

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072718\
 Data File : VL032313.D
 Acq On : 27 Jul 2018 3:16
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 27 05:32:09 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	2155541	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.37	114	5202504	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.33	117	5145594	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.66	95	4064988	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.12	85	32206	0.095	ppbv 97
3) Chlorodifluoromethane	3.06	51	22567	0.094	ppbv 95
4) Chloromethane	3.21	50	4618	0.032	ppbv 97
5) Vinyl Chloride	3.34	62	7582	0.056	ppbv # 83
6) Bromomethane	3.57	94	6795	0.093	ppbv 84
7) Chloroethane	3.65	64	4228	0.089	ppbv 92
8) Dichlorotetrafluoroethane	3.27	85	26837	0.091	ppbv 93
9) Propene	3.08	41	9516	0.090	ppbv 95
11) Trichlorofluoromethane	4.06	101	25461	0.090	ppbv 94
12) 1,1,2-Trichlorotrifluoroet	4.61	101	11425	0.063	ppbv # 17
14) Bromoethene	3.85	108	4941	0.060	ppbv # 4
15) Acetone	3.98	43	37733	0.170	ppbv 93
16) 1,3-Butadiene	3.41	39	7713	0.068	ppbv # 80
18) 1,1-Dichloroethene	4.41	96	4440	0.052	ppbv 87
20) Methylene Chloride	4.47	84	14714	0.168	ppbv 90
21) Allyl Chloride	4.54	41	13089	0.088	ppbv 88
22) trans-1,2-Dichloroethene	5.03	96	7715	0.088	ppbv # 48
24) 1,1-Dichloroethane	5.15	63	25528	0.088	ppbv 96
25) Ethyl Acetate	5.85	43	35459	0.072	ppbv # 87
26) Hexane	5.85	57	8878	0.040	ppbv # 1
27) Carbon Disulfide	4.68	76	15419	0.077	ppbv # 59
29) Chloroform	5.91	83	16494	0.050	ppbv 100
31) cis-1,2-Dichloroethene	5.71	61	9861	0.046	ppbv 96
32) 1,1,1-Trichloroethane	6.69	97	23789	0.071	ppbv 91
34) 2-Butanone	5.43	43	25335	0.070	ppbv 97
36) Benzene	7.08	78	31409	0.061	ppbv # 93
37) 1,2-Dichloroethane	6.48	62	22842	0.076	ppbv 98
38) Trichloroethene	8.04	130	14289	0.082	ppbv # 69
39) 1,2-Dichloropropane	7.37	63	1469524	6.927	ppbv # 27
42) Bromodichloromethane	7.99	83	17496	0.044	ppbv 94
45) t-1,3-Dichloropropene	9.49	75	8797	0.034	ppbv 95
47) 1,1,2-Trichloroethane	9.69	97	10240	0.046	ppbv # 83
49) Bromoform	13.29	173	16015	0.057	ppbv 92
52) Tetrachloroethene	11.46	164	10831	0.061	ppbv # 75
53) Toluene	10.03	91	25610	0.041	ppbv 94
54) 1,2-Dibromoethane	10.84	107	11682	0.036	ppbv 86
63) 1,1,2,2-Tetrachloroethane	13.93	83	19622	0.037	ppbv # 23
70) n-Butylbenzene	18.80	91	29556	0.031	ppbv # 51
76) 1,4-Dichlorobenzene	17.40	146	13848	0.035	ppbv # 16
77) 1,2-Dichlorobenzene	18.08	146	14293	0.037	ppbv # 1
78) Hexachloro-1,3-Butadiene	23.63	225	6183	0.049	ppbv # 1

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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

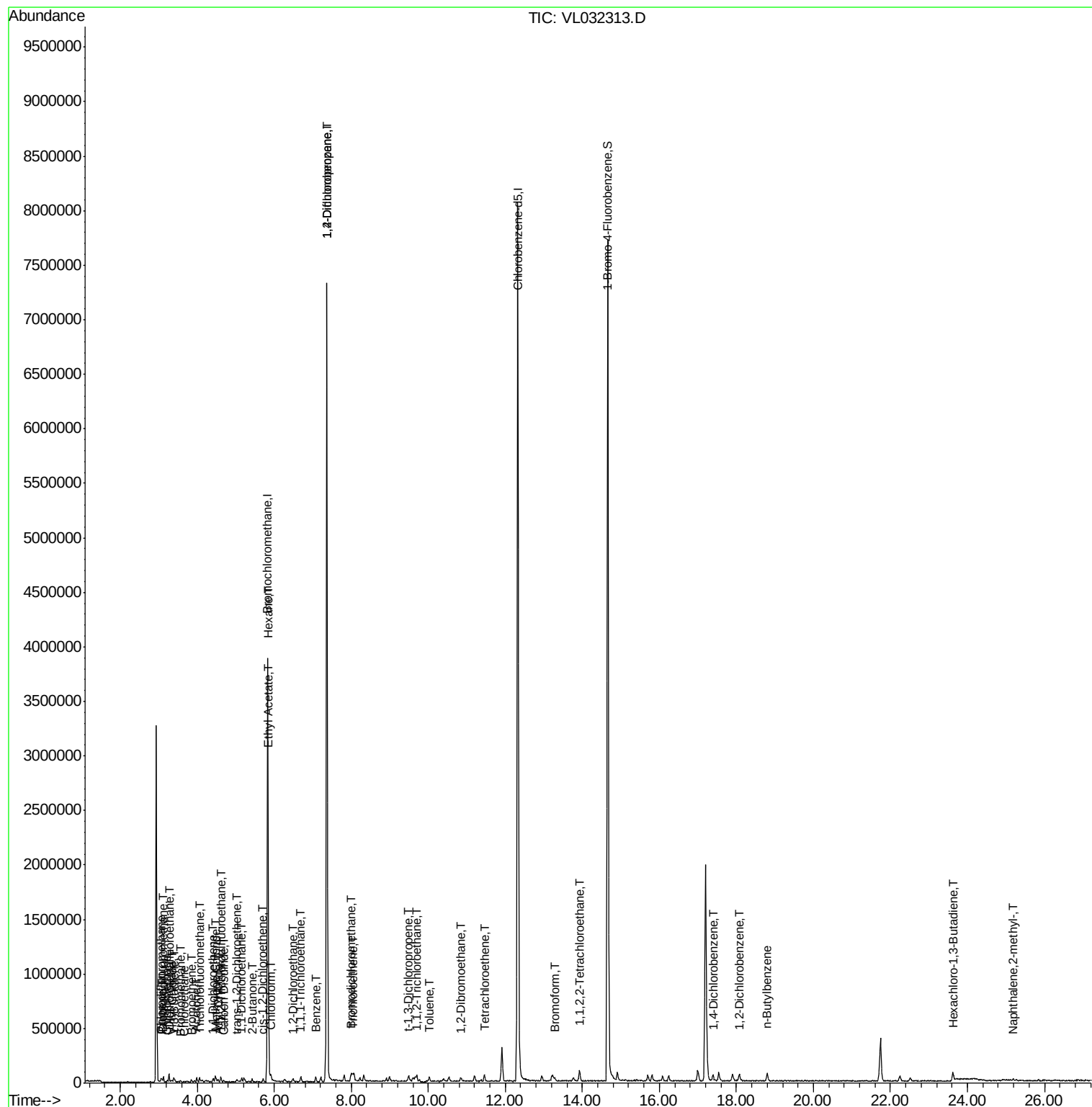
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	25.19	142	8335	0.032	ppbv	# 86

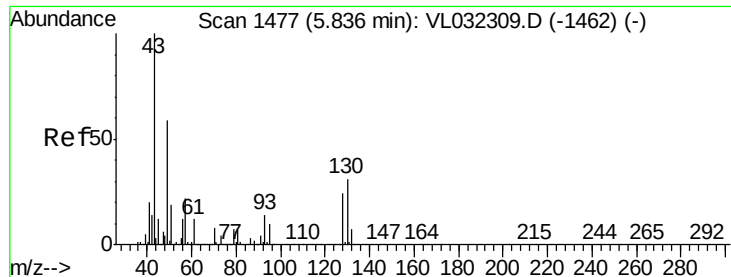
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.83 min Scan# 1475

Delta R.T. -0.01 min

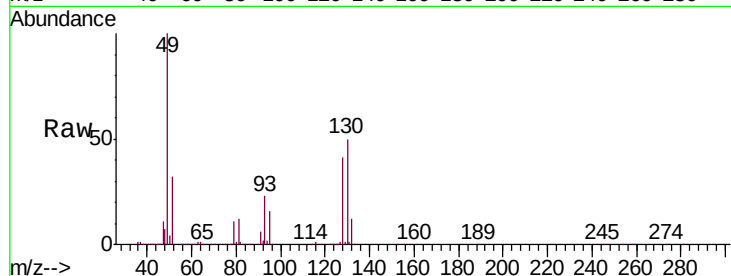
Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 215541

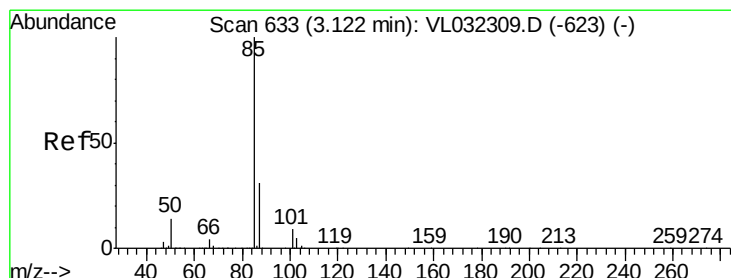
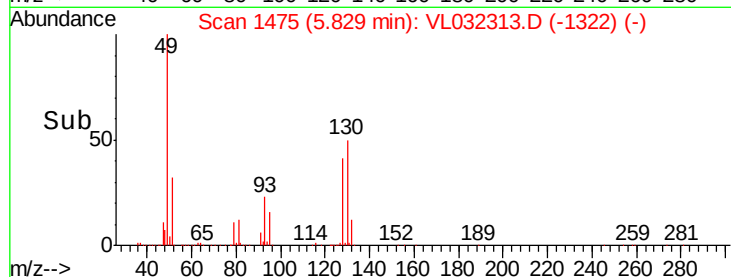
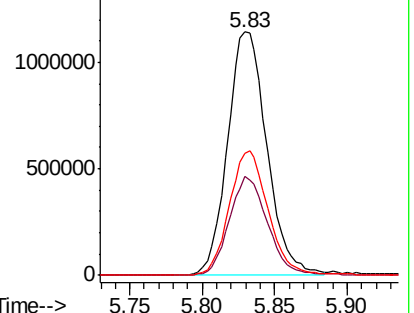
Ion	Ratio	Lower	Upper
49	100		
128	40.0	20.2	60.6
130	51.2	25.8	77.3



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



#2

Dichlorodifluoromethane

Concen: 0.095 ppbv

RT: 3.12 min Scan# 633

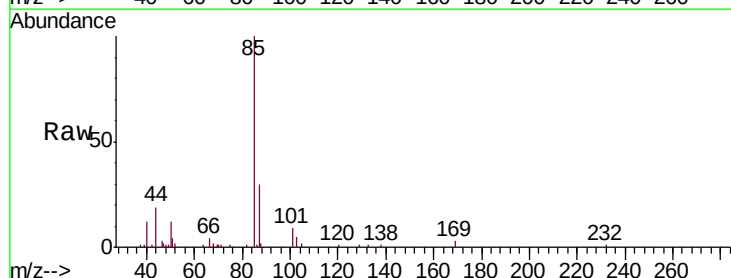
Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

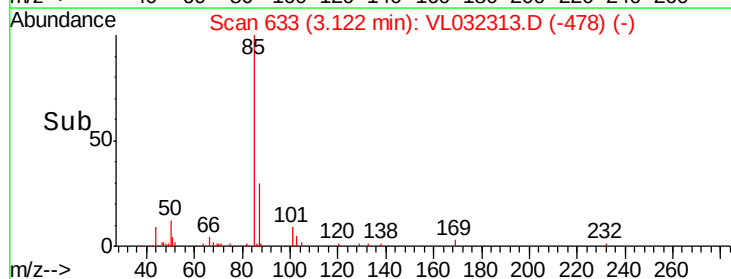
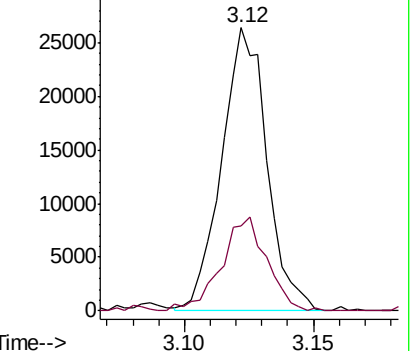
Tgt Ion: 85 Resp: 32206

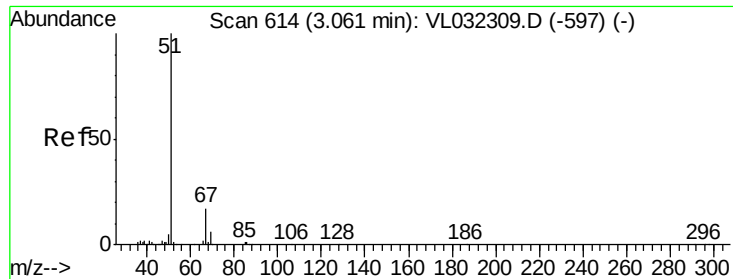
Ion	Ratio	Lower	Upper
85	100		
87	29.9	25.2	37.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

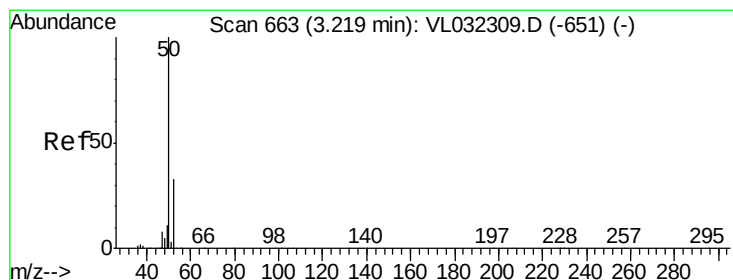
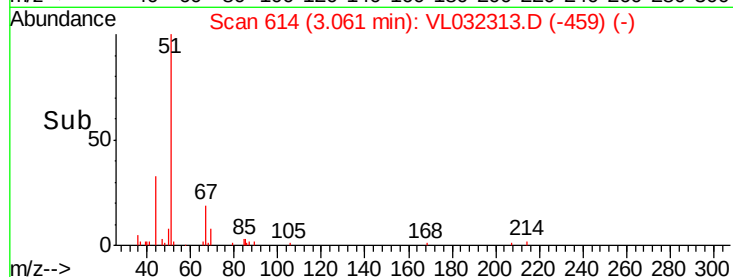
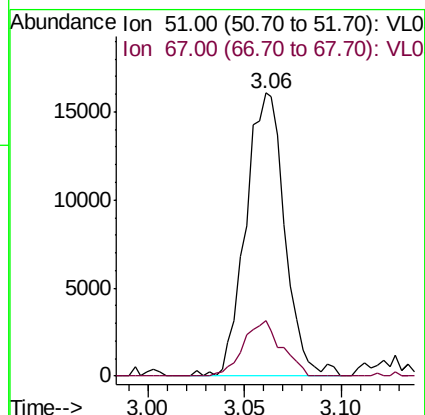
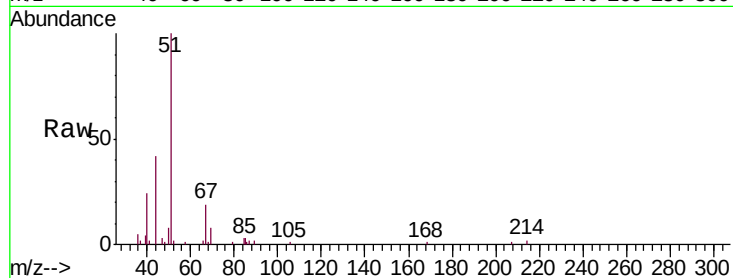




#3
Chlorodifluoromethane
Concen: 0.094 ppbv
RT: 3.06 min Scan# 614
Delta R.T. -0.00 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

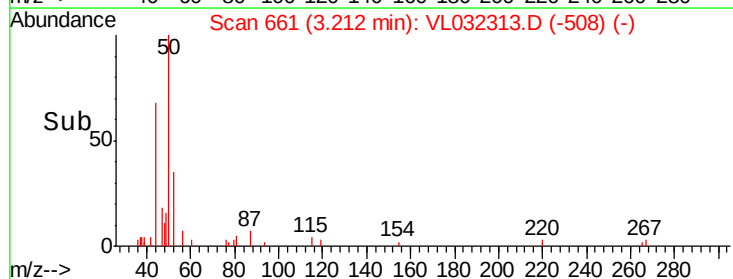
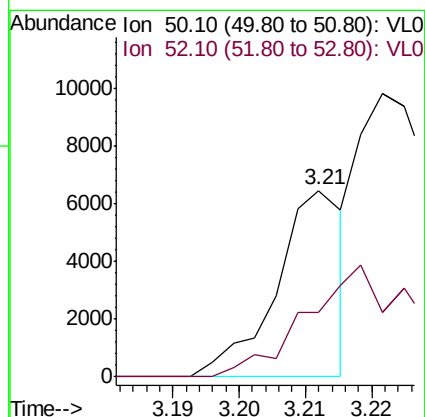
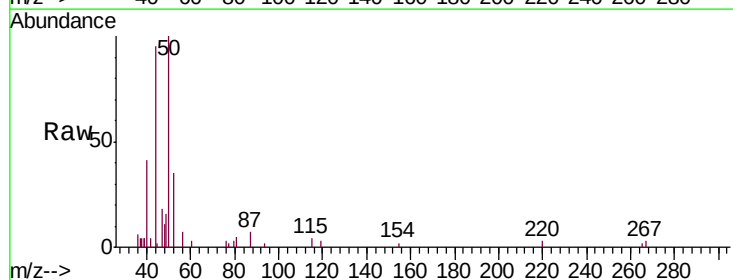
Instrument :
MSVOA_L
ClientSampleId :

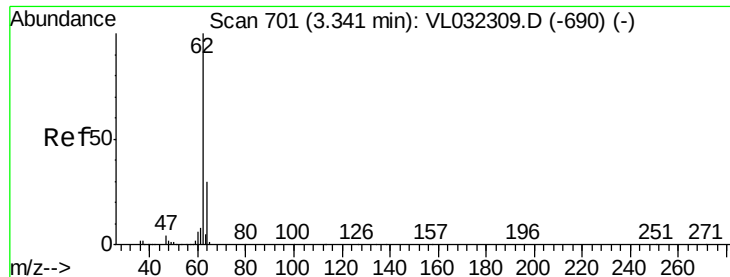
Tot Ion: 51 Resp: 22567
Ion Ratio Lower Upper
51 100
67 19.0 13.5 20.3



#4
Chloromethane
Concen: 0.032 ppbv
RT: 3.21 min Scan# 661
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Tgt Ion: 50 Resp: 4618
Ion Ratio Lower Upper
50 100
52 34.5 26.2 39.4





#5

Vinyl Chloride

Concen: 0.056 ppbv

RT: 3.34 min Scan# 700

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

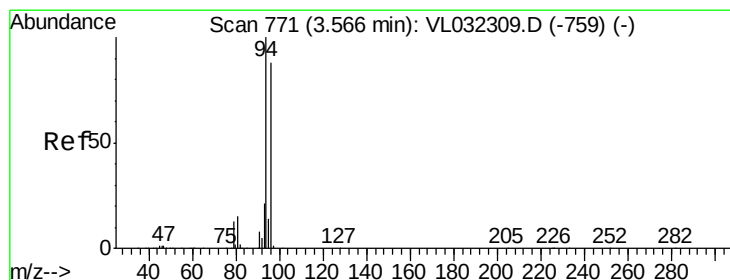
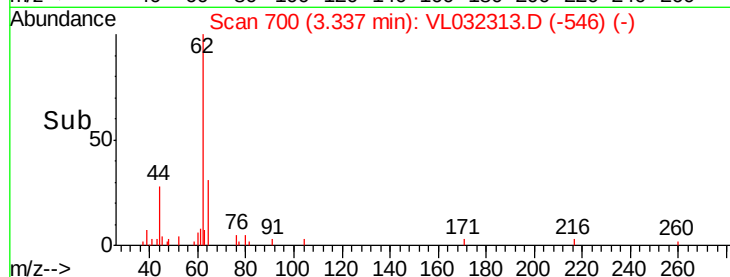
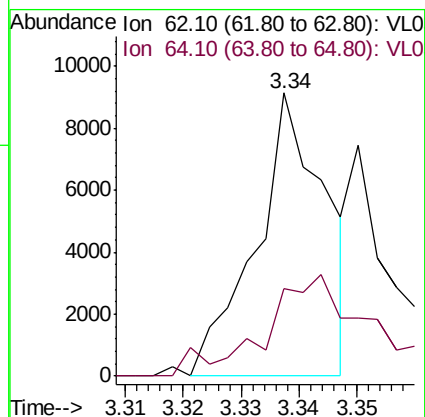
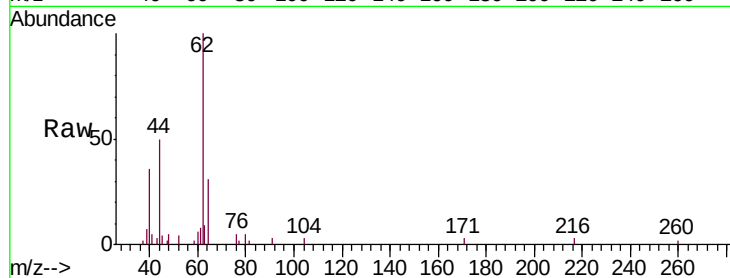
ClientSampleId :

Tot Ion: 62 Resp: 7582

Ion Ratio Lower Upper

62 100

64 20.8 24.1 36.1#



#6

Bromomethane

Concen: 0.093 ppbv

RT: 3.57 min Scan# 771

Delta R.T. -0.00 min

Lab File: VL032313.D

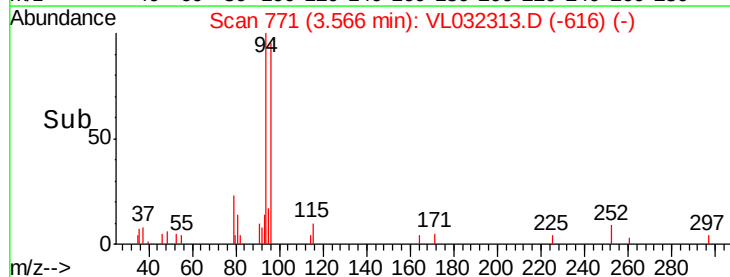
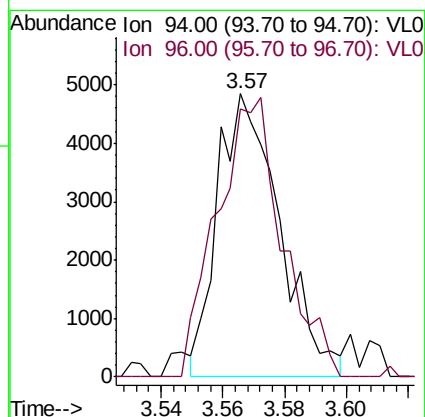
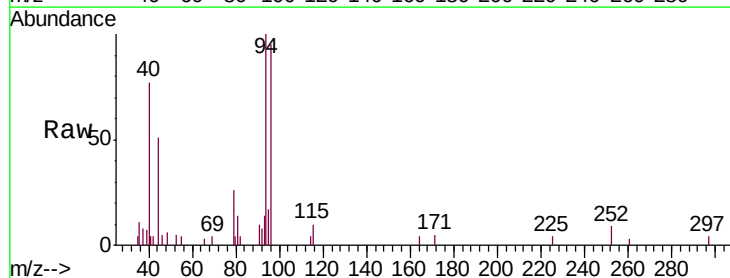
Acq: 27 Jul 2018 3:16

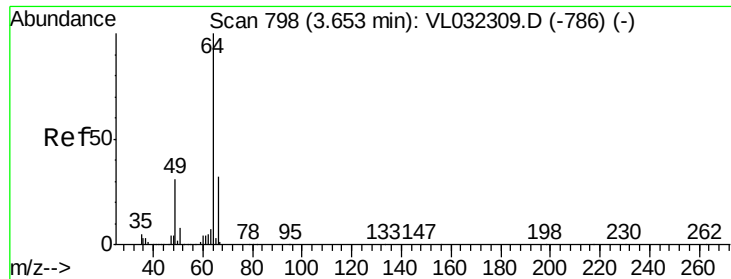
Tgt Ion: 94 Resp: 6795

Ion Ratio Lower Upper

94 100

96 102.5 70.2 105.4





#7

Chloroethane

Concen: 0.089 ppbv

RT: 3.65 min Scan# 798

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

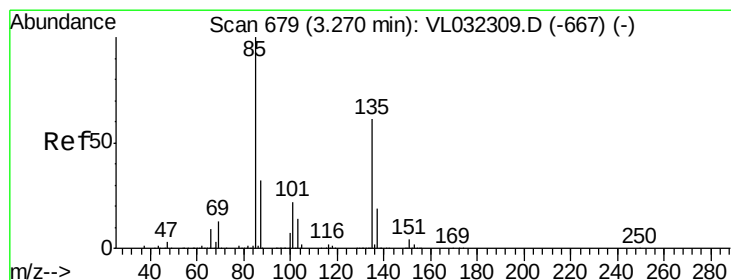
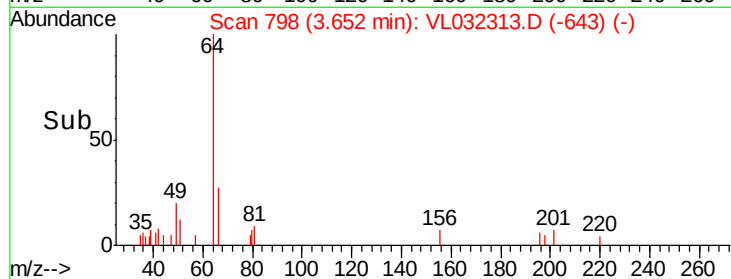
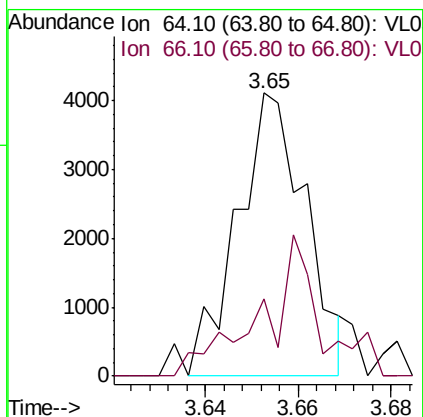
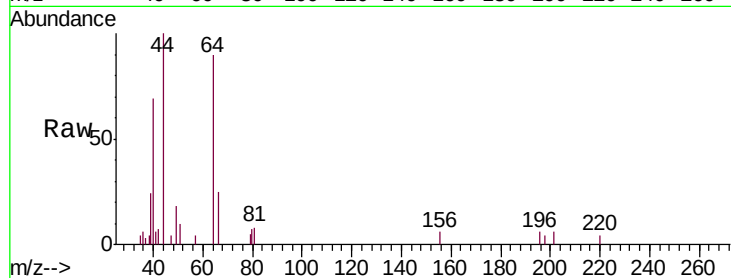
ClientSampleId :

Tot Ion: 64 Resp: 4228

Ion Ratio Lower Upper

64 100

66 27.4 25.7 38.5



#8

Dichlorotetrafluoroethane

Concen: 0.091 ppbv

RT: 3.27 min Scan# 678

Delta R.T. -0.00 min

Lab File: VL032313.D

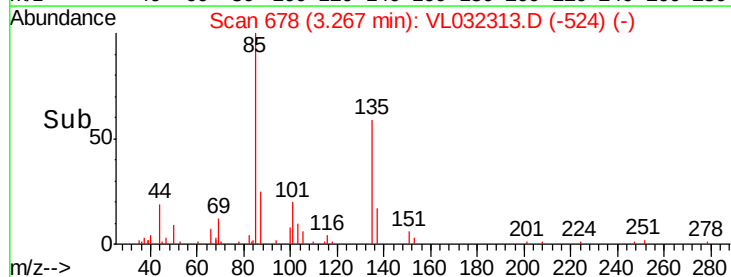
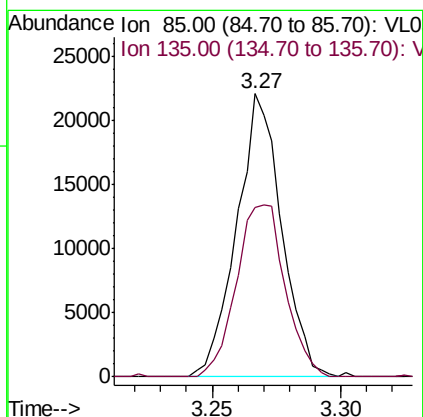
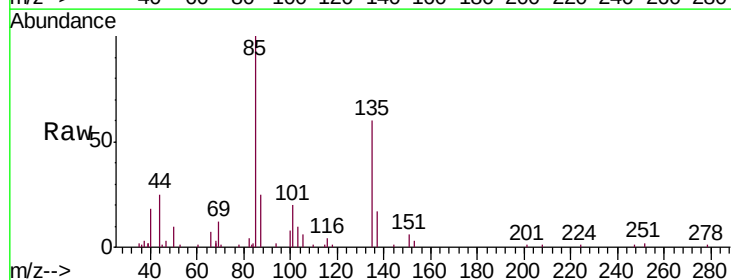
Acq: 27 Jul 2018 3:16

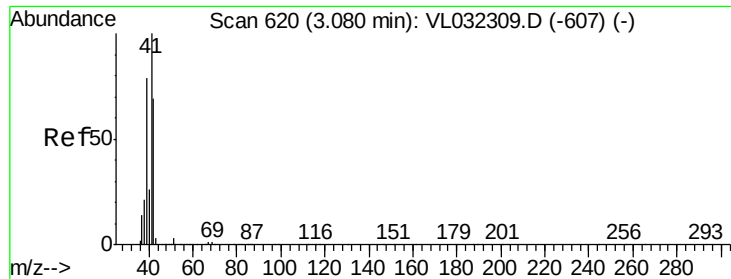
Tgt Ion: 85 Resp: 26837

Ion Ratio Lower Upper

85 100

135 66.2 48.7 73.1





#9

Propene

Concen: 0.090 ppbv

RT: 3.08 min Scan# 621

Delta R.T. 0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

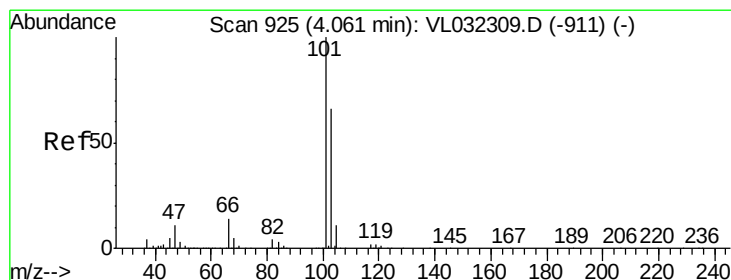
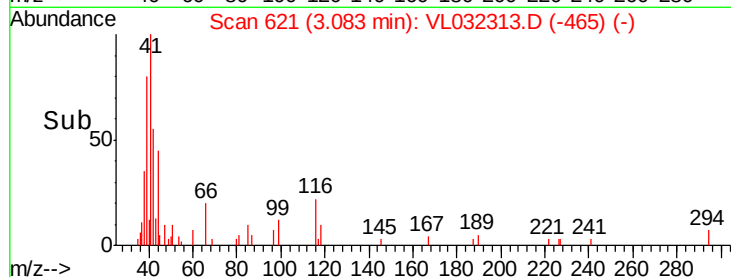
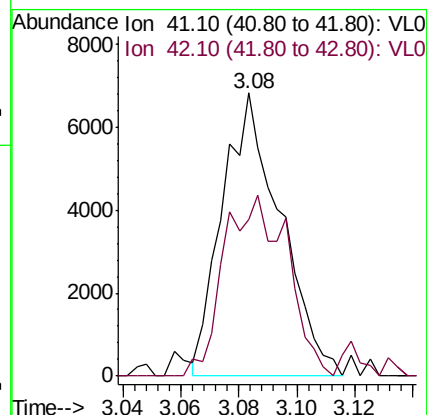
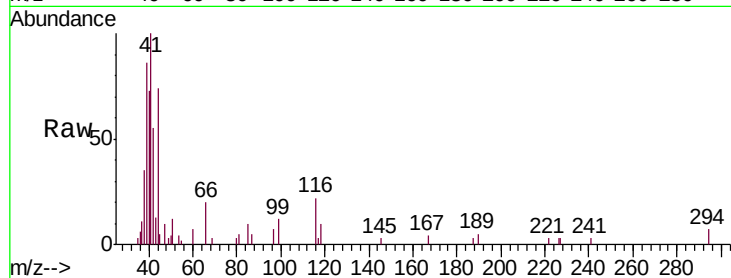
ClientSampleId :

Tot Ion: 41 Resp: 9516

Ion Ratio Lower Upper

41 100

42 74.9 56.8 85.2



#11

Trichlorofluoromethane

Concen: 0.090 ppbv

RT: 4.06 min Scan# 926

Delta R.T. 0.00 min

Lab File: VL032313.D

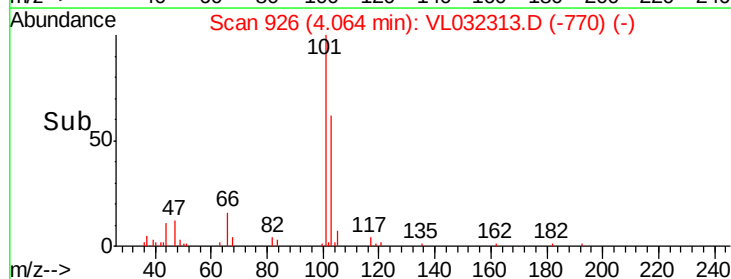
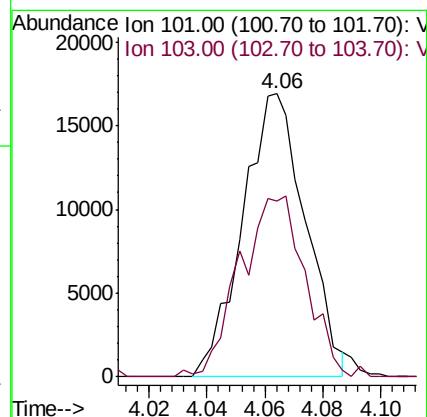
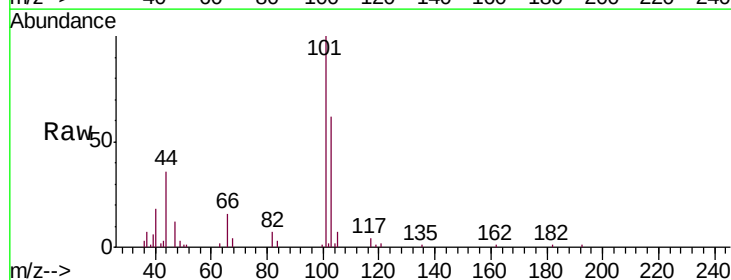
Acq: 27 Jul 2018 3:16

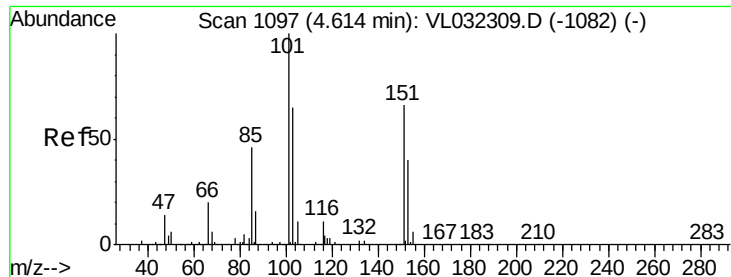
Tgt Ion: 101 Resp: 25461

Ion Ratio Lower Upper

101 100

103 61.1 52.6 78.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.063 ppbv

RT: 4.61 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

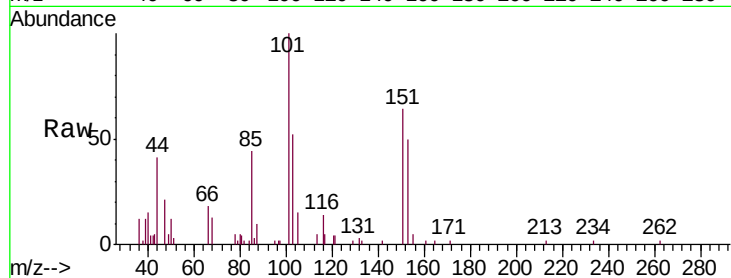
ClientSampleId :

Tot Ion:101 Resp: 11425

Ion Ratio Lower Upper

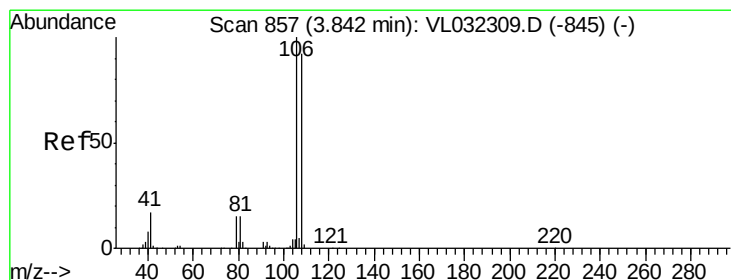
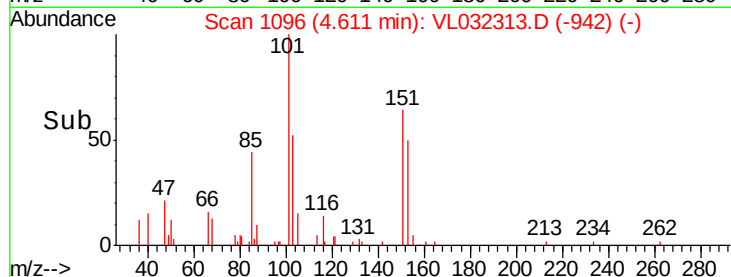
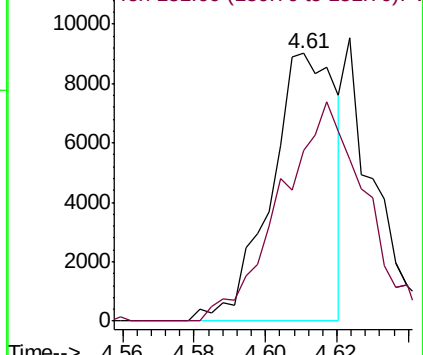
101 100

151 0.0 52.4 78.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#14

Bromoethene

Concen: 0.060 ppbv

RT: 3.85 min Scan# 858

Delta R.T. 0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

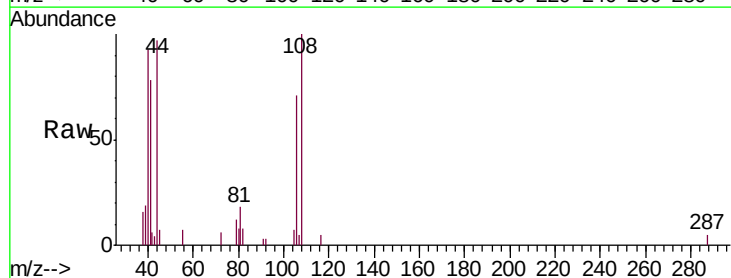
Tgt Ion:108 Resp: 4941

Ion Ratio Lower Upper

108 100

106 0.0 86.0 129.0#

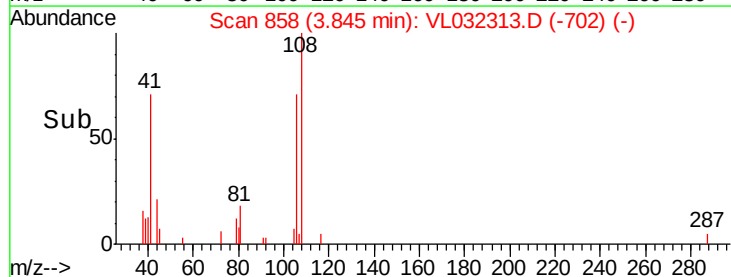
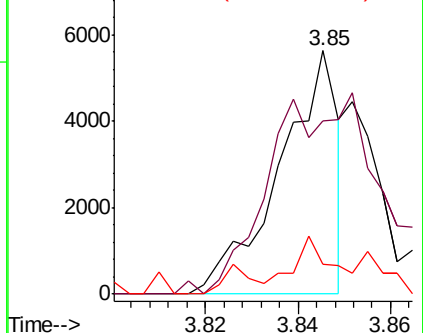
79 35.5 12.8 19.2#

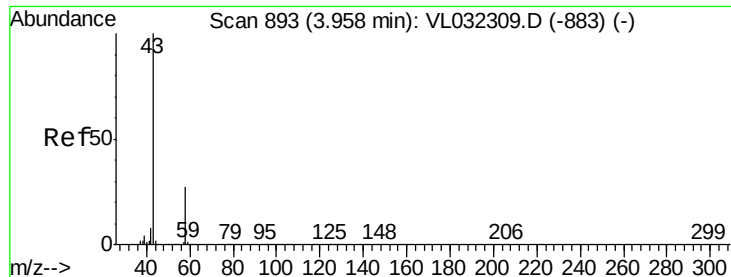


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VLO





#15

Acetone

Concen: 0.170 ppbv

RT: 3.98 min Scan# 901

Delta R.T. 0.03 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

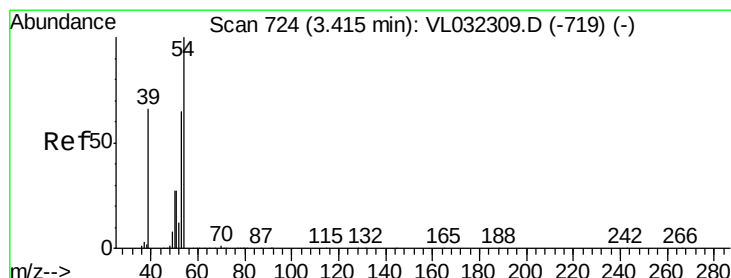
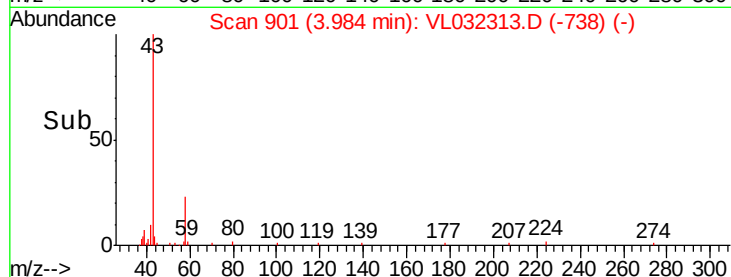
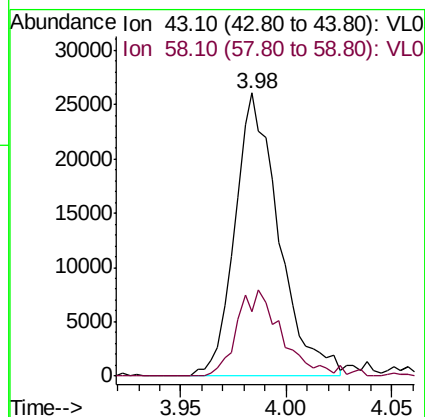
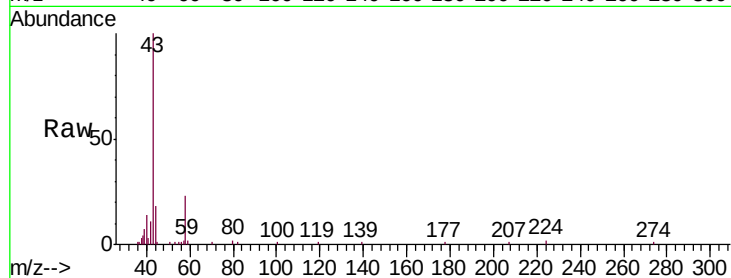
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 37733

Ion Ratio Lower Upper

43 100

58 31.7 22.5 33.7



#16

1,3-Butadiene

Concen: 0.068 ppbv

RT: 3.41 min Scan# 724

Delta R.T. -0.00 min

Lab File: VL032313.D

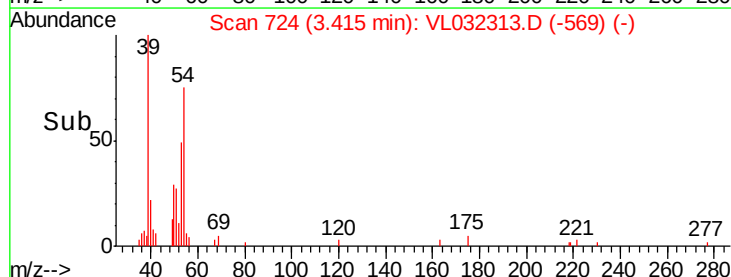
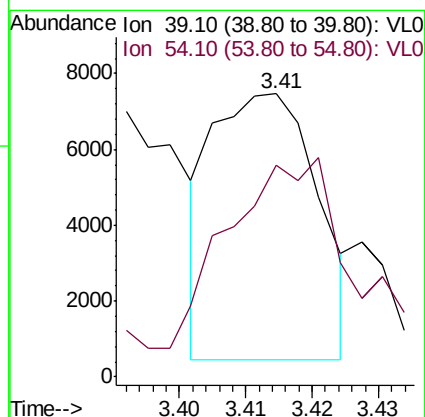
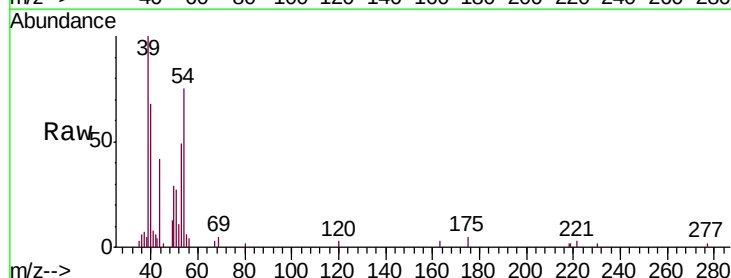
Acq: 27 Jul 2018 3:16

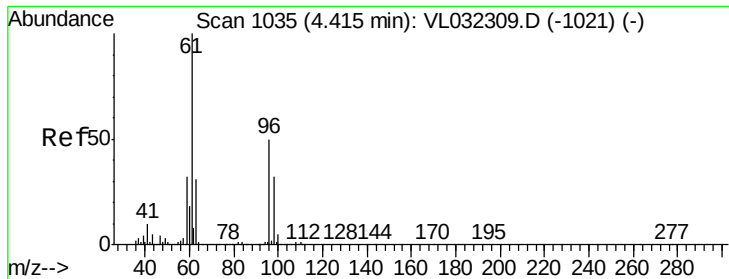
Tgt Ion: 39 Resp: 7713

Ion Ratio Lower Upper

39 100

54 112.3 74.3 111.5#





#18

1,1-Dichloroethene

Concen: 0.052 ppbv

RT: 4.41 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

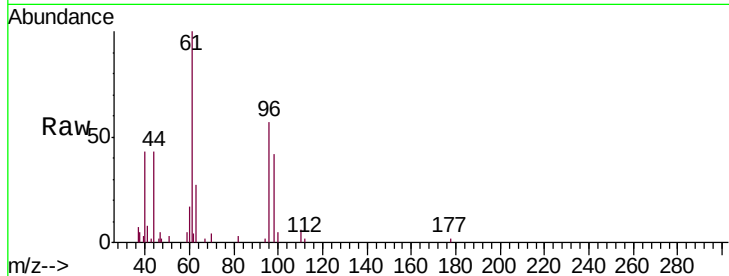
Tot Ion: 96 Resp: 4440

Ion Ratio Lower Upper

96 100

61 174.2 159.0 238.4

98 66.2 51.1 76.7

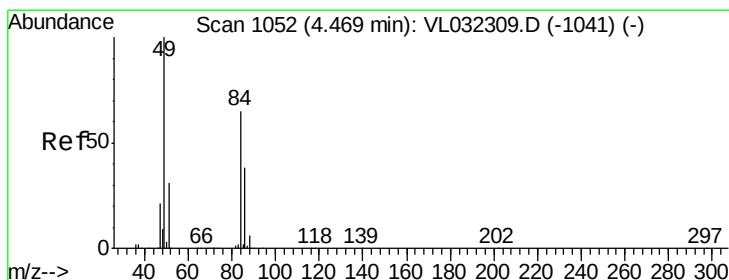
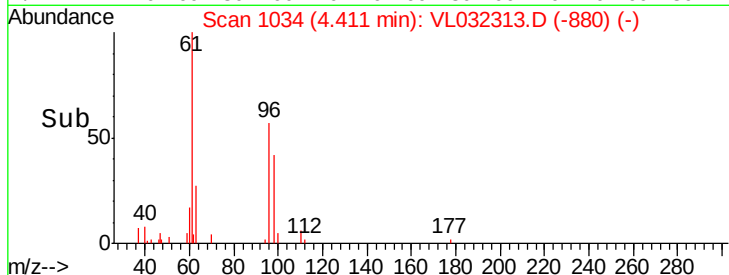
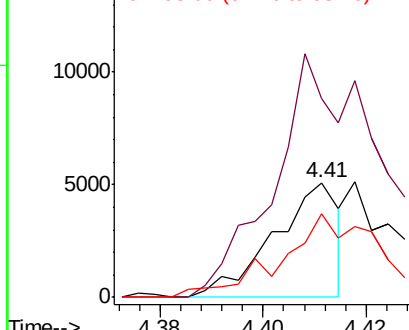


Abundance

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



#20

Methylene Chloride

Concen: 0.168 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion: 84 Resp: 14714

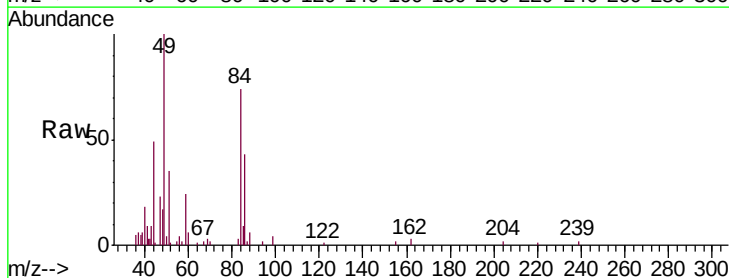
Ion Ratio Lower Upper

84 100

49 134.5 123.4 185.0

51 47.3 38.2 57.2

86 57.7 47.4 71.2



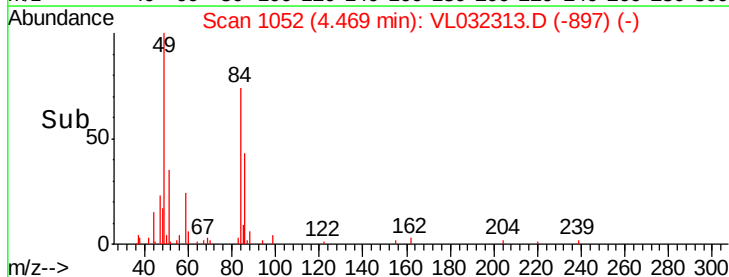
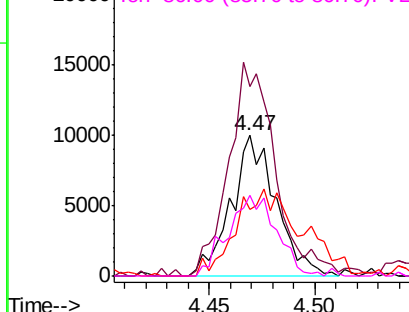
Abundance

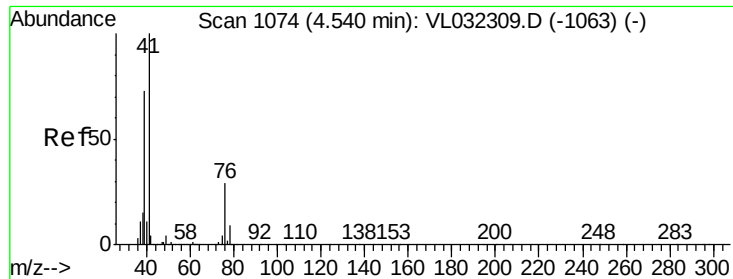
Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.088 ppbv

RT: 4.54 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

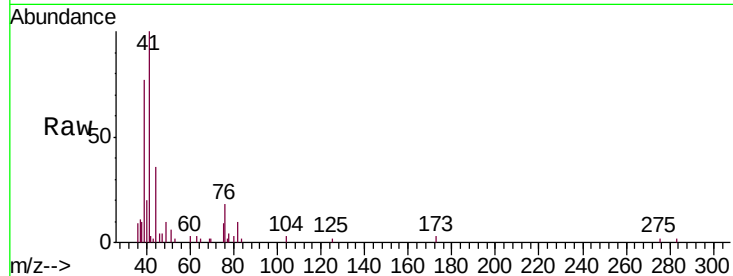
Tot Ion: 41 Resp: 13089

Ion Ratio Lower Upper

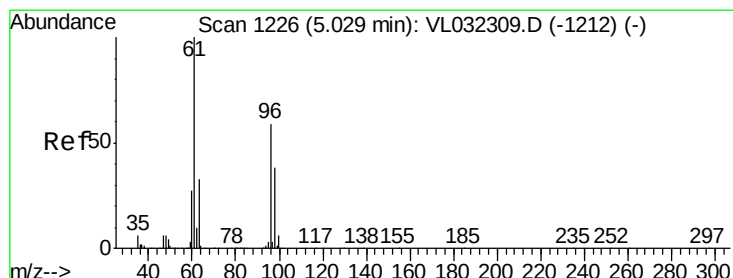
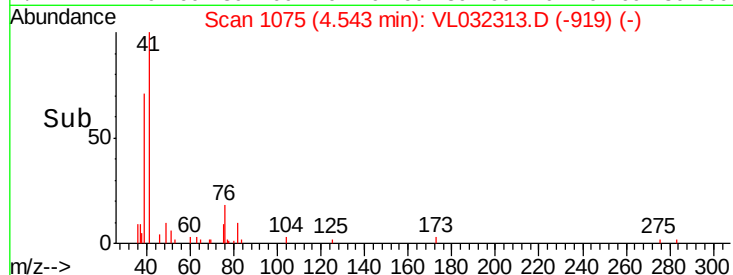
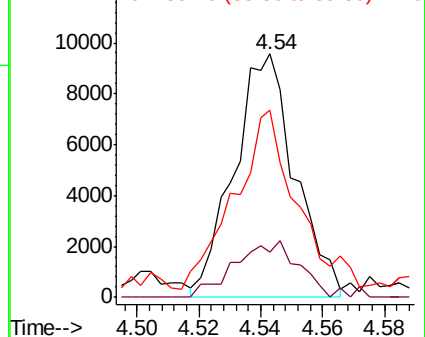
41 100

76 24.8 23.1 34.7

39 84.3 58.2 87.2



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.088 ppbv

RT: 5.03 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

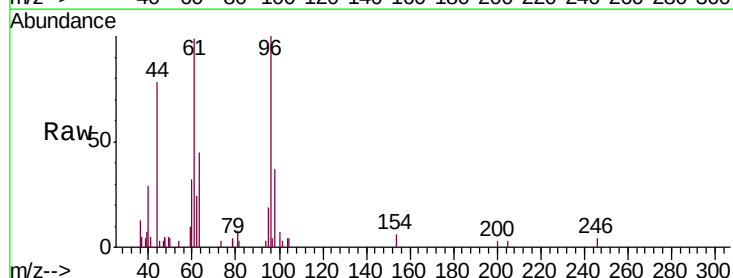
Tgt Ion: 96 Resp: 7715

Ion Ratio Lower Upper

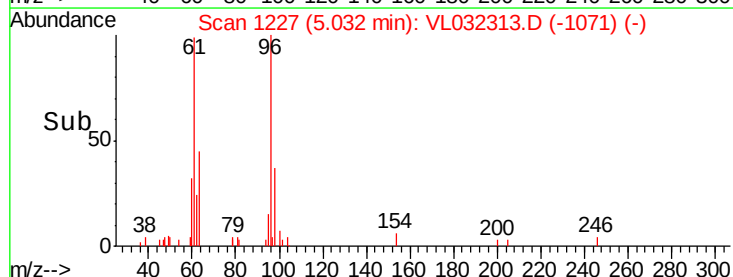
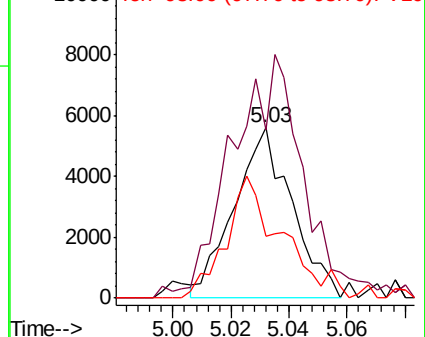
96 100

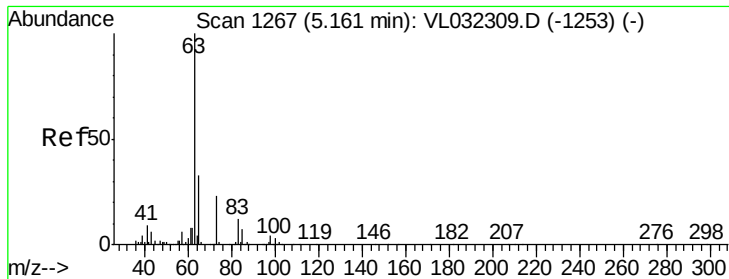
61 92.4 136.5 204.7#

98 32.6 51.3 76.9#



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





#24

1,1-Dichloroethane

Concen: 0.088 ppbv

RT: 5.15 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL032313.D

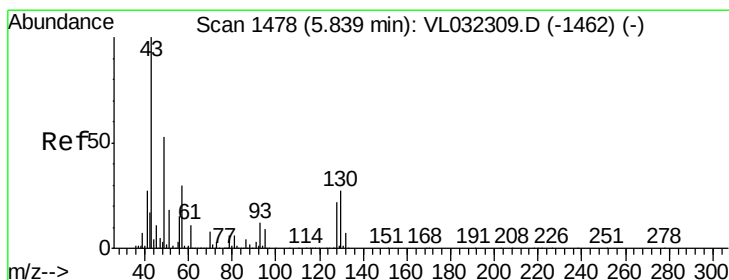
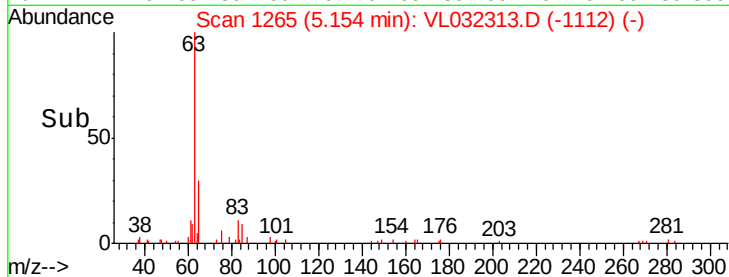
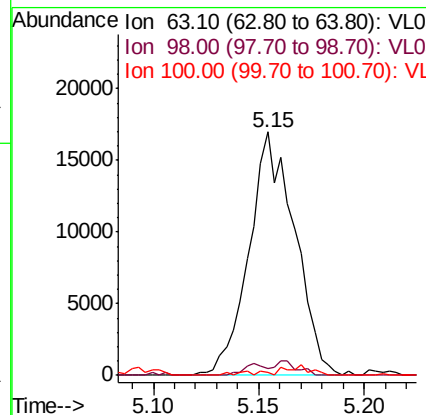
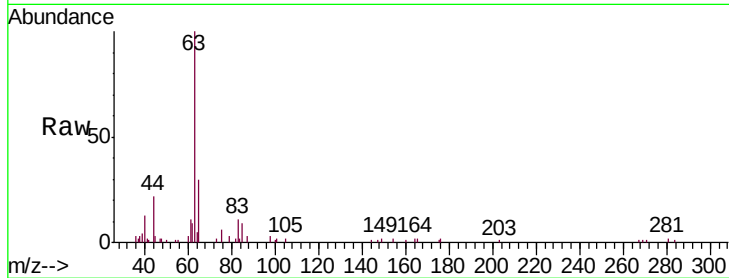
Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	25528
Ion	Ratio	Lower	Upper
63	100		
98	2.7	2.1	6.5
100	3.5	1.3	3.8



#25

Ethyl Acetate

Concen: 0.072 ppbv

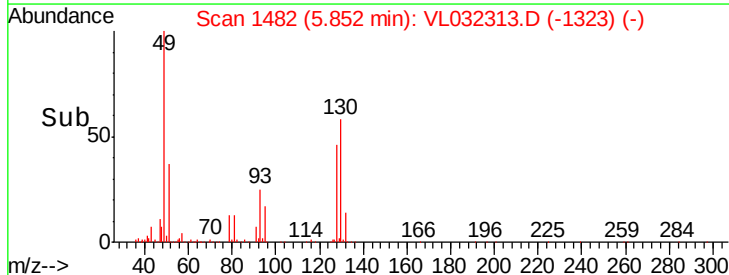
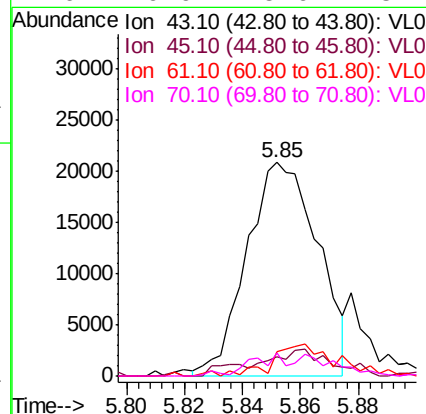
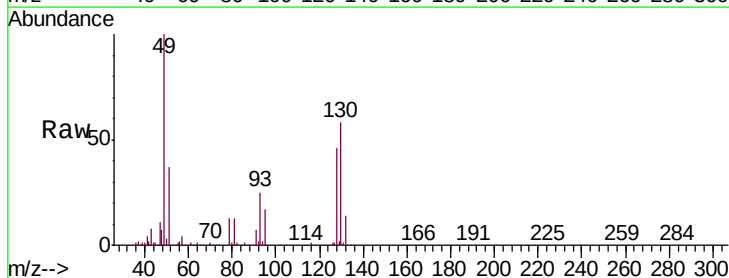
RT: 5.85 min Scan# 1482

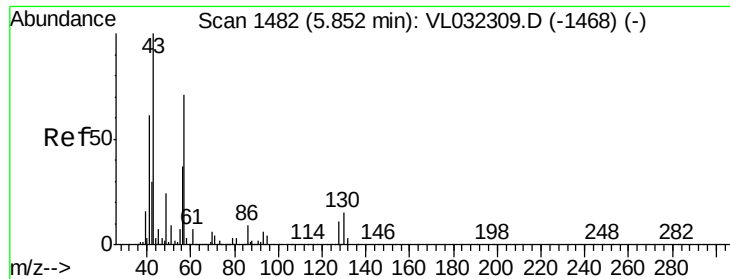
Delta R.T. 0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion:	43	Resp:	35459
Ion	Ratio	Lower	Upper
43	100		
45	14.6	8.1	12.1#
61	14.7	7.4	11.0#
70	10.9	5.6	8.4#





#26

Hexane

Concen: 0.040 ppbv

RT: 5.85 min Scan# 1480

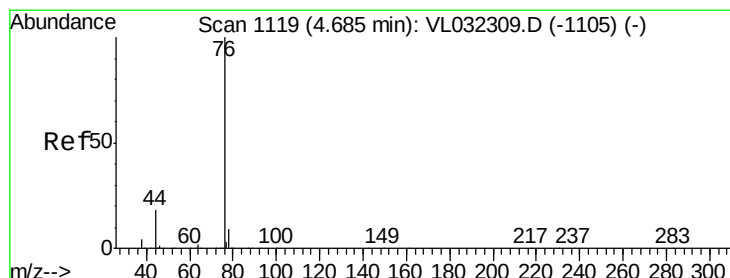
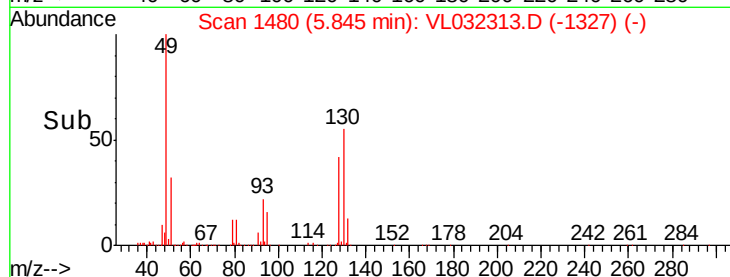
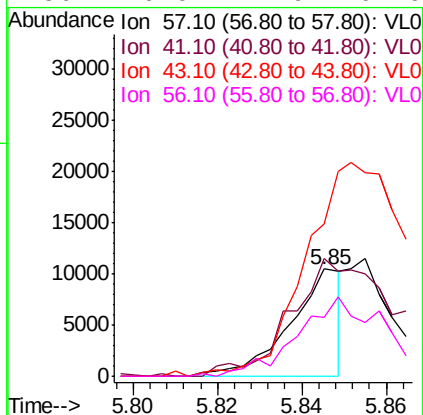
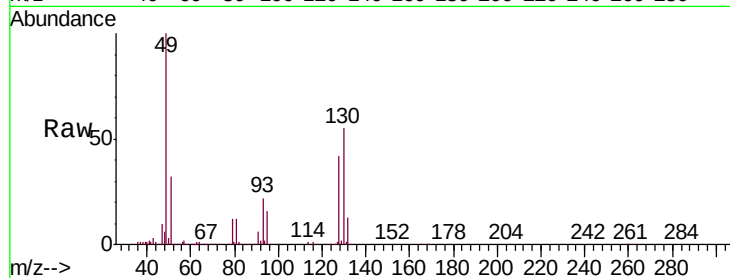
Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	57	Resp:	8878
Ion	Ratio	Lower	Upper
57	100		
41	219.1	68.1	102.1#
43	0.0	177.4	266.2#
56	0.0	41.9	62.9#



#27

Carbon Disulfide

Concen: 0.077 ppbv

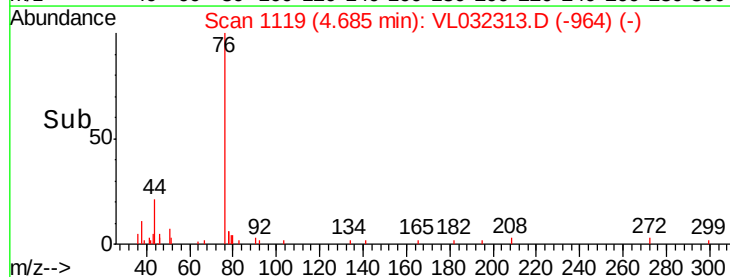
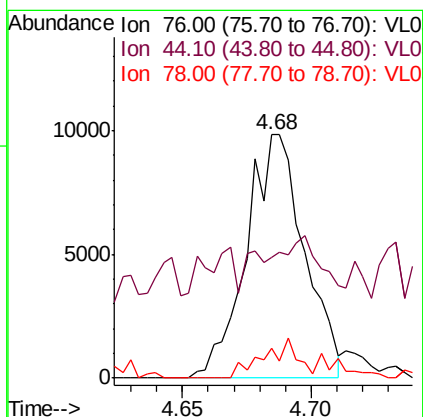
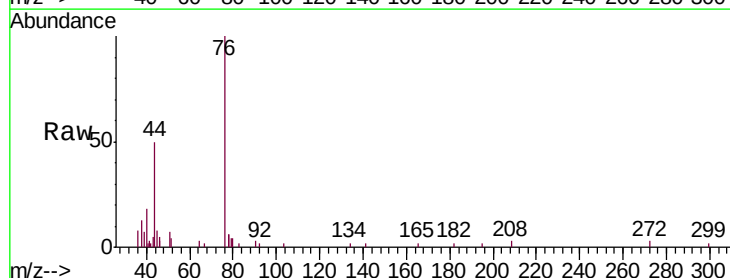
RT: 4.68 min Scan# 1119

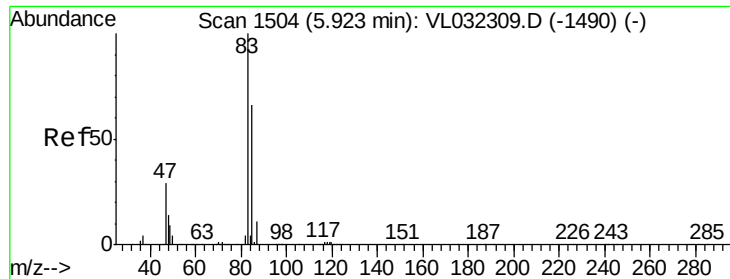
Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion:	76	Resp:	15419
Ion	Ratio	Lower	Upper
76	100		
44	42.7	14.0	21.0#
78	13.6	7.5	11.3#

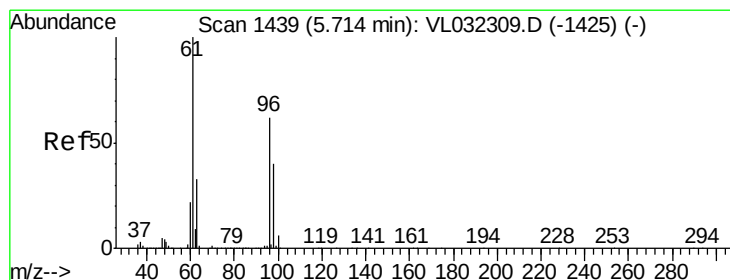
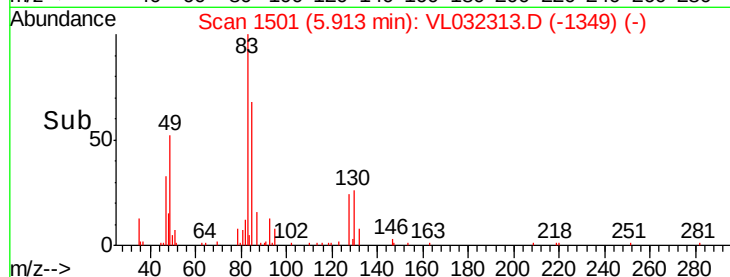
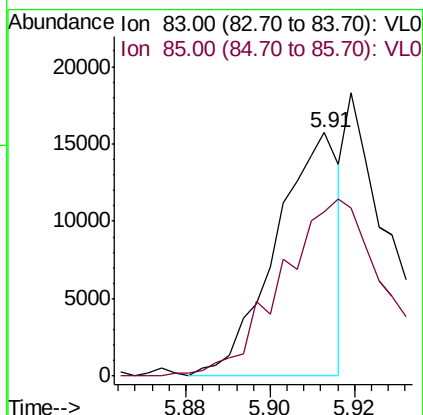
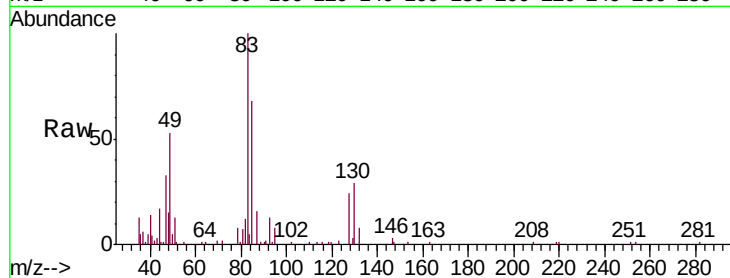




#29
Chloroform
Concen: 0.050 ppbv
RT: 5.91 min Scan# 1501
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

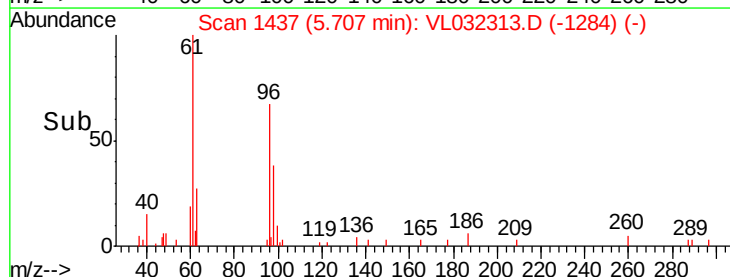
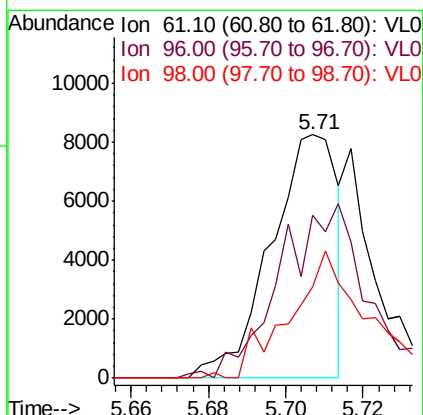
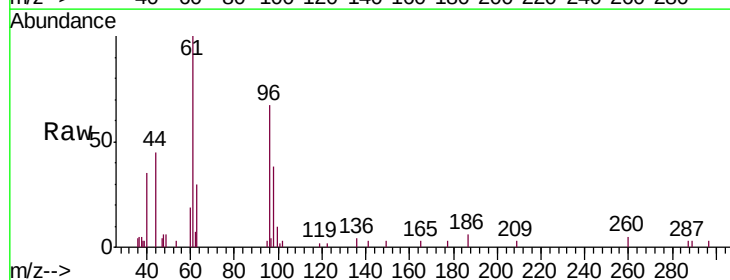
Instrument :
MSVOA_L
ClientSampleId :

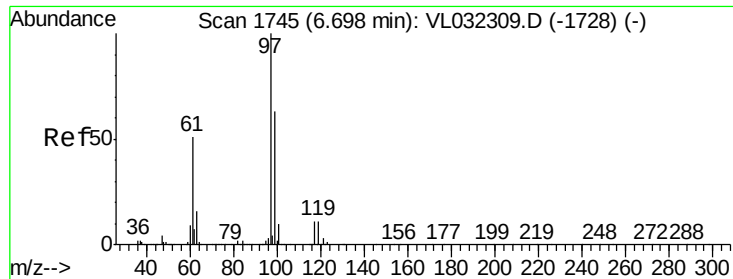
Tot Ion: 83 Resp: 16494
Ion Ratio Lower Upper
83 100
85 66.3 52.9 79.3



#31
cis-1,2-Dichloroethene
Concen: 0.046 ppbv
RT: 5.71 min Scan# 1437
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Tgt Ion: 61 Resp: 9861
Ion Ratio Lower Upper
61 100
96 65.3 49.8 74.6
98 37.6 31.8 47.6





#32

1,1,1-Trichloroethane

Concen: 0.071 ppbv

RT: 6.69 min Scan# 1743

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

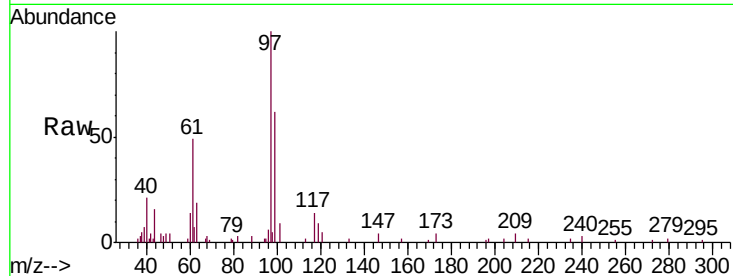
Tot Ion: 97 Resp: 23789

Ion Ratio Lower Upper

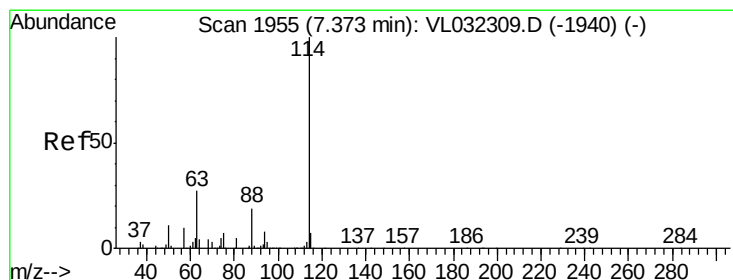
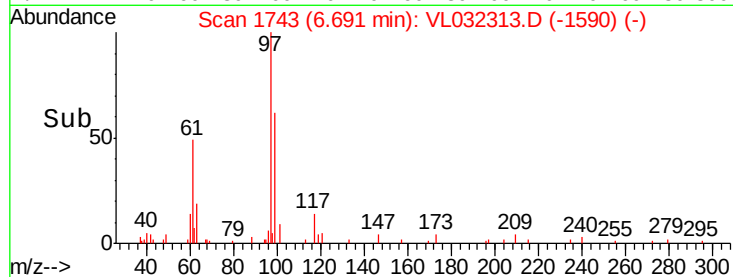
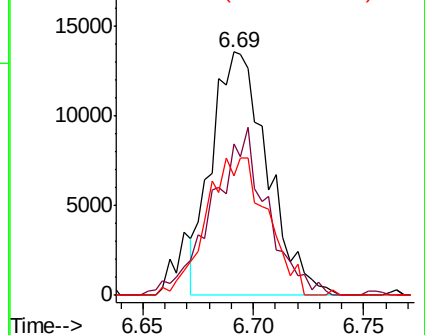
97 100

99 67.5 50.9 76.3

61 62.4 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# 1953

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

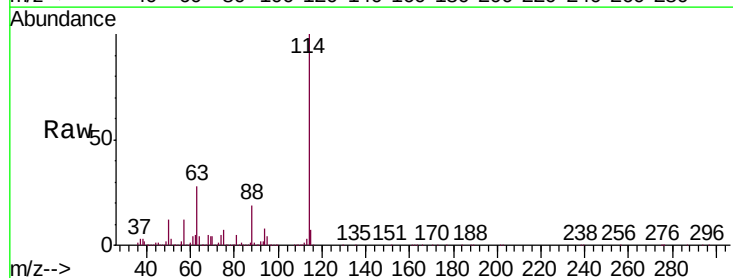
Tgt Ion: 114 Resp: 5202504

Ion Ratio Lower Upper

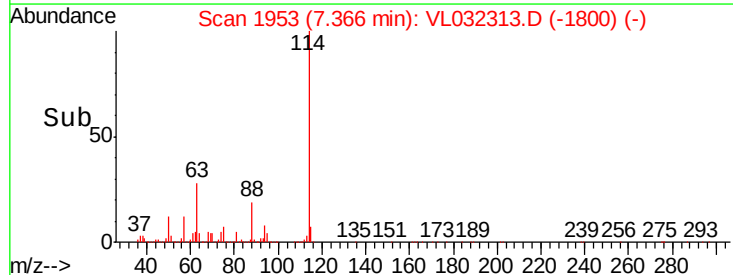
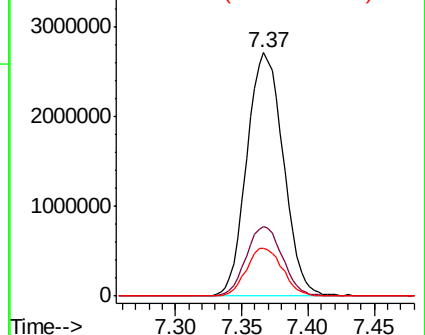
114 100

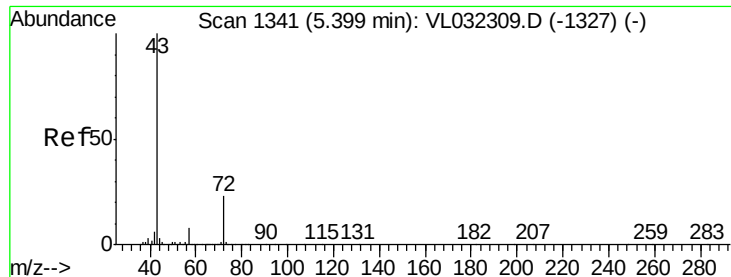
63 28.5 22.4 33.6

88 19.5 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

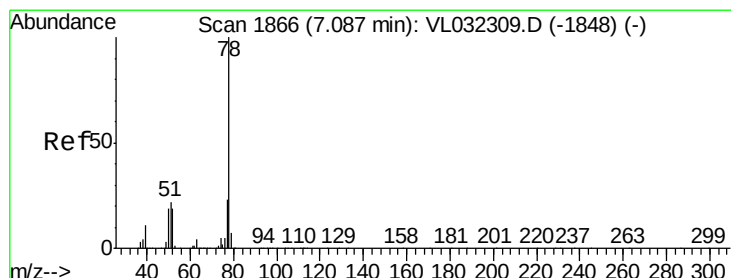
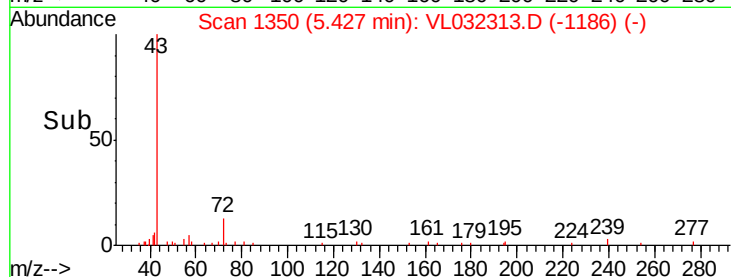
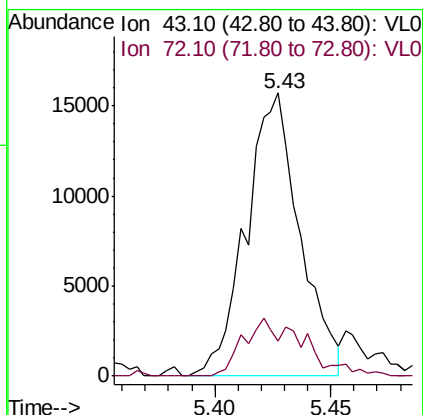
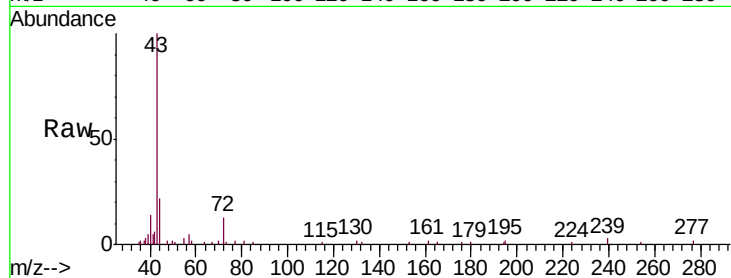




#34
2-Butanone
Concen: 0.070 ppbv
RT: 5.43 min Scan# 1350
Delta R.T. 0.03 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

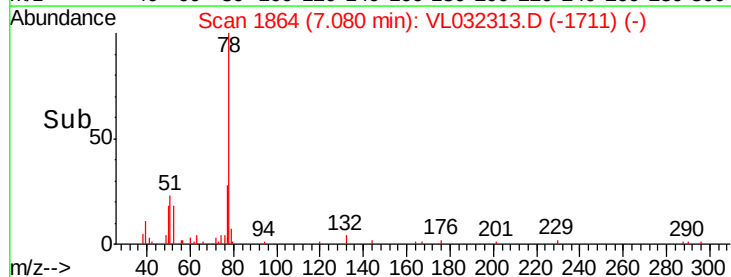
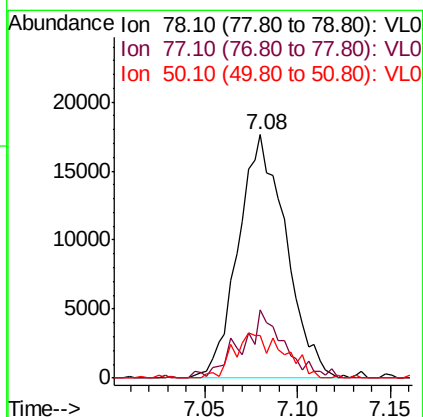
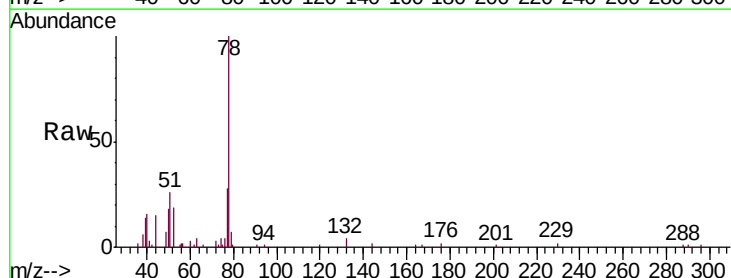
Instrument :
MSVOA_L
ClientSampleId :

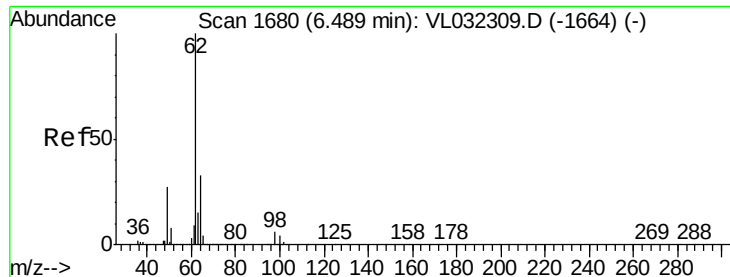
Tot Ion: 43 Resp: 25335
Ion Ratio Lower Upper
43 100
72 23.1 17.4 26.2



#36
Benzene
Concen: 0.061 ppbv
RT: 7.08 min Scan# 1864
Delta R.T. -0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Tgt Ion: 78 Resp: 31409
Ion Ratio Lower Upper
78 100
77 28.2 18.4 27.6#
50 17.8 15.3 22.9

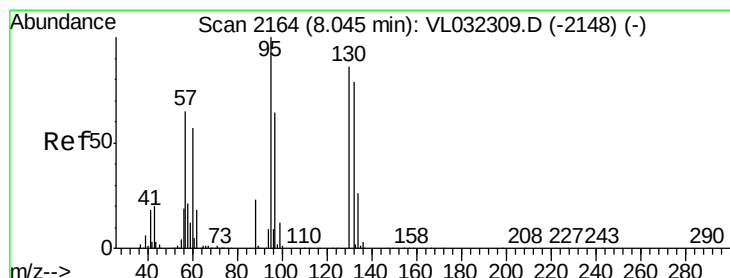
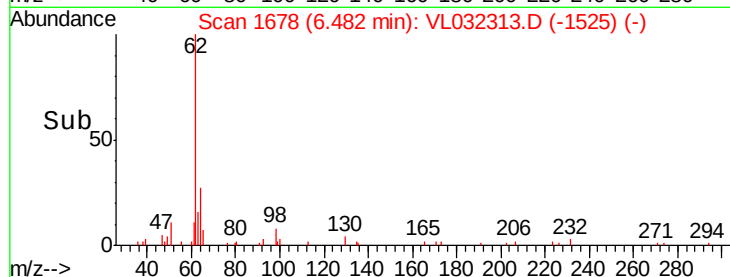
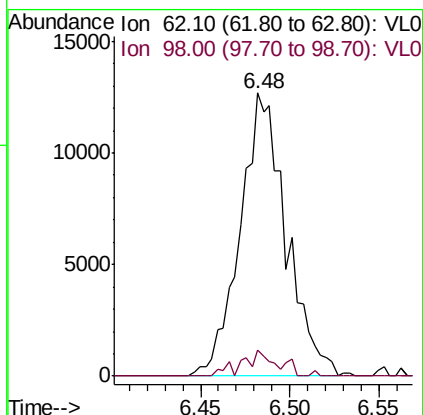
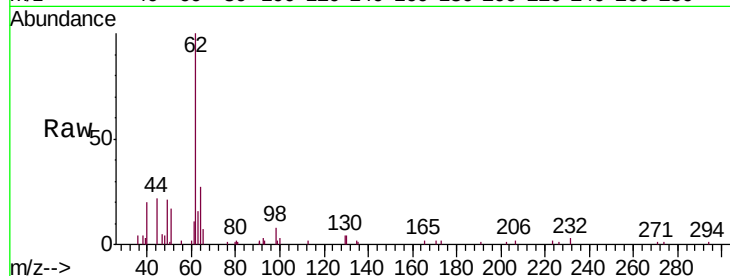




#37
 1,2-Dichloroethane
 Concen: 0.076 ppbv
 RT: 6.48 min Scan# 1678
 Delta R.T. -0.01 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

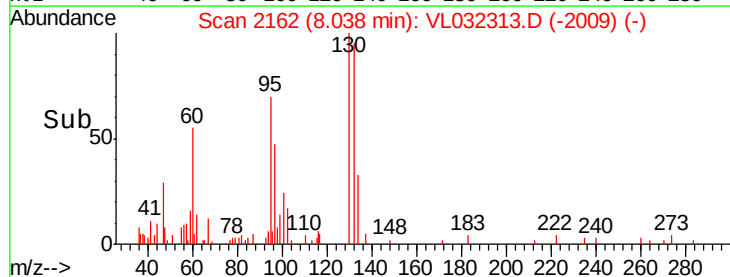
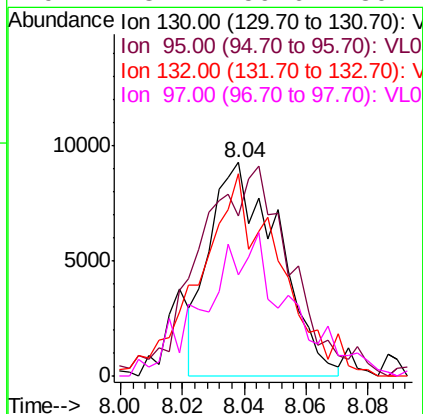
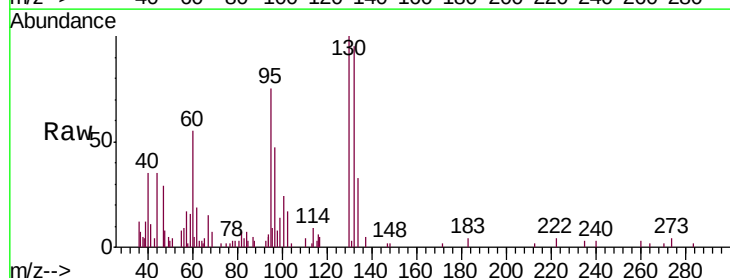
Instrument :
 MSVOA_L
 ClientSampleId :

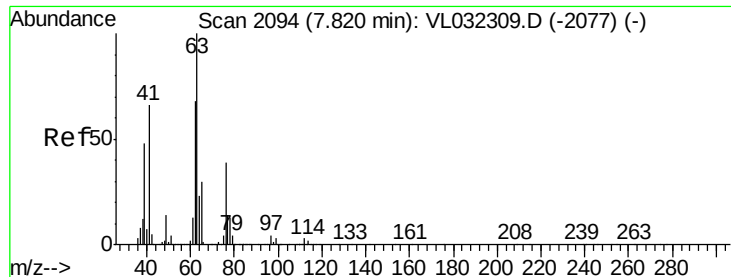
Tot Ion: 62 Resp: 22842
 Ion Ratio Lower Upper
 62 100
 98 7.1 5.1 7.7



#38
 Trichloroethene
 Concen: 0.082 ppbv
 RT: 8.04 min Scan# 2162
 Delta R.T. -0.01 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

Tgt Ion: 130 Resp: 14289
 Ion Ratio Lower Upper
 130 100
 95 68.2 92.9 139.3#
 132 77.9 73.0 109.4
 97 48.7 59.6 89.4#





#39

1,2-Dichloropropane

Concen: 6.927 ppbv

RT: 7.37 min Scan# 1953

Delta R.T. -0.45 min

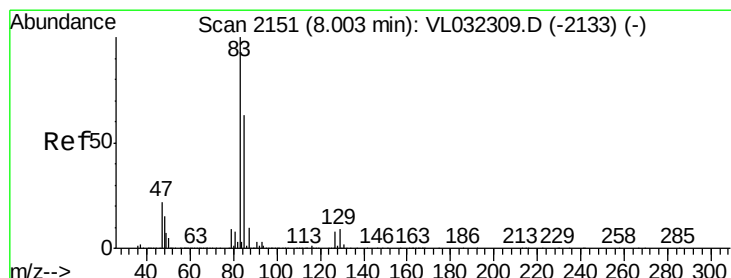
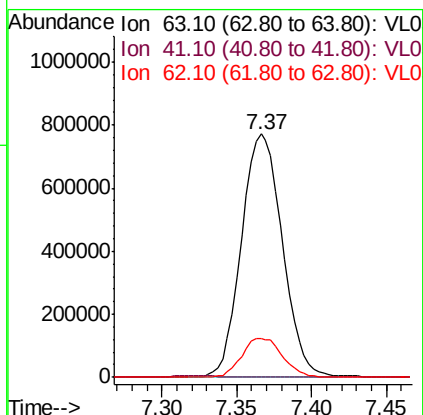
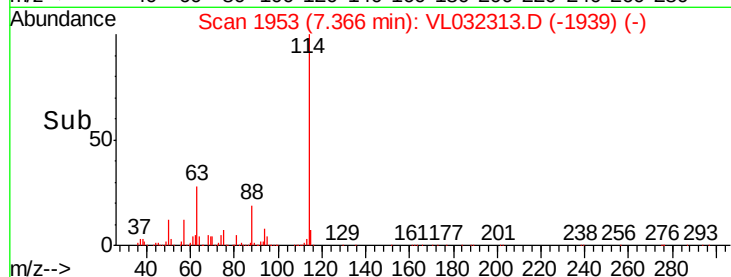
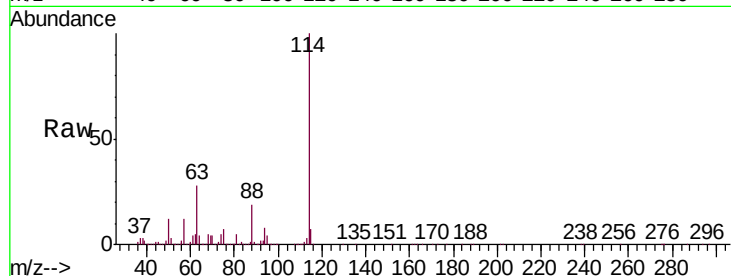
Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 63 Resp: 1469524

Ion	Ratio	Lower	Upper
63	100		
41	0.1	52.5	78.7#
62	15.9	54.6	81.8#



#42

Bromodichloromethane

Concen: 0.044 ppbv

RT: 7.99 min Scan# 2147

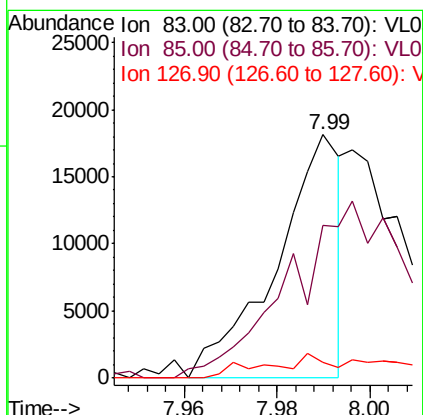
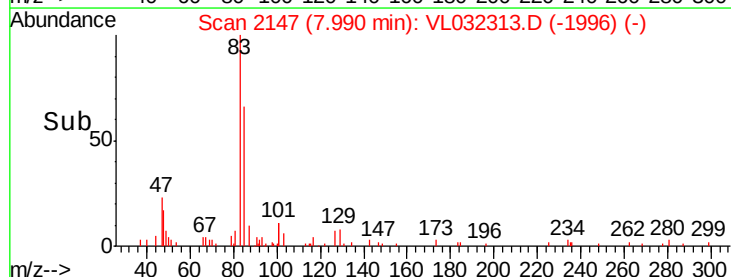
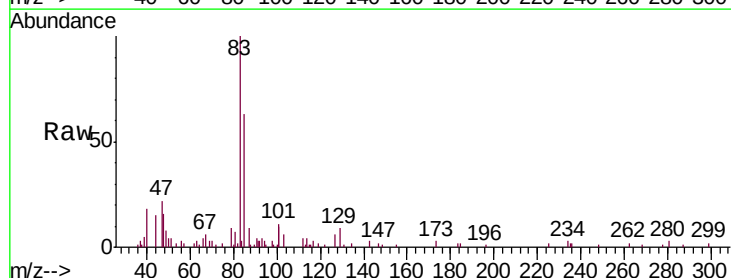
Delta R.T. -0.01 min

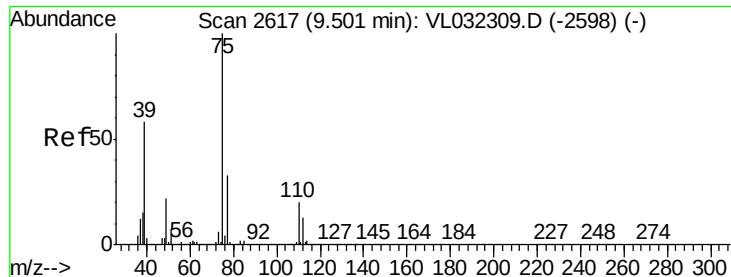
Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion: 83 Resp: 17496

Ion	Ratio	Lower	Upper
83	100		
85	58.9	50.7	76.1
127	6.3	6.0	9.0





#45

t-1,3-Dichloropropene

Concen: 0.034 ppbv

RT: 9.49 min Scan# 2615

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

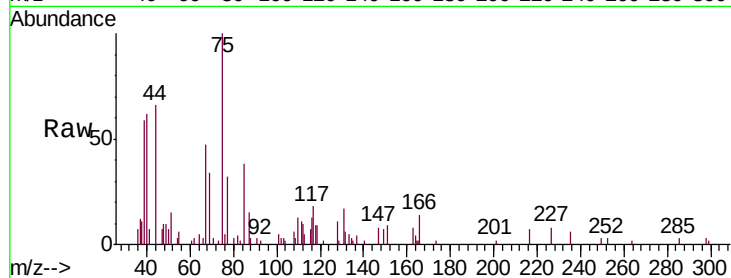
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 75 Resp: 8797

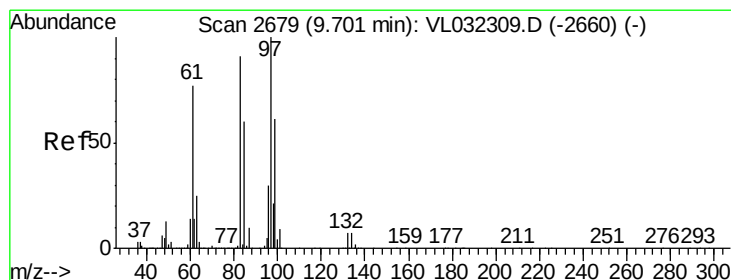
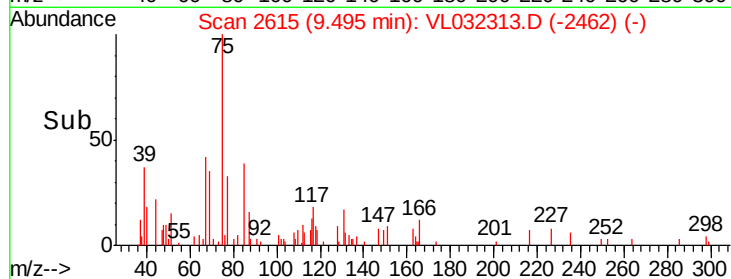
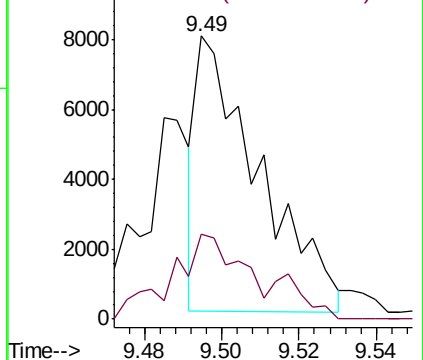
Ion Ratio Lower Upper

75 100

77 30.2 26.2 39.4



Abundance Ion 75.10 (74.80 to 75.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.046 ppbv

RT: 9.69 min Scan# 2677

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion: 97 Resp: 10240

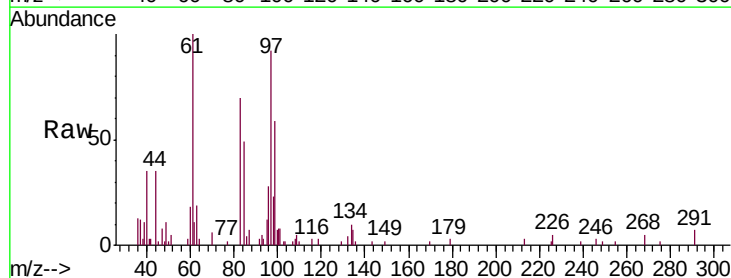
Ion Ratio Lower Upper

97 100

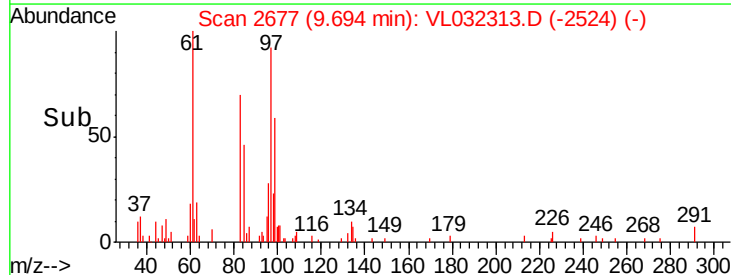
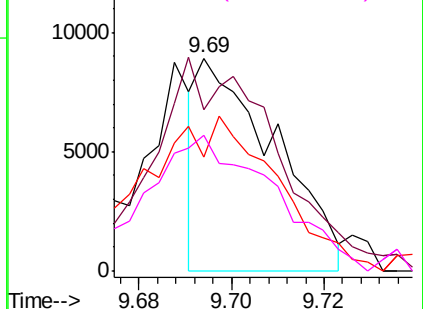
83 66.2 73.0 109.6#

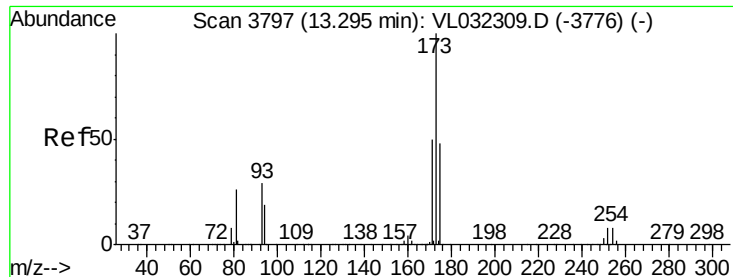
85 46.3 48.1 72.1#

99 61.0 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





#49

Bromoform

Concen: 0.057 ppbv

RT: 13.29 min Scan# 3794

Delta R.T. -0.01 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

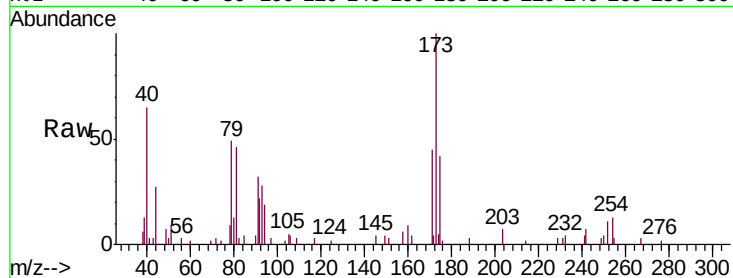
Tot Ion:173 Resp: 16015

Ion Ratio Lower Upper

173 100

175 56.1 38.9 58.3

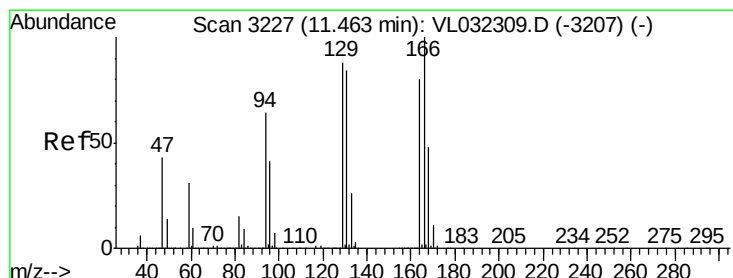
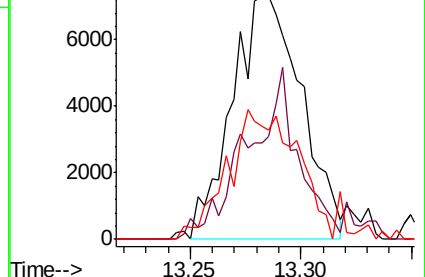
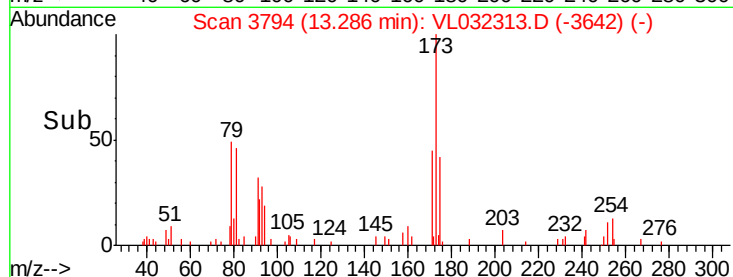
171 56.0 42.2 63.2



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



#52

Tetrachloroethene

Concen: 0.061 ppbv

RT: 11.46 min Scan# 3226

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Tgt Ion:164 Resp: 10831

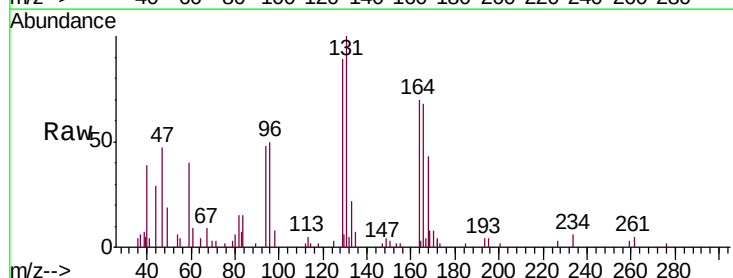
Ion Ratio Lower Upper

164 100

166 82.1 100.0 150.0#

129 117.6 87.9 131.9

131 133.2 83.8 125.8#

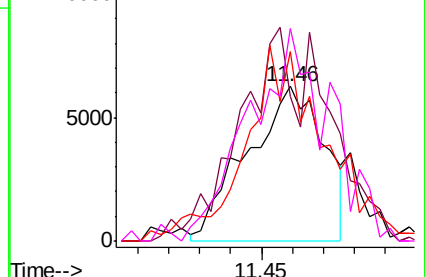
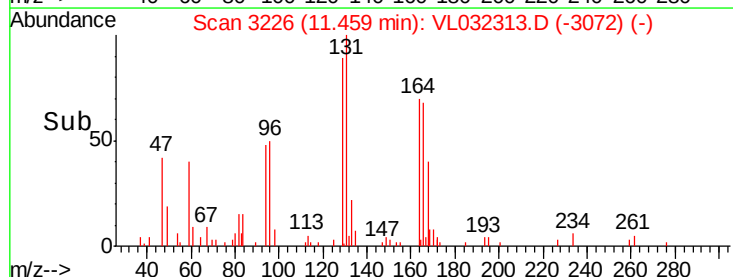


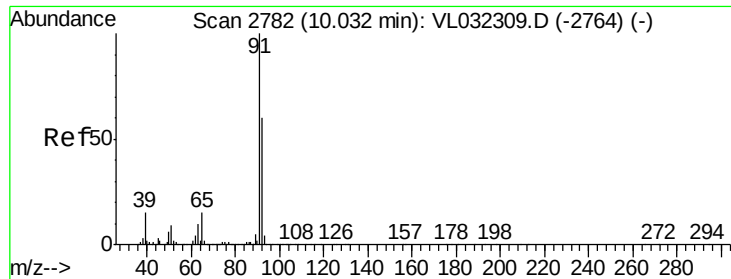
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.041 ppbv

RT: 10.03 min Scan# 2781

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

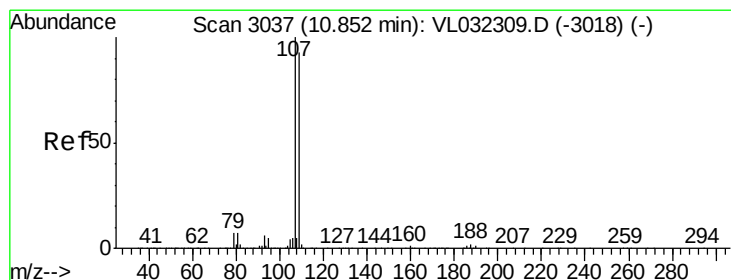
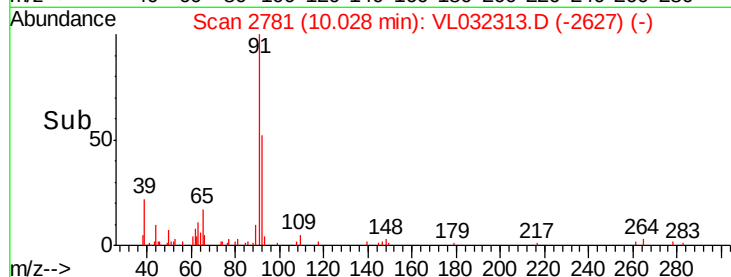
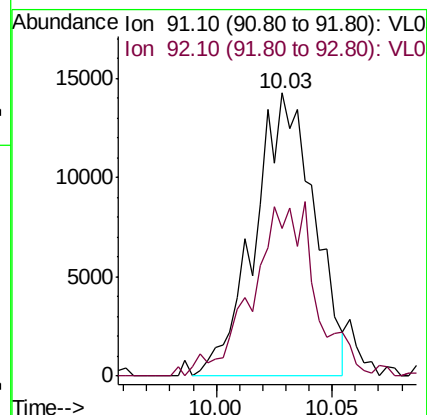
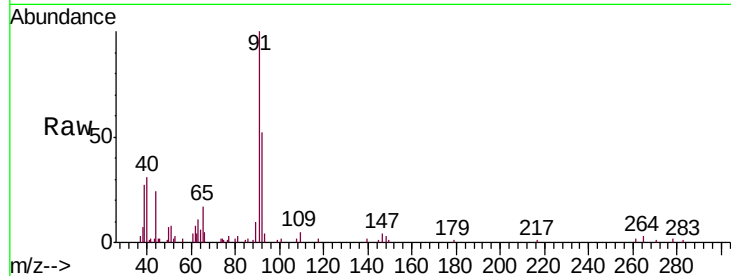
ClientSampleId :

Tot Ion: 91 Resp: 25610

Ion Ratio Lower Upper

91 100

92 65.3 48.6 72.8



#54

1,2-Dibromoethane

Concen: 0.036 ppbv

RT: 10.84 min Scan# 3033

Delta R.T. -0.01 min

Lab File: VL032313.D

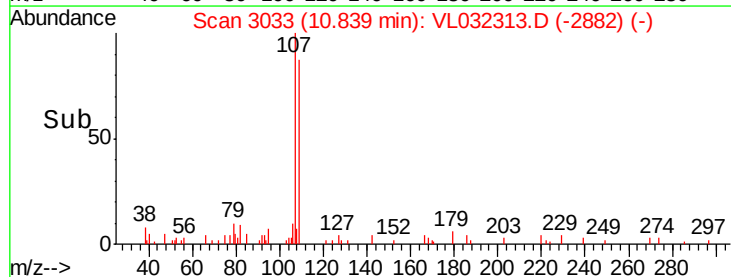
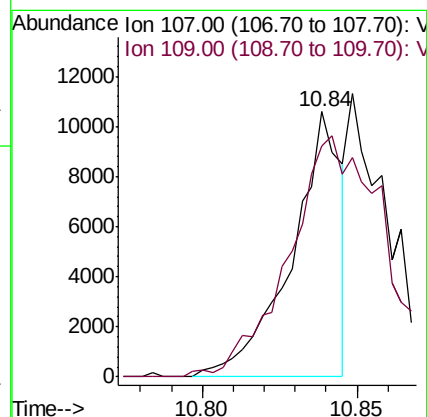
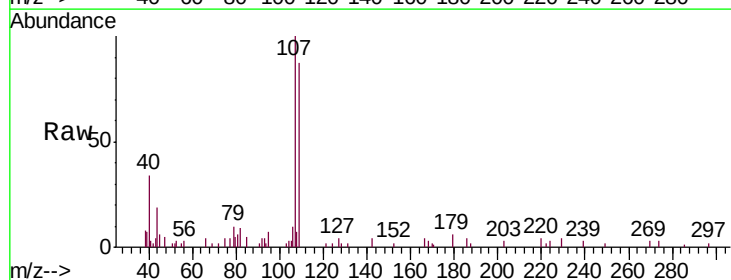
Acq: 27 Jul 2018 3:16

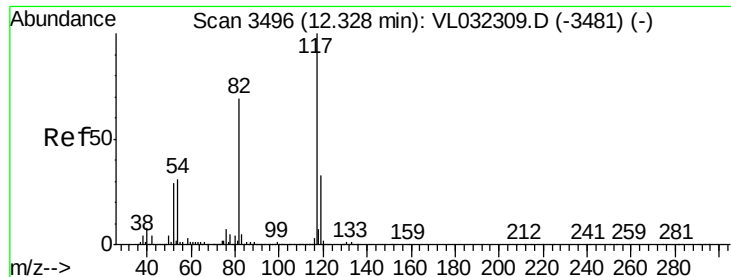
Tgt Ion: 107 Resp: 11682

Ion Ratio Lower Upper

107 100

109 79.4 74.1 111.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.33 min Scan# 3496

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

Instrument :

MSVOA_L

ClientSampleId :

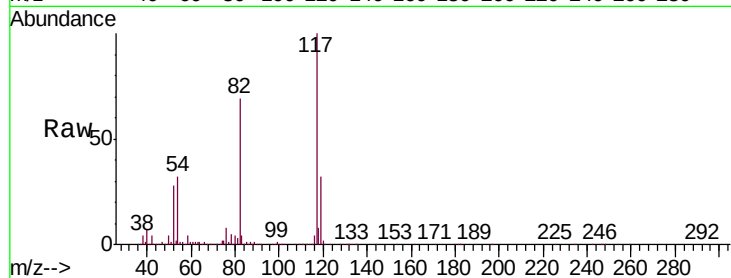
Tot Ion:117 Resp: 5145594

Ion Ratio Lower Upper

117 100

82 69.6 52.6 78.8

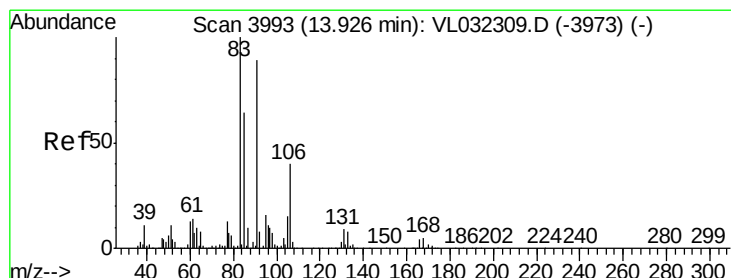
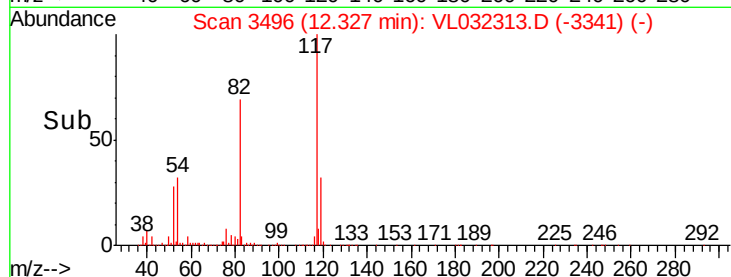
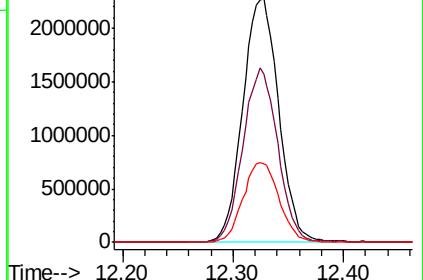
119 33.0 25.7 38.5



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



#63

1,1,2,2-Tetrachloroethane

Concen: 0.037 ppbv

RT: 13.93 min Scan# 3993

Delta R.T. -0.00 min

Lab File: VL032313.D

Acq: 27 Jul 2018 3:16

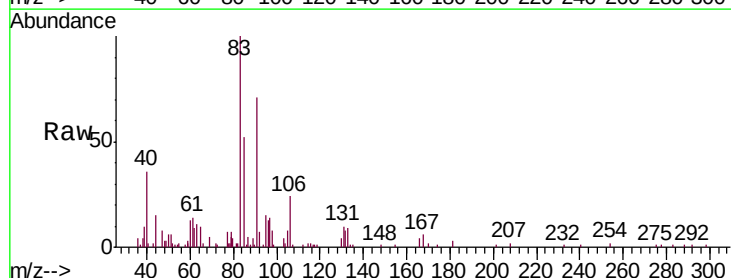
Tgt Ion: 83 Resp: 19622

Ion Ratio Lower Upper

83 100

131 20.8 4.3 12.8#

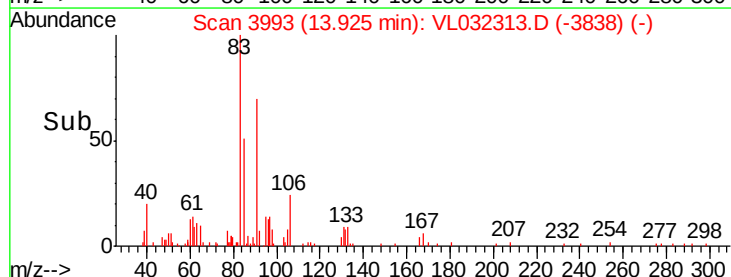
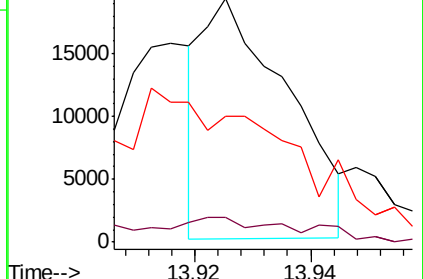
85 0.0 32.6 97.7#

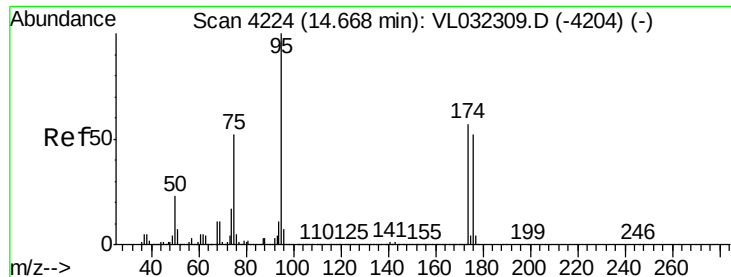


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

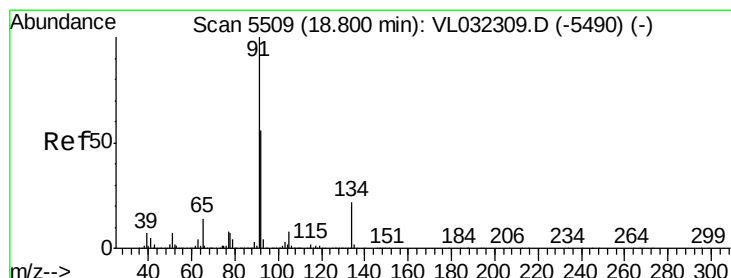
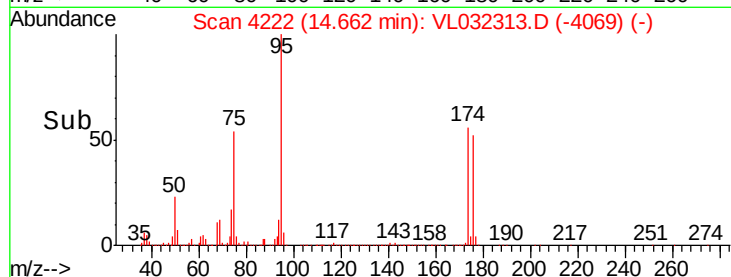
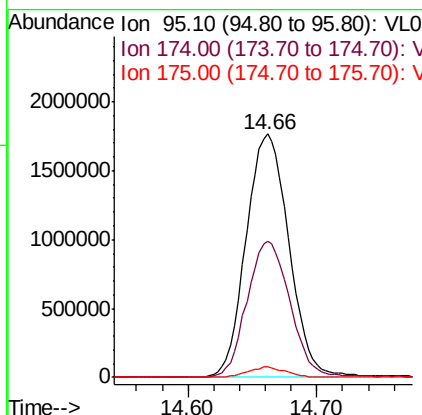
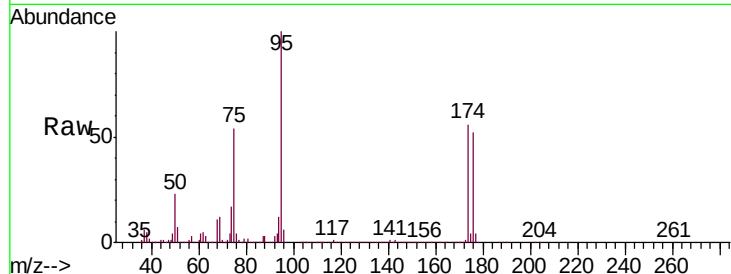




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.872 ppbv
 RT: 14.66 min Scan# 4222
 Delta R.T. -0.01 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

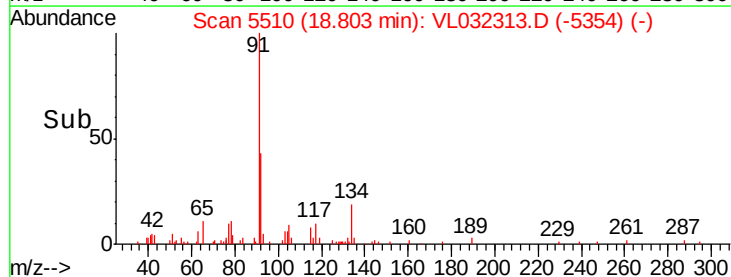
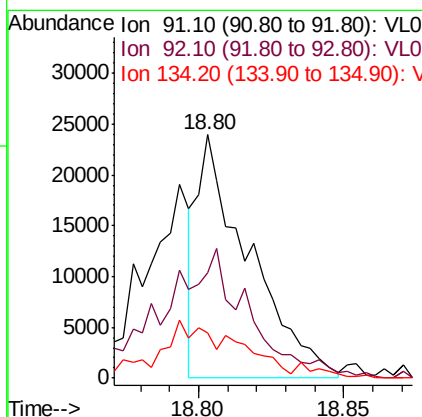
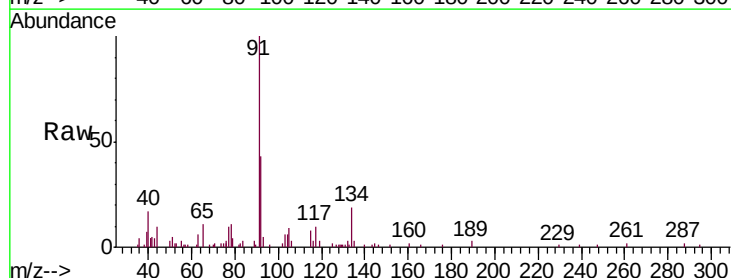
Instrument :
 MSVOA_L
 ClientSampleId :

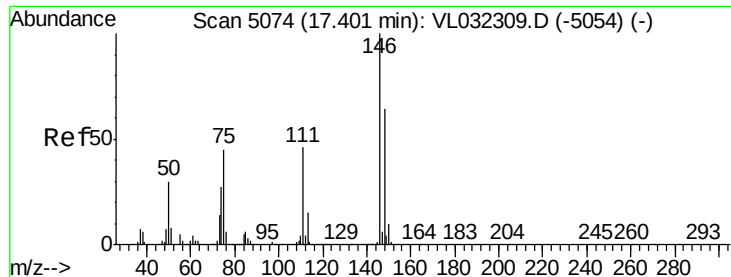
Tot Ion: 95 Resp: 4064988
 Ion Ratio Lower Upper
 95 100
 174 56.3 45.5 68.3
 175 3.9 3.3 4.9



#70
 n-Butylbenzene
 Concen: 0.031 ppbv
 RT: 18.80 min Scan# 5510
 Delta R.T. 0.00 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

Tgt Ion: 91 Resp: 29556
 Ion Ratio Lower Upper
 91 100
 92 92.0 44.2 66.4#
 134 0.0 17.4 26.2#

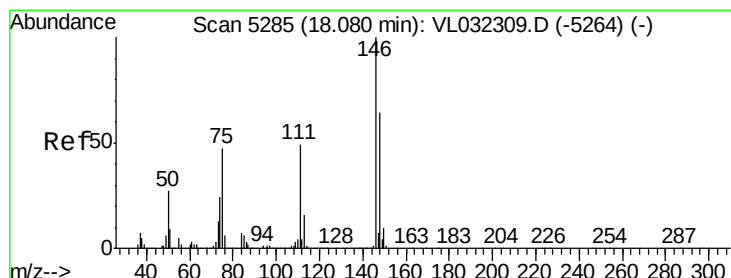
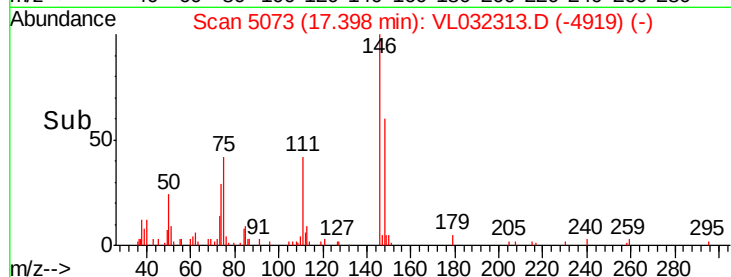
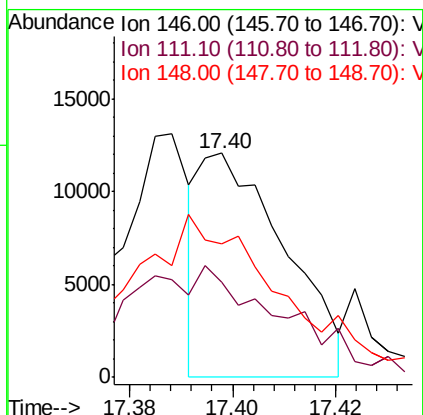
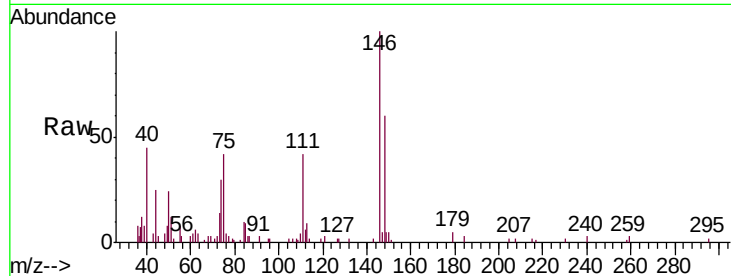




#76
 1,4-Dichlorobenzene
 Concen: 0.035 ppbv
 RT: 17.40 min Scan# 5073
 Delta R.T. -0.00 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

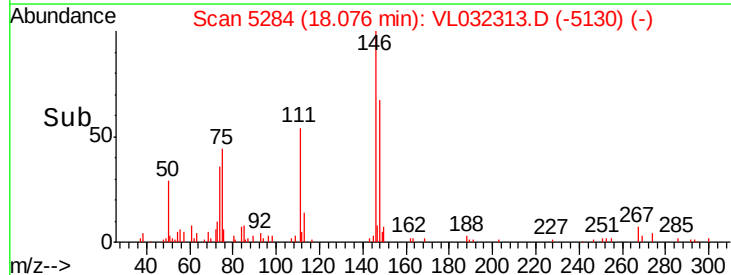
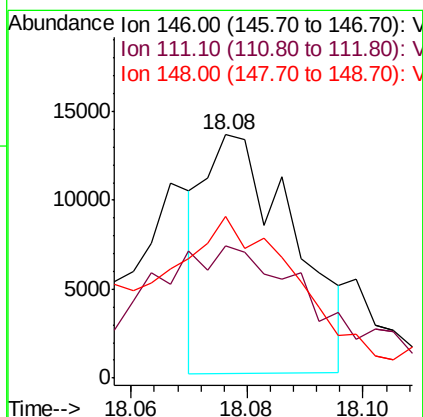
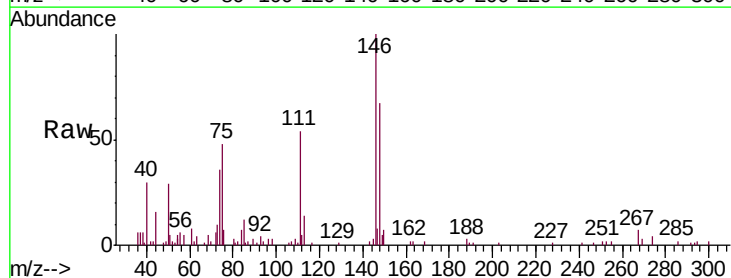
Instrument :
 MSVOA_L
 ClientSampleId :

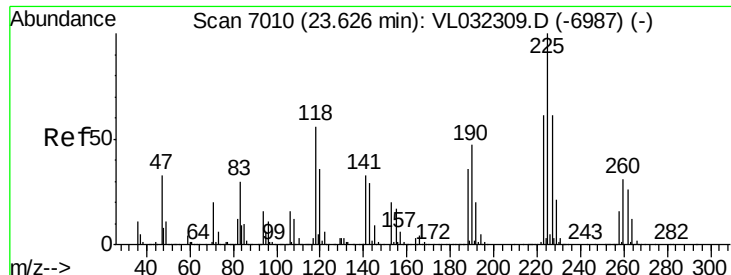
Tot Ion:146 Resp: 13848
 Ion Ratio Lower Upper
 146 100
 111 105.2 23.6 70.8#
 148 0.0 32.1 96.3#



#77
 1,2-Dichlorobenzene
 Concen: 0.037 ppbv
 RT: 18.08 min Scan# 5284
 Delta R.T. -0.00 min
 Lab File: VL032313.D
 Acq: 27 Jul 2018 3:16

Tgt Ion:146 Resp: 14293
 Ion Ratio Lower Upper
 146 100
 111 127.5 25.1 75.3#
 148 137.7 31.9 95.7#

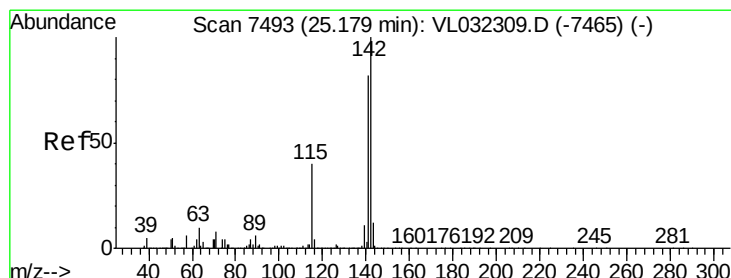
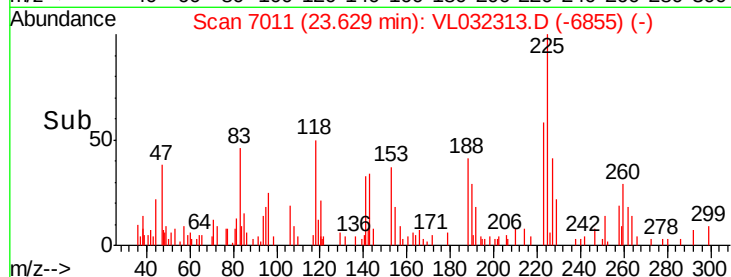
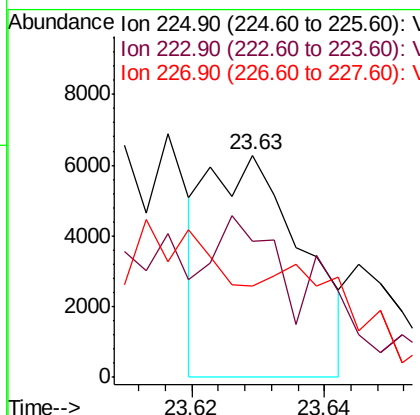
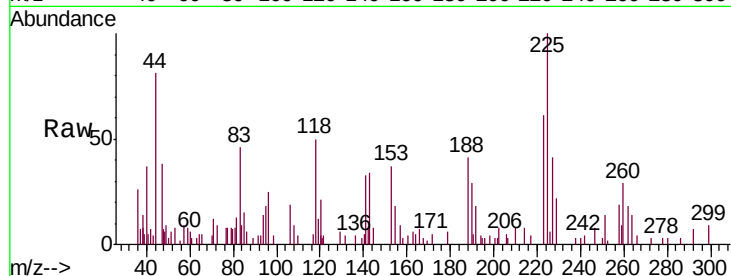




#78
Hexachloro-1,3-Butadiene
Concen: 0.049 ppbv
RT: 23.63 min Scan# 7011
Delta R.T. 0.00 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:225 Resp: 6183
Ion Ratio Lower Upper
225 100
223 165.8 50.5 75.7#
227 0.0 51.3 76.9#



#80
Naphthalene, 2-methyl-
Concen: 0.032 ppbv
RT: 25.19 min Scan# 7496
Delta R.T. 0.01 min
Lab File: VL032313.D
Acq: 27 Jul 2018 3:16

Tgt Ion:142 Resp: 8335
Ion Ratio Lower Upper
142 100
141 84.0 66.7 100.1
115 13.0 31.1 46.7#

