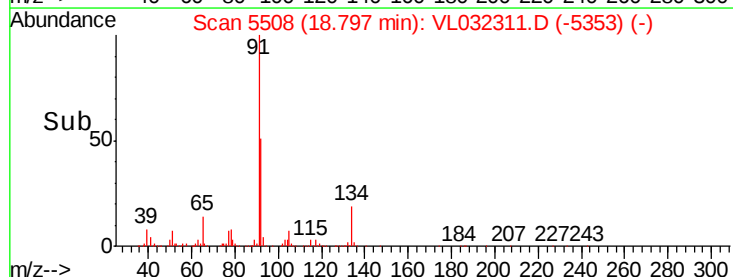
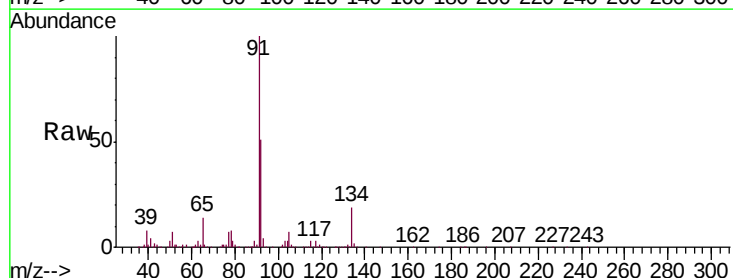
Tgt Ion: 91 Resp: 938020

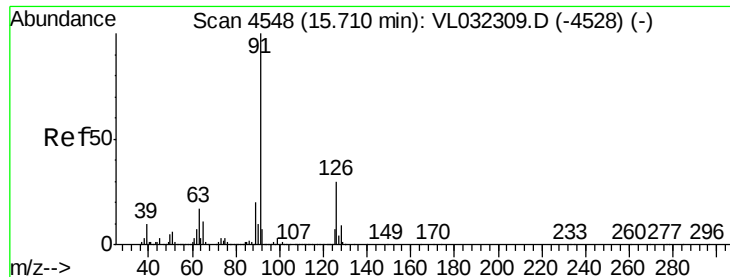
Ion Ratio Lower Upper

91 100

92 52.8 44.2 66.4

134 20.0 17.4 26.2





#71

2-Chlorotoluene

Concen: 0.906 ppbv

RT: 15.70 min Scan# 4546

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

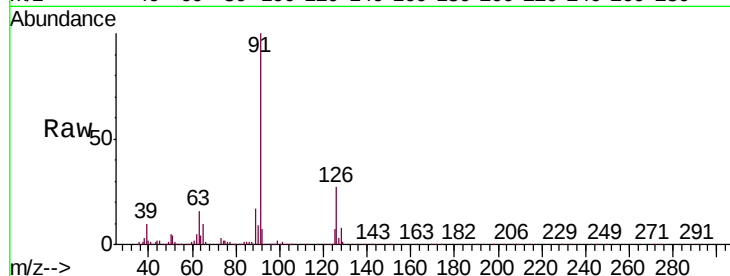
ClientSampleId :

Tot Ion: 91 Resp: 623380

Ion Ratio Lower Upper

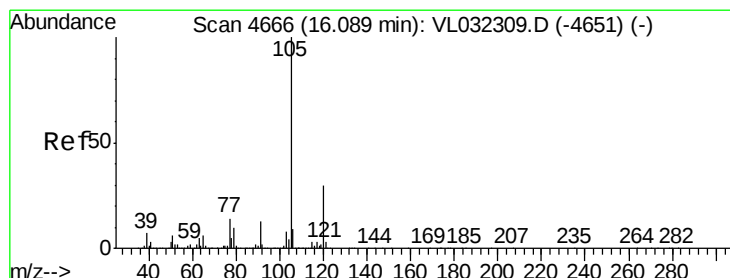
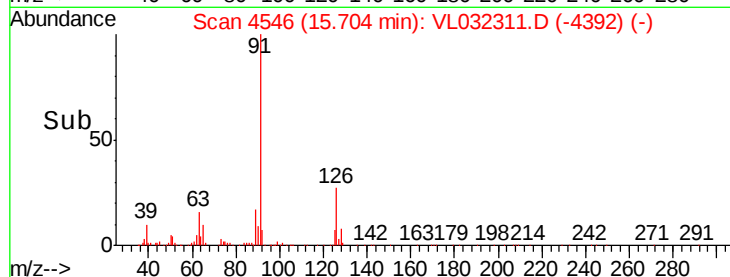
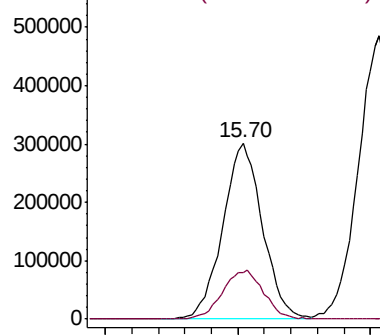
91 100

126 29.0 11.8 47.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.887 ppbv

RT: 16.08 min Scan# 4664

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Tgt Ion: 105 Resp: 614477

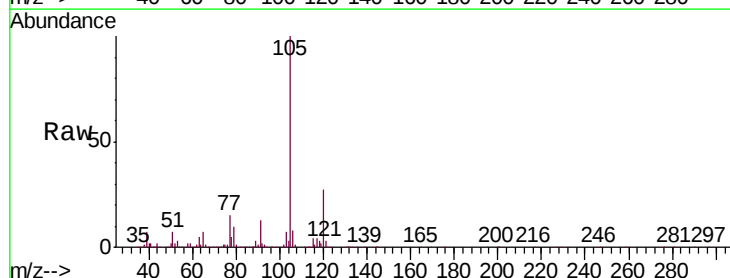
Ion Ratio Lower Upper

105 100

120 29.7 23.1 34.7

91 13.7 10.0 15.0

77 15.0 11.5 17.3

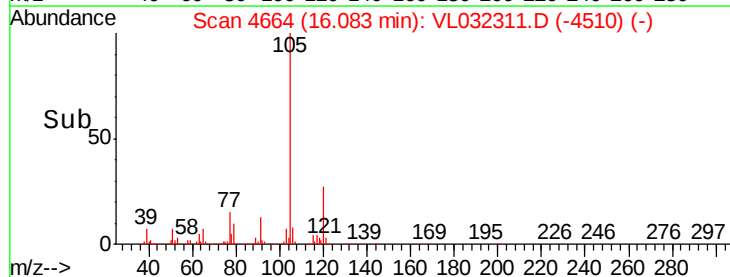
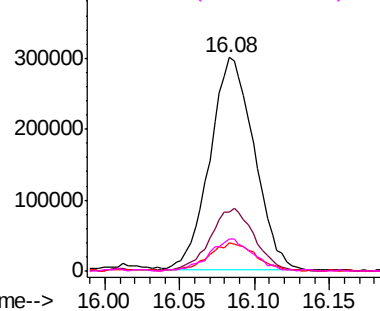


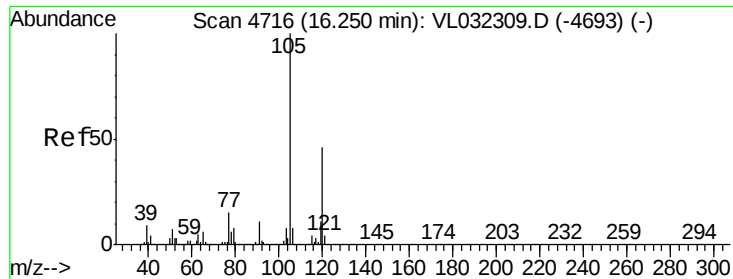
Abundance Ion 105.10 (104.80 to 105.80): V

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

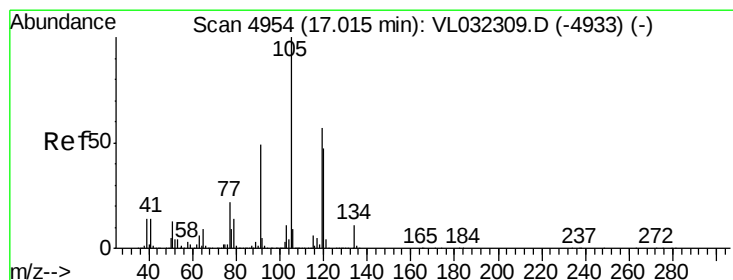
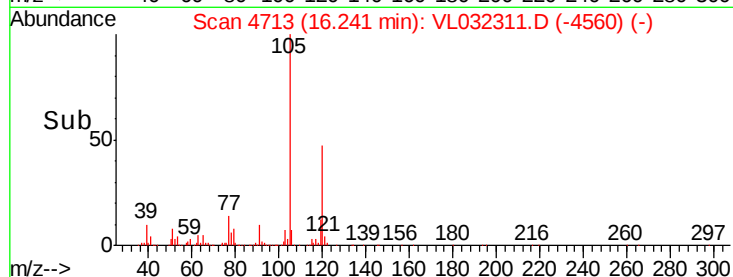
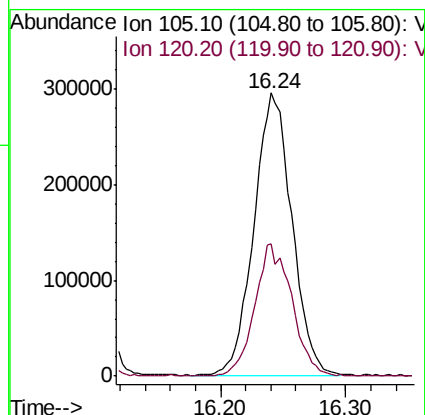
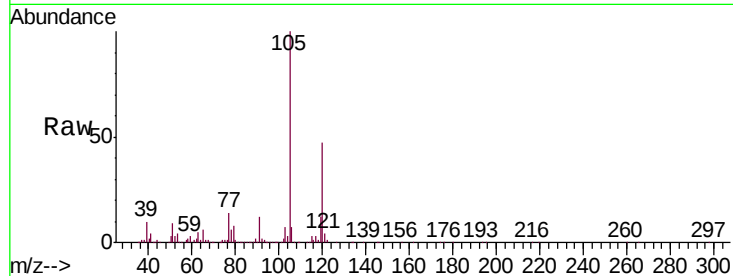




#73
 1,3,5-Trimethylbenzene
 Concen: 0.924 ppbv
 RT: 16.24 min Scan# 4713
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

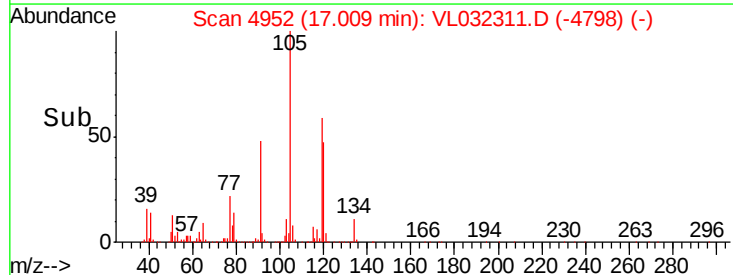
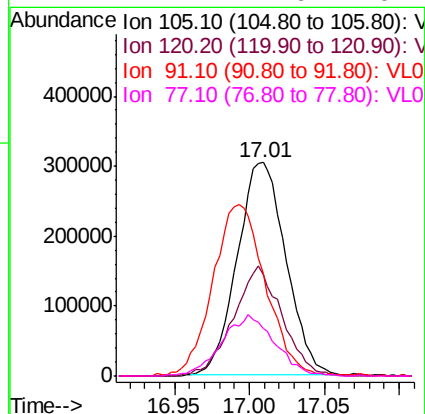
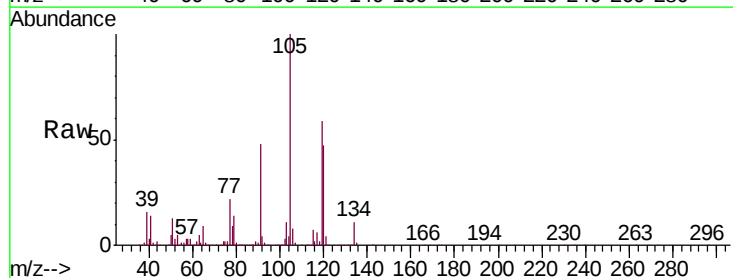
Instrument :
 MSVOA_L
 ClientSampleId :

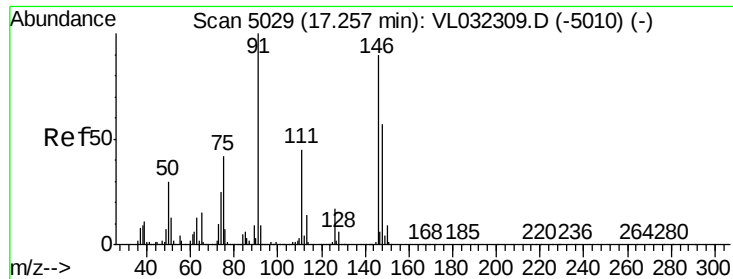
Tot Ion:105 Resp: 625564
 Ion Ratio Lower Upper
 105 100
 120 46.9 36.5 54.7



#74
 1,2,4-Trimethylbenzene
 Concen: 0.967 ppbv
 RT: 17.01 min Scan# 4952
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion:105 Resp: 688506
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.8 56.6
 91 47.9 39.4 59.0
 77 22.4 17.6 26.4





#75

1,3-Dichlorobenzene

Concen: 1.000 ppbv

RT: 17.25 min Scan# 5027

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

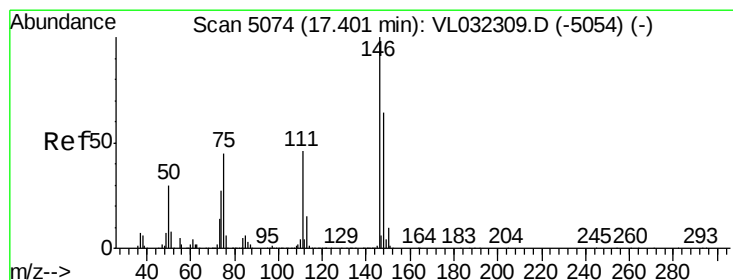
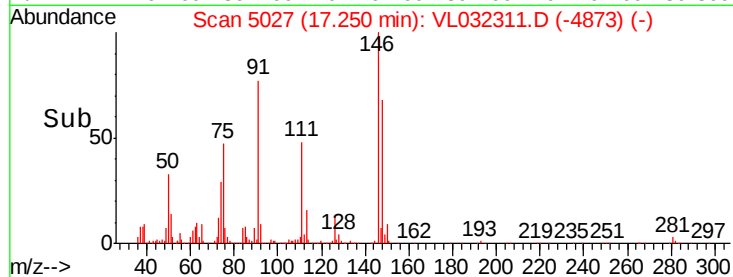
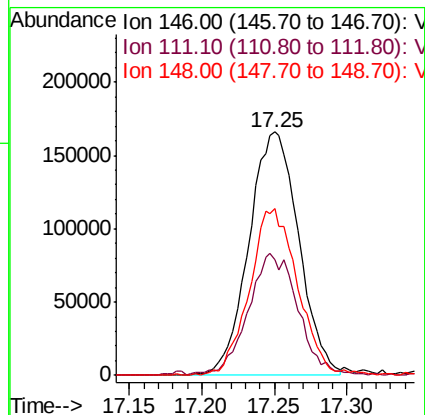
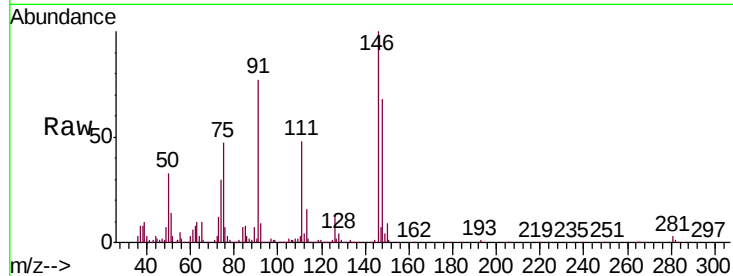
Tot Ion:146 Resp: 397043

Ion Ratio Lower Upper

146 100

111 50.7 24.6 73.8

148 66.7 31.6 95.0



#76

1,4-Dichlorobenzene

Concen: 0.933 ppbv

RT: 17.39 min Scan# 5072

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

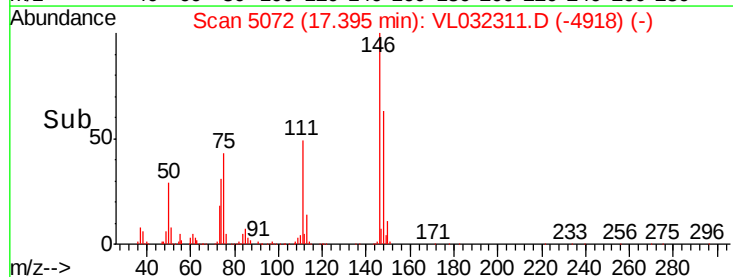
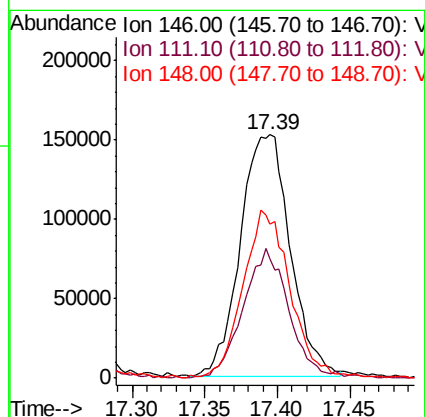
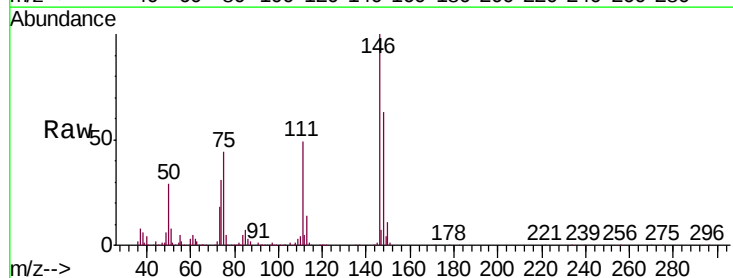
Tgt Ion:146 Resp: 366746

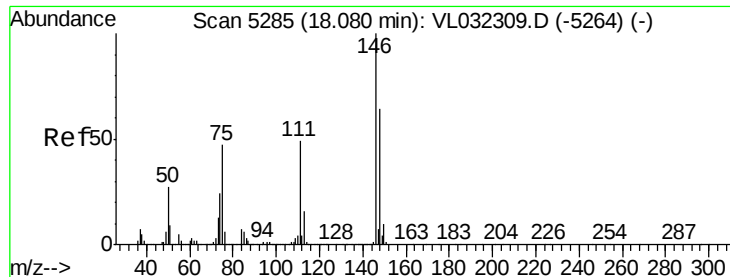
Ion Ratio Lower Upper

146 100

111 49.2 23.6 70.8

148 66.3 32.1 96.3

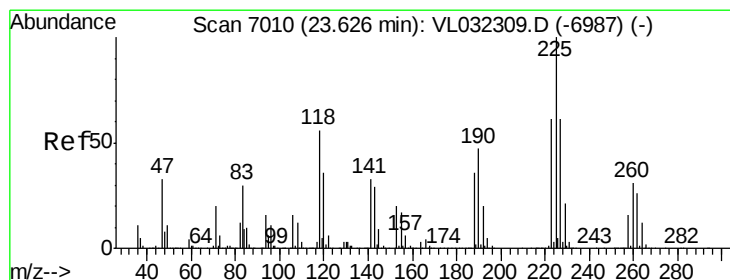
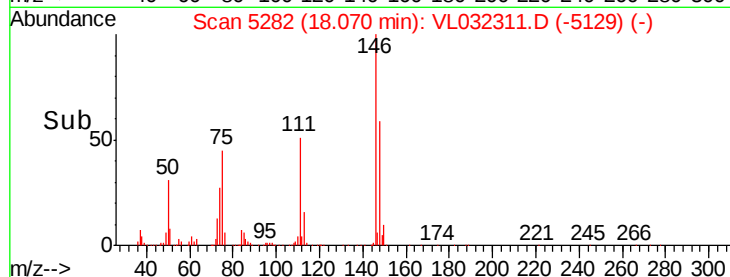
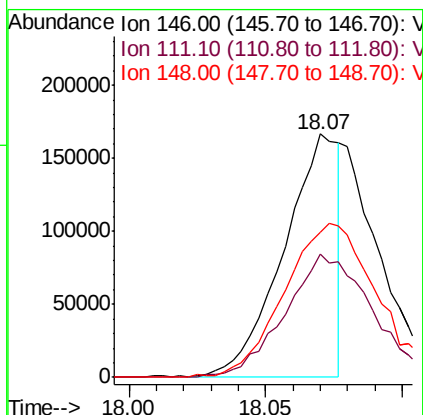
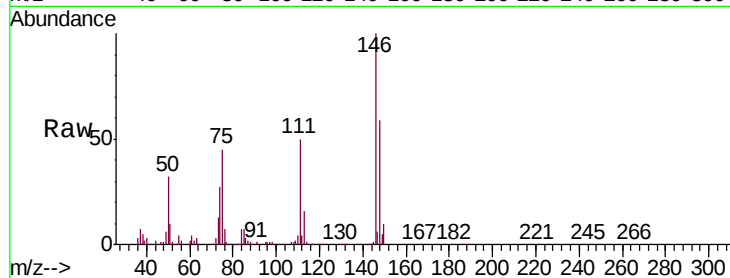




#77
 1,2-Dichlorobenzene
 Concen: 0.603 ppbv
 RT: 18.07 min Scan# 5282
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

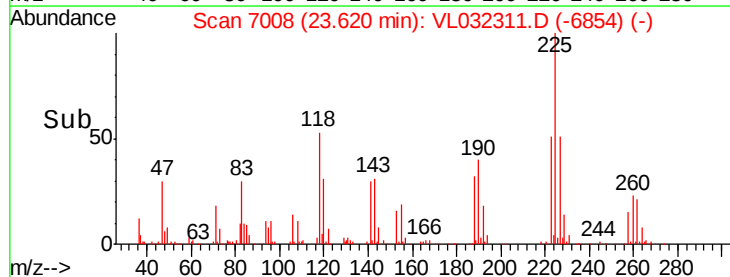
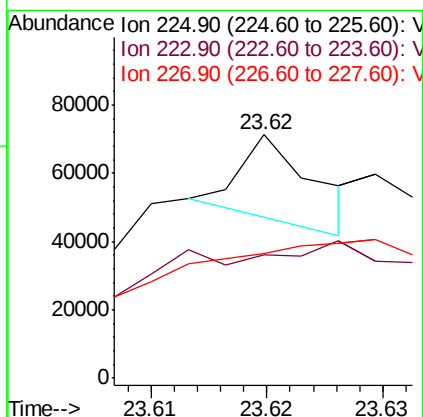
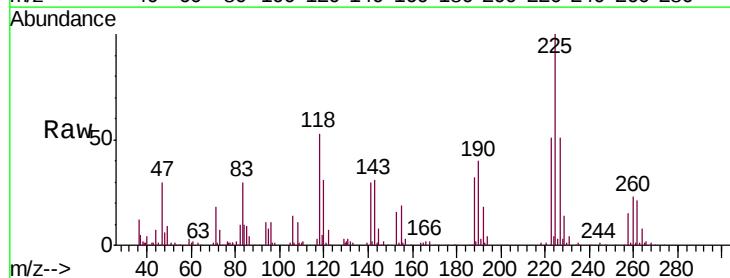
Instrument :
 MSVOA_L
 ClientSampled :

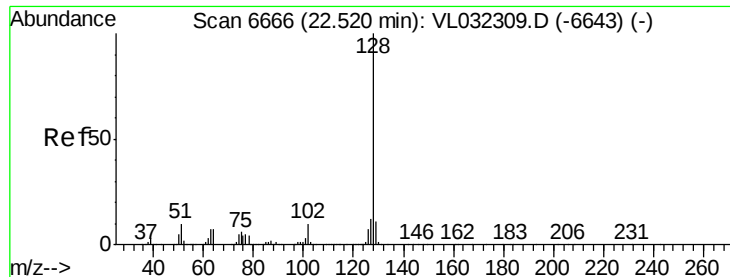
Tot Ion:146 Resp: 232219
 Ion Ratio Lower Upper
 146 100
 111 81.2 25.1 75.3#
 148 107.5 31.9 95.7#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.081 ppbv
 RT: 23.62 min Scan# 7008
 Delta R.T. -0.01 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Tgt Ion:225 Resp: 10227
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.5 75.7#
 227 0.0 51.3 76.9#





#79

Naphthalene

Concen: 0.903 ppbv

RT: 22.51 min Scan# 6663

Delta R.T. -0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

Instrument :

MSVOA_L

ClientSampleId :

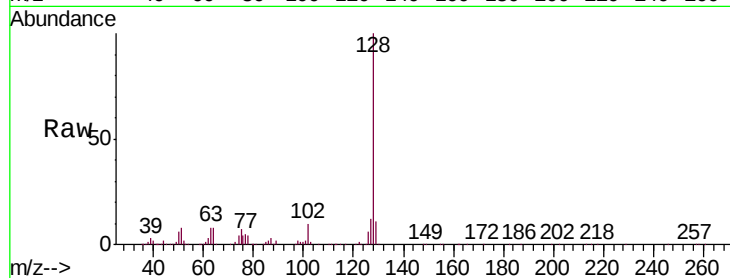
Tot Ion:128 Resp: 545558

Ion Ratio Lower Upper

128 100

127 12.3 9.9 14.9

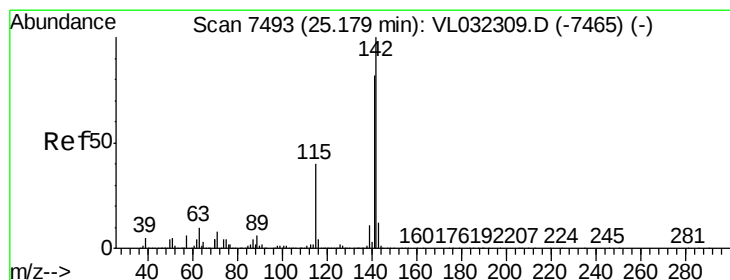
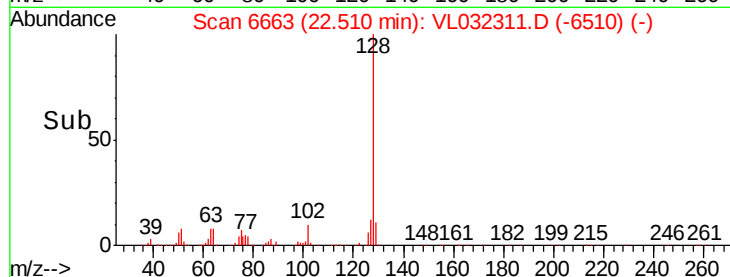
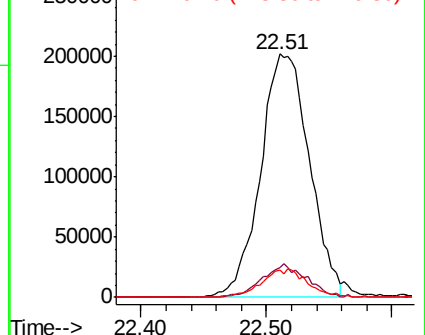
129 11.3 8.8 13.2



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: 0.658 ppbv

RT: 25.19 min Scan# 7495

Delta R.T. 0.01 min

Lab File: VL032311.D

Acq: 27 Jul 2018 1:57

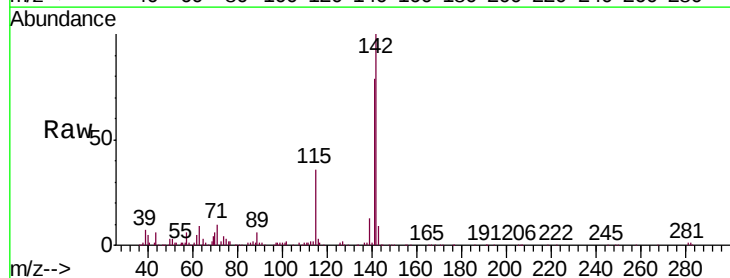
Tgt Ion:142 Resp: 168835

Ion Ratio Lower Upper

142 100

141 88.7 66.7 100.1

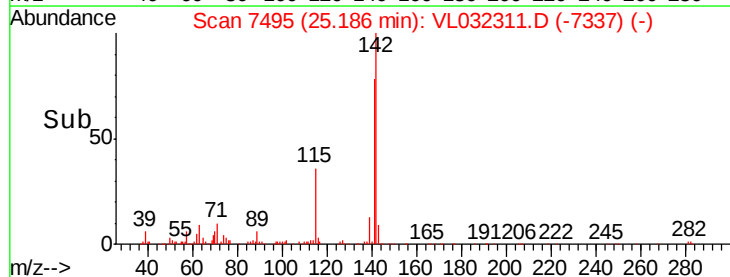
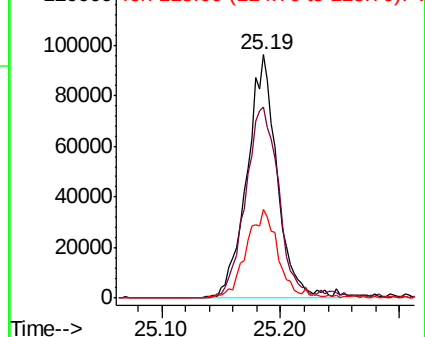
115 39.3 31.1 46.7

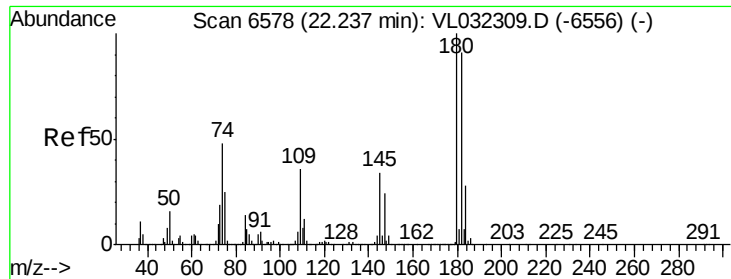


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.460 ppbv
 RT: 22.23 min Scan# 6577
 Delta R.T. -0.00 min
 Lab File: VL032311.D
 Acq: 27 Jul 2018 1:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 135909
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.2 114.2#
 184 0.0 24.3 36.5#

