

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034949.D
 Acq On : 6 May 2020 19:33
 Operator : SY/AP
 Sample : L2182-13 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 07 06:35:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1142294	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2622875	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2453671	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2053892	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.15	85	20054	0.124	ppbv 98
3) Chlorodifluoromethane	2.95	51	16469	0.126	ppbv 94
4) Chloromethane	3.11	50	8250	0.110	ppbv # 77
5) Vinyl Chloride	3.22	62	8672	0.119	ppbv 95
6) Bromomethane	3.45	94	5037	0.116	ppbv # 61
7) Chloroethane	3.52	64	1386	0.053	ppbv # 74
8) Dichlorotetrafluoroethane	3.15	85	20054	0.120	ppbv 93
9) Propene	2.97	41	3629	0.064	ppbv # 16
10) Heptane	8.13	43	3540	0.025	ppbv # 26
11) Trichlorofluoromethane	3.92	101	18939	0.113	ppbv 85
12) 1,1,2-Trichlorotrifluoroet	4.47	101	6937	0.058	ppbv # 14
13) Ethanol	3.59	45	1620	0.087	ppbv # 51
14) Bromoethene	3.71	108	2653	0.054	ppbv # 1
15) Acetone	3.84	43	38863	0.257	ppbv # 90
16) 1,3-Butadiene	3.29	39	5363	0.083	ppbv # 80
17) tert-Butyl alcohol	4.29	59	8419	0.063	ppbv # 55
18) 1,1-Dichloroethene	4.27	96	4021	0.078	ppbv # 37
20) Methylene Chloride	4.32	84	3998	0.080	ppbv 94
21) Allvl Chloride	4.39	41	3896	0.046	ppbv # 20
22) trans-1,2-Dichloroethene	4.87	96	3416	0.067	ppbv 93
23) Vinyl Acetate	5.07	43	17946	0.094	ppbv # 81
24) 1,1-Dichloroethane	5.00	63	15324	0.104	ppbv # 97
25) Ethyl Acetate	5.68	43	25883	0.102	ppbv # 89
26) Hexane	5.68	57	6486	0.059	ppbv # 1
27) Carbon Disulfide	4.54	76	9649	0.074	ppbv # 37
29) Chloroform	5.74	83	21464	0.119	ppbv 92
30) Cyclohexane	7.13	84	2015	0.024	ppbv # 1
32) 1,1,1-Trichloroethane	6.52	97	10043	0.062	ppbv # 26
35) Carbon Tetrachloride	7.02	117	6669	0.040	ppbv # 65
36) Benzene	6.89	78	14797	0.068	ppbv 98
37) 1,2-Dichloroethane	6.31	62	8398	0.063	ppbv # 82
38) Trichloroethene	7.85	130	4060	0.048	ppbv 90
39) 1,2-Dichloropropane	7.19	63	726980	8.386	ppbv # 26
42) Bromodichloromethane	7.81	83	4659	0.026	ppbv # 37
43) Methyl Methacrylate	8.03	69	6540	0.072	ppbv 91
45) t-1,3-Dichloropropene	9.30	75	2554	0.028	ppbv 92
46) cis-1,3-Dichloropropene	8.72	75	2302	0.020	ppbv # 51
47) 1,1,2-Trichloroethane	9.50	97	5251	0.057	ppbv # 65
48) Dibromochloromethane	10.33	129	8785	0.062	ppbv 77
52) Tetrachloroethene	11.26	164	3457	0.045	ppbv # 46
53) Toluene	9.83	91	6972	0.030	ppbv # 14

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

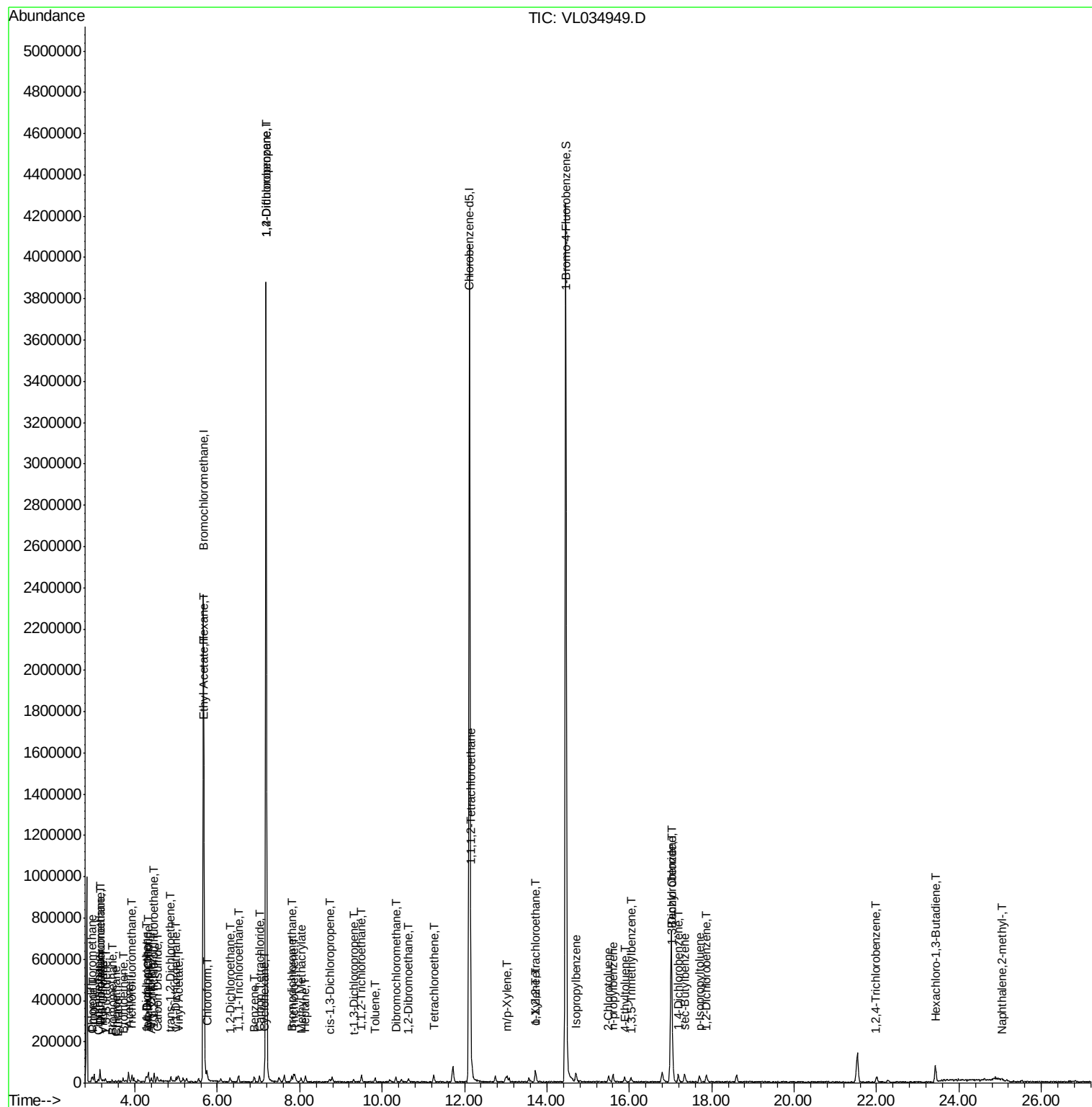
54) 1,2-Dibromoethane	10.63	107	3711	0.028	ppbv #	65
56) 1,1,1,2-Tetrachloroethane	12.16	131	2507	0.023	ppbv #	1
59) m/p-Xylene	13.03	91	8881	0.033	ppbv	98
60) o-Xylene	13.73	91	6382	0.024	ppbv #	30
62) Isopropylbenzene	14.71	105	11584	0.029	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	13.72	83	11244	0.054	ppbv #	31
64) n-propylbenzene	15.60	120	2965	0.029	ppbv #	1
66) Benzyl Chloride	17.04	91	3313	0.029	ppbv #	44
67) sec-Butylbenzene	17.34	105	13251	0.027	ppbv #	52
69) p-Isopropyltoluene	17.69	119	8375	0.021	ppbv #	47
71) 2-Chlorotoluene	15.49	91	14236	0.048	ppbv	71
72) 4-Ethyltoluene	15.88	105	7171	0.024	ppbv #	40
73) 1,3,5-Trimethylbenzene	16.04	105	8838	0.031	ppbv #	75
75) 1,3-Dichlorobenzene	17.04	146	8776	0.048	ppbv #	1
76) 1,4-Dichlorobenzene	17.19	146	7247	0.042	ppbv #	18
77) 1,2-Dichlorobenzene	17.87	146	8145	0.047	ppbv #	19
78) Hexachloro-1,3-Butadiene	23.42	225	6904	0.047	ppbv #	1
80) Naphthalene,2-methyl-	25.04	142	2165	0.036	ppbv #	68
81) 1,2,4-Trichlorobenzene	21.99	180	3190	0.022	ppbv #	12

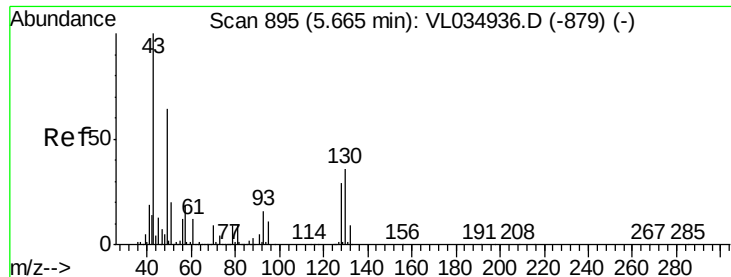
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

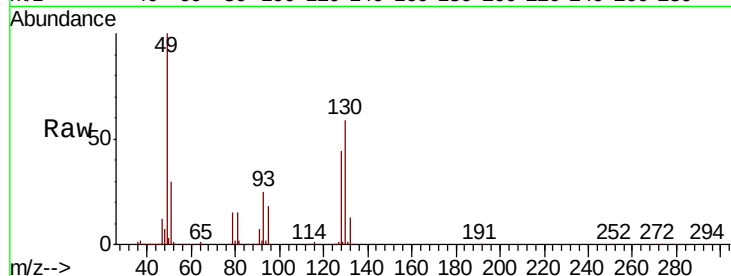
Tot Ion: 49 Resp: 1142294

Ion Ratio Lower Upper

49 100

128 45.4 22.1 66.5

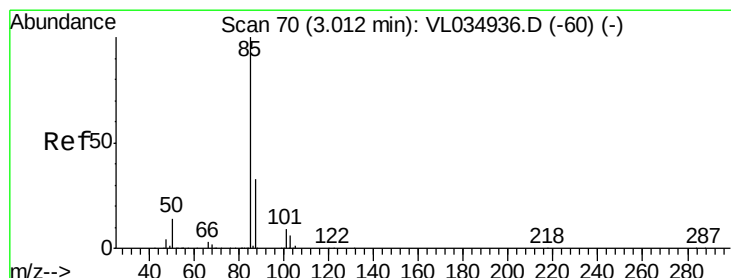
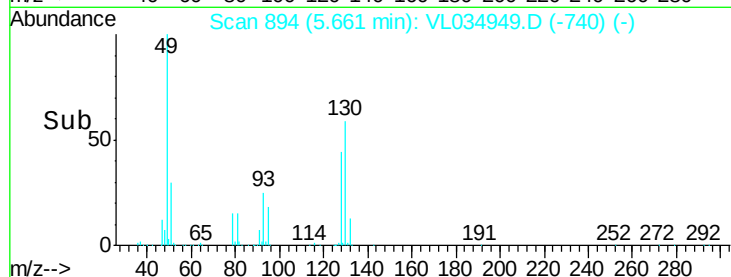
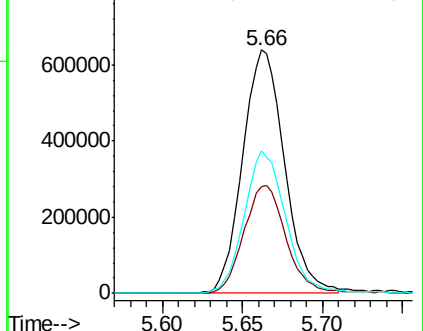
130 58.3 29.1 87.3



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: 0.124 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.14 min

Lab File: VL034949.D

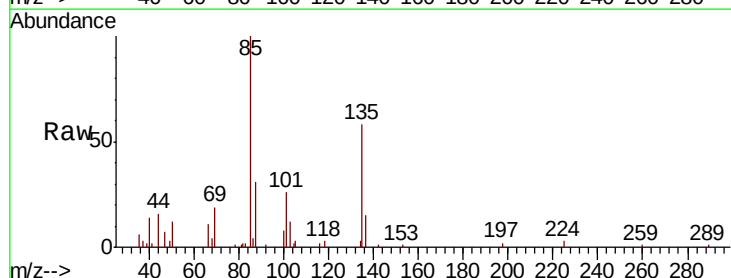
Acq: 6 May 2020 19:33

Tgt Ion: 85 Resp: 20054

Ion Ratio Lower Upper

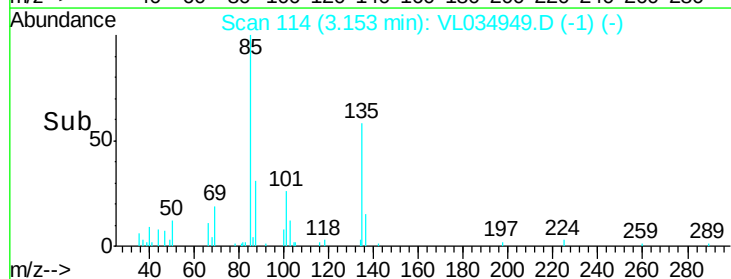
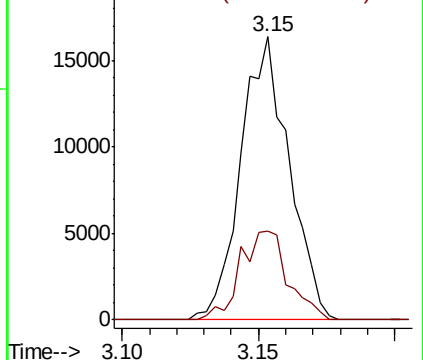
85 100

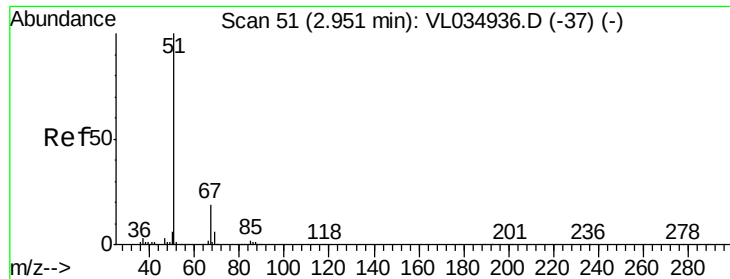
87 31.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

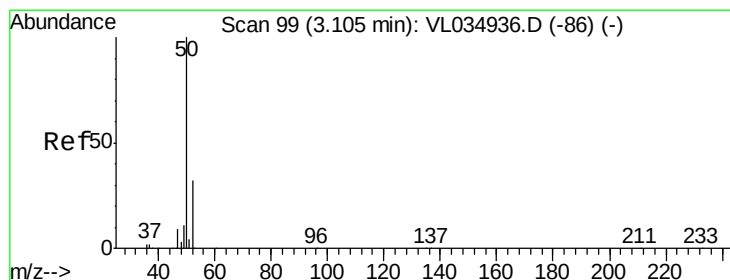
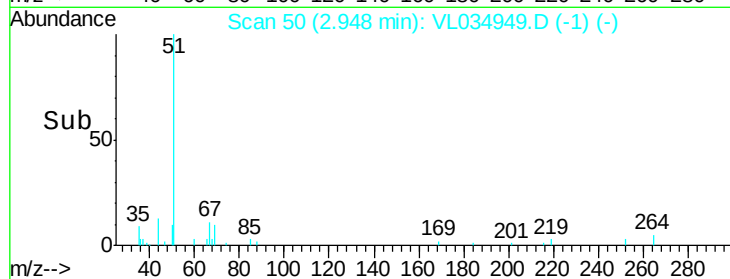
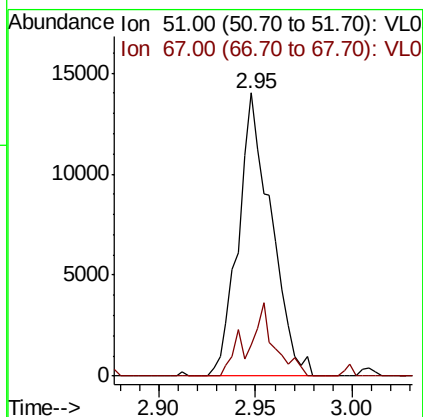
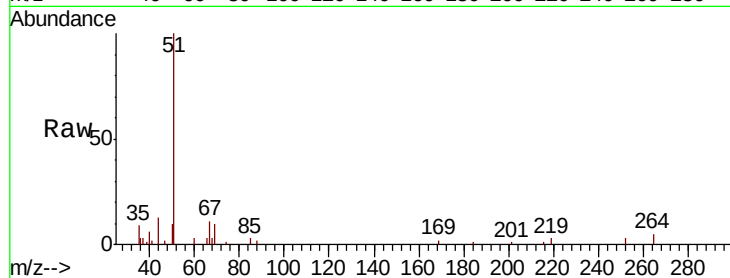




#3
Chlorodifluoromethane
Concen: 0.126 ppbv
RT: 2.95 min Scan# 50
Delta R.T. -0.00 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

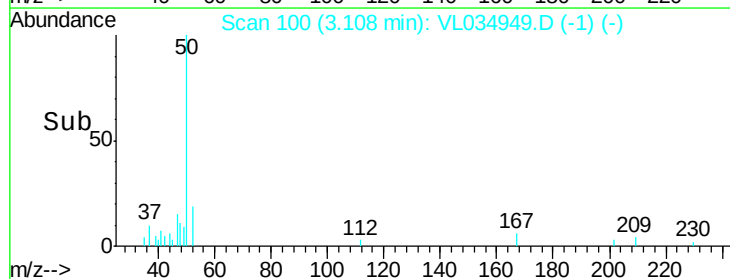
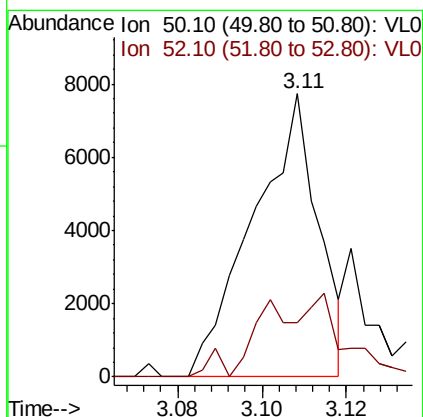
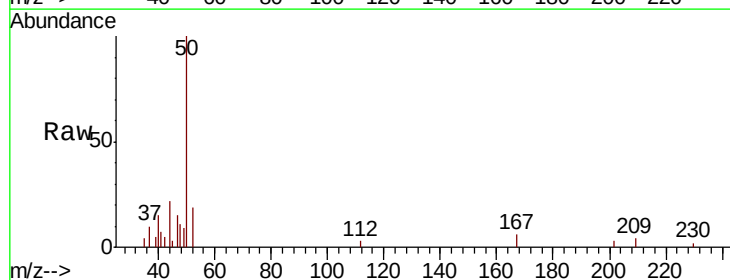
Instrument :
MSVOA_L
ClientSampleId :

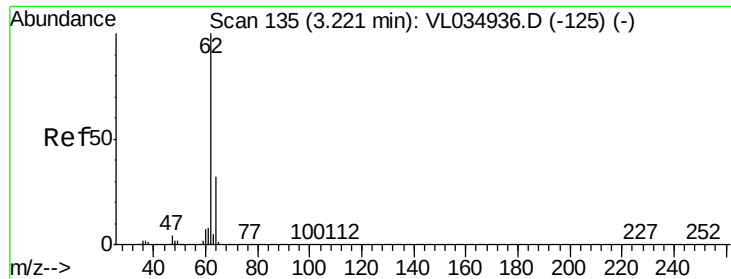
Tot Ion: 51 Resp: 16469
Ion Ratio Lower Upper
51 100
67 21.4 15.0 22.6



#4
Chloromethane
Concen: 0.110 ppbv
RT: 3.11 min Scan# 100
Delta R.T. 0.00 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

Tgt Ion: 50 Resp: 8250
Ion Ratio Lower Upper
50 100
52 19.1 25.4 38.2#





#5

Vinyl Chloride

Concen: 0.119 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

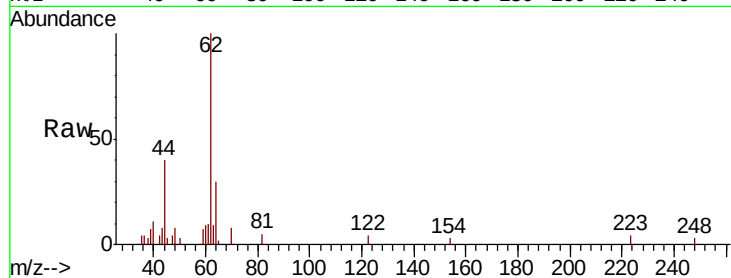
ClientSampleId :

Tot Ion: 62 Resp: 8672

Ion Ratio Lower Upper

62 100

64 29.6 25.7 38.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

8000

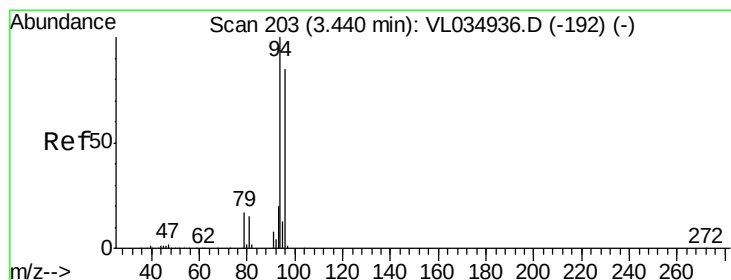
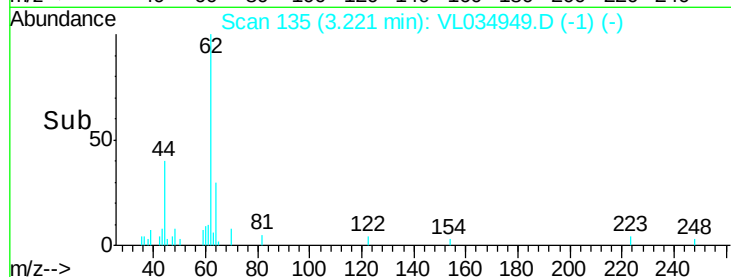
6000

4000

2000

0

Time-->



#6

Bromomethane

Concen: 0.116 ppbv

RT: 3.45 min Scan# 205

Delta R.T. 0.01 min

Lab File: VL034949.D

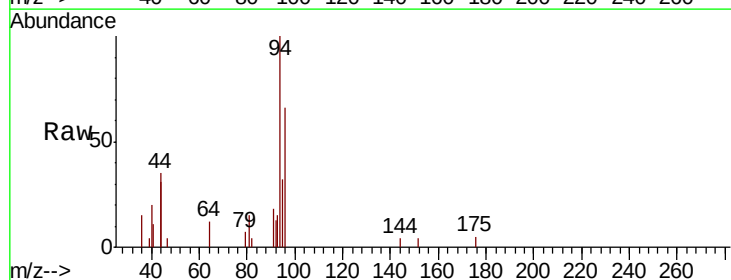
Acq: 6 May 2020 19:33

Tgt Ion: 94 Resp: 5037

Ion Ratio Lower Upper

94 100

96 49.8 67.9 101.9#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4000

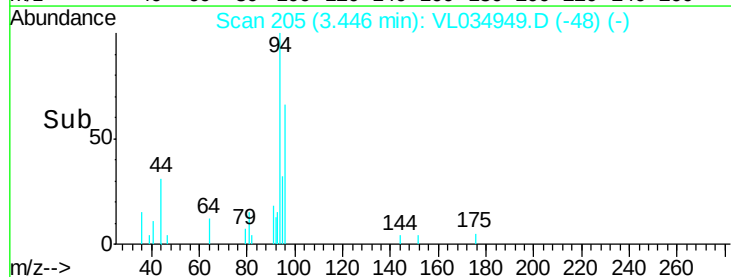
3000

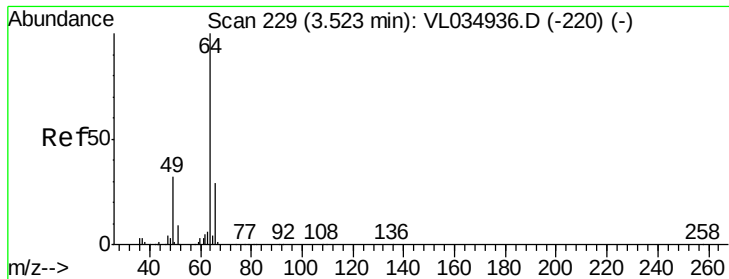
2000

1000

0

Time-->





#7

Chloroethane

Concen: 0.053 ppbv

RT: 3.52 min Scan# 229

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

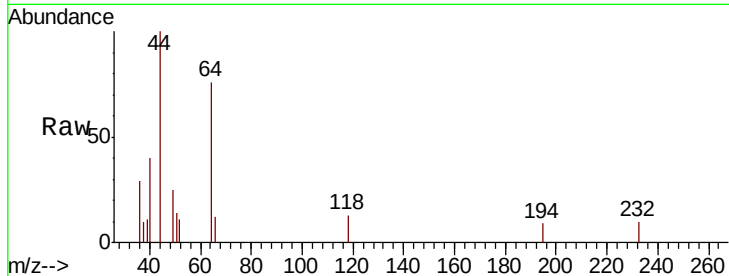
ClientSampleId :

Tot Ion: 64 Resp: 1386

Ion Ratio Lower Upper

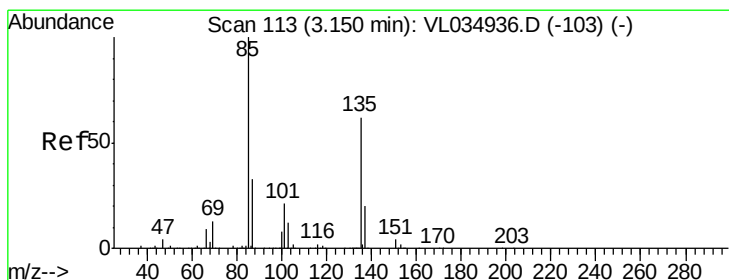
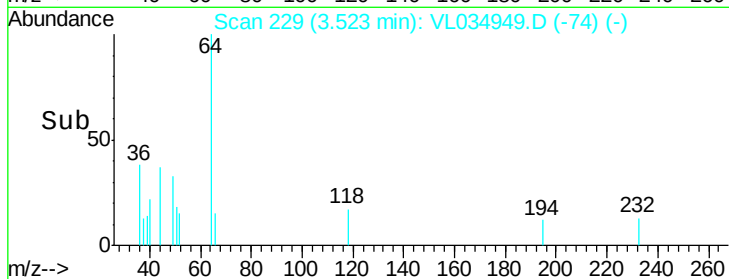
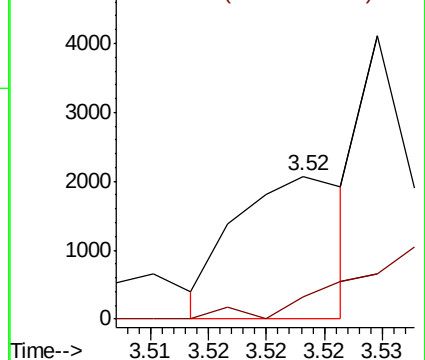
64 100

66 15.3 23.2 34.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.120 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034949.D

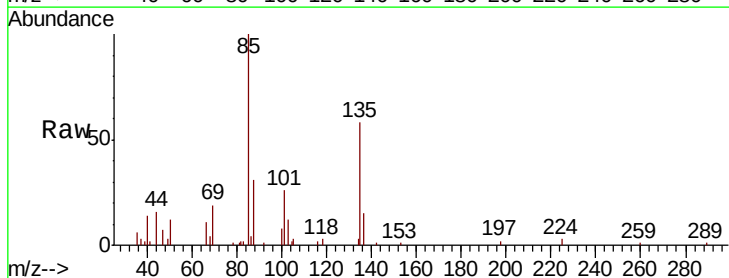
Acq: 6 May 2020 19:33

Tgt Ion: 85 Resp: 20054

Ion Ratio Lower Upper

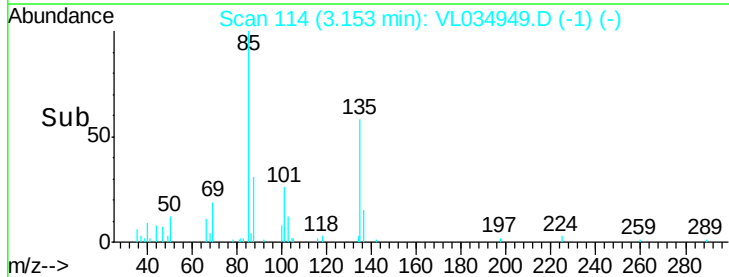
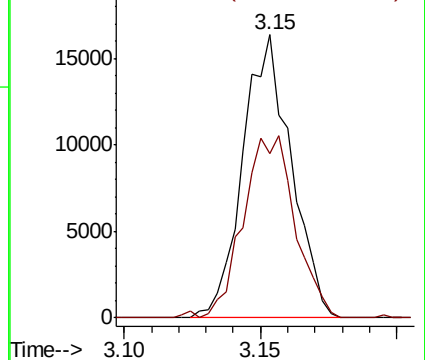
85 100

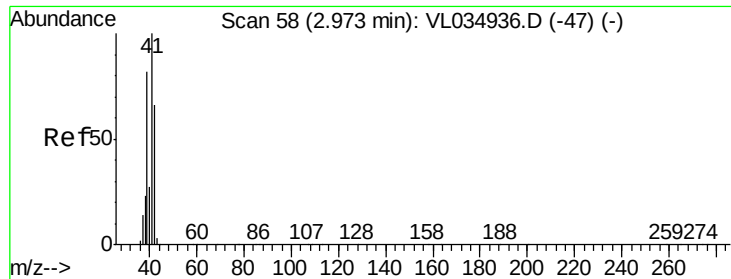
135 69.4 50.9 76.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.064 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

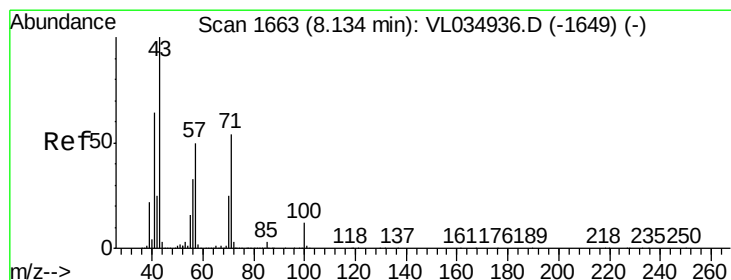
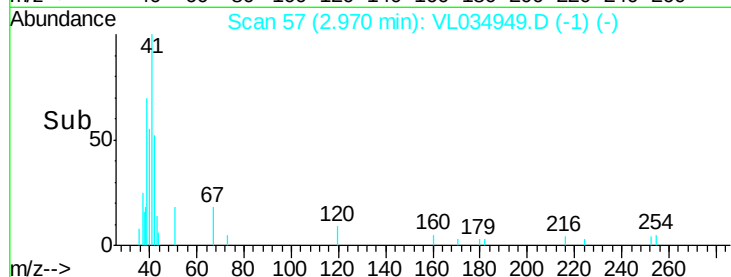
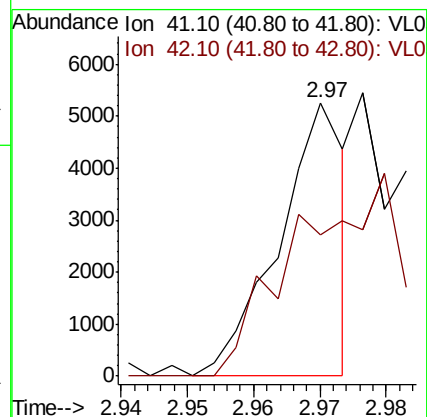
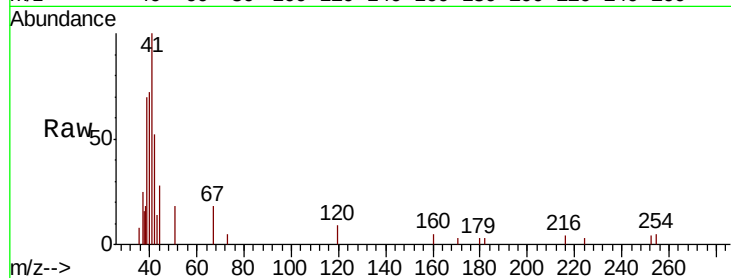
ClientSampled :

Tot Ion: 41 Resp: 3629

Ion Ratio Lower Upper

41 100

42 0.0 54.5 81.7#



#10

Heptane

Concen: 0.025 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL034949.D

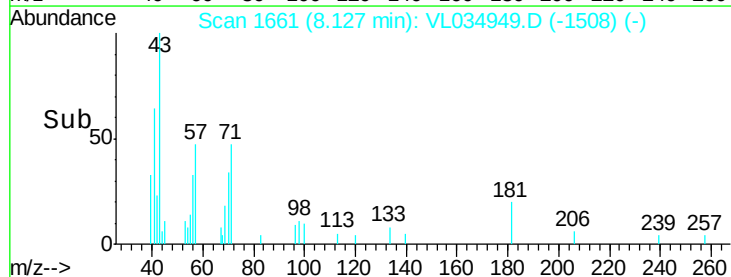
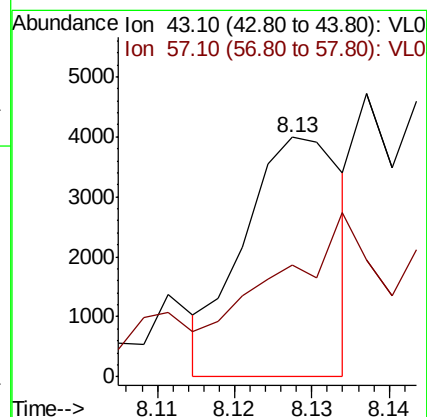
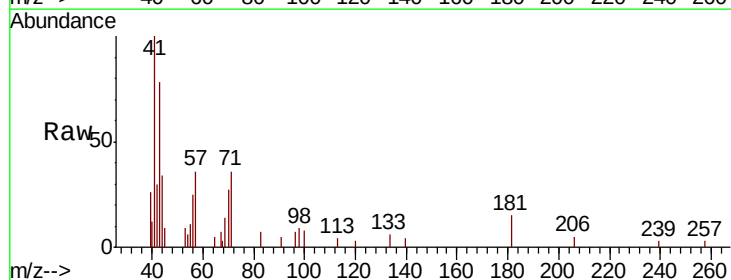
Acq: 6 May 2020 19:33

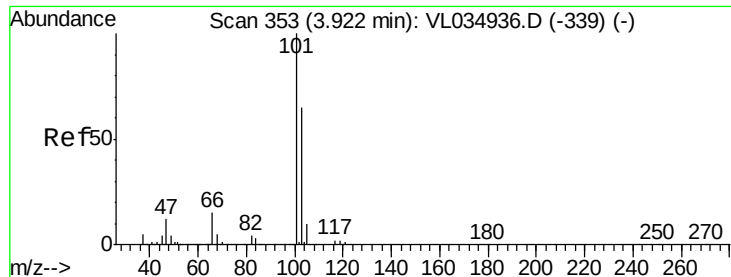
Tgt Ion: 43 Resp: 3540

Ion Ratio Lower Upper

43 100

57 0.0 41.1 61.7#

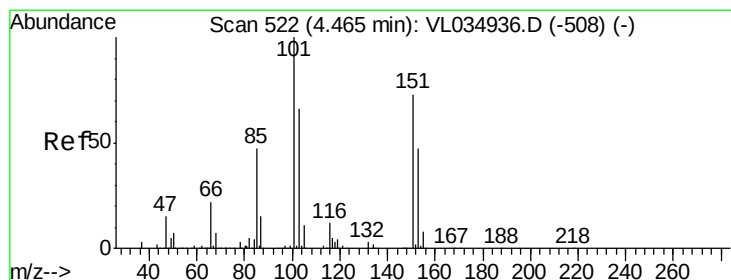
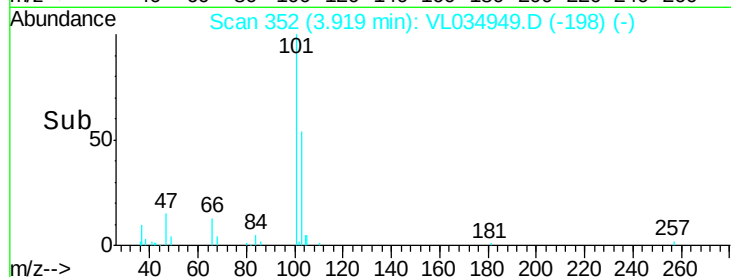
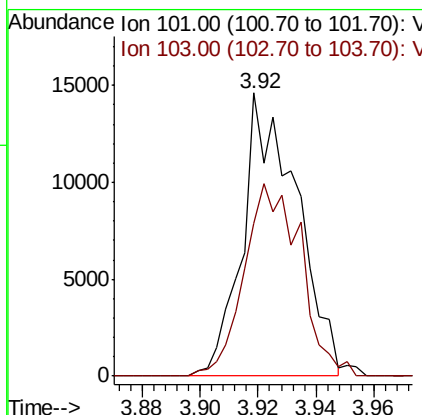
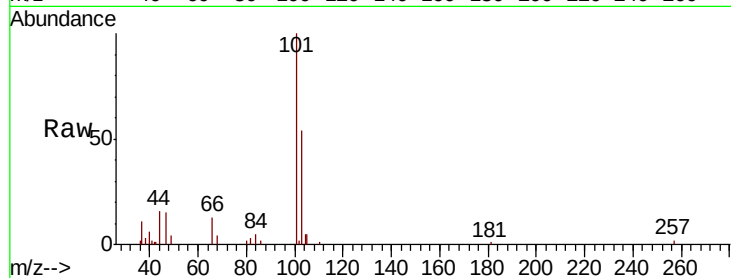




#11
 Trichlorofluoromethane
 Concen: 0.113 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

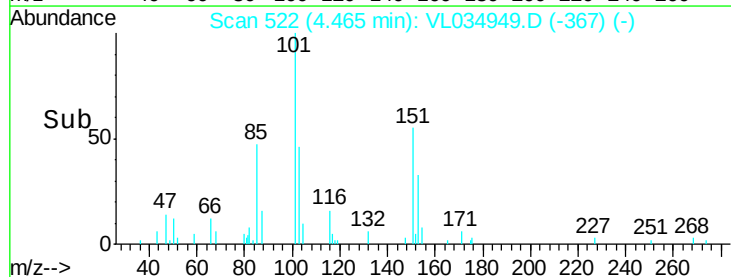
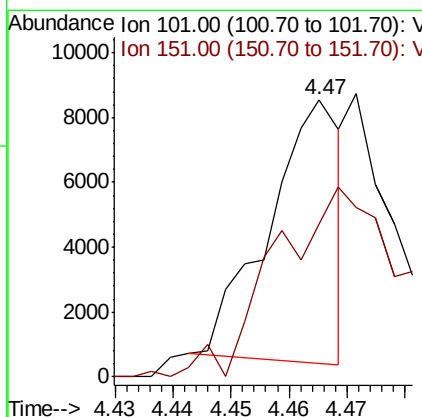
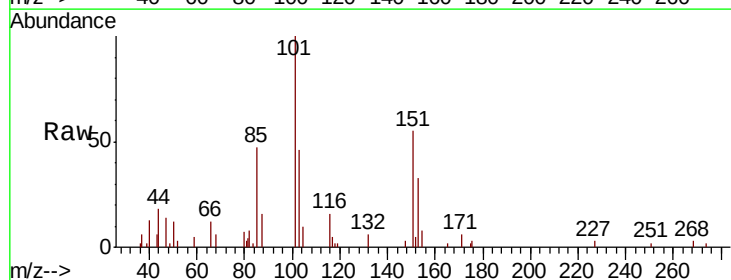
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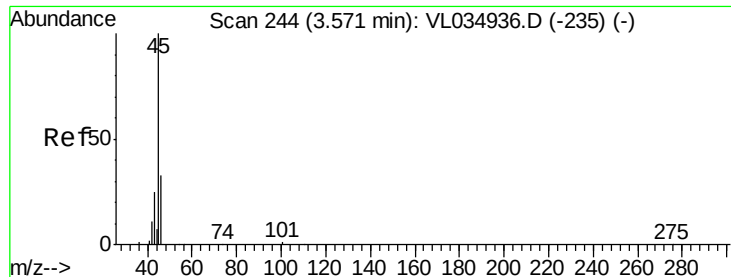
Tot Ion:101 Resp: 18939
 Ion Ratio Lower Upper
 101 100
 103 52.8 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.058 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion:101 Resp: 6937
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.6 86.4#

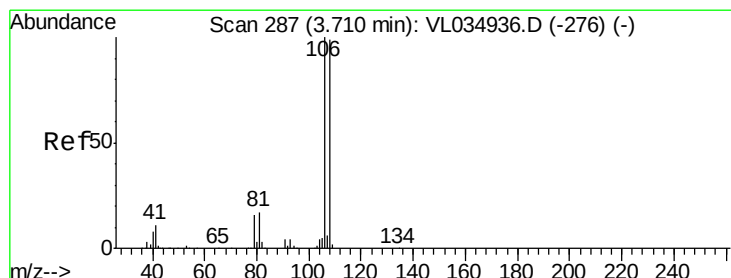
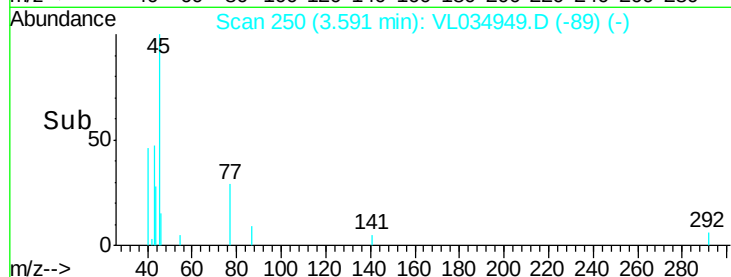
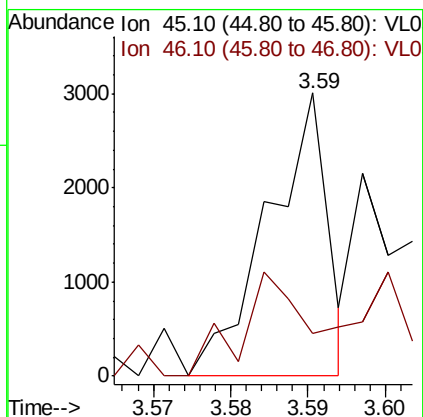
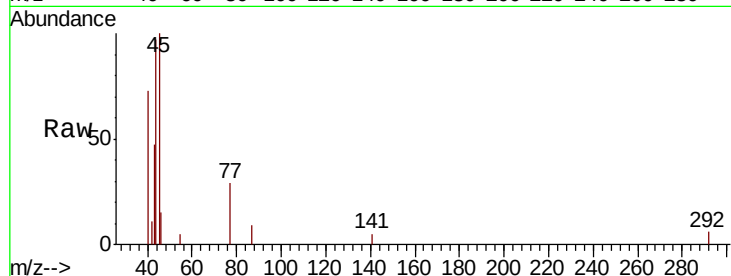




#13
Ethanol
Concen: 0.087 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.02 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

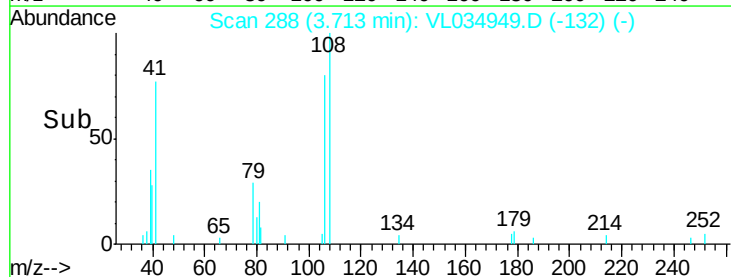
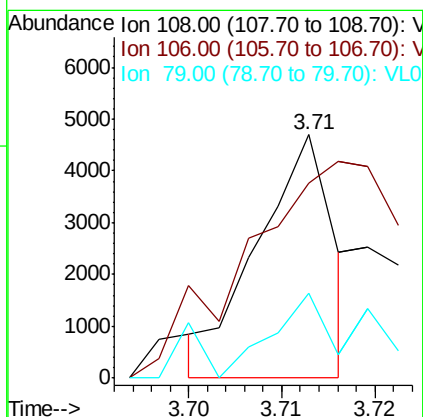
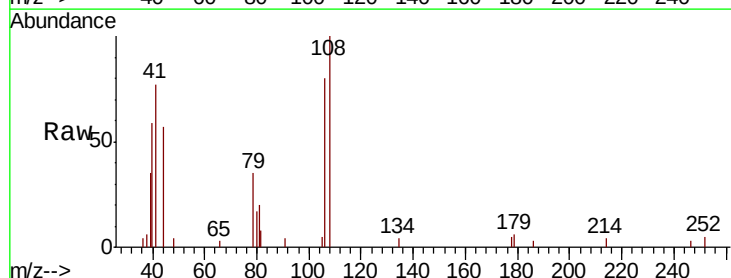
Instrument :
MSVOA_L
ClientSampleId :

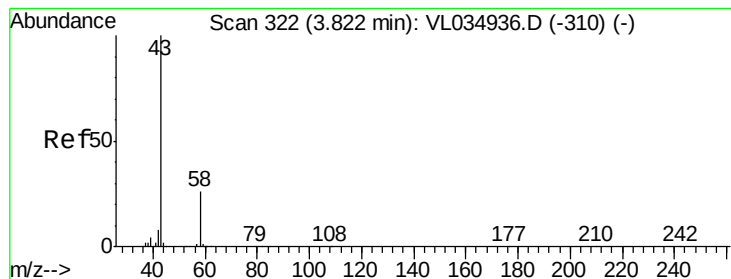
Tot Ion: 45 Resp: 1620
Ion Ratio Lower Upper
45 100
46 7.3 14.3 57.3#



#14
Bromoethene
Concen: 0.054 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.00 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

Tgt Ion: 108 Resp: 2653
Ion Ratio Lower Upper
108 100
106 0.0 84.9 127.3#
79 57.3 14.1 21.1#





#15

Acetone

Concen: 0.257 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.02 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

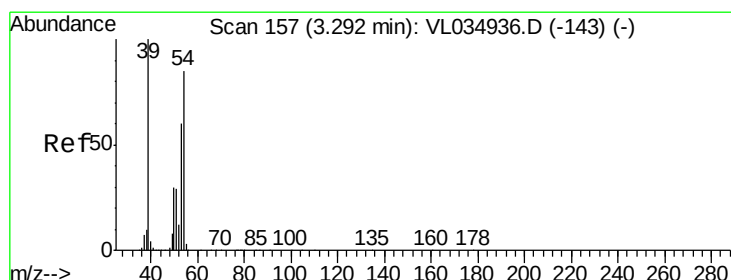
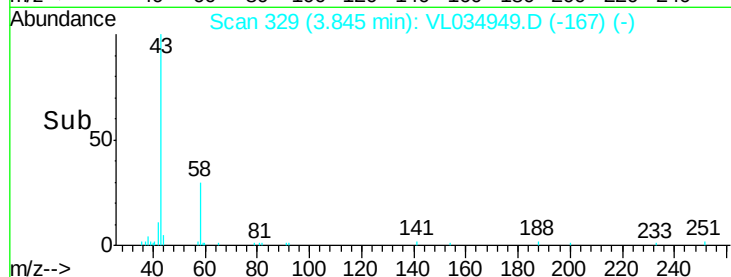
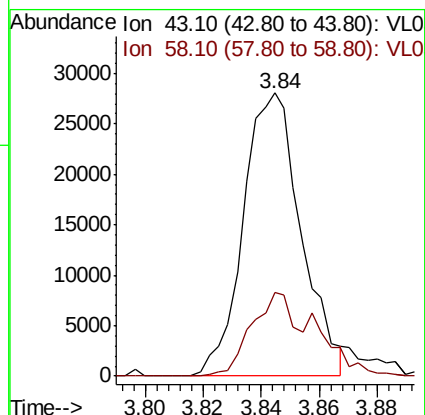
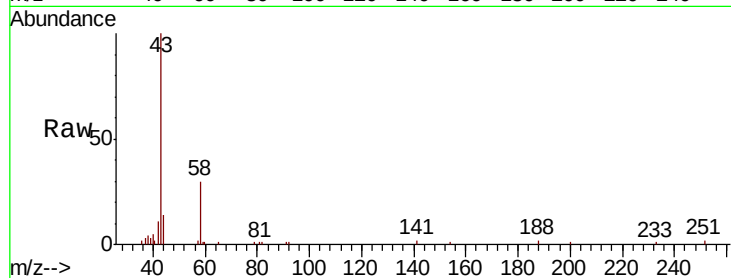
ClientSampleId :

Tot Ion: 43 Resp: 38863

Ion Ratio Lower Upper

43 100

58 32.5 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.083 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.00 min

Lab File: VL034949.D

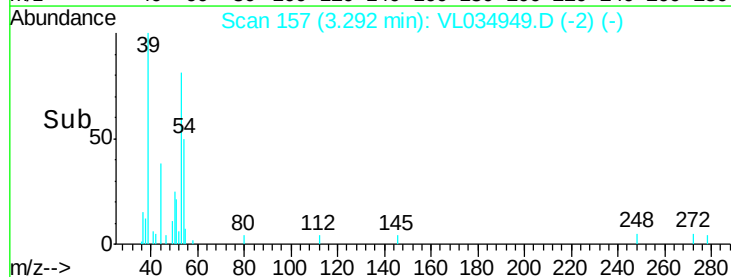
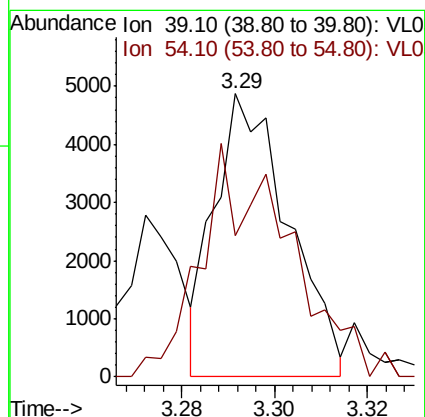
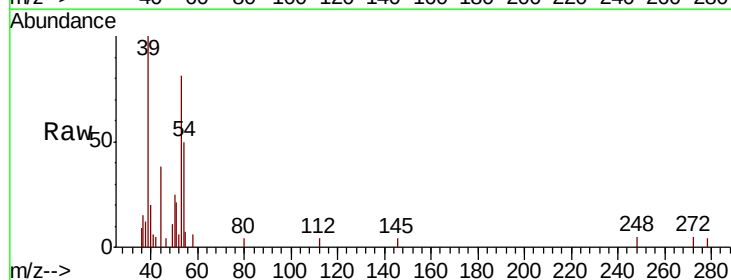
Acq: 6 May 2020 19:33

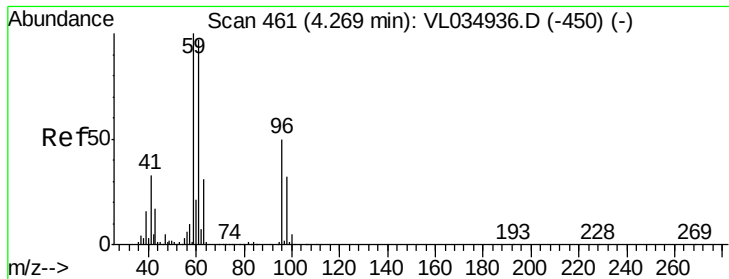
Tgt Ion: 39 Resp: 5363

Ion Ratio Lower Upper

39 100

54 101.5 66.6 100.0#



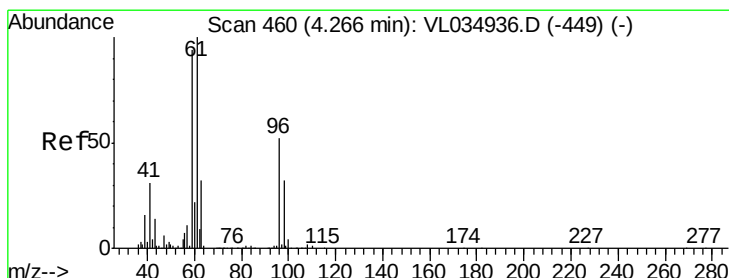
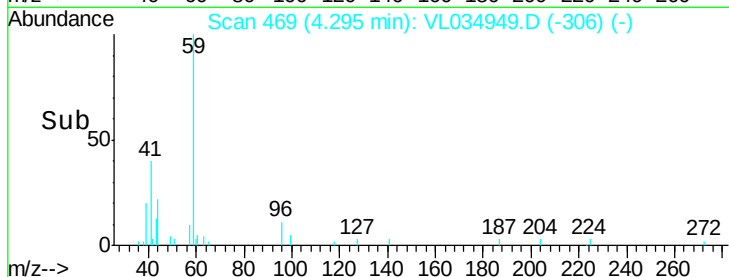
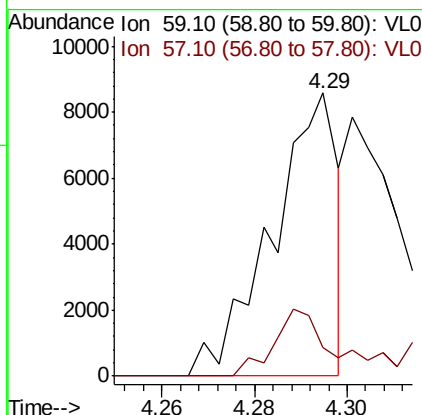
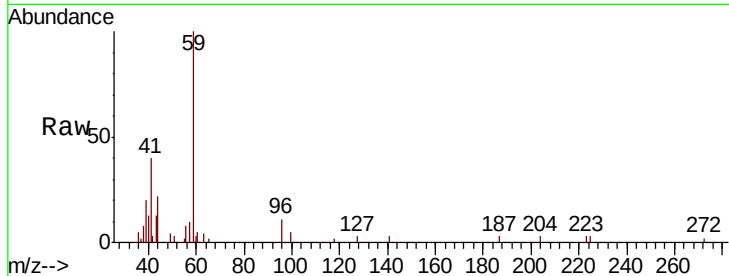


#17

tert-Butyl alcohol
 Concen: 0.063 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.03 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Instrument :
 MSVOA_L
 ClientSampled :

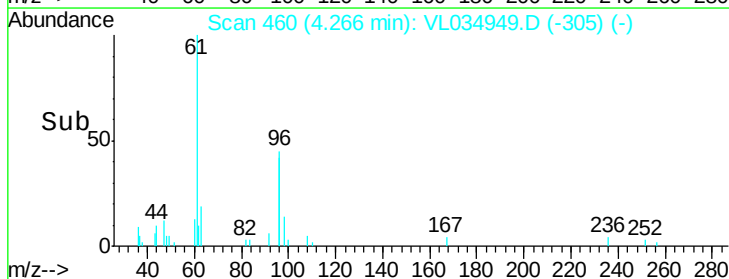
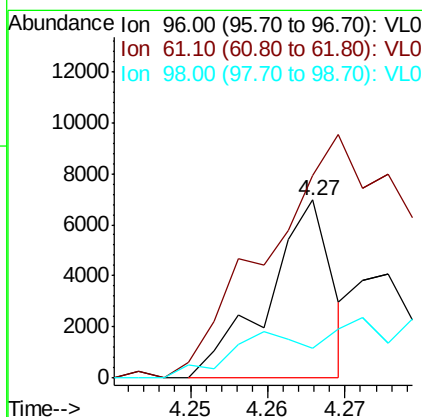
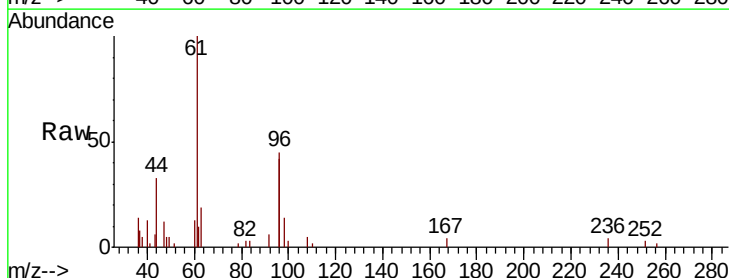
Tot Ion: 59 Resp: 8419
 Ion Ratio Lower Upper
 59 100
 57 27.9 8.7 13.1#

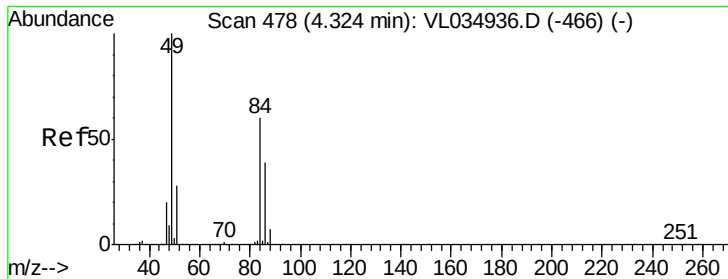


#18

1,1-Dichloroethene
 Concen: 0.078 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion: 96 Resp: 4021
 Ion Ratio Lower Upper
 96 100
 61 100.8 152.4 228.6#
 98 9.2 48.8 73.2#

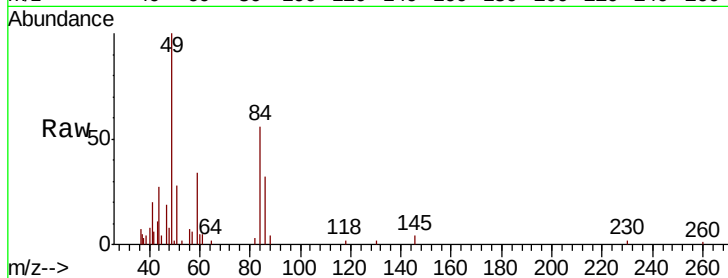




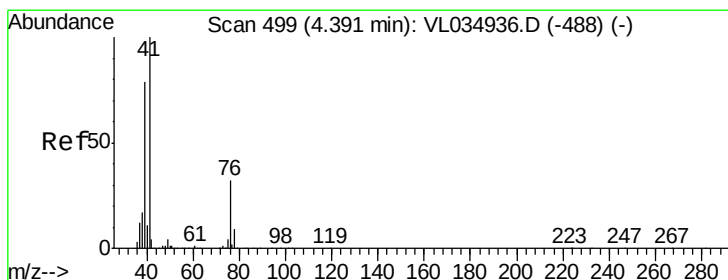
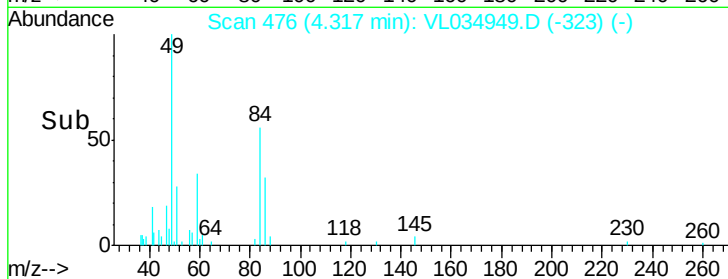
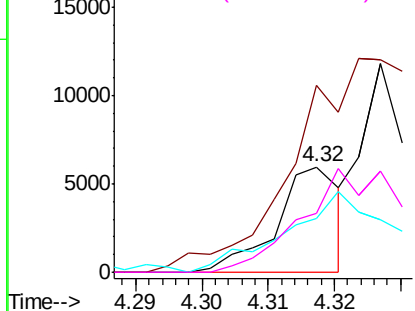
#20
Methylene Chloride
Concen: 0.080 ppbv
RT: 4.32 min Scan# 476
Delta R.T. -0.01 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	3998
Ion	Ratio	Lower	Upper
84	100		
49	159.0	132.5	198.7
51	50.6	38.4	57.6
86	56.3	51.2	76.8

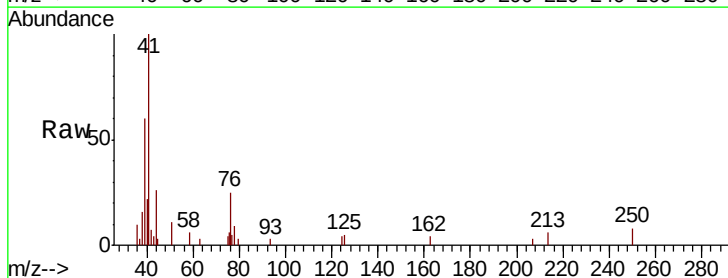


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

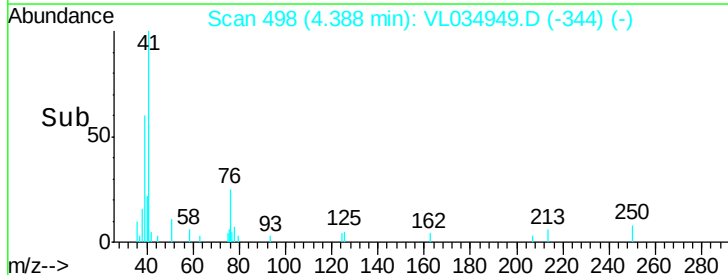
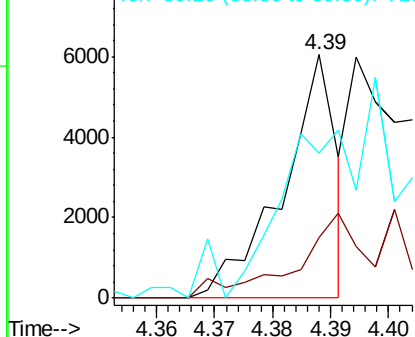


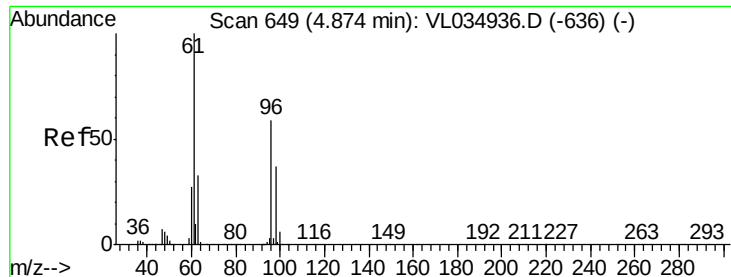
#21
Allyl Chloride
Concen: 0.046 ppbv
RT: 4.39 min Scan# 498
Delta R.T. -0.00 min
Lab File: VL034949.D
Acq: 6 May 2020 19:33

Tgt Ion:	41	Resp:	3896
Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.6	35.4#
39	0.0	61.9	92.9#



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: 0.067 ppbv

RT: 4.87 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

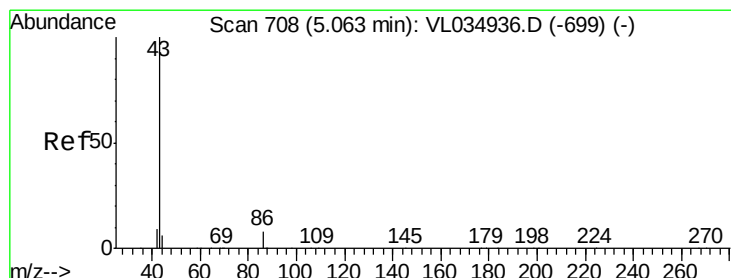
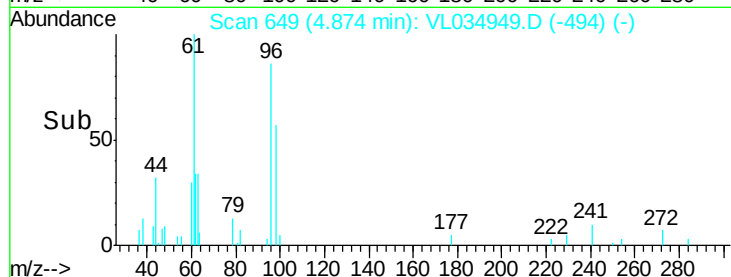
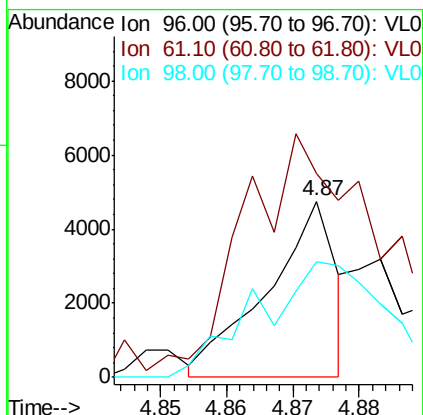
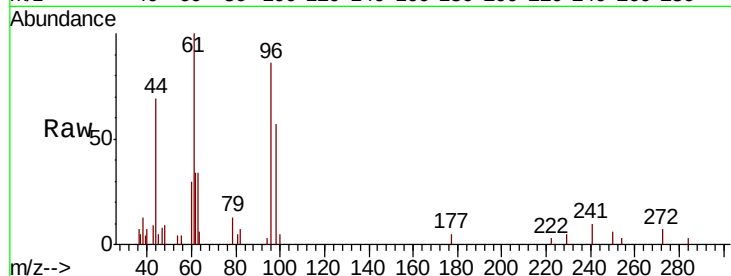
Tot Ion: 96 Resp: 3416

Ion Ratio Lower Upper

96 100

61 156.2 135.3 202.9

98 63.0 50.4 75.6



#23

Vinyl Acetate

Concen: 0.094 ppbv

RT: 5.07 min Scan# 709

Delta R.T. 0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Tgt Ion: 43 Resp: 17946

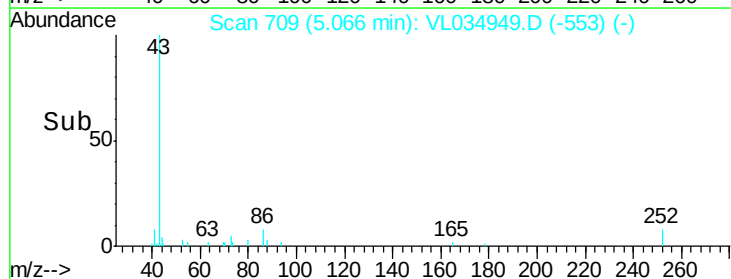
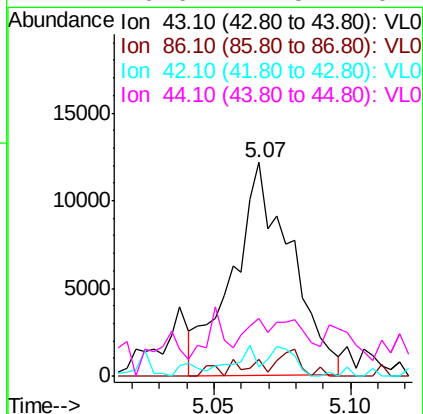
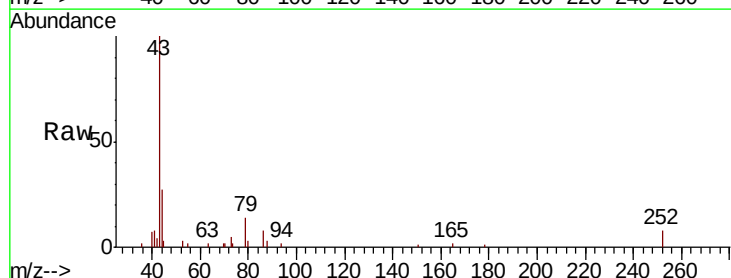
Ion Ratio Lower Upper

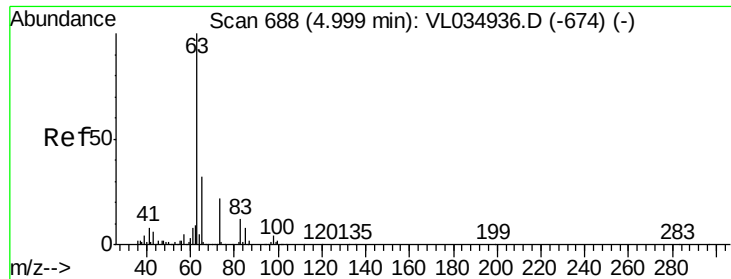
43 100

86 8.4 5.5 8.3#

42 4.6 8.0 12.0#

44 20.6 4.5 6.7#





#24

1,1-Dichloroethane

Concen: 0.104 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.00 min

Lab File: VL034949.D

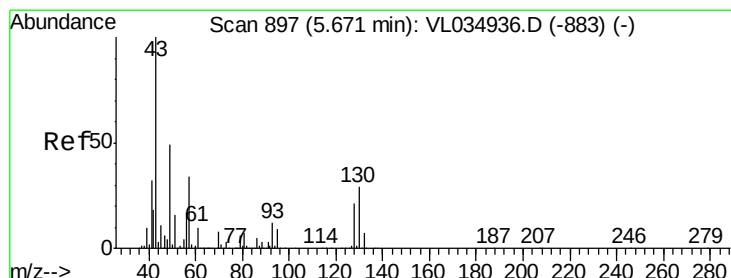
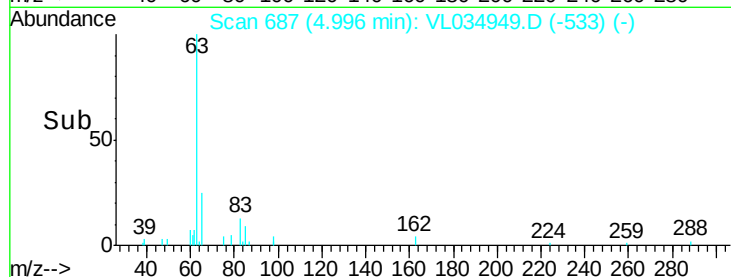
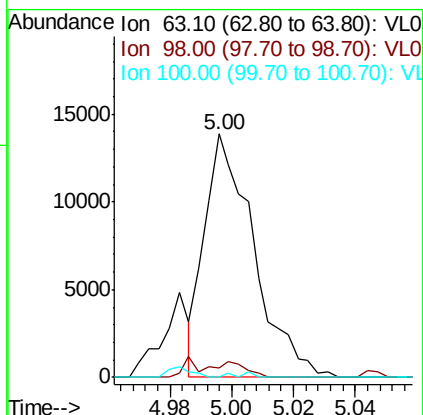
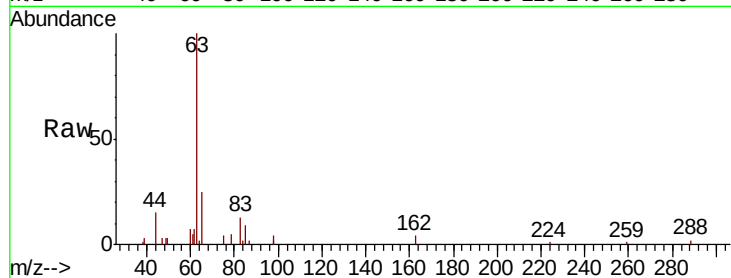
Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	15324
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.0	6.0
100	0.0	1.1	3.5#



#25

Ethyl Acetate

Concen: 0.102 ppbv

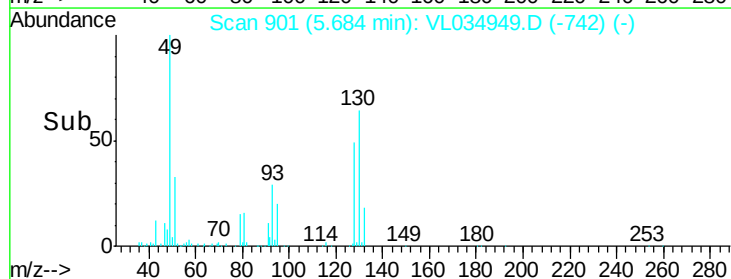
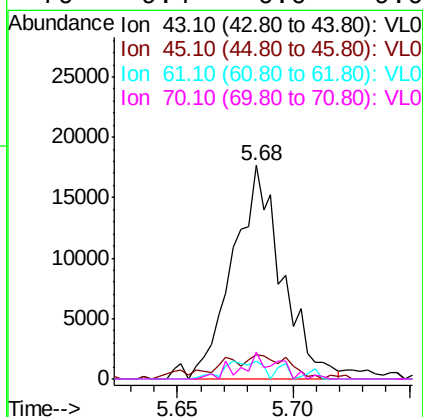
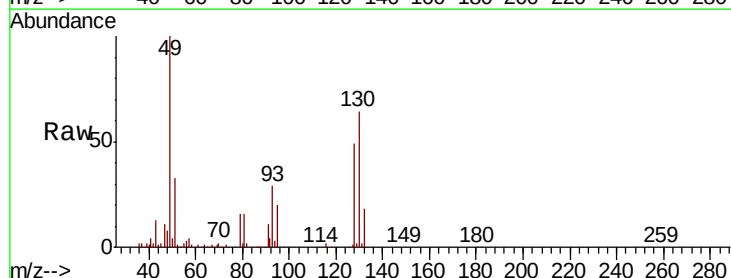
RT: 5.68 min Scan# 901

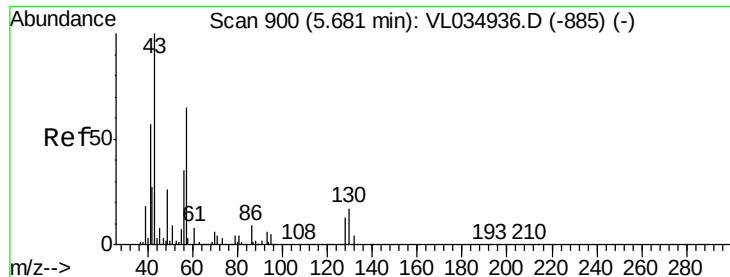
Delta R.T. 0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Tgt Ion:	43	Resp:	25883
Ion	Ratio	Lower	Upper
43	100		
45	17.6	8.1	12.1#
61	8.1	7.8	11.8
70	9.4	6.0	9.0#





#26

Hexane

Concen: 0.059 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 6486

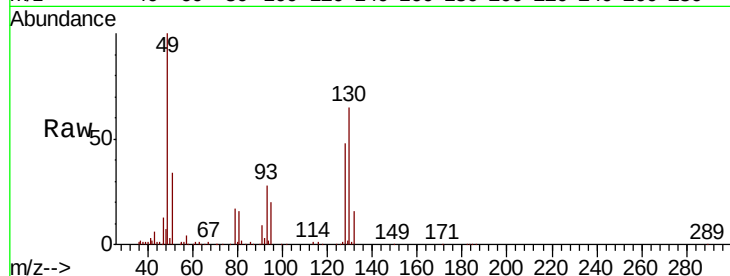
Ion Ratio Lower Upper

57 100

41 0.0 72.7 109.1#

43 0.0 182.1 273.1#

56 92.7 42.2 63.2#

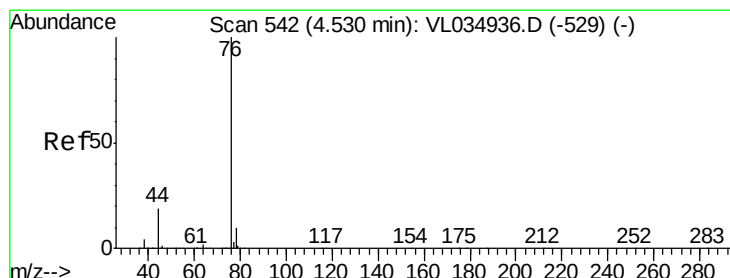
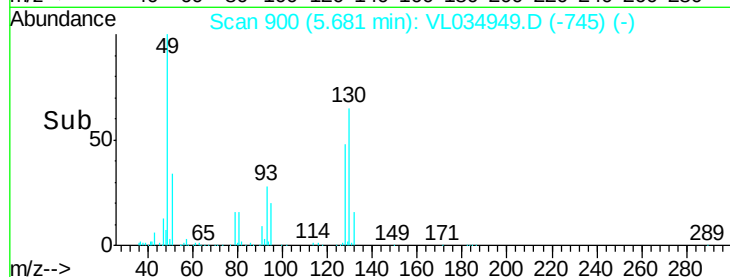
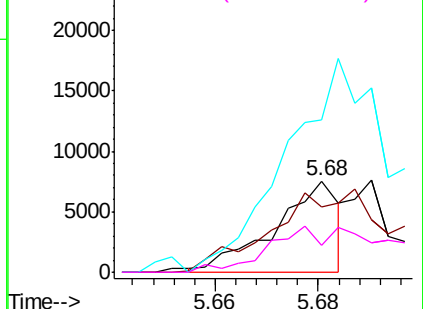


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.074 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

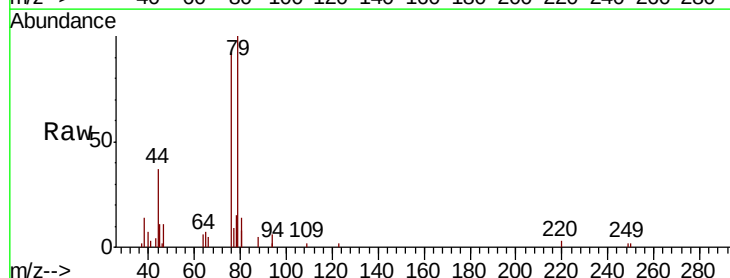
Tgt Ion: 76 Resp: 9649

Ion Ratio Lower Upper

76 100

44 55.8 15.2 22.8#

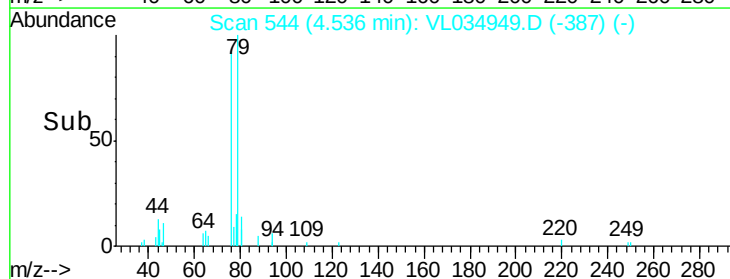
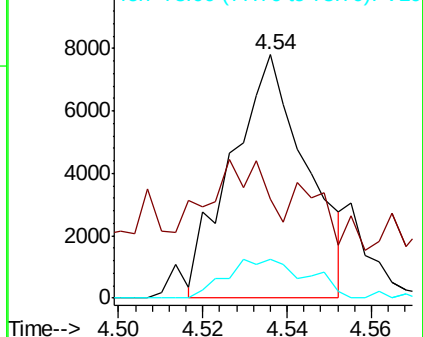
78 18.7 7.7 11.5#

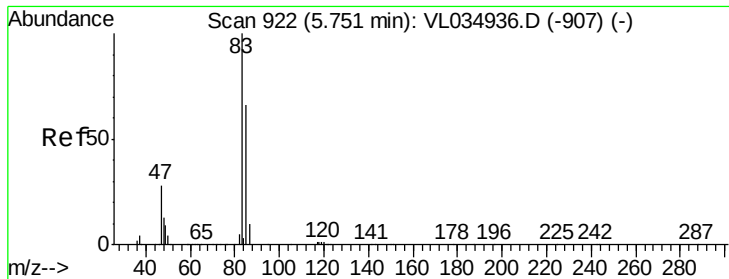


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 0.119 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

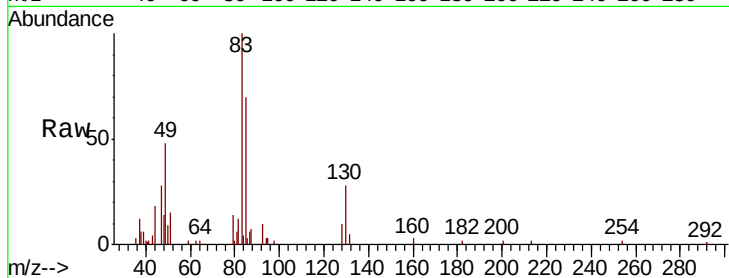
ClientSampleId :

Tot Ion: 83 Resp: 21464

Ion Ratio Lower Upper

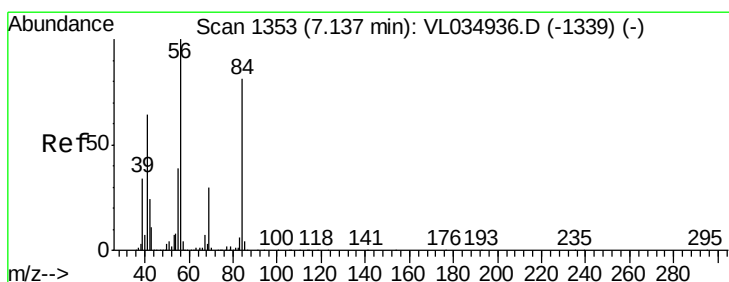
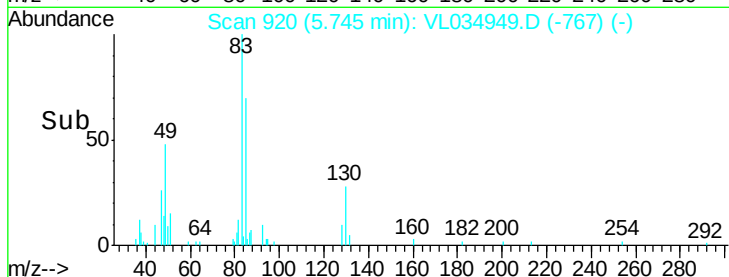
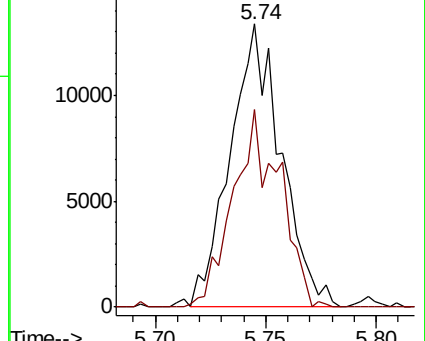
83 100

85 72.8 53.0 79.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.024 ppbv

RT: 7.13 min Scan# 1351

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

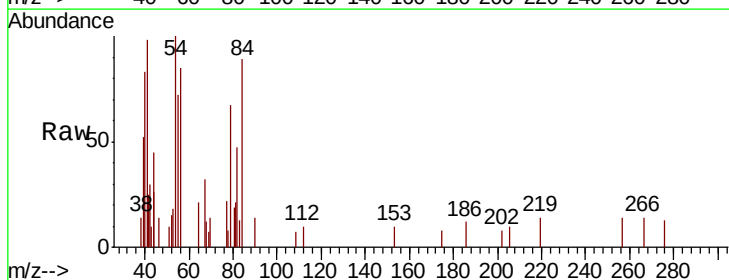
Tgt Ion: 84 Resp: 2015

Ion Ratio Lower Upper

84 100

56 0.0 111.4 167.2#

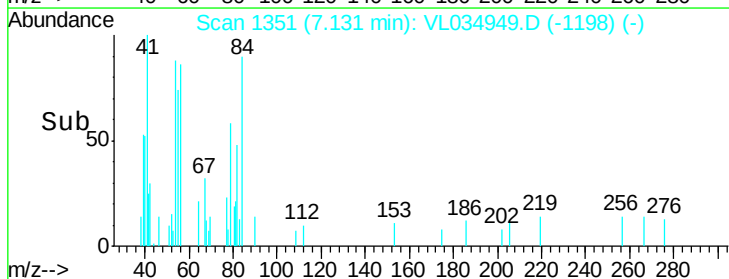
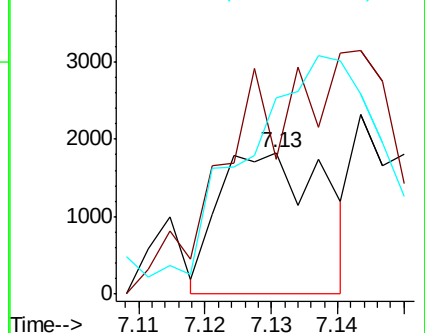
41 0.0 66.7 100.1#

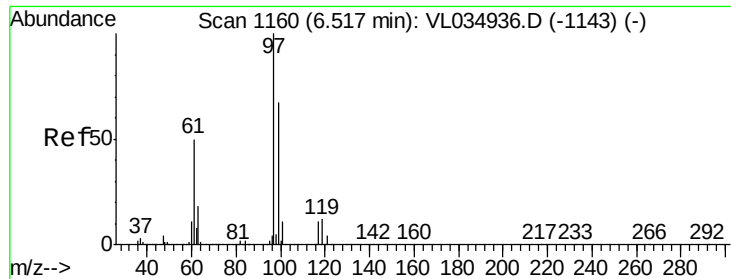


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#32

1,1,1-Trichloroethane

Concen: 0.062 ppbv

RT: 6.52 min Scan# 1160

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

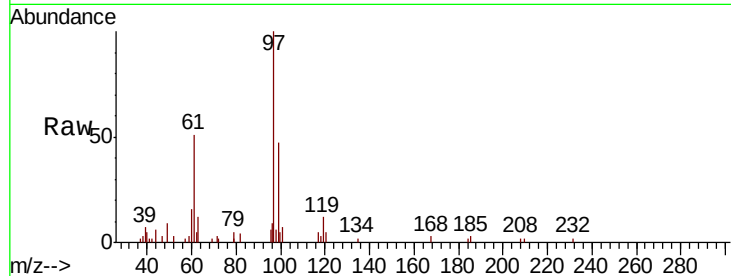
Tot Ion: 97 Resp: 10043

Ion Ratio Lower Upper

97 100

99 0.0 52.1 78.1#

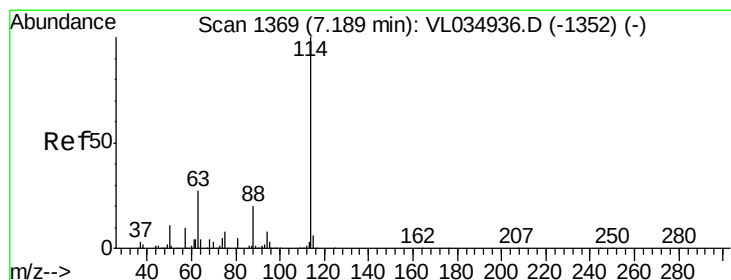
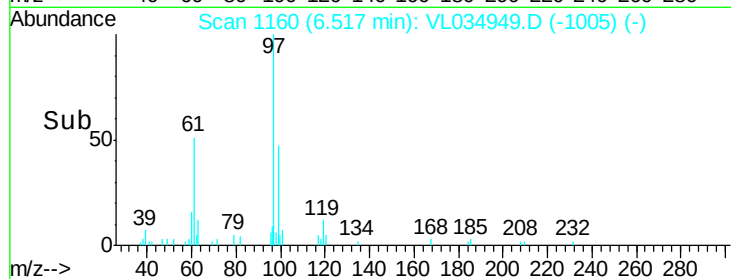
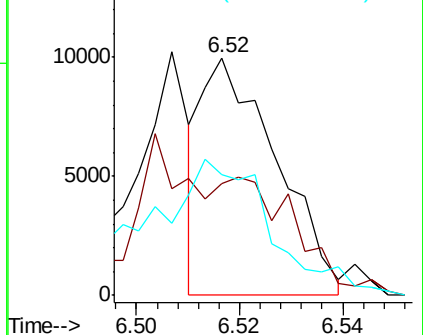
61 96.3 41.8 62.8#



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: 7.19 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

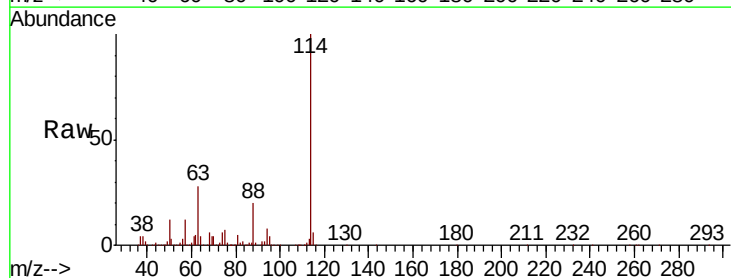
Tgt Ion: 114 Resp: 2622875

Ion Ratio Lower Upper

114 100

63 27.9 22.2 33.4

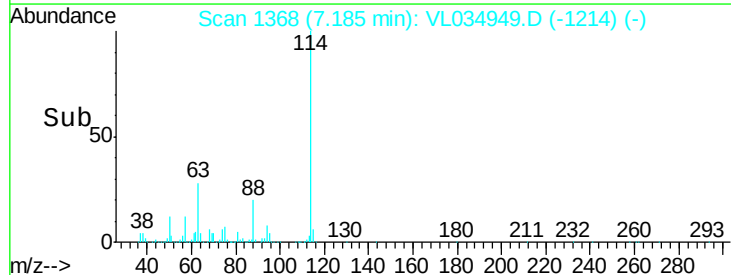
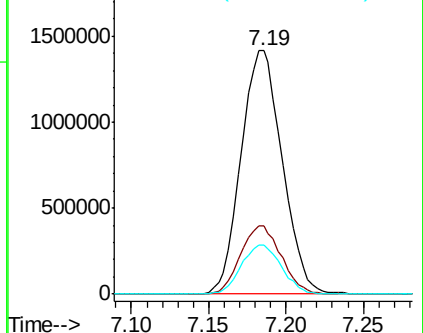
88 19.9 15.5 23.3

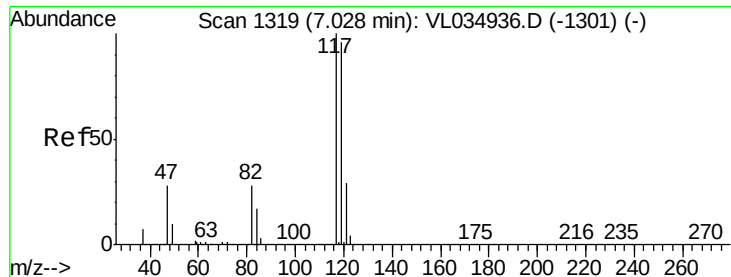


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#35

Carbon Tetrachloride

Concen: 0.040 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

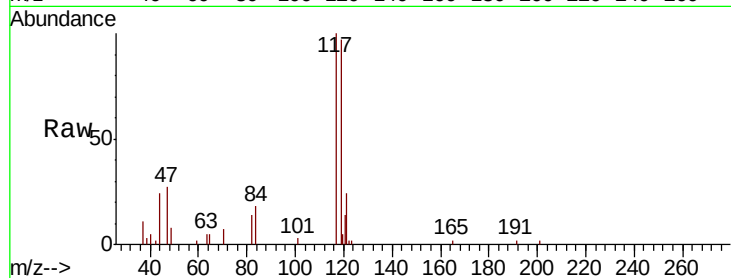
Tot Ion:117 Resp: 6669

Ion Ratio Lower Upper

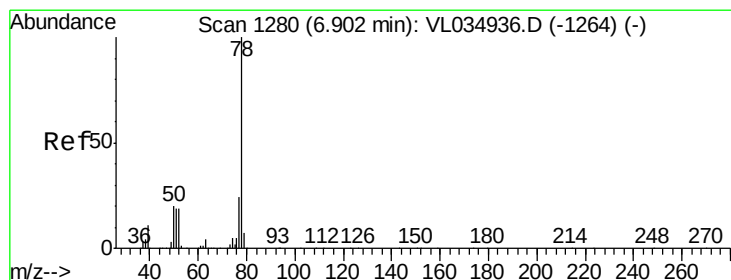
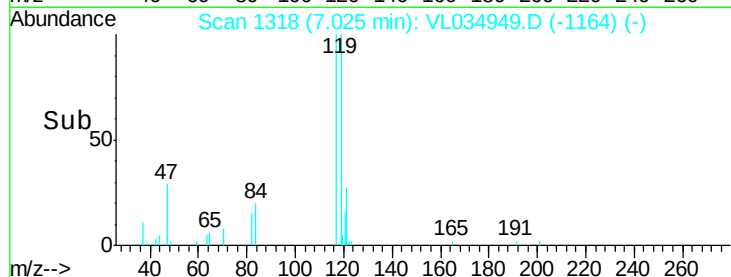
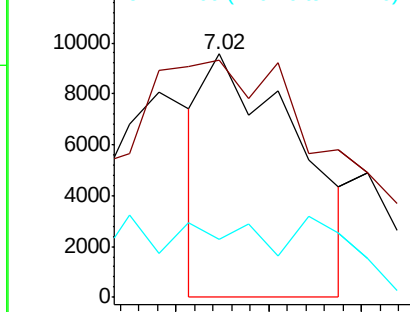
117 100

119 67.4 77.0 115.6#

121 0.0 23.0 34.6#



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: 0.068 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

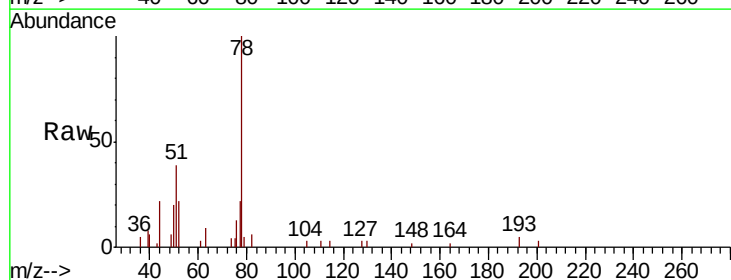
Tgt Ion: 78 Resp: 14797

Ion Ratio Lower Upper

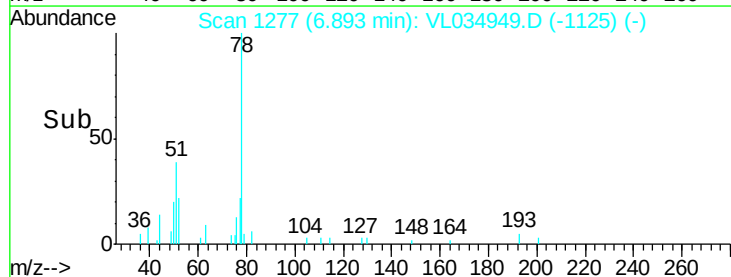
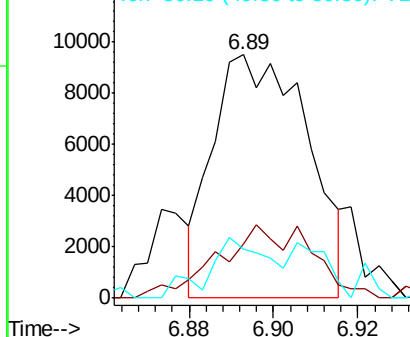
78 100

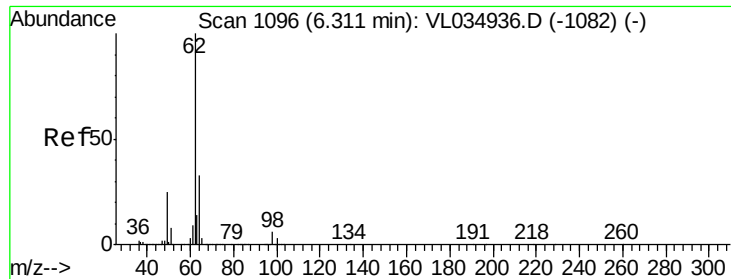
77 23.8 19.0 28.6

50 18.2 15.8 23.8



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

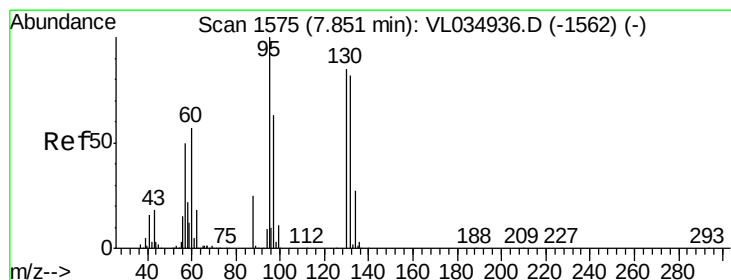
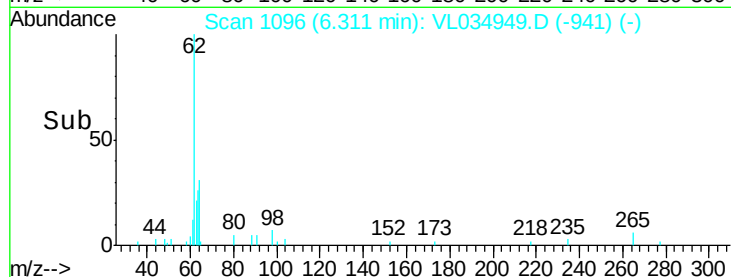
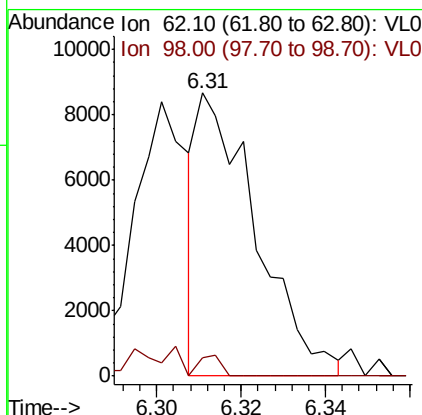
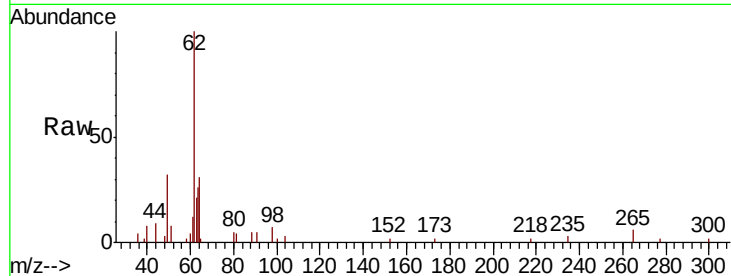




#37
 1,2-Dichloroethane
 Concen: 0.063 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

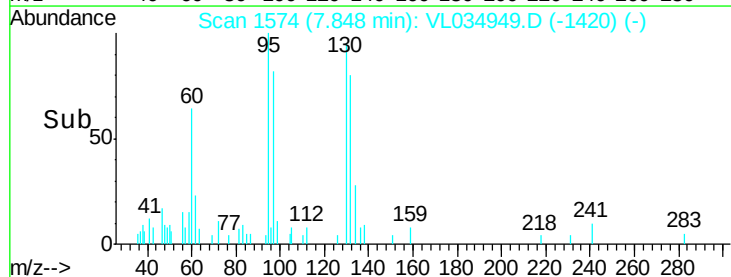
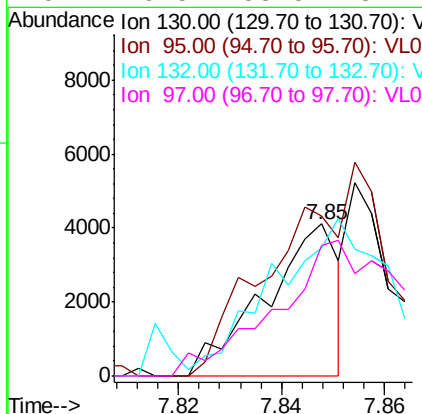
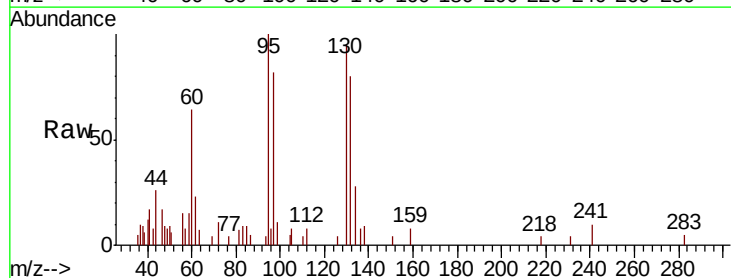
Instrument :
 MSVOA_L
 ClientSampleID :

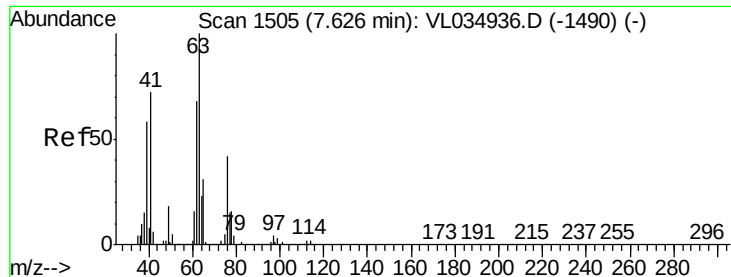
Tot Ion: 62 Resp: 8398
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.8 7.2#



#38
 Trichloroethene
 Concen: 0.048 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion: 130 Resp: 4060
 Ion Ratio Lower Upper
 130 100
 95 105.2 93.4 140.0
 132 80.0 76.4 114.6
 97 70.5 58.5 87.7





#39

1,2-Dichloropropane

Concen: 8.386 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.44 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

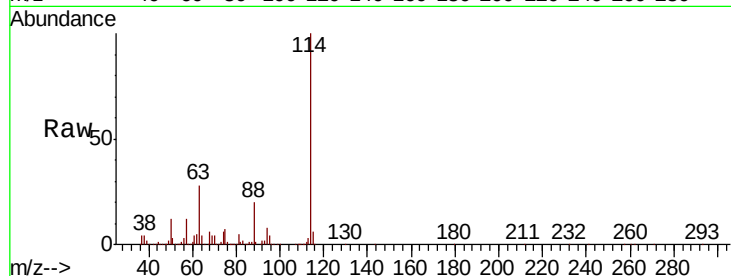
Tot Ion: 63 Resp: 726980

Ion Ratio Lower Upper

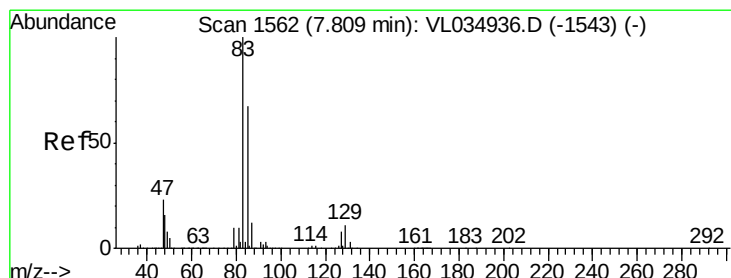
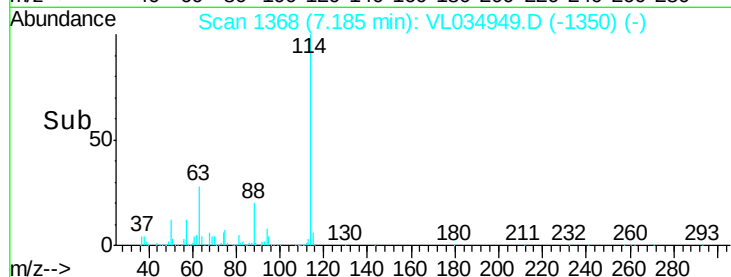
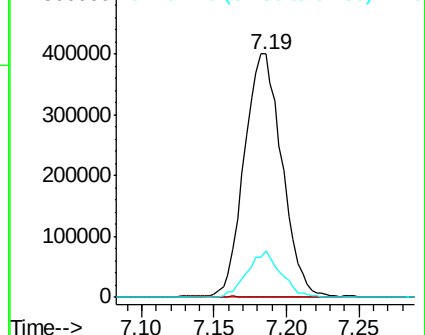
63 100

41 0.0 57.8 86.8#

62 18.9 54.2 81.2#



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



#42

Bromodichloromethane

Concen: 0.026 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

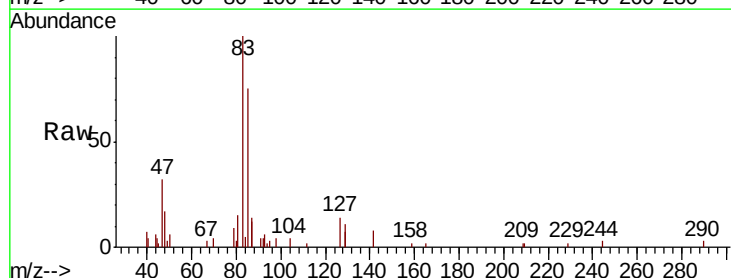
Tgt Ion: 83 Resp: 4659

Ion Ratio Lower Upper

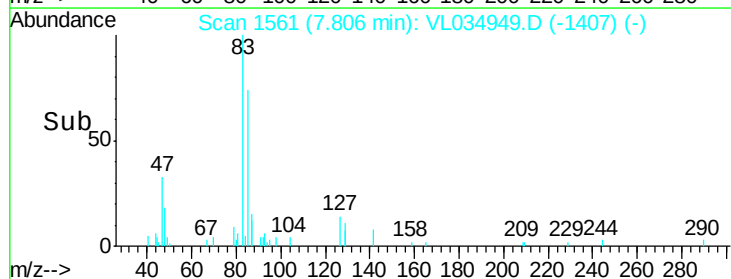
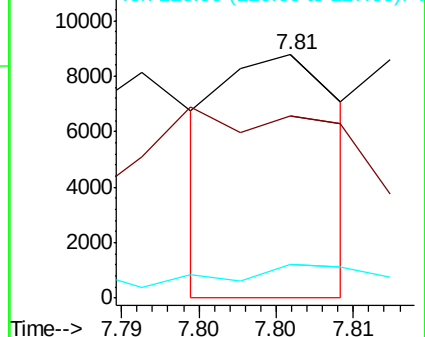
83 100

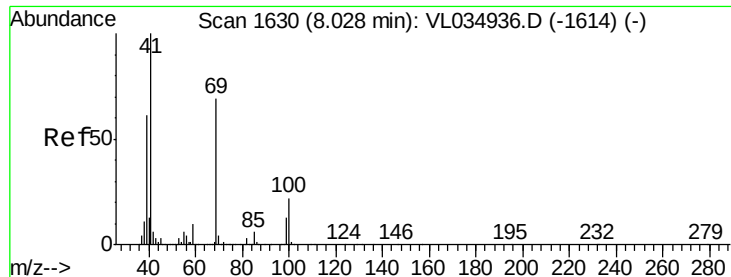
85 13.5 53.4 80.0#

127 19.2 6.1 9.1#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 0.072 ppbv

RT: 8.03 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

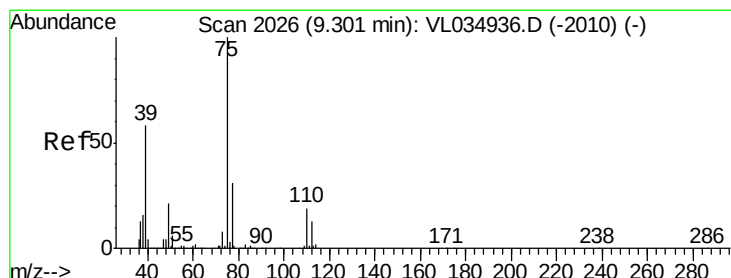
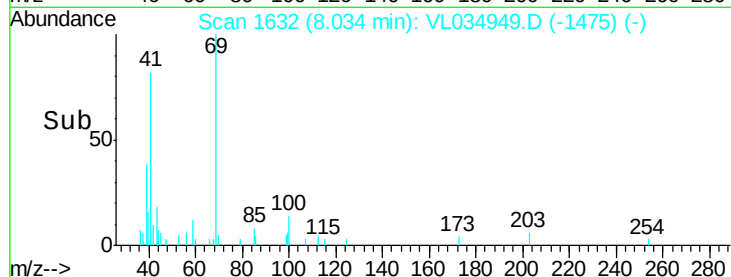
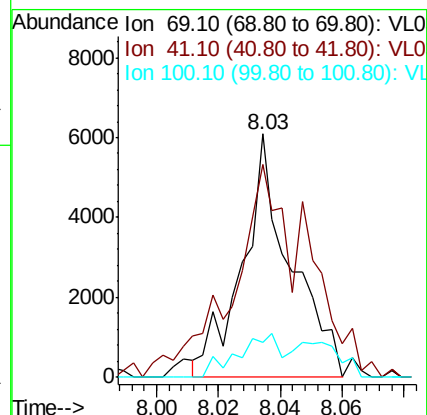
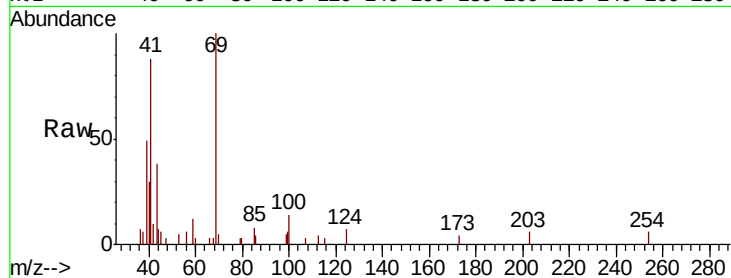
Tot Ion: 69 Resp: 6540

Ion Ratio Lower Upper

69 100

41 136.7 119.8 179.6

100 29.8 25.0 37.6



#45

t-1,3-Dichloropropene

Concen: 0.028 ppbv

RT: 9.30 min Scan# 2025

Delta R.T. -0.00 min

Lab File: VL034949.D

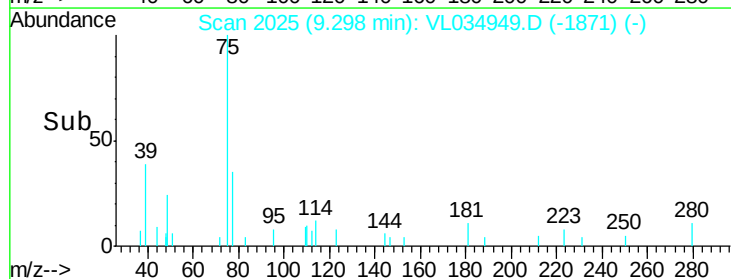
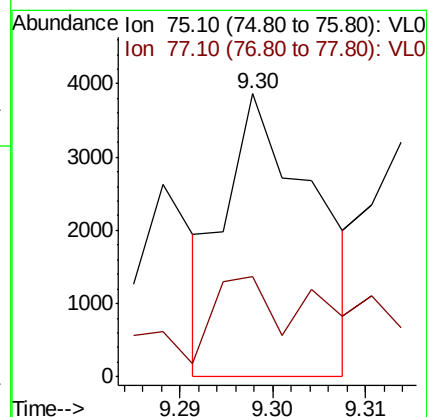
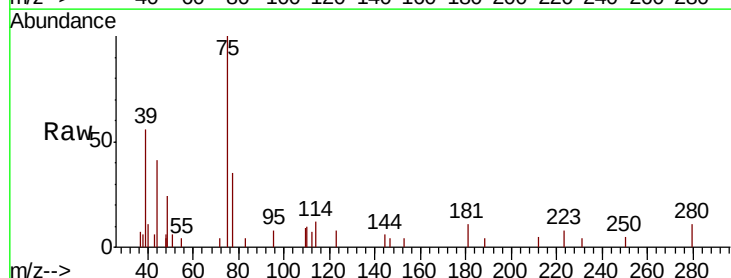
Acq: 6 May 2020 19:33

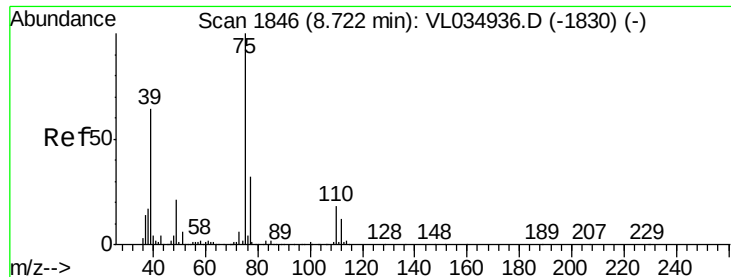
Tgt Ion: 75 Resp: 2554

Ion Ratio Lower Upper

75 100

77 35.3 24.9 37.3

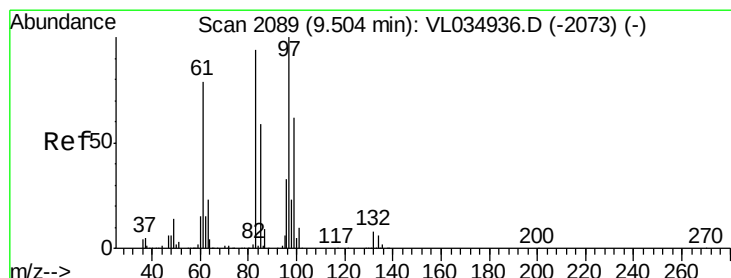
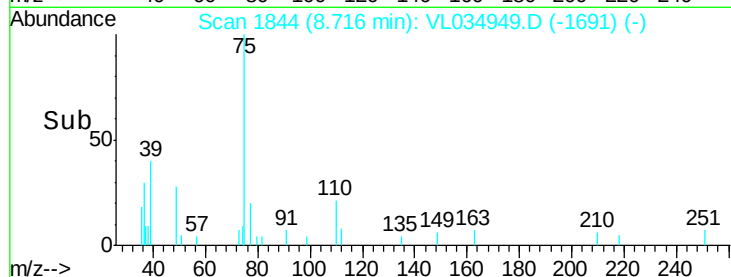
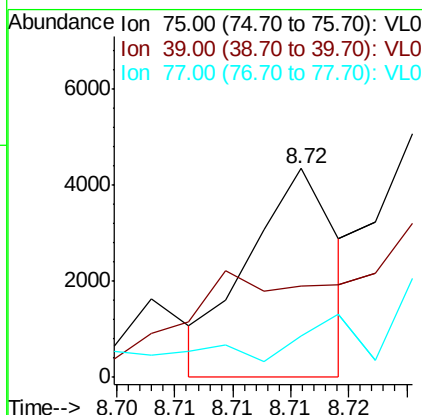
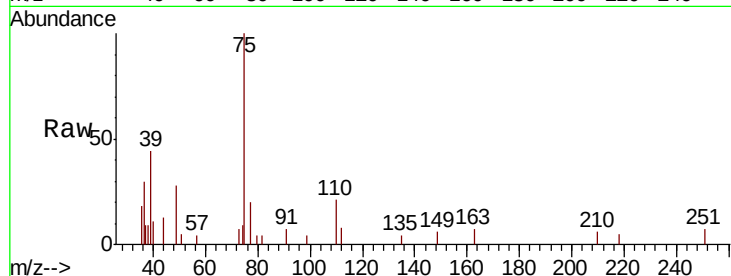




#46
 cis-1,3-Dichloropropene
 Concen: 0.020 ppbv
 RT: 8.72 min Scan# 1844
 Delta R.T. -0.01 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

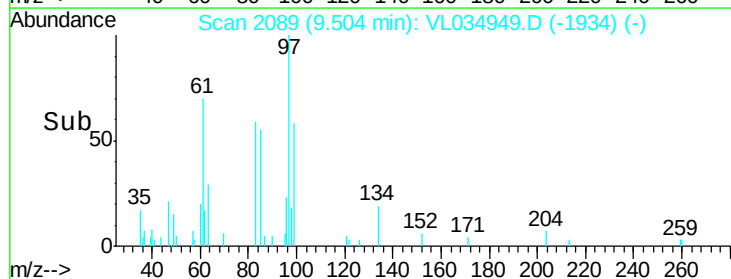
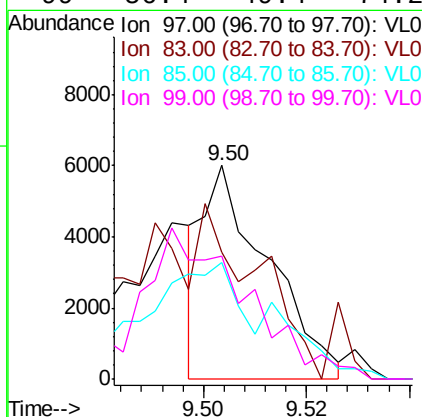
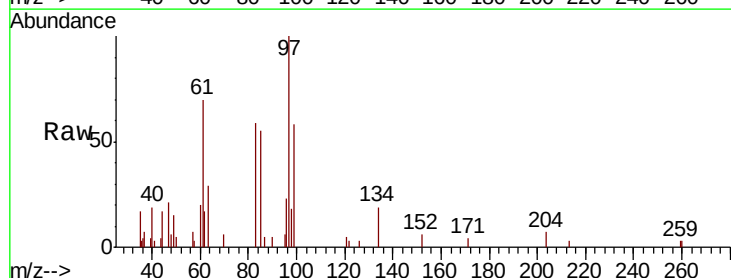
Instrument :
 MSVOA_L
 ClientSampleId :

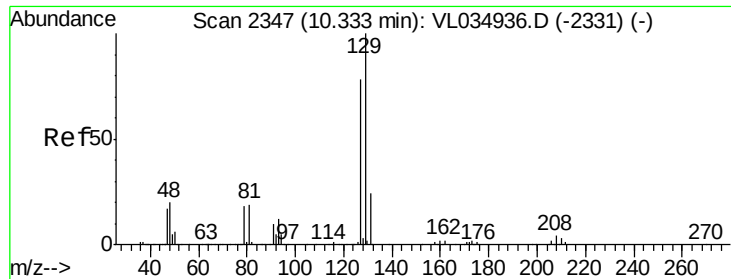
Tot Ion: 75 Resp: 2302
 Ion Ratio Lower Upper
 75 100
 39 22.5 51.5 77.3#
 77 9.2 25.5 38.3#



#47
 1,1,2-Trichloroethane
 Concen: 0.057 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion: 97 Resp: 5251
 Ion Ratio Lower Upper
 97 100
 83 25.2 75.6 113.4#
 85 54.0 47.0 70.6
 99 56.4 49.4 74.2





#48

Dibromochloromethane

Concen: 0.062 ppbv

RT: 10.33 min Scan# 2347

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

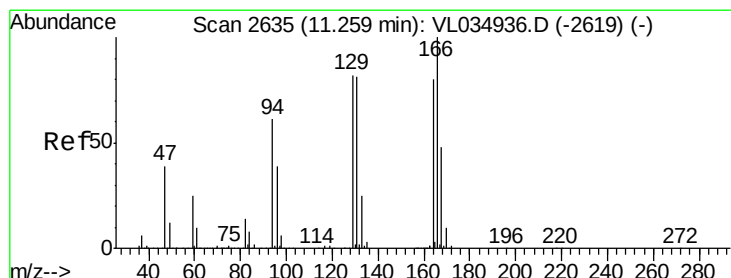
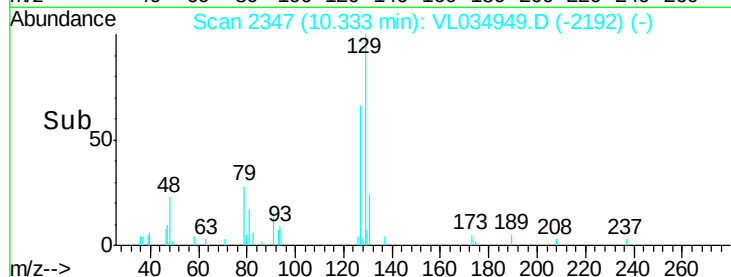
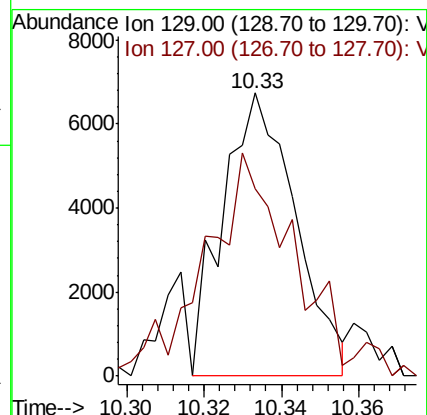
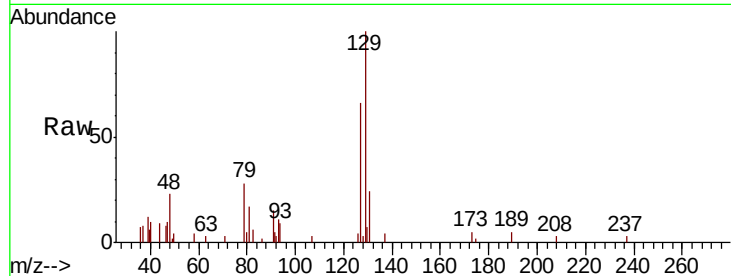
ClientSampleId :

Tot Ion:129 Resp: 8785

Ion Ratio Lower Upper

129 100

127 98.4 39.1 117.2



#52

Tetrachloroethene

Concen: 0.045 ppbv

RT: 11.26 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Tgt Ion:164 Resp: 3457

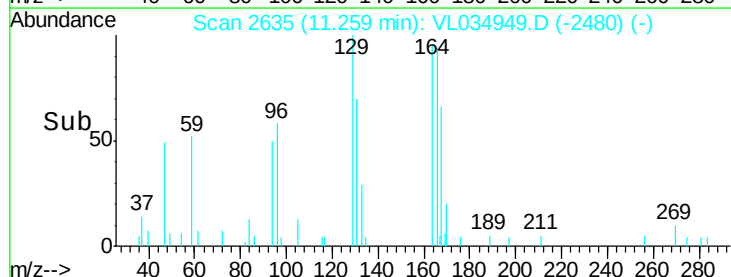
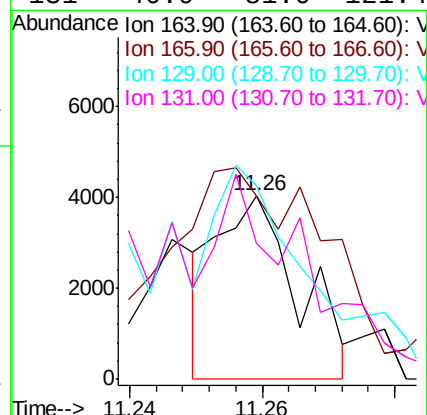
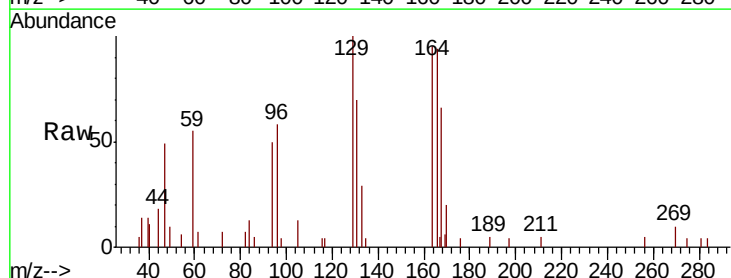
Ion Ratio Lower Upper

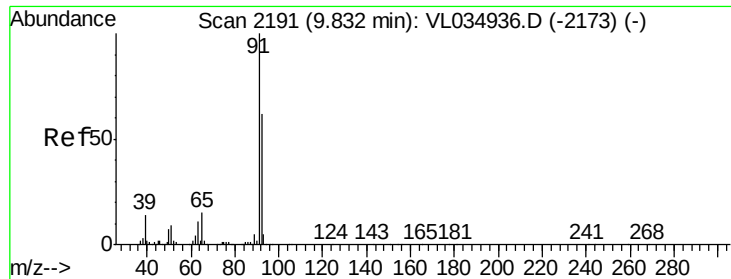
164 100

166 28.8 100.7 151.1#

129 91.4 83.0 124.4

131 40.9 81.0 121.4#





#53

Toluene

Concen: 0.030 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

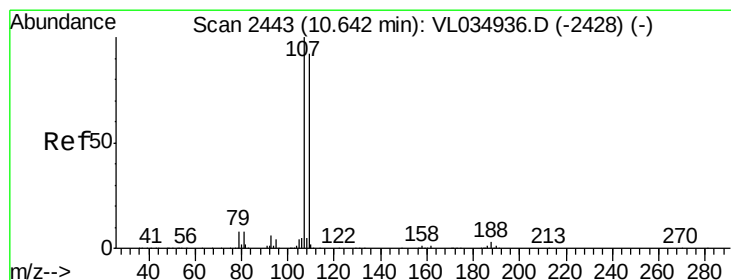
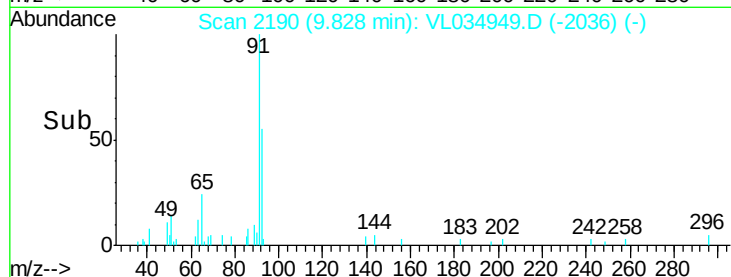
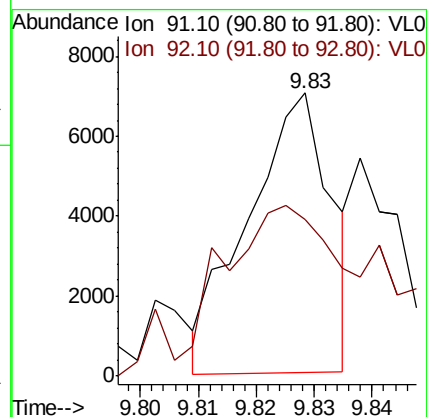
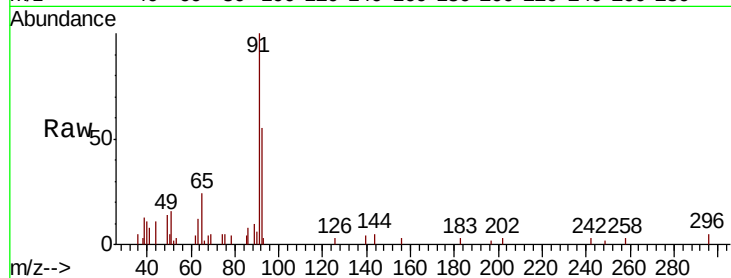
ClientSampleId :

Tot Ion: 91 Resp: 6972

Ion Ratio Lower Upper

91 100

92 126.3 48.6 73.0#



#54

1,2-Dibromoethane

Concen: 0.028 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL034949.D

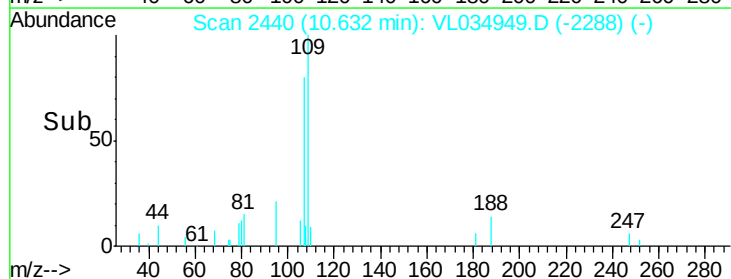
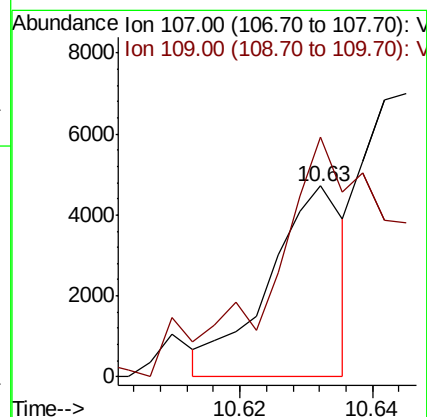
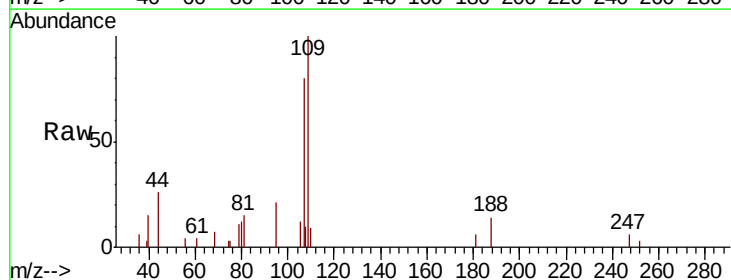
Acq: 6 May 2020 19:33

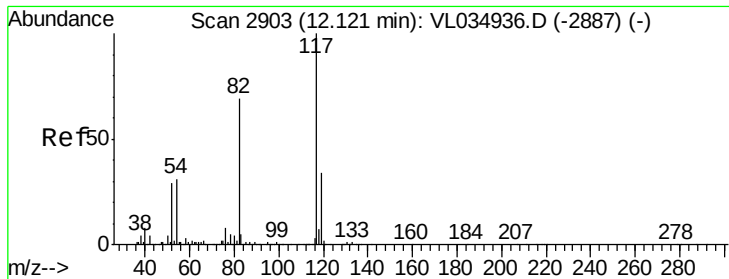
Tgt Ion: 107 Resp: 3711

Ion Ratio Lower Upper

107 100

109 124.8 73.2 109.8#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

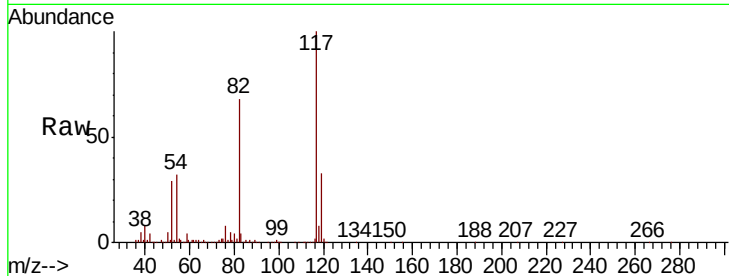
Tot Ion:117 Resp: 2453671

Ion Ratio Lower Upper

117 100

82 69.9 53.1 79.7

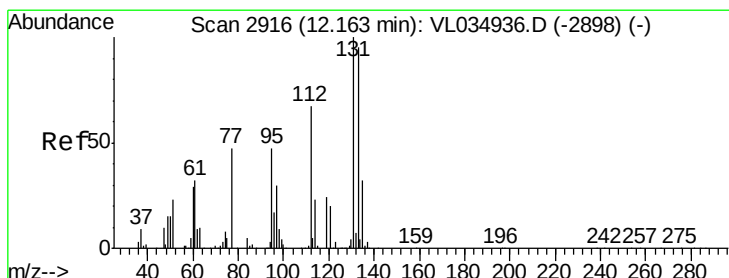
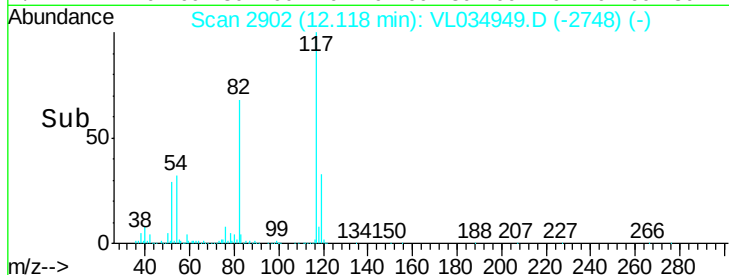
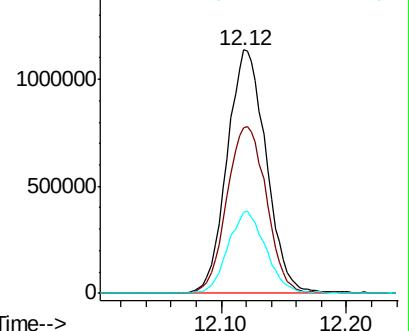
119 32.9 26.7 40.1



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.023 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

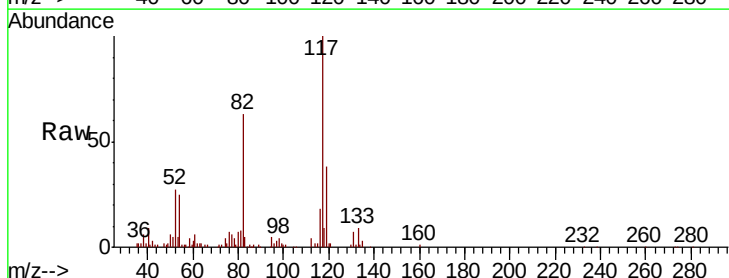
Tgt Ion:131 Resp: 2507

Ion Ratio Lower Upper

131 100

133 455.8 77.7 116.5#

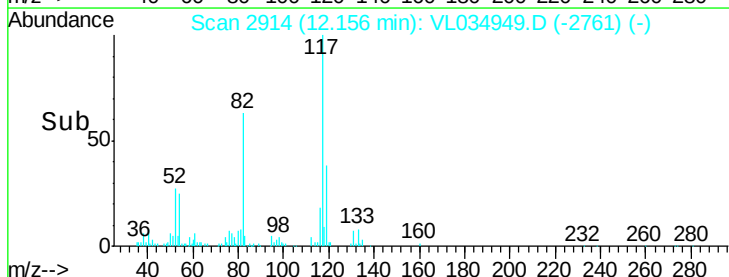
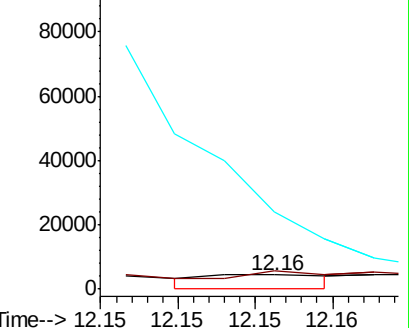
119 0.0 49.8 74.6#

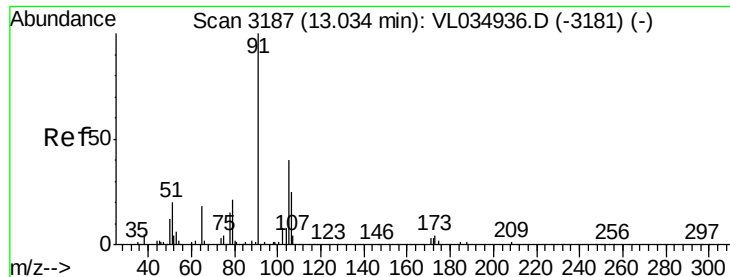


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

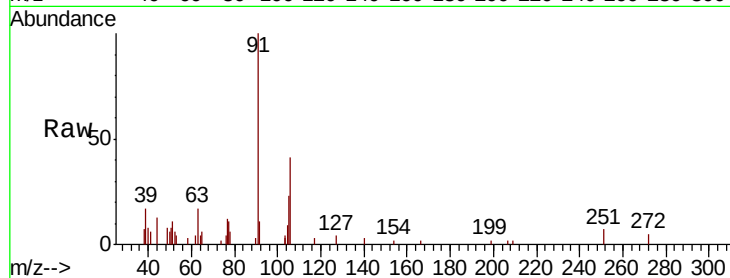
ClientSampleId :

Tot Ion: 91 Resp: 8881

Ion Ratio Lower Upper

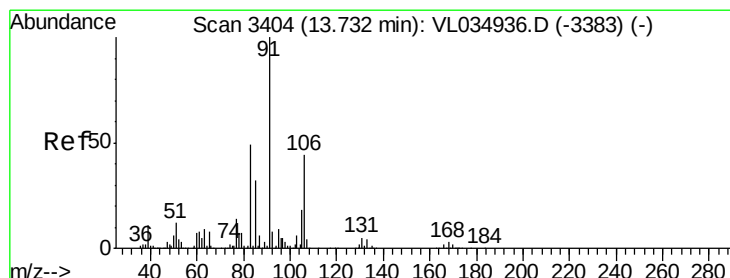
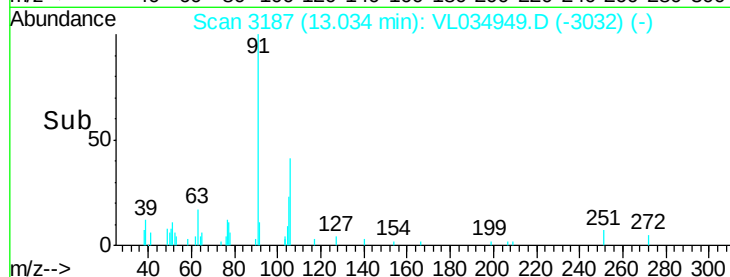
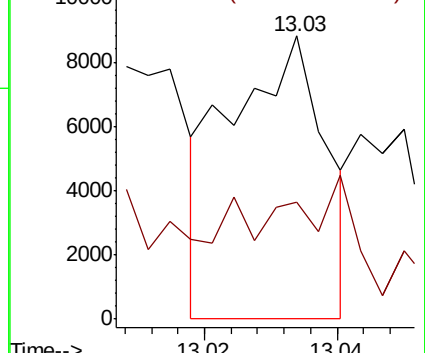
91 100

106 84.3 66.0 99.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.024 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. -0.00 min

Lab File: VL034949.D

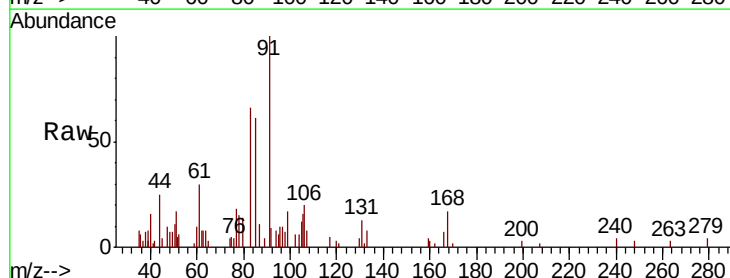
Acq: 6 May 2020 19:33

Tgt Ion: 91 Resp: 6382

Ion Ratio Lower Upper

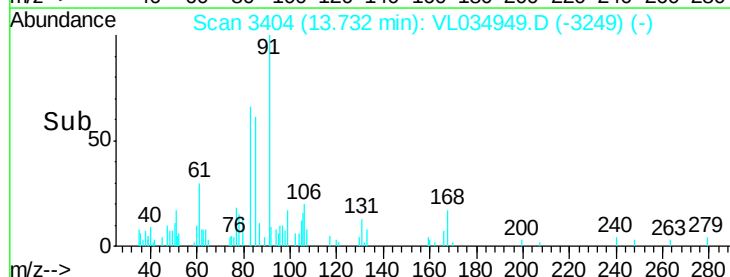
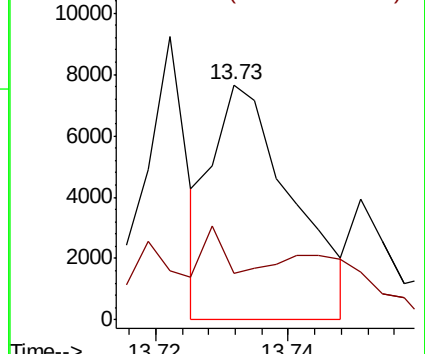
91 100

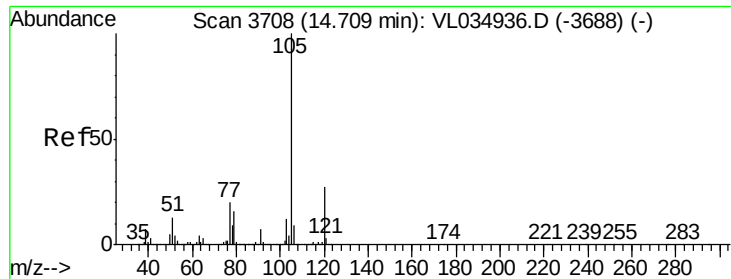
106 88.7 21.9 65.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.029 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

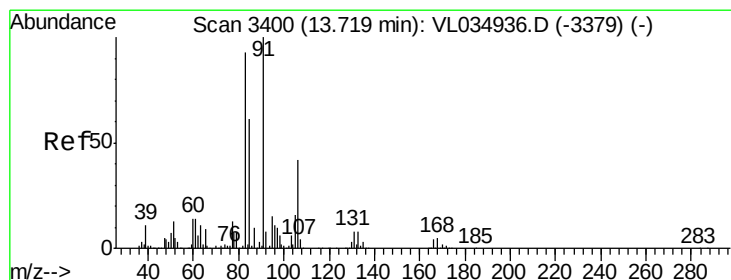
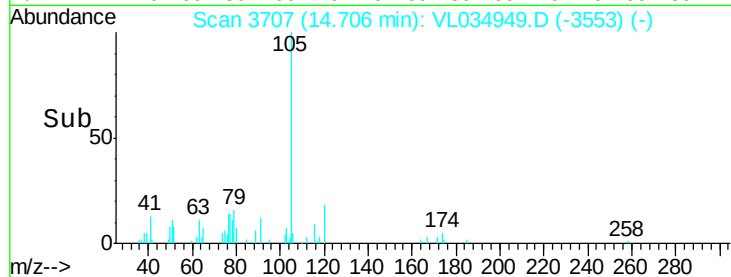
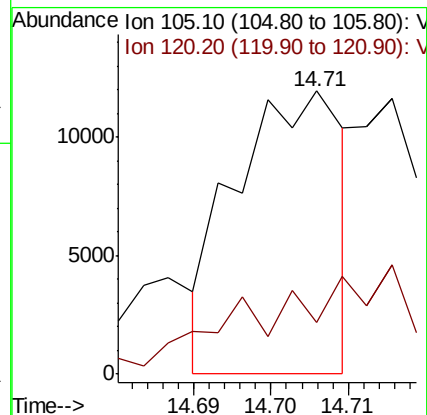
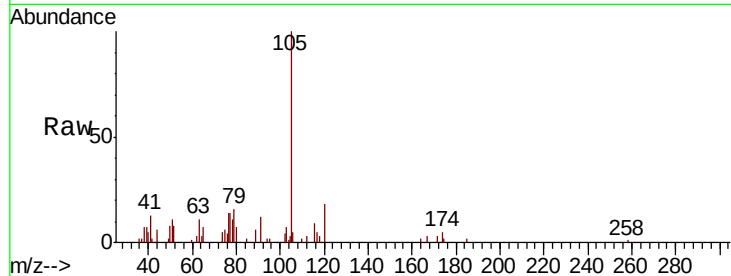
ClientSampleId :

Tot Ion:105 Resp: 11584

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.054 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

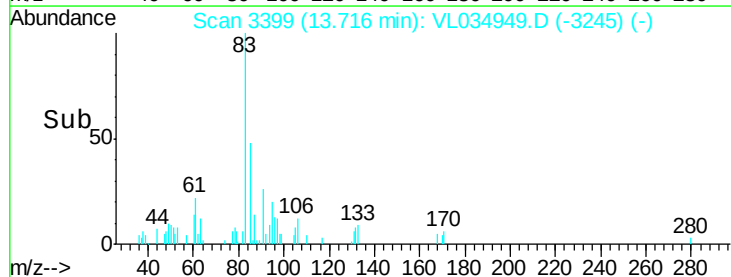
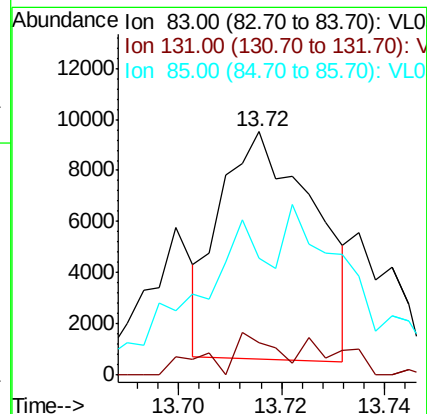
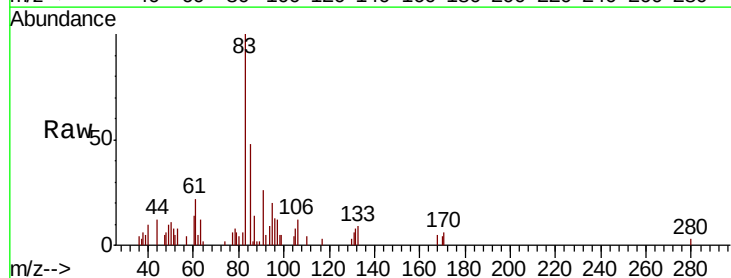
Tgt Ion: 83 Resp: 11244

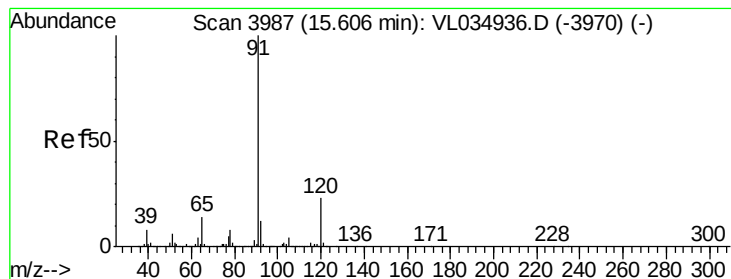
Ion Ratio Lower Upper

83 100

131 20.5 4.7 14.0#

85 123.4 32.5 97.4#





#64

n-propylbenzene

Concen: 0.029 ppbv

RT: 15.60 min Scan# 3985

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

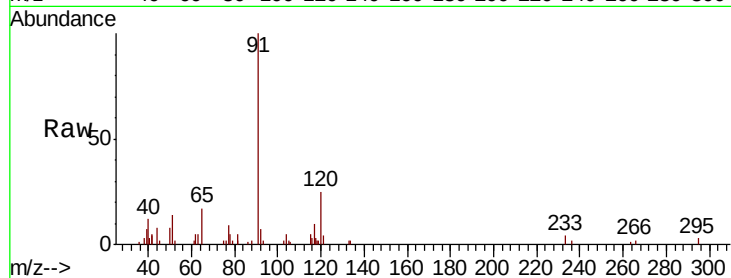
ClientSampleId :

Tot Ion:120 Resp: 2965

Ion Ratio Lower Upper

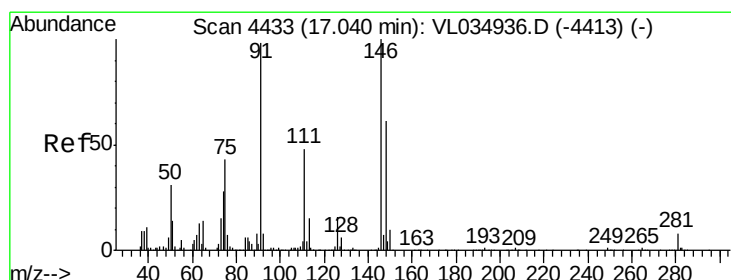
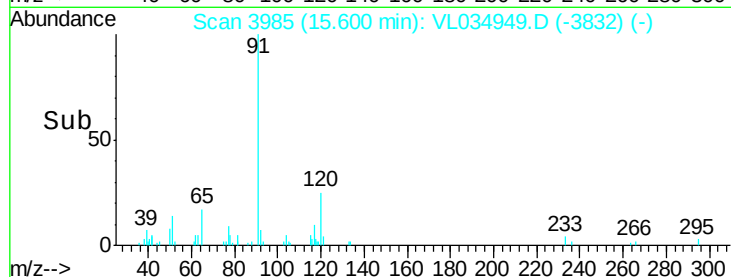
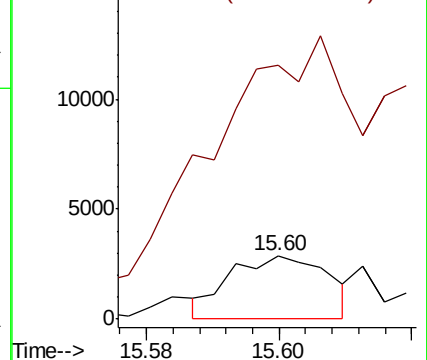
120 100

91 0.0 373.5 560.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#66

Benzyl Chloride

Concen: 0.029 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

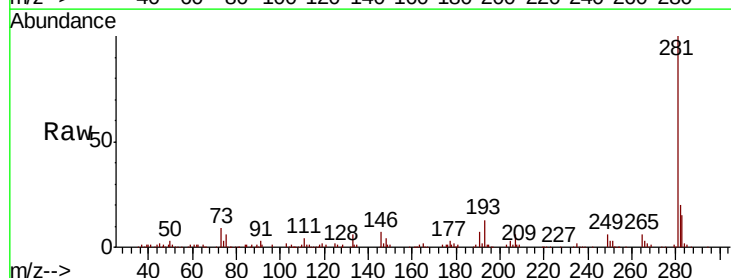
Tgt Ion: 91 Resp: 3313

Ion Ratio Lower Upper

91 100

126 46.9 13.8 20.6#

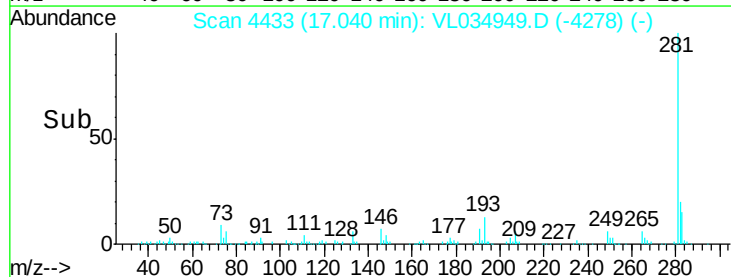
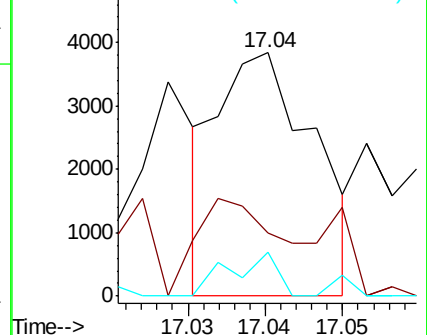
128 0.0 4.3 6.5#

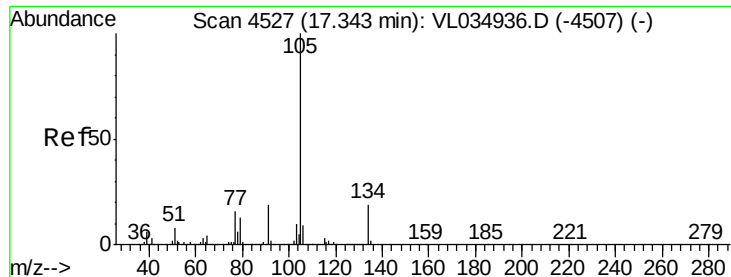


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.027 ppbv

RT: 17.34 min Scan# 4527

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

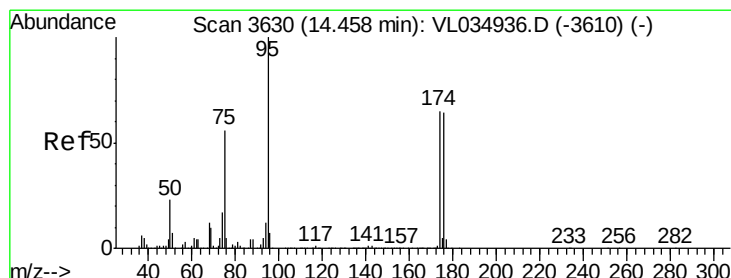
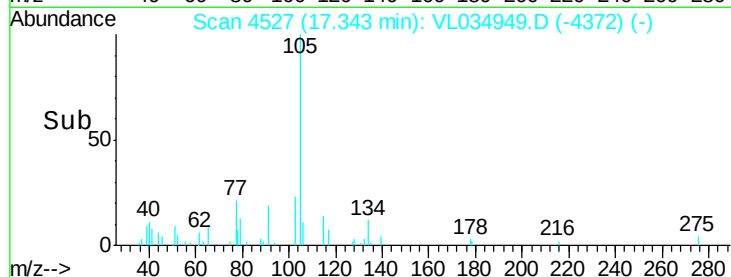
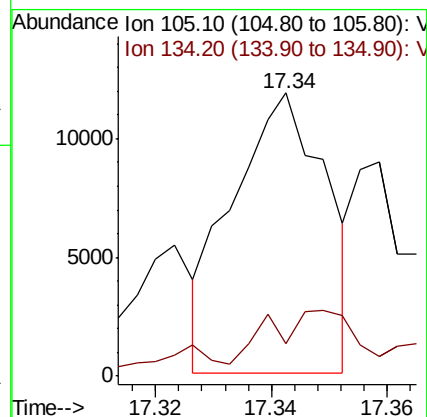
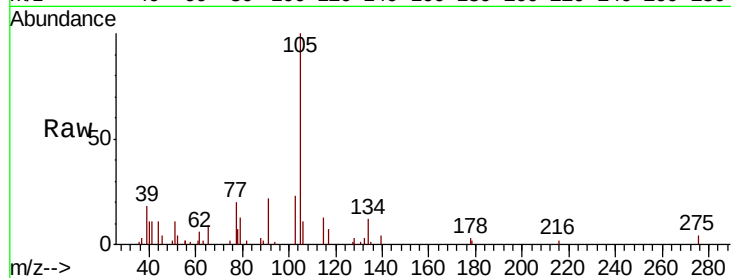
ClientSampled :

Tot Ion:105 Resp: 13251

Ion Ratio Lower Upper

105 100

134 39.9 14.8 22.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.341 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

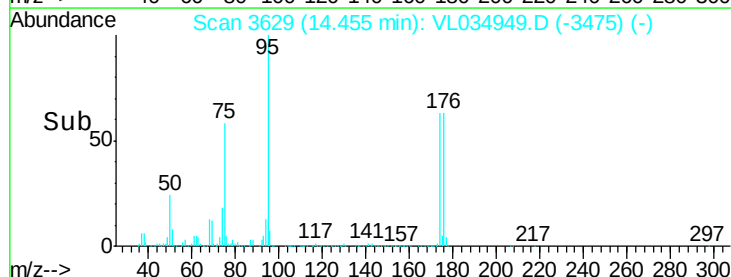
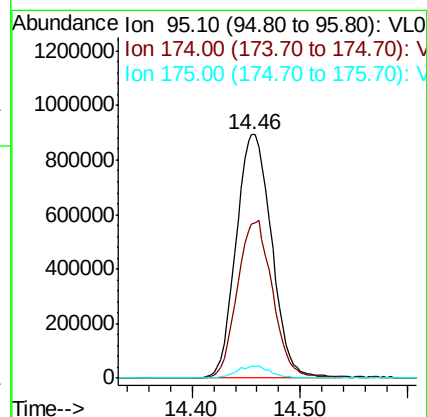
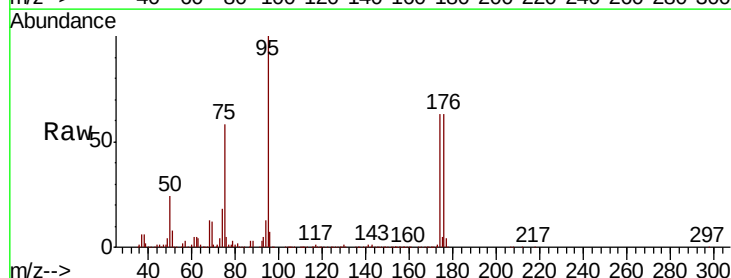
Tgt Ion: 95 Resp: 2053892

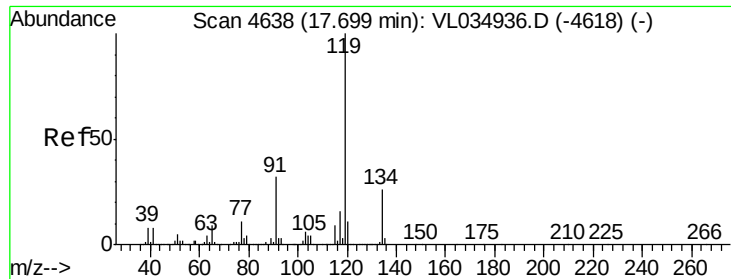
Ion Ratio Lower Upper

95 100

174 64.5 51.5 77.3

175 4.8 3.8 5.8

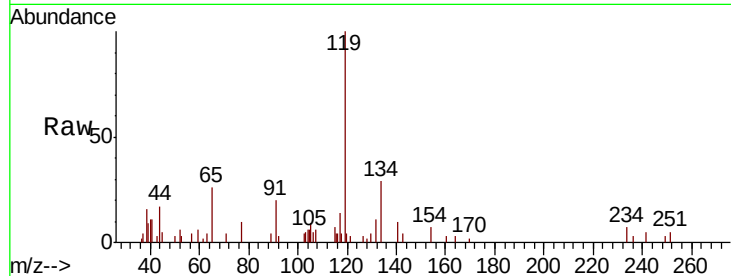




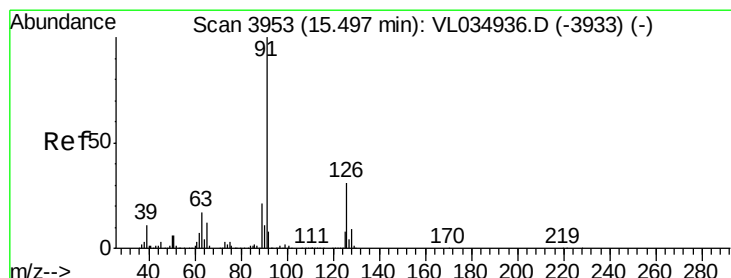
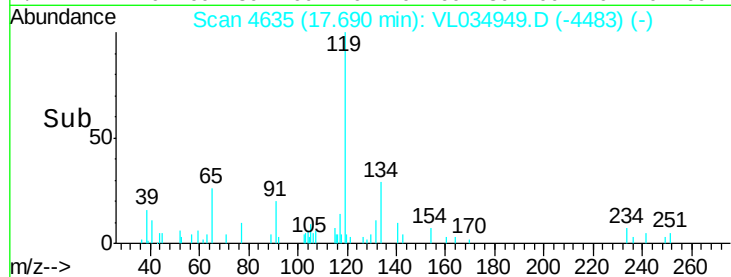
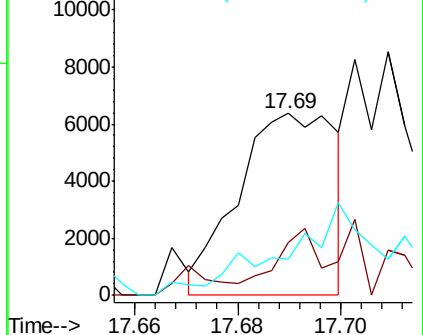
#69
 p-Isopropyltoluene
 Concen: 0.021 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.01 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:119 Resp: 8375
 Ion Ratio Lower Upper
 119 100
 134 0.0 20.3 30.5#
 91 0.0 24.6 36.8#

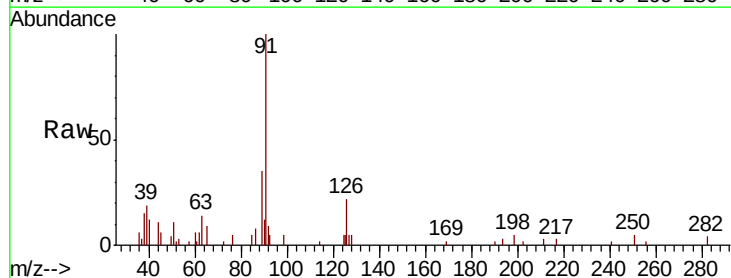


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

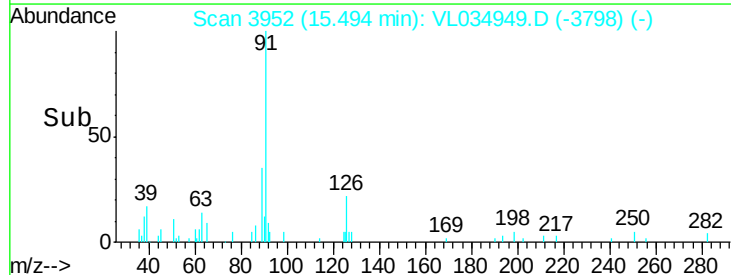
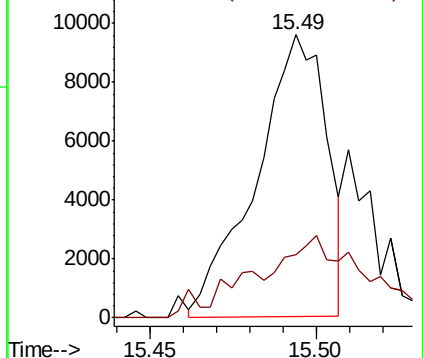


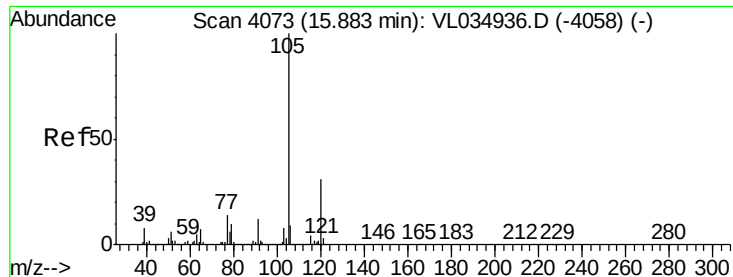
#71
 2-Chlorotoluene
 Concen: 0.048 ppbv
 RT: 15.49 min Scan# 3952
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion: 91 Resp: 14236
 Ion Ratio Lower Upper
 91 100
 126 45.5 12.0 47.8



Abundance Ion 91.10 (90.80 to 91.80): V
 Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.024 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. -0.00 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:105 Resp: 7171

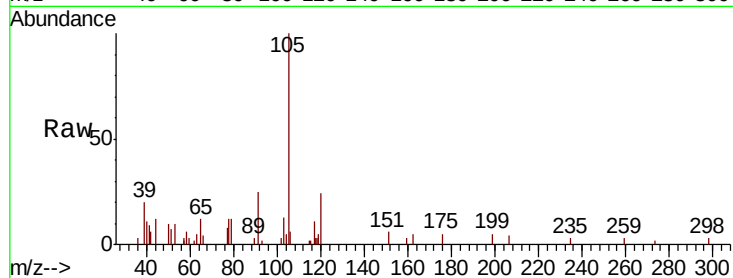
Ion Ratio Lower Upper

105 100

120 0.0 23.8 35.8#

91 43.9 10.6 15.8#

77 36.4 11.6 17.4#

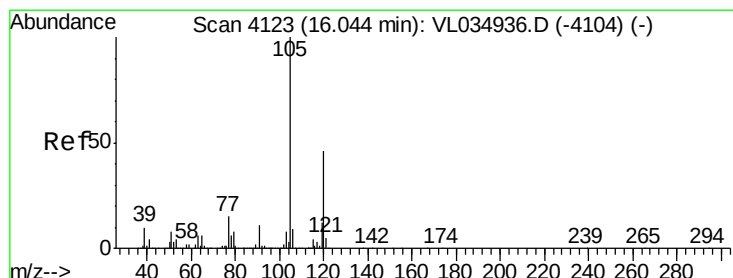
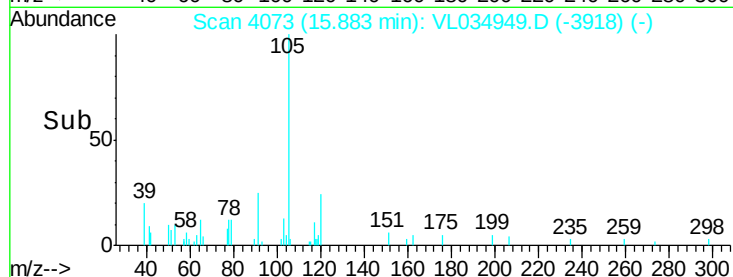
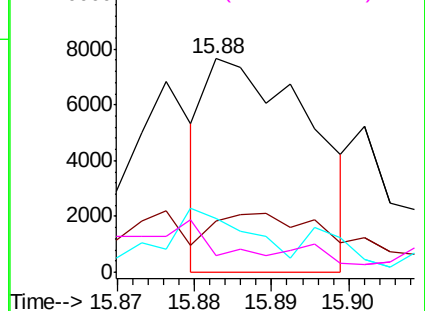


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.031 ppbv

RT: 16.04 min Scan# 4121

Delta R.T. -0.01 min

Lab File: VL034949.D

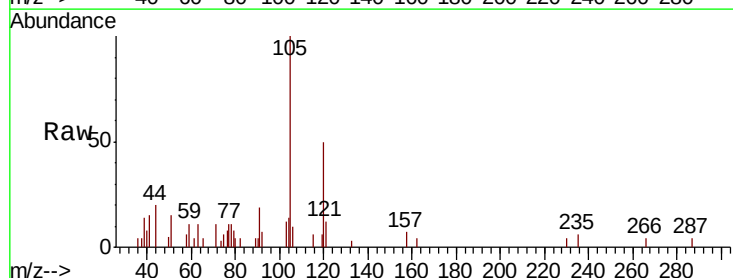
Acq: 6 May 2020 19:33

Tgt Ion:105 Resp: 8838

Ion Ratio Lower Upper

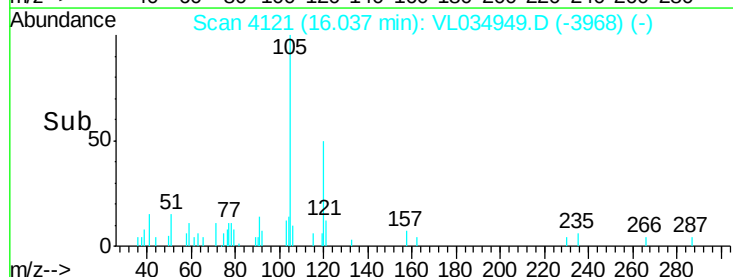
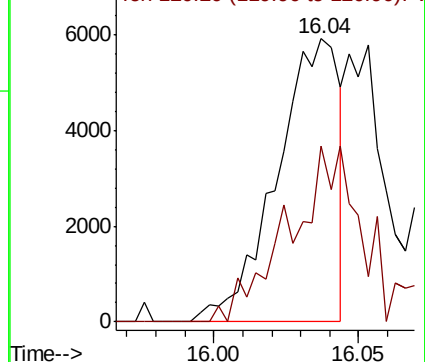
105 100

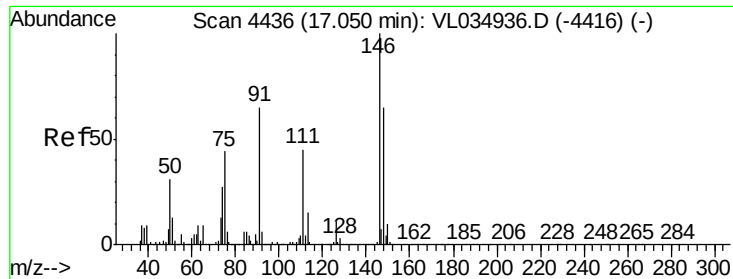
120 61.9 36.4 54.6#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

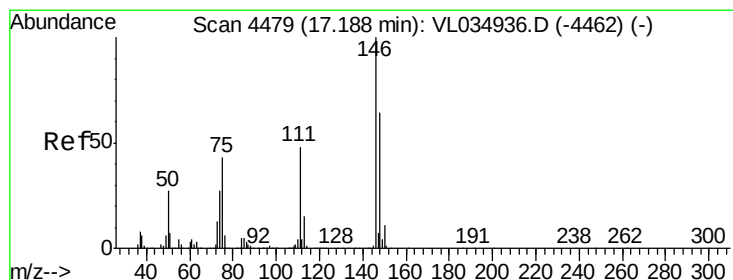
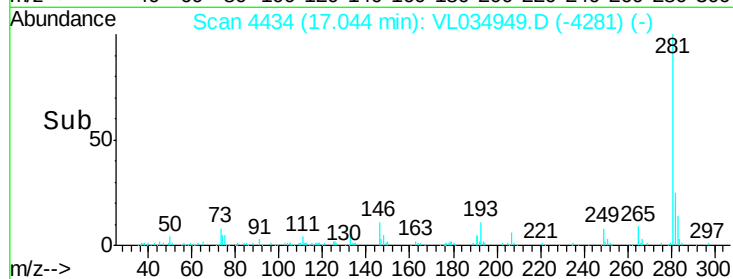
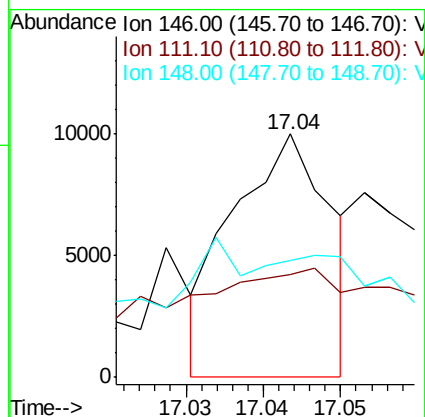
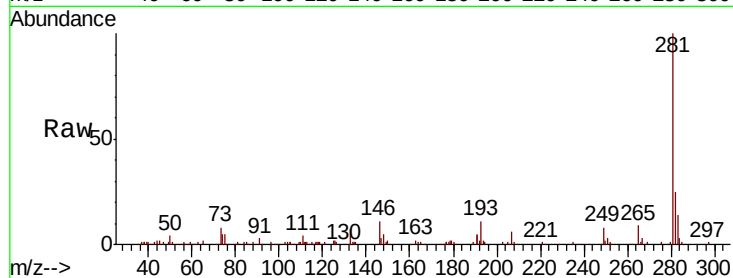




#75
 1,3-Dichlorobenzene
 Concen: 0.048 ppbv
 RT: 17.04 min Scan# 4434
 Delta R.T. -0.01 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

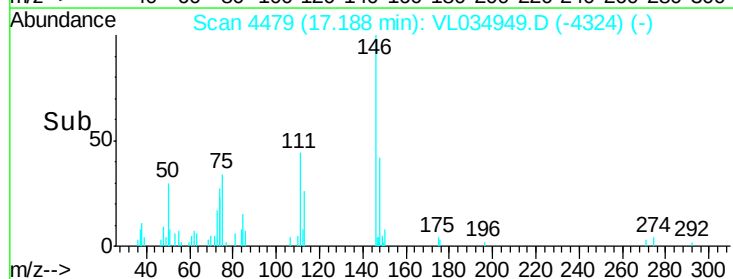
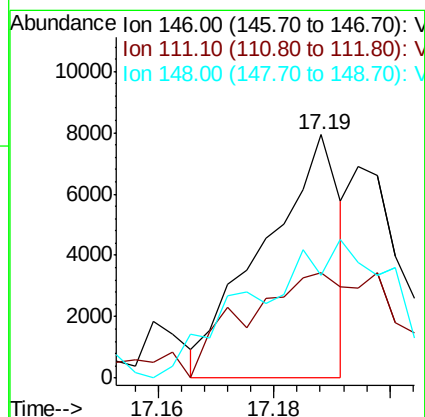
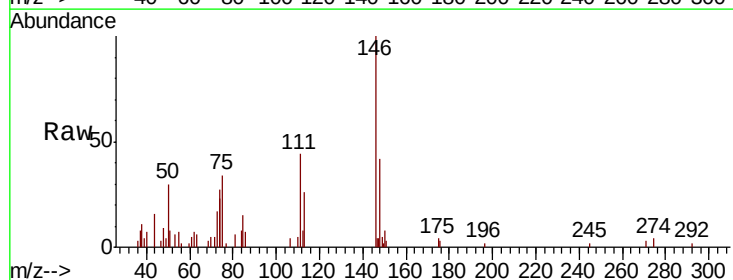
Instrument :
 MSVOA_L
 ClientSampled :

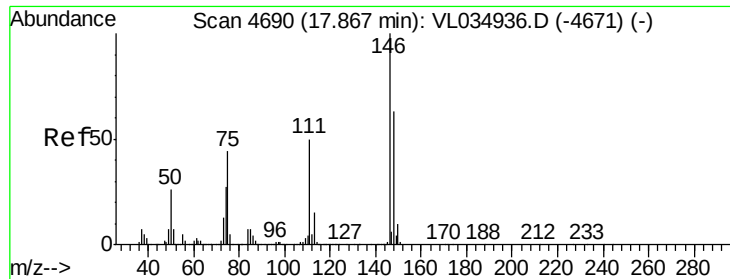
Tot Ion:146 Resp: 8776
 Ion Ratio Lower Upper
 146 100
 111 145.9 24.0 72.0#
 148 0.0 32.6 97.7#



#76
 1,4-Dichlorobenzene
 Concen: 0.042 ppbv
 RT: 17.19 min Scan# 4479
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion:146 Resp: 7247
 Ion Ratio Lower Upper
 146 100
 111 102.7 23.7 71.1#
 148 0.0 32.6 97.8#

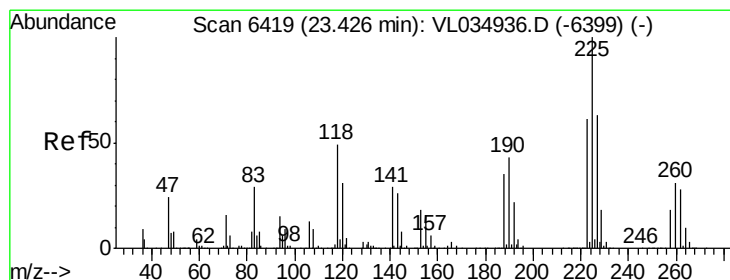
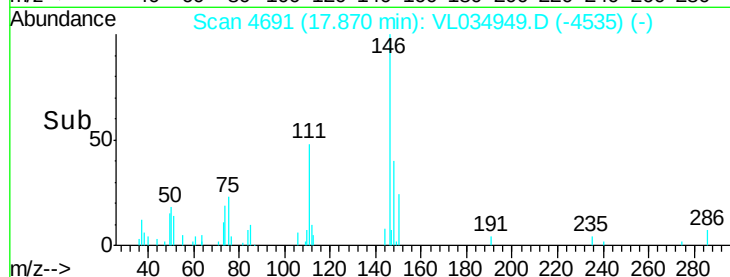
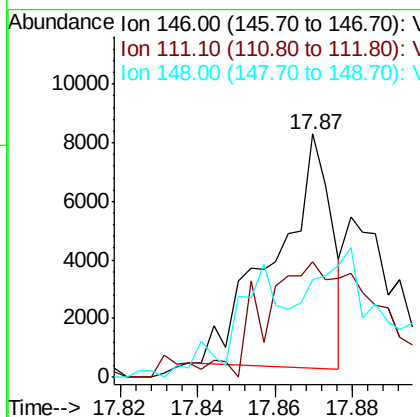
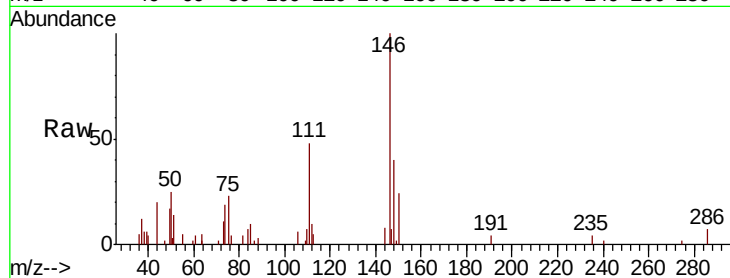




#77
 1,2-Dichlorobenzene
 Concen: 0.047 ppbv
 RT: 17.87 min Scan# 4691
 Delta R.T. 0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

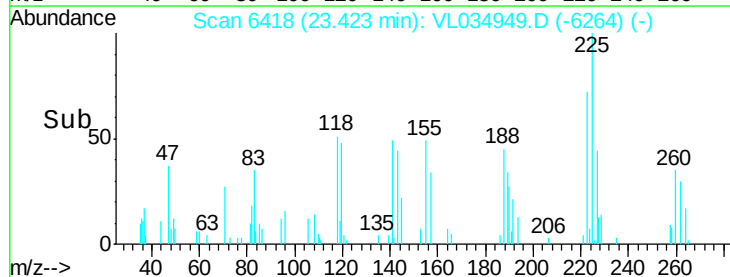
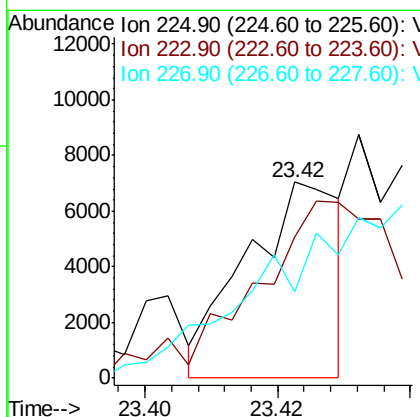
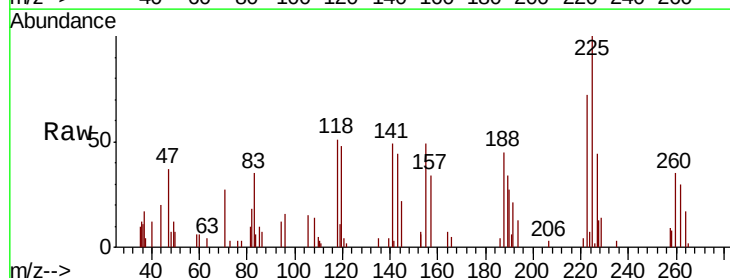
Instrument :
 MSVOA_L
 ClientSampled :

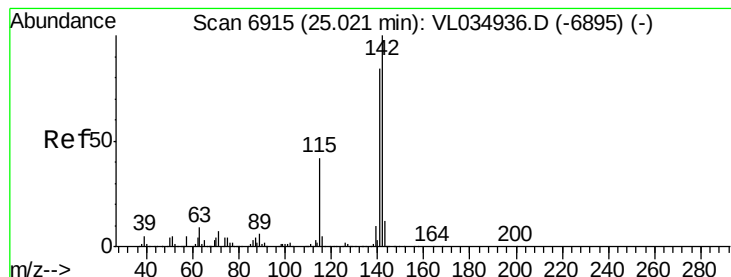
Tot Ion:146 Resp: 8145
 Ion Ratio Lower Upper
 146 100
 111 103.2 24.5 73.5#
 148 0.0 31.7 95.1#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.047 ppbv
 RT: 23.42 min Scan# 6418
 Delta R.T. -0.00 min
 Lab File: VL034949.D
 Acq: 6 May 2020 19:33

Tgt Ion:225 Resp: 6904
 Ion Ratio Lower Upper
 225 100
 223 179.0 49.8 74.8#
 227 0.0 51.8 77.6#





#80

Naphthalene, 2-methyl-

Concen: 0.036 ppbv

RT: 25.04 min Scan# 6922

Delta R.T. 0.02 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

Instrument :

MSVOA_L

ClientSampleId :

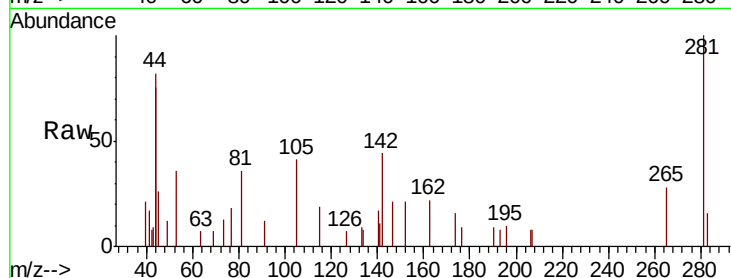
Tot Ion:142 Resp: 2165

Ion Ratio Lower Upper

142 100

141 46.9 68.6 102.8#

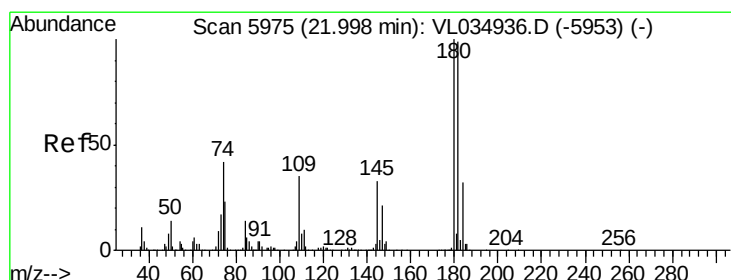
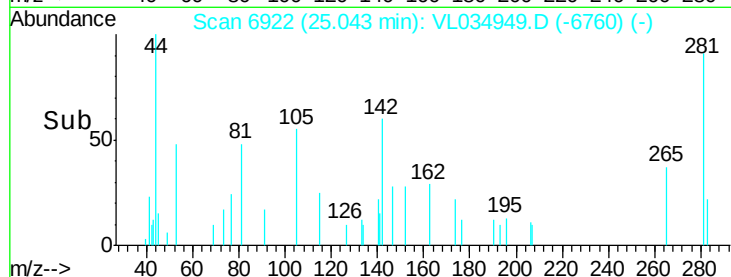
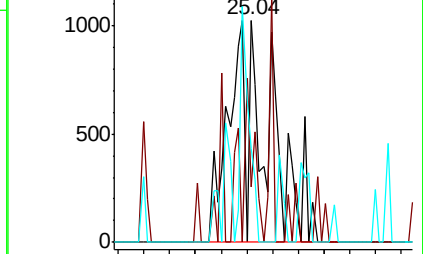
115 35.9 33.9 50.9



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: 0.022 ppbv

RT: 21.99 min Scan# 5972

Delta R.T. -0.01 min

Lab File: VL034949.D

Acq: 6 May 2020 19:33

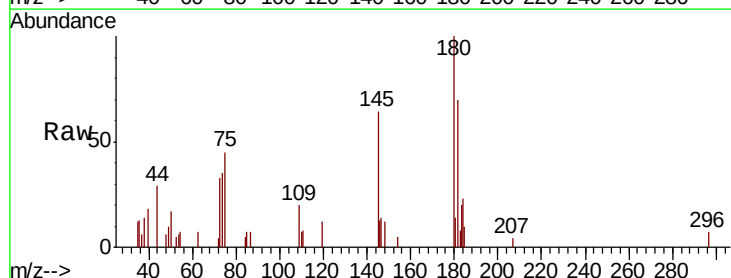
Tgt Ion:180 Resp: 3190

Ion Ratio Lower Upper

180 100

182 0.0 77.5 116.3#

184 0.0 24.8 37.2#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

