

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052421\
 Data File : VL037051.D
 Acq On : 24 May 2021 16:47
 Operator : SY/AP
 Sample : M2262-13 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 25 01:50:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1155631	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3473397	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3091838	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2226508	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

Target Compounds

					Ovalue
3) Chlorodifluoromethane	2.97	51	28570	0.135	ppbv 94
4) Chloromethane	3.12	50	6335	0.088	ppbv # 78
5) Vinyl Chloride	3.24	62	3824	0.049	ppbv 94
6) Bromomethane	3.46	94	3190	0.077	ppbv 98
7) Chloroethane	3.54	64	2738	0.107	ppbv 89
8) Dichlorotetrafluoroethane	3.17	85	22159	0.120	ppbv 86
9) Propene	2.99	41	8281	0.109	ppbv # 16
10) Heptane	8.10	43	12822	0.068	ppbv # 58
11) Trichlorofluoromethane	3.93	101	12883	0.071	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	10730	0.083	ppbv # 38
13) Ethanol	3.59	45	428	0.042	ppbv # 35
16) 1,3-Butadiene	3.31	39	6759	0.092	ppbv # 78
18) 1,1-Dichloroethene	4.27	96	3478	0.058	ppbv # 71
20) Methylene Chloride	4.33	84	20268	0.319	ppbv # 89
21) Allyl Chloride	4.39	41	6363	0.071	ppbv # 24
22) trans-1,2-Dichloroethene	4.86	96	3517	0.061	ppbv # 83
24) 1,1-Dichloroethane	4.99	63	13279	0.098	ppbv 98
25) Ethyl Acetate	5.67	43	29978	0.105	ppbv # 88
26) Hexane	5.66	57	19992	0.138	ppbv # 75
27) Carbon Disulfide	4.53	76	7285	0.050	ppbv # 56
28) Methyl tert-Butyl Ether	5.04	73	10884	0.062	ppbv # 53
29) Chloroform	5.72	83	8824	0.043	ppbv 95
30) Cyclohexane	7.11	84	6718	0.054	ppbv # 1
31) cis-1,2-Dichloroethene	5.52	61	12193	0.094	ppbv # 63
32) 1,1,1-Trichloroethane	6.49	97	7618	0.035	ppbv # 1
35) Carbon Tetrachloride	6.99	117	9267	0.040	ppbv # 93
36) Benzene	6.87	78	29660	0.099	ppbv # 91
37) 1,2-Dichloroethane	6.28	62	6044	0.041	ppbv # 80
38) Trichloroethene	7.82	130	5905	0.046	ppbv # 47
39) 1,2-Dichloropropane	7.15	63	813524	7.059	ppbv # 25
42) Bromodichloromethane	7.77	83	7681	0.034	ppbv # 82
44) 2,2,4-Trimethylpentane	7.85	57	26308	0.051	ppbv # 25
47) 1,1,2-Trichloroethane	9.44	97	3847	0.032	ppbv 96
48) Dibromochloromethane	10.28	129	9586	0.049	ppbv 68
52) Tetrachloroethene	11.20	164	5666	0.048	ppbv # 55
53) Toluene	9.78	91	12942	0.036	ppbv # 19
57) Chlorobenzene	12.12	112	29235	0.122	ppbv # 94
58) Ethyl Benzene	12.68	91	21319	0.049	ppbv 100
60) o-Xylene	13.66	91	32832	0.095	ppbv 93
62) Isopropylbenzene	14.64	105	45403	0.092	ppbv 94
64) n-propylbenzene	15.55	120	5289	0.041	ppbv # 1

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 Response via : Initial Calibration

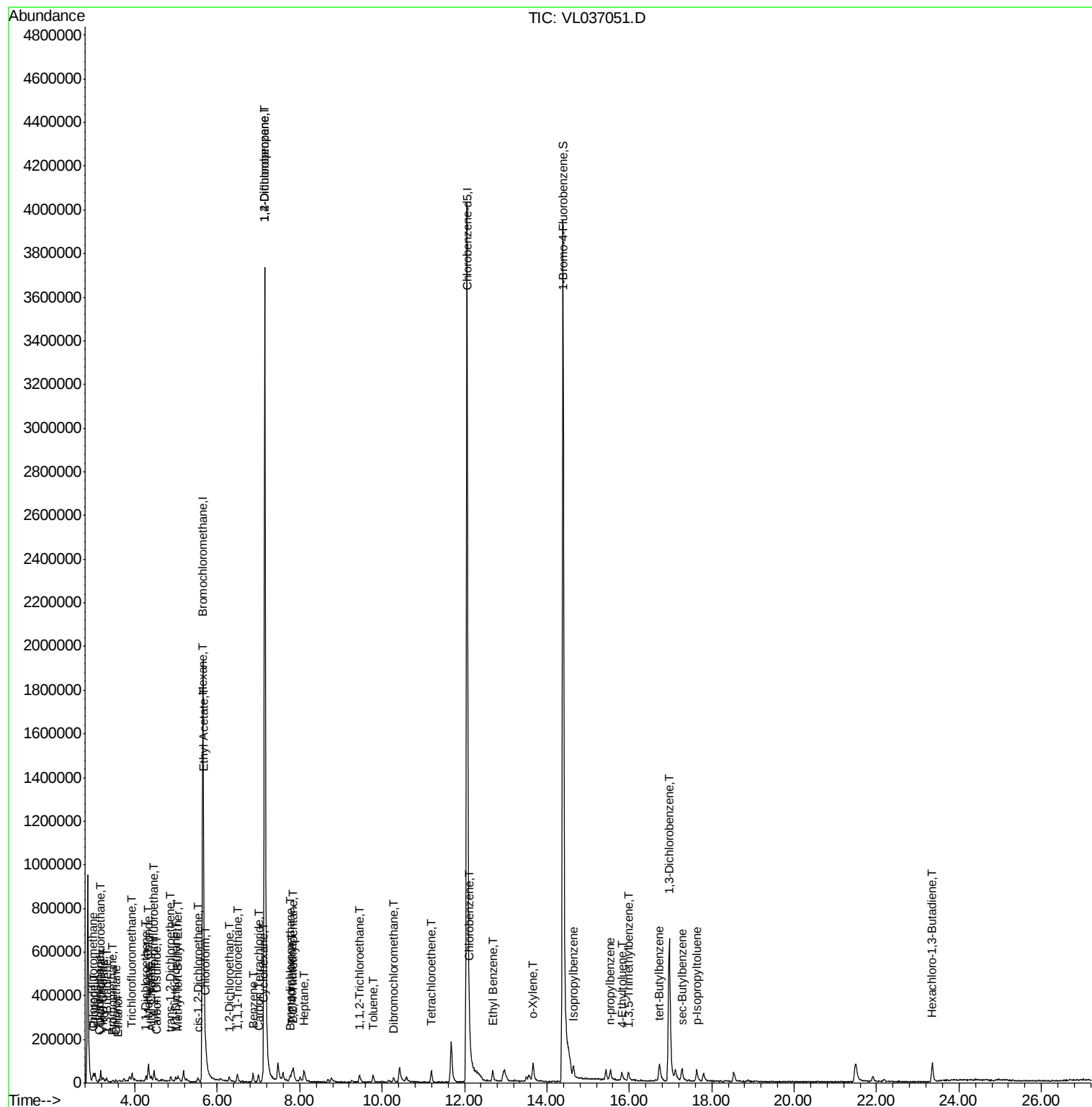
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.72	119	16769	0.038	ppbv #	20
67) sec-Butylbenzene	17.27	105	18989	0.031	ppbv #	57
69) p-Isopropyltoluene	17.64	119	25247	0.048	ppbv #	42
72) 4-Ethyltoluene	15.82	105	16862	0.041	ppbv #	42
73) 1,3,5-Trimethylbenzene	15.98	105	19602	0.051	ppbv	99
75) 1,3-Dichlorobenzene	16.98	146	14224	0.059	ppbv #	6
78) Hexachloro-1,3-Butadiene	23.35	225	10013	0.051	ppbv #	1

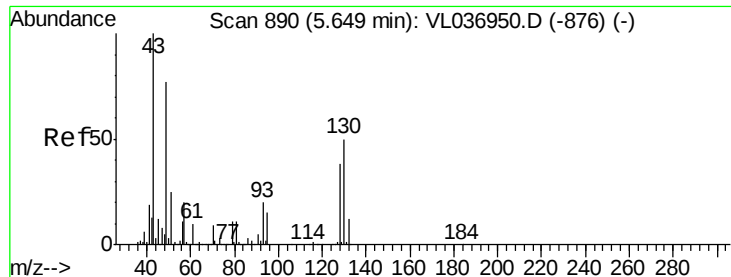
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

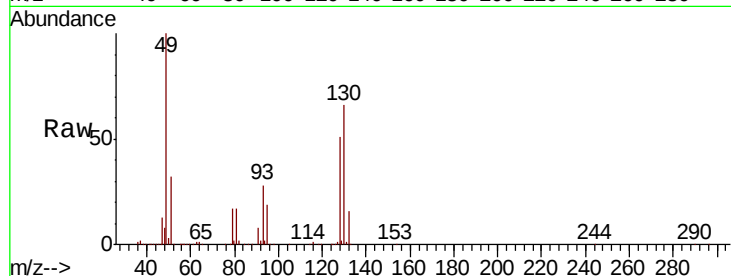
Tot Ion: 49 Resp: 1155631

Ion Ratio Lower Upper

49 100

128 58.4 26.9 80.7

130 75.4 33.8 101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.64

600000

500000

400000

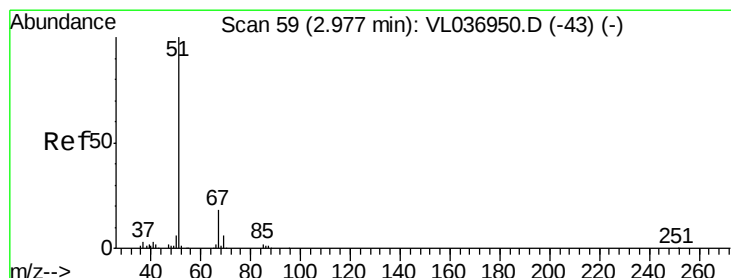
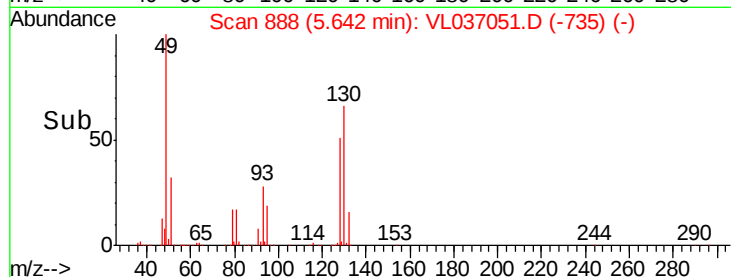
300000

200000

100000

0

Time--> 5.55 5.60 5.65 5.70 5.75



#3

Chlorodifluoromethane

Concen: 0.135 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037051.D

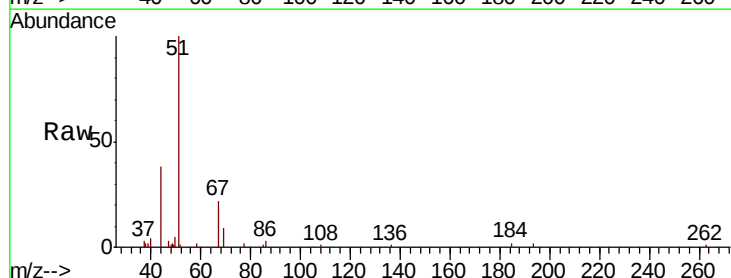
Acq: 24 May 2021 16:47

Tgt Ion: 51 Resp: 28570

Ion Ratio Lower Upper

51 100

67 21.0 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

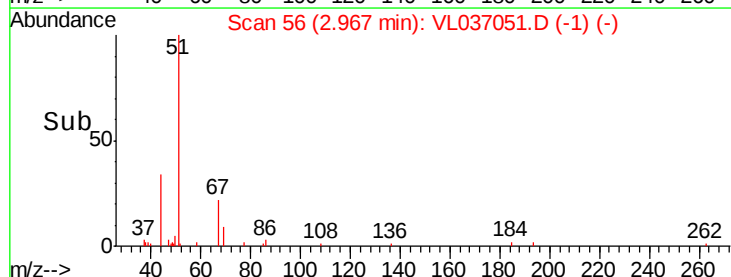
15000

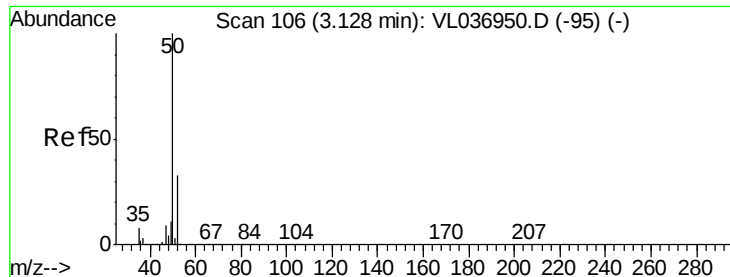
10000

5000

0

Time--> 2.90 3.00 3.10





#4

Chloromethane

Concen: 0.088 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

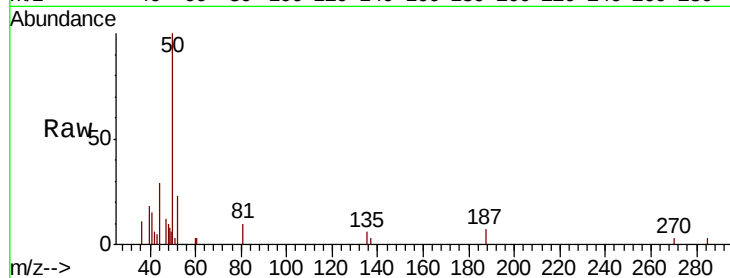
ClientSampleId :

Tot Ion: 50 Resp: 6335

Ion Ratio Lower Upper

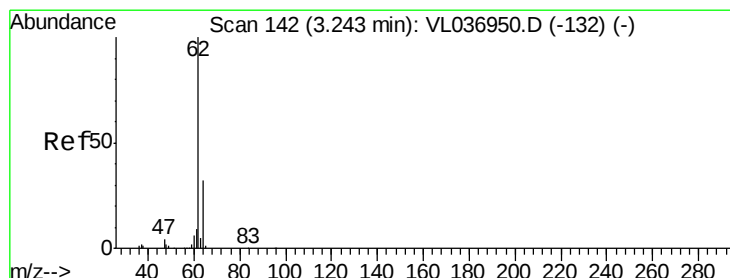
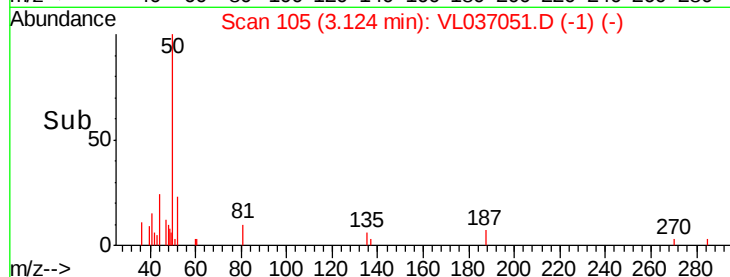
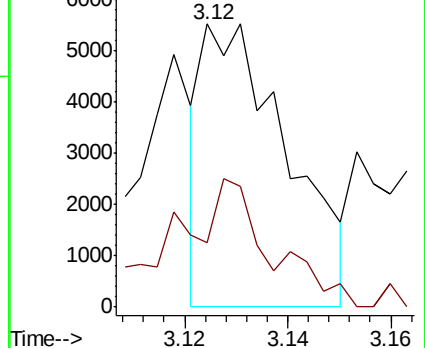
50 100

52 20.5 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.049 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.01 min

Lab File: VL037051.D

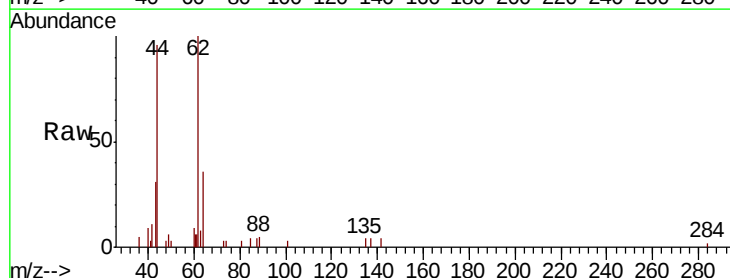
Acq: 24 May 2021 16:47

Tgt Ion: 62 Resp: 3824

Ion Ratio Lower Upper

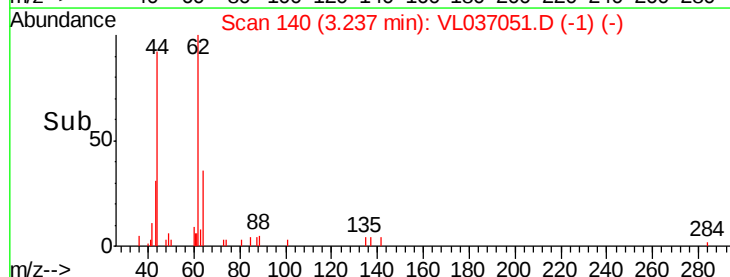
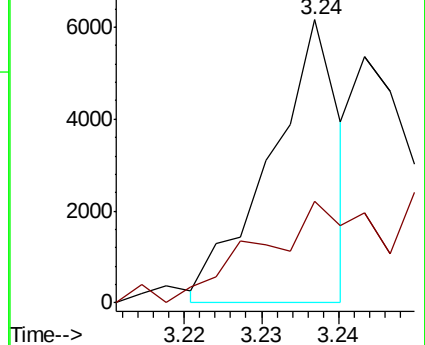
62 100

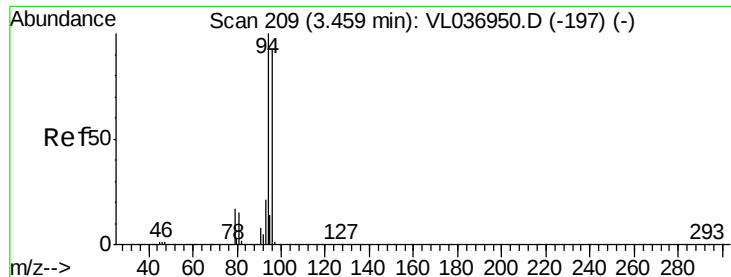
64 29.2 25.9 38.9



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#6

Bromomethane

Concen: 0.077 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

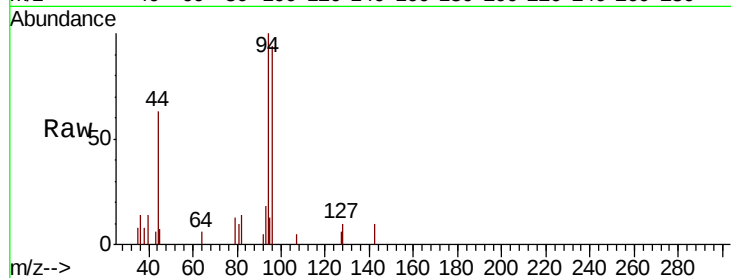
ClientSampleId :

Tot Ion: 94 Resp: 3190

Ion Ratio Lower Upper

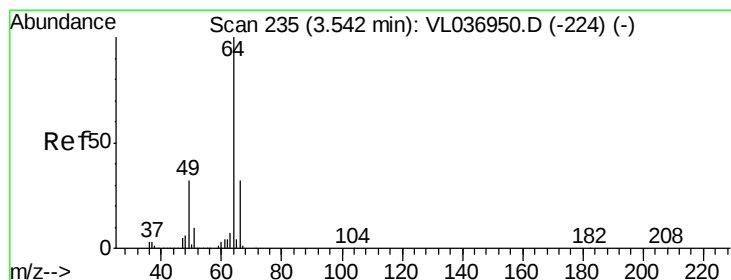
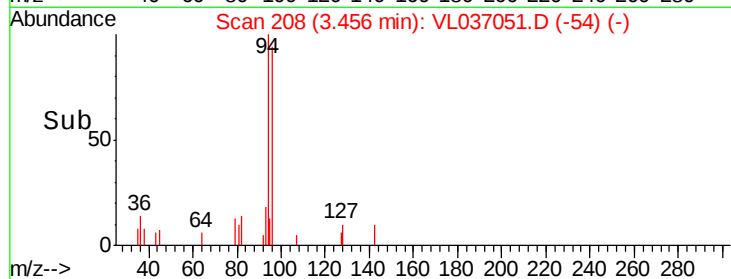
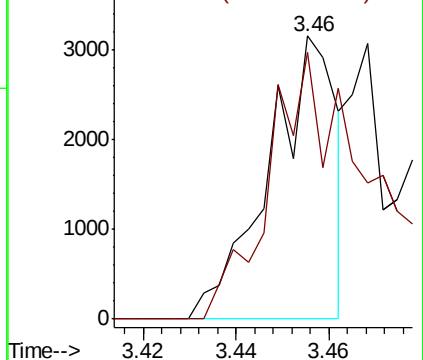
94 100

96 94.3 74.0 111.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0



#7

Chloroethane

Concen: 0.107 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL037051.D

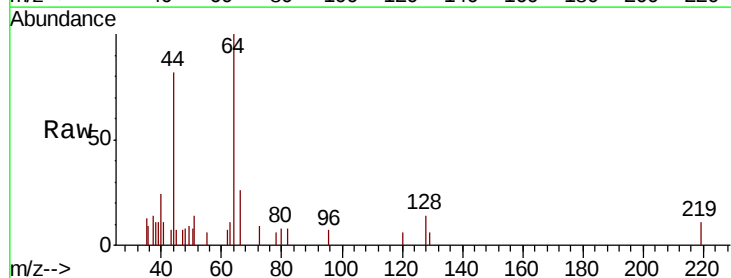
Acq: 24 May 2021 16:47

Tgt Ion: 64 Resp: 2738

Ion Ratio Lower Upper

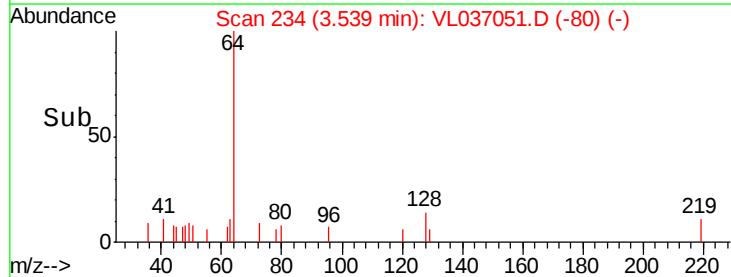
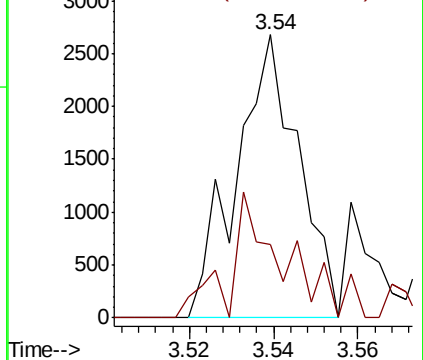
64 100

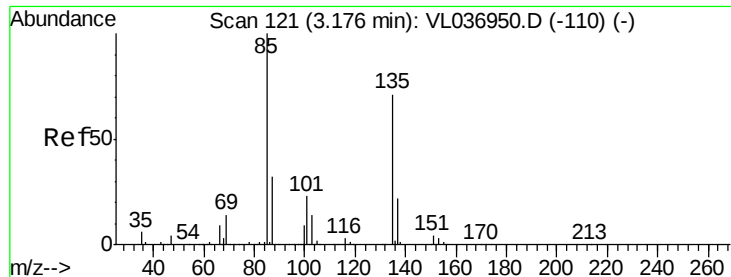
66 25.7 25.4 38.2



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: 3.17 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

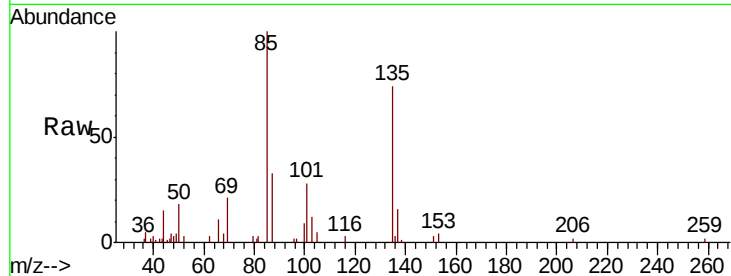
ClientSampleId :

Tot Ion: 85 Resp: 22159

Ion Ratio Lower Upper

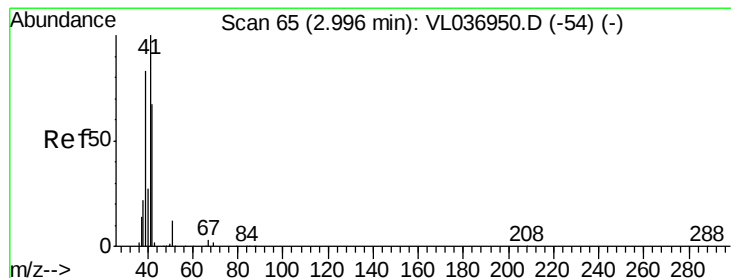
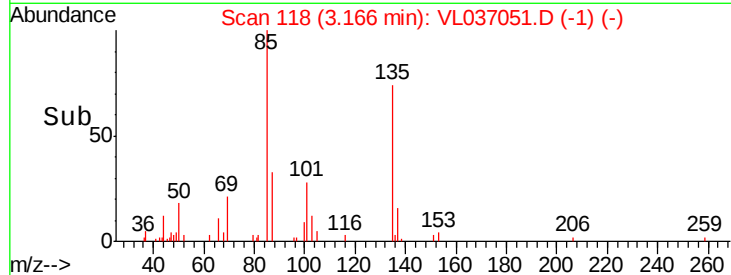
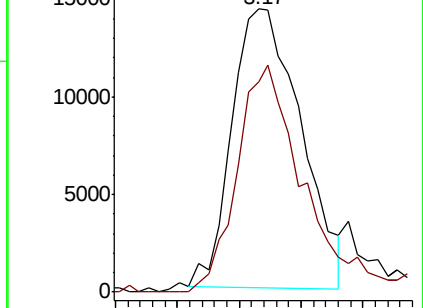
85 100

135 83.4 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.109 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037051.D

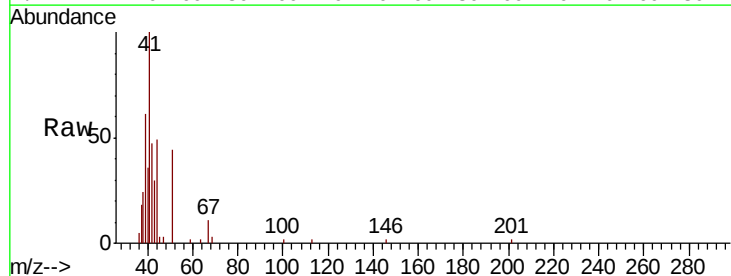
Acq: 24 May 2021 16:47

Tgt Ion: 41 Resp: 8281

Ion Ratio Lower Upper

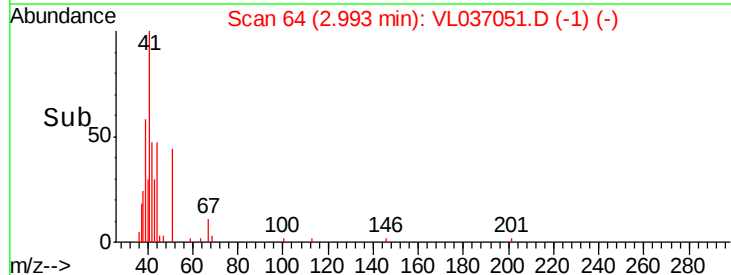
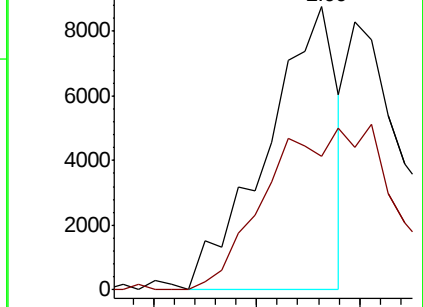
41 100

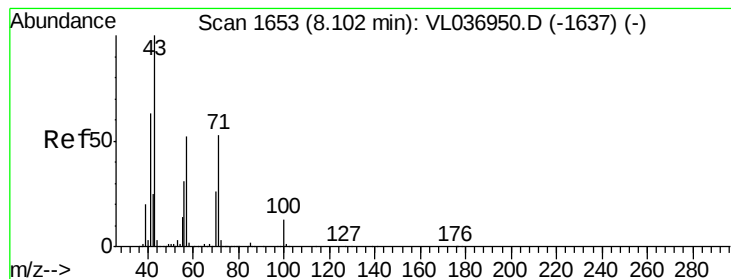
42 0.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.068 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

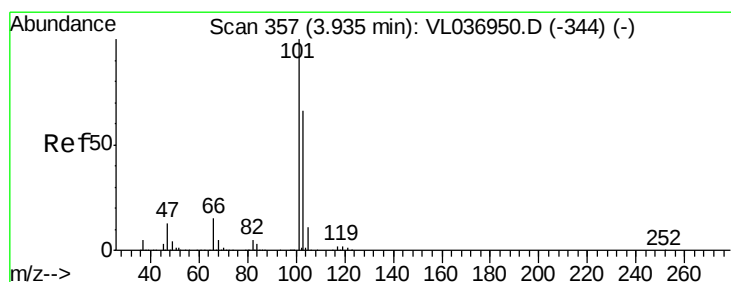
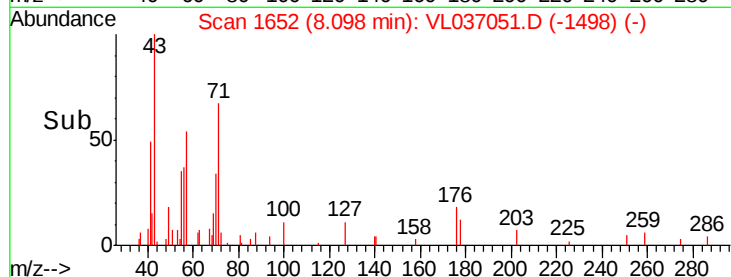
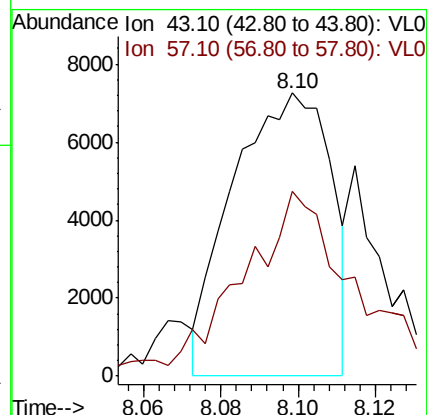
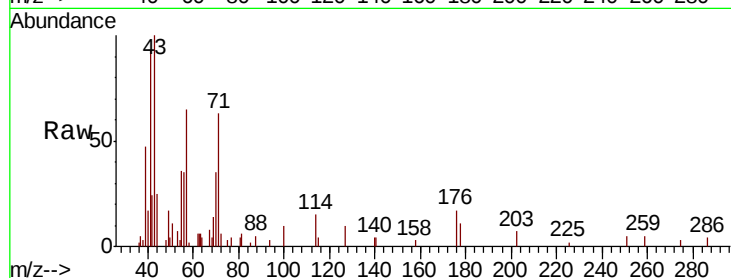
ClientSampleId :

Tot Ion: 43 Resp: 12822

Ion Ratio Lower Upper

43 100

57 80.3 41.0 61.6#



#11

Trichlorofluoromethane

Concen: 0.071 ppbv

RT: 3.93 min Scan# 355

Delta R.T. -0.01 min

Lab File: VL037051.D

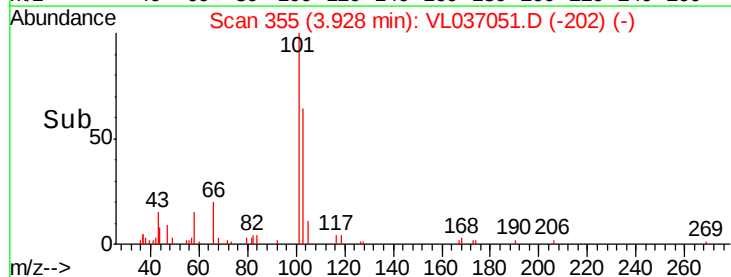
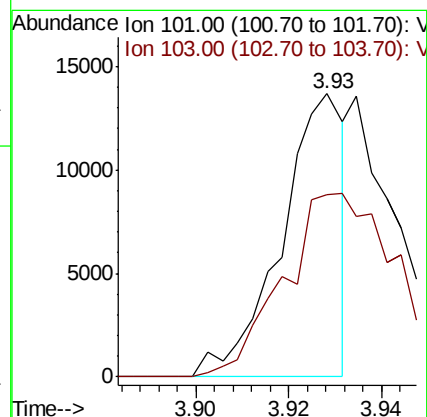
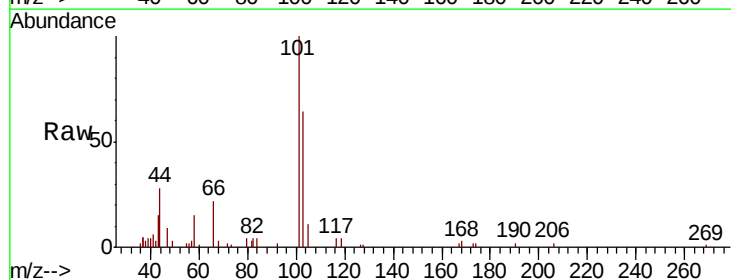
Acq: 24 May 2021 16:47

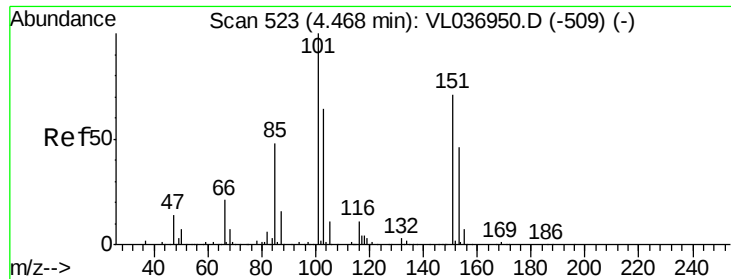
Tgt Ion: 101 Resp: 12883

Ion Ratio Lower Upper

101 100

103 64.2 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.083 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

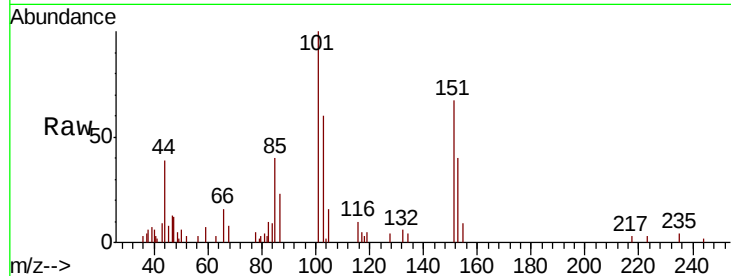
ClientSampled :

Tot Ion:101 Resp: 10730

Ion Ratio Lower Upper

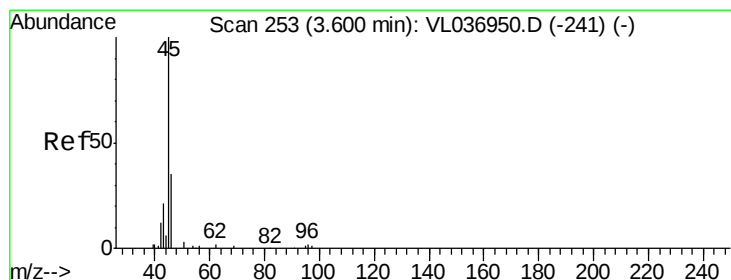
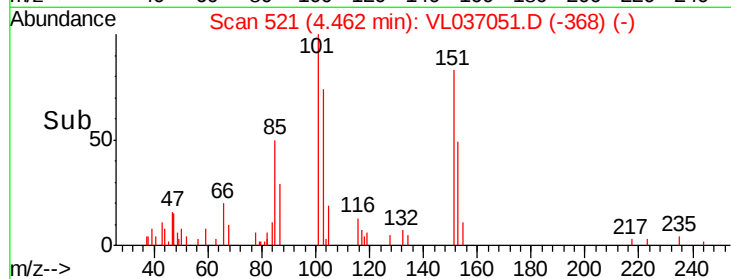
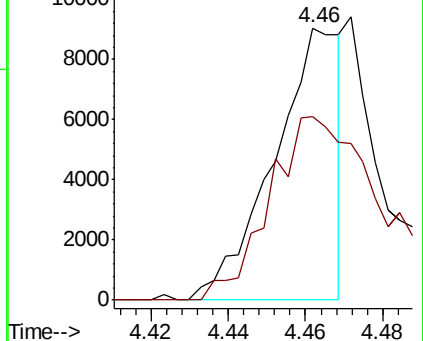
101 100

151 124.1 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.042 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL037051.D

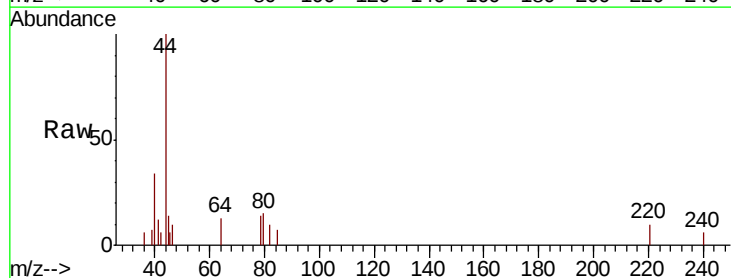
Acq: 24 May 2021 16:47

Tgt Ion: 45 Resp: 428

Ion Ratio Lower Upper

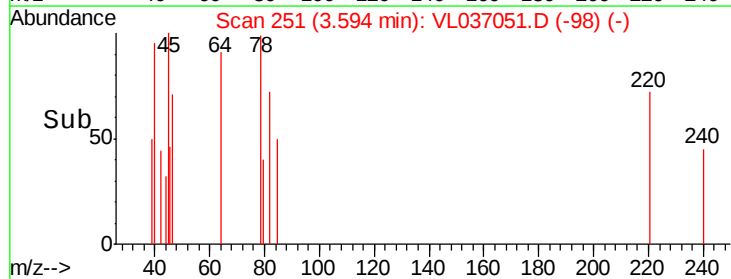
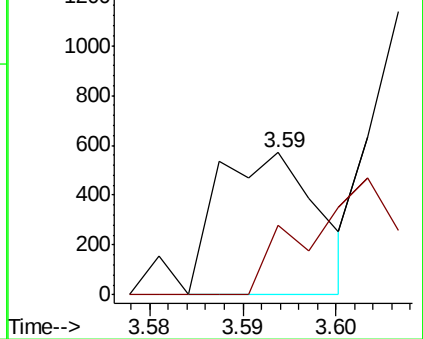
45 100

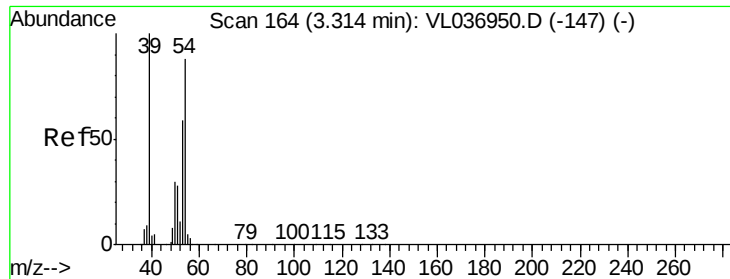
46 0.0 16.3 65.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

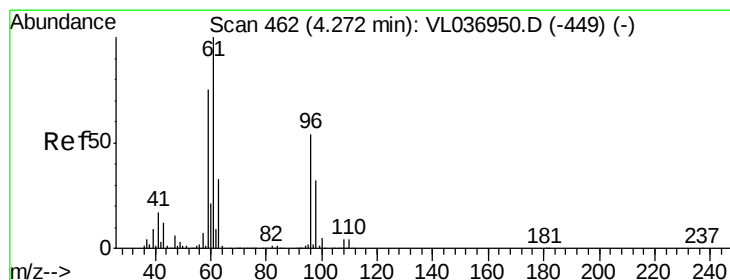
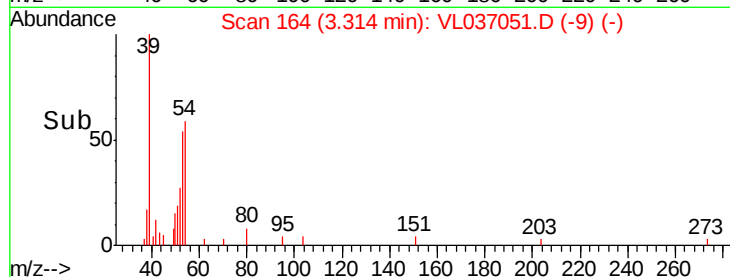
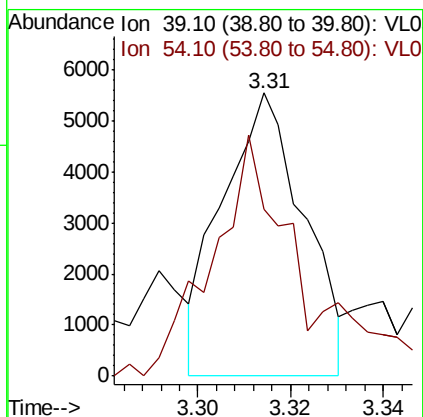
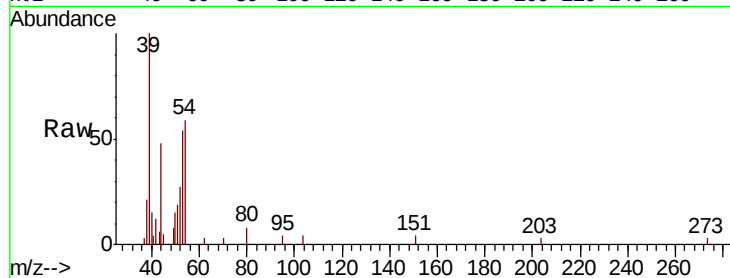




#16
 1,3-Butadiene
 Concen: 0.092 ppbv
 RT: 3.31 min Scan# 164
 Delta R.T. -0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

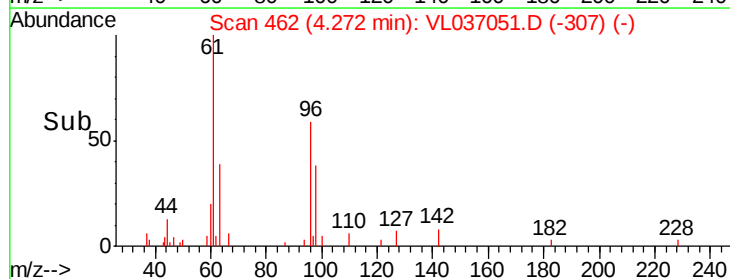
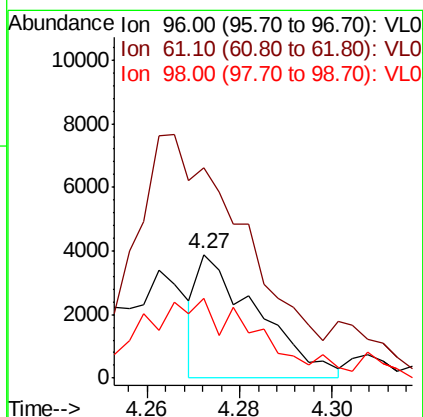
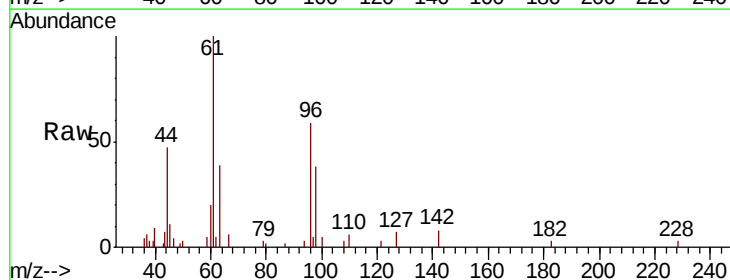
Instrument :
 MSVOA_L
 ClientSampleId :

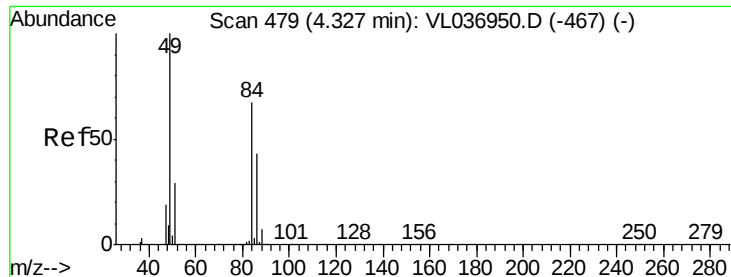
Tot Ion: 39 Resp: 6759
 Ion Ratio Lower Upper
 39 100
 54 98.0 63.2 94.8#



#18
 1,1-Dichloroethene
 Concen: 0.058 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion: 96 Resp: 3478
 Ion Ratio Lower Upper
 96 100
 61 131.6 148.2 222.4#
 98 55.6 47.8 71.6

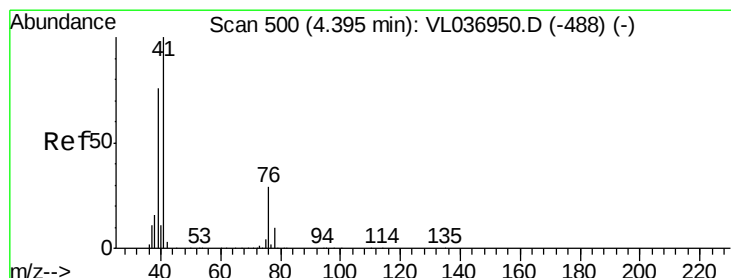
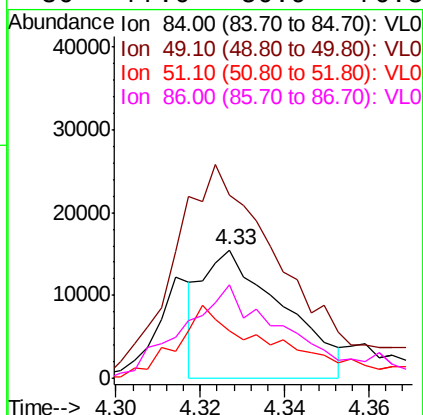
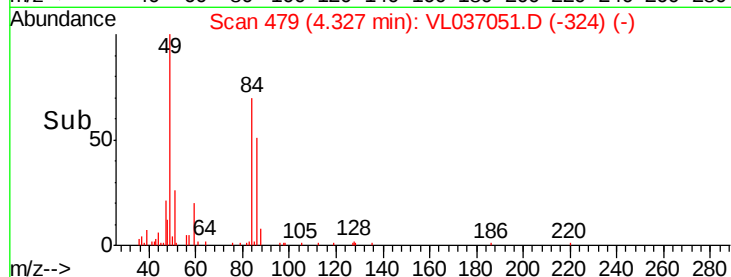
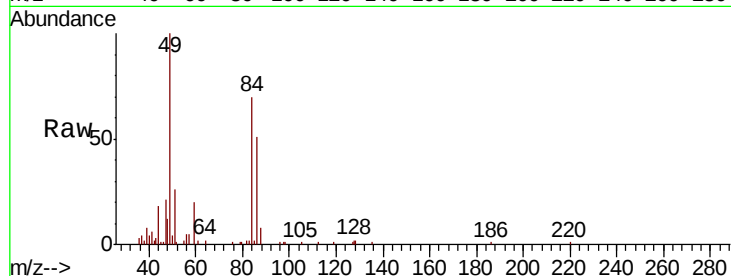




#20
Methylene Chloride
Concen: 0.319 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037051.D
Acq: 24 May 2021 16:47

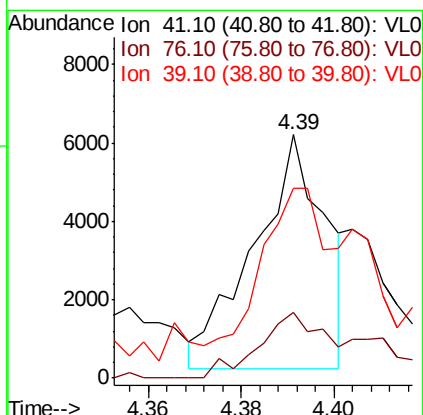
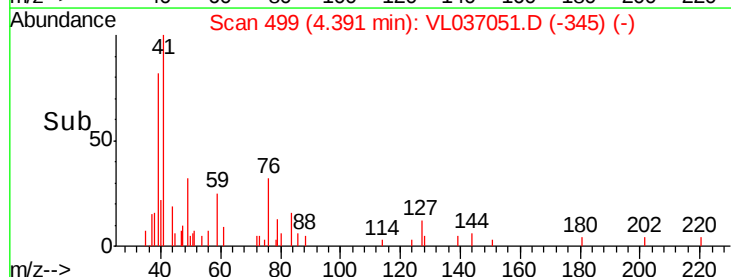
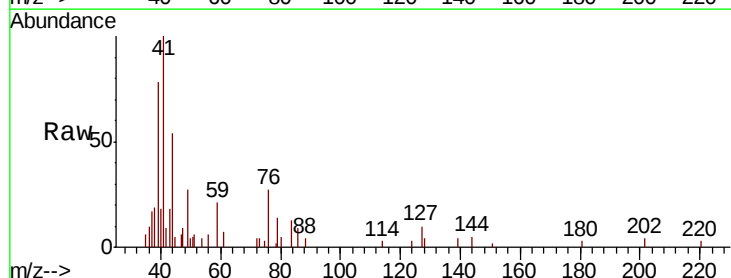
Instrument :
MSVOA_L
ClientSampleId :

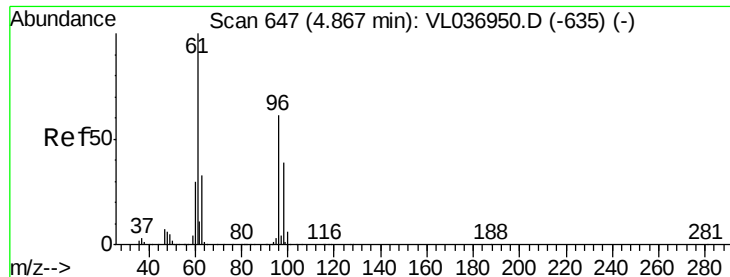
Tot Ion: 84 Resp: 20268
Ion Ratio Lower Upper
84 100
49 140.6 119.8 179.6
51 35.4 35.1 52.7
86 77.0 50.9 76.3#



#21
Allyl Chloride
Concen: 0.071 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.00 min
Lab File: VL037051.D
Acq: 24 May 2021 16:47

Tgt Ion: 41 Resp: 6363
Ion Ratio Lower Upper
41 100
76 43.7 24.9 37.3#
39 165.0 63.7 95.5#





#22

trans-1,2-Dichloroethene

Concen: 0.061 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

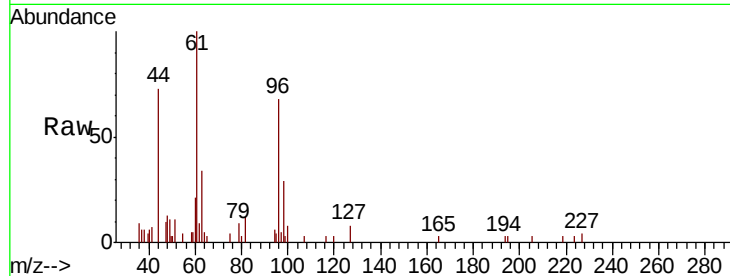
Tot Ion: 96 Resp: 3517

Ion Ratio Lower Upper

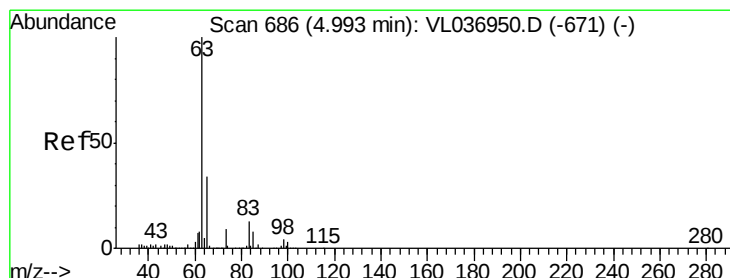
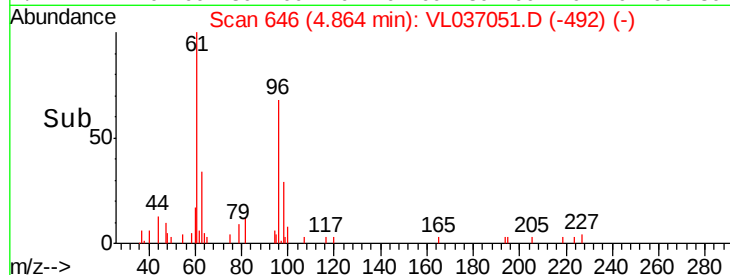
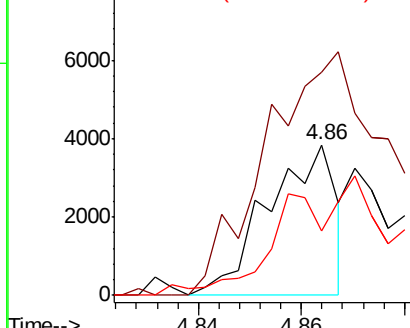
96 100

61 147.7 130.6 196.0

98 38.4 50.8 76.2#



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: 0.098 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

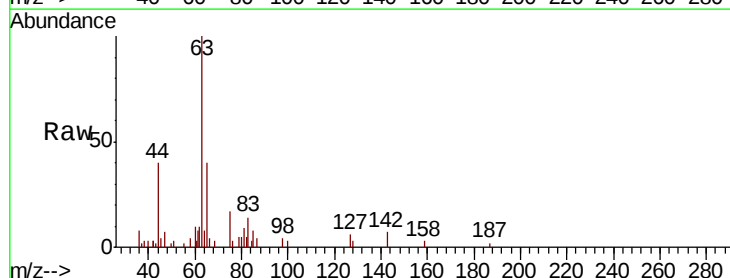
Tgt Ion: 63 Resp: 13279

Ion Ratio Lower Upper

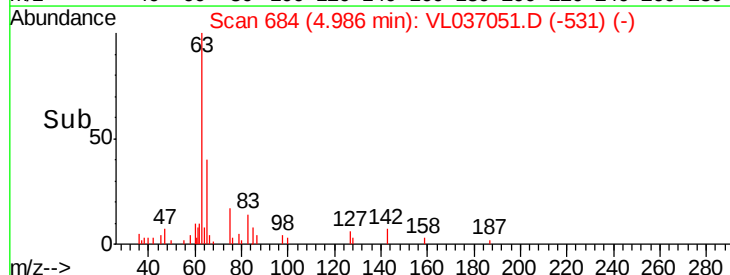
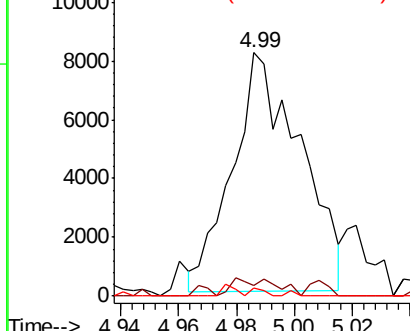
63 100

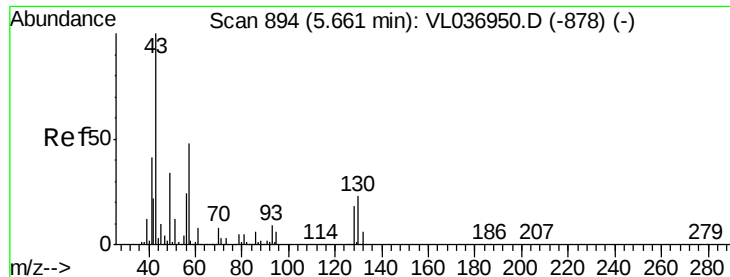
98 5.1 2.3 6.9

100 3.7 1.4 4.0



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.105 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 29978

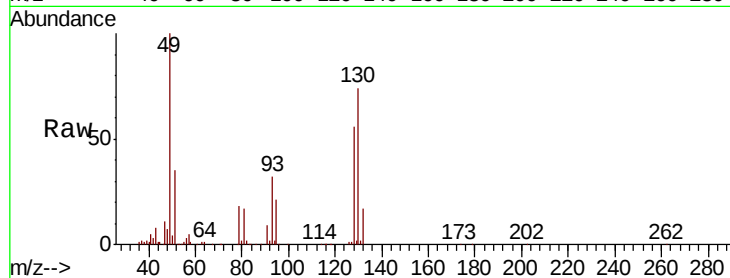
Ion Ratio Lower Upper

43 100

45 0.0 7.8 11.8#

61 11.5 7.8 11.8

70 5.9 5.6 8.4

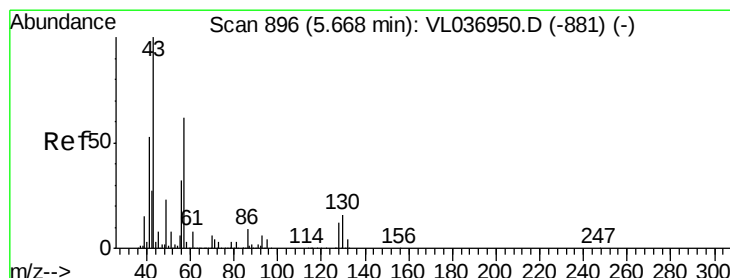
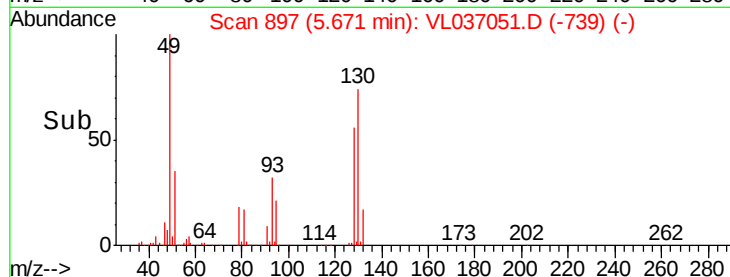
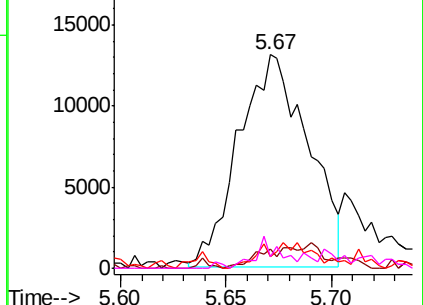


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.138 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Tgt Ion: 57 Resp: 19992

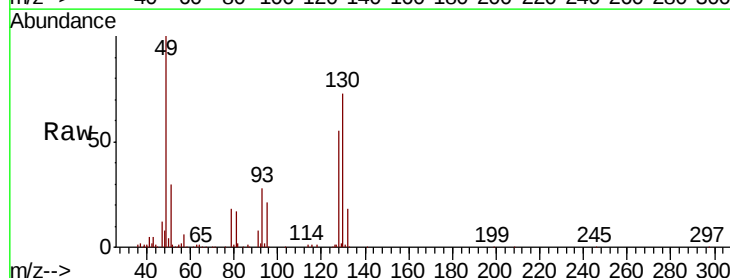
Ion Ratio Lower Upper

57 100

41 129.3 70.5 105.7#

43 182.7 165.8 248.8

56 71.3 42.2 63.4#

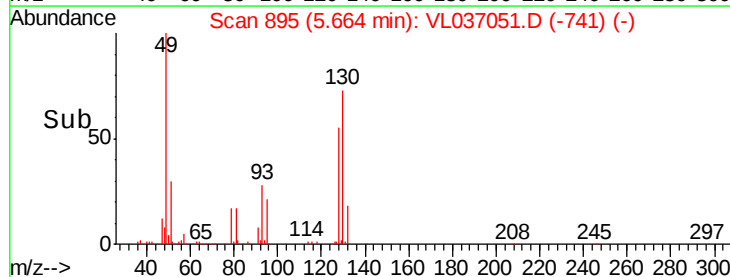
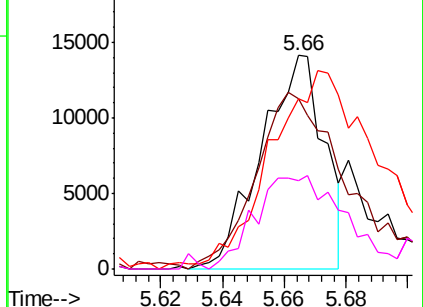


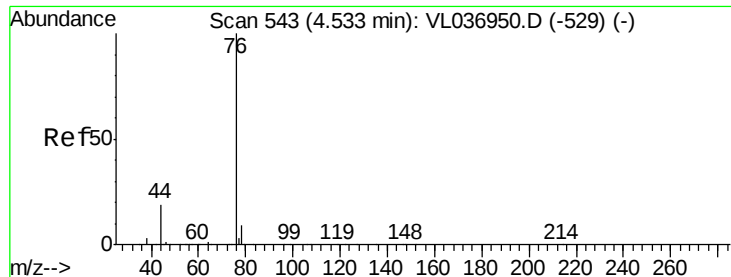
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.050 ppbv

RT: 4.53 min Scan# 543

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

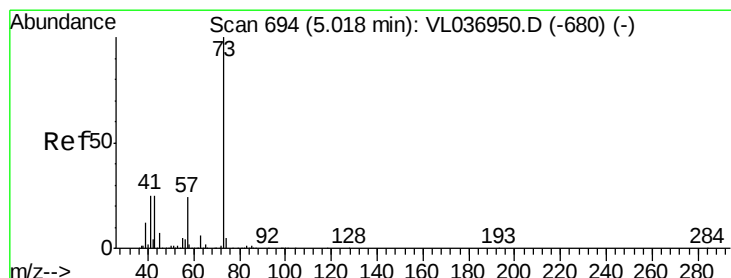
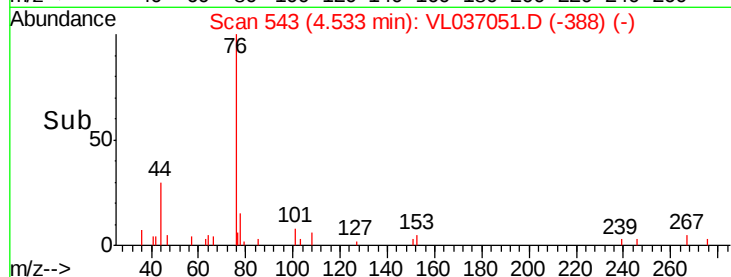
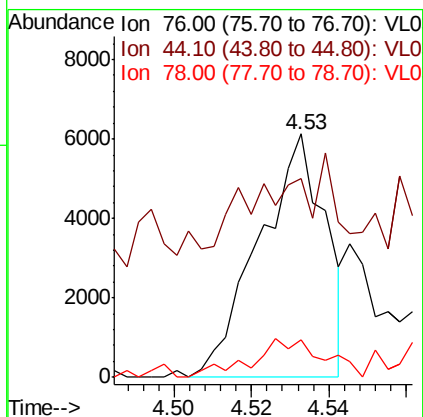
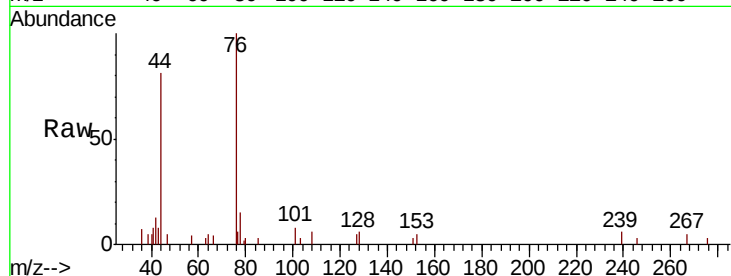
Tot Ion: 76 Resp: 7285

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

78 26.7 7.8 11.6#



#28

Methyl tert-Butyl Ether

Concen: 0.062 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.02 min

Lab File: VL037051.D

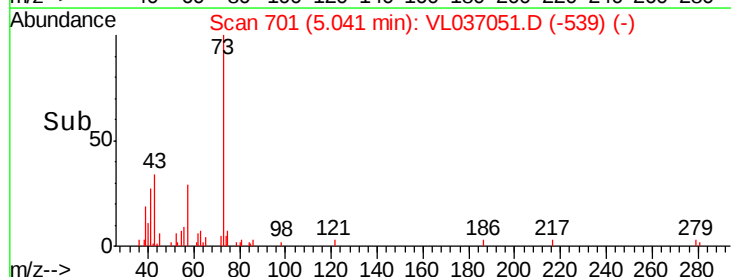
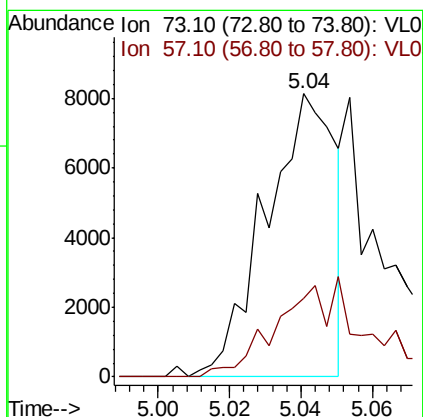
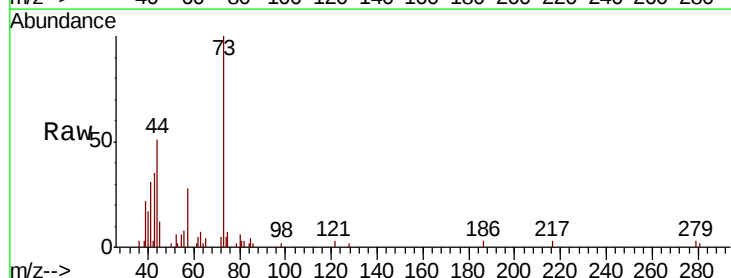
Acq: 24 May 2021 16:47

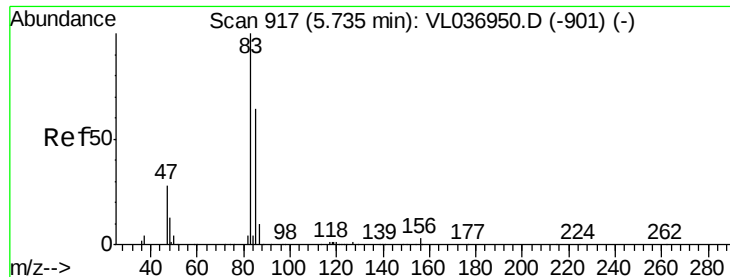
Tgt Ion: 73 Resp: 10884

Ion Ratio Lower Upper

73 100

57 0.0 18.3 27.5#





#29

Chloroform

Concen: 0.043 ppbv

RT: 5.72 min Scan# 912

Delta R.T. -0.02 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

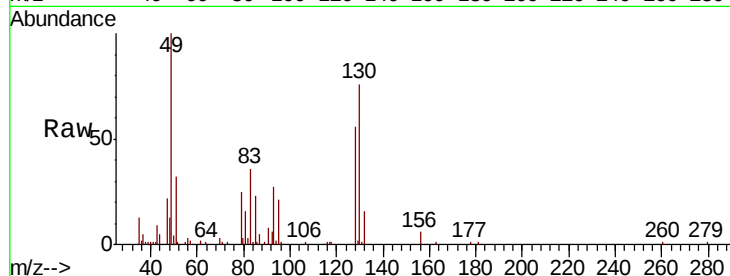
ClientSampled :

Tot Ion: 83 Resp: 8824

Ion Ratio Lower Upper

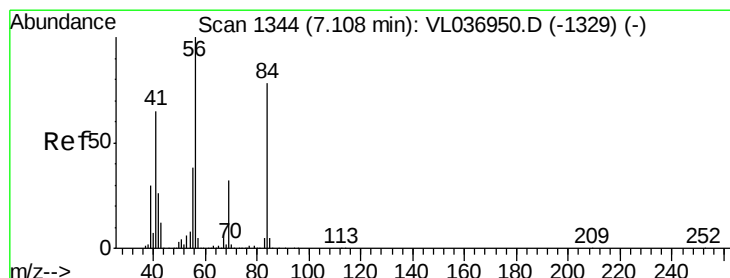
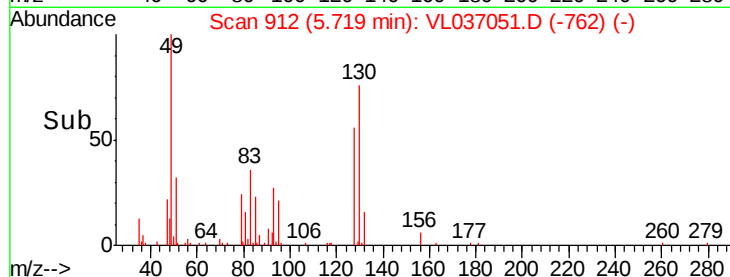
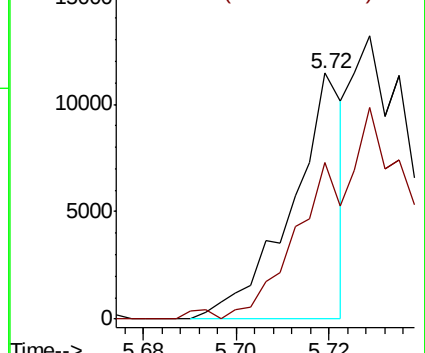
83 100

85 60.2 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.054 ppbv

RT: 7.11 min Scan# 1344

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

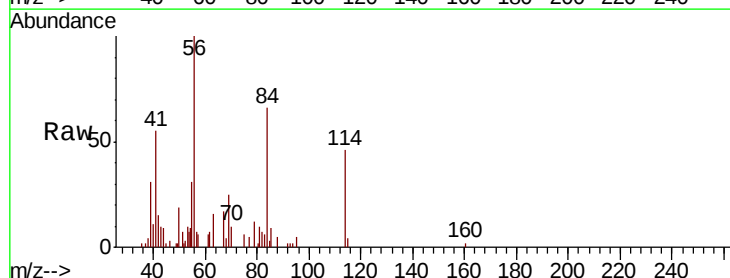
Tgt Ion: 84 Resp: 6718

Ion Ratio Lower Upper

84 100

56 0.0 107.9 161.9#

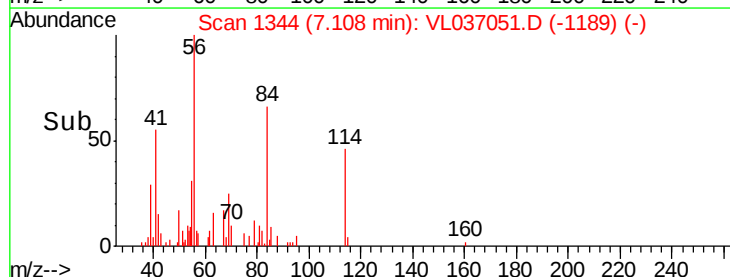
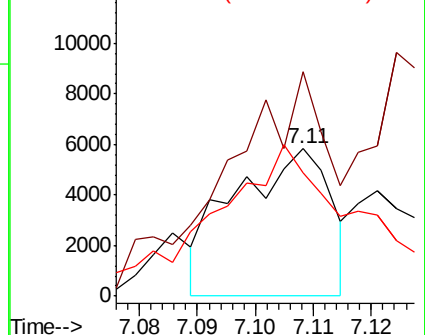
41 170.9 65.5 98.3#

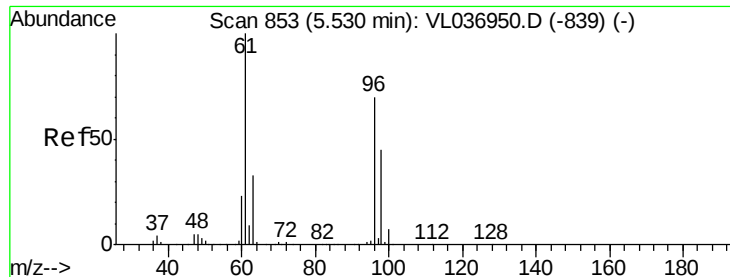


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



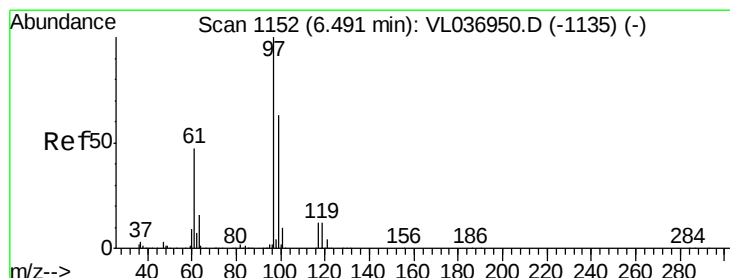
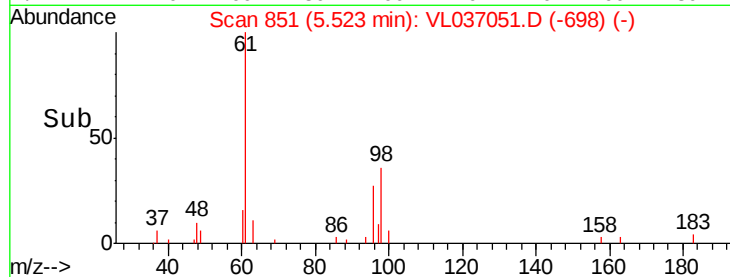
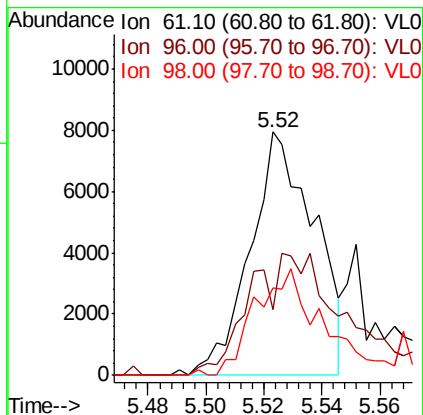
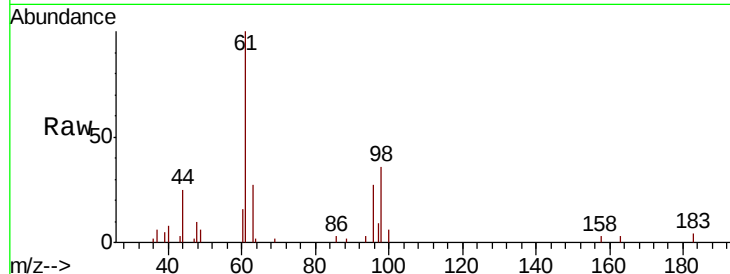


#31

cis-1,2-Dichloroethene
 Concen: 0.094 ppbv
 RT: 5.52 min Scan# 851
 Delta R.T. -0.01 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Instrument :
 MSVOA_L
 ClientSampled :

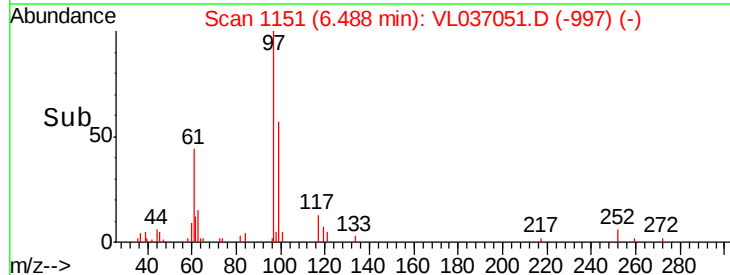
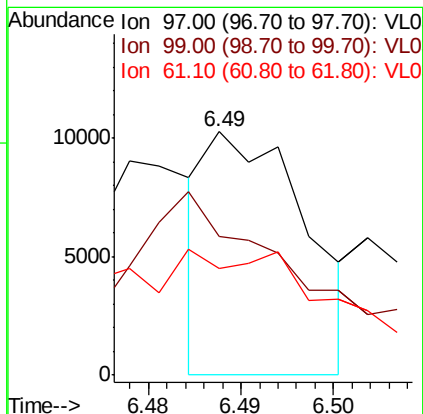
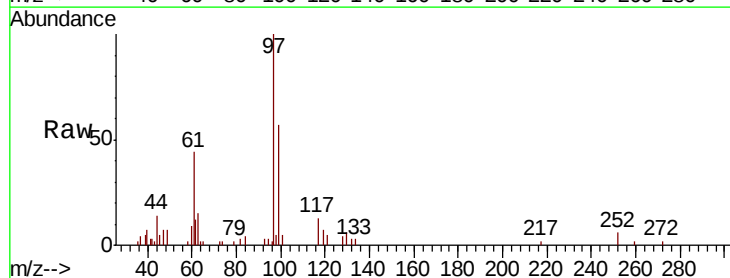
Tot Ion	Ratio	Lower	Upper
61	100		
96	27.0	55.9	83.9#
98	36.1	35.6	53.4

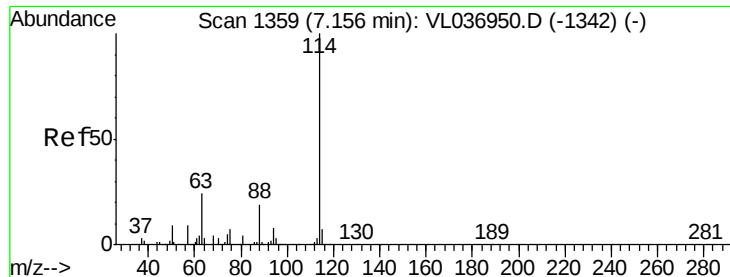


#32

1,1,1-Trichloroethane
 Concen: 0.035 ppbv
 RT: 6.49 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	189.5	51.9	77.9#
61	157.4	37.6	56.4#

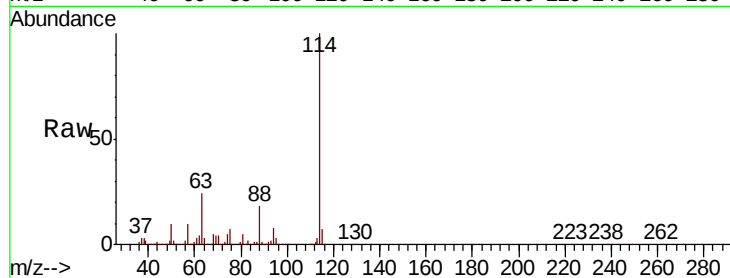




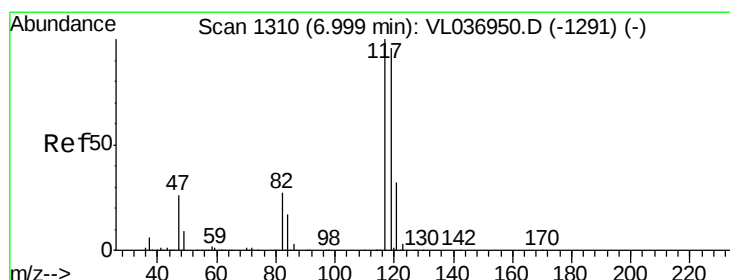
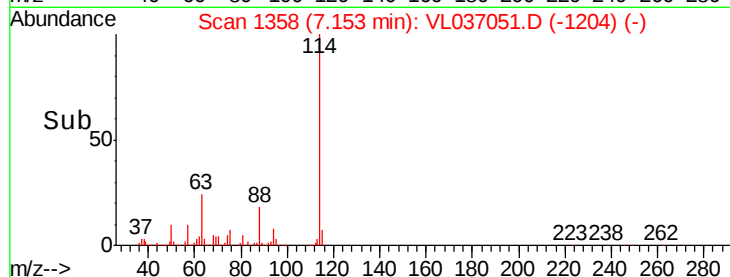
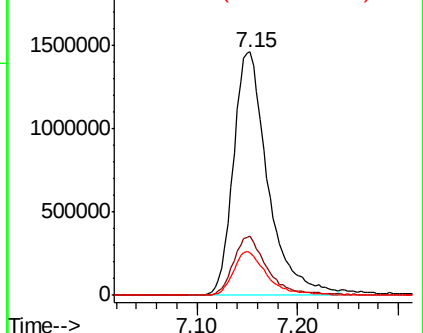
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3473397
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.6 29.4
 88 18.1 14.6 21.8

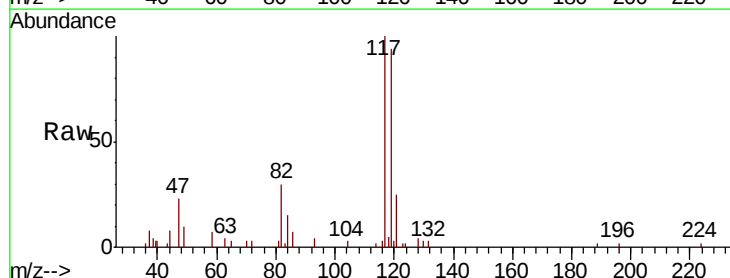


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

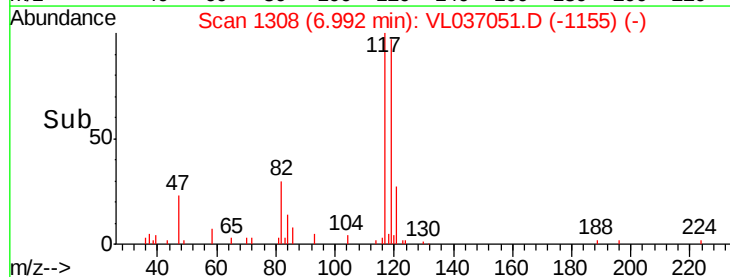
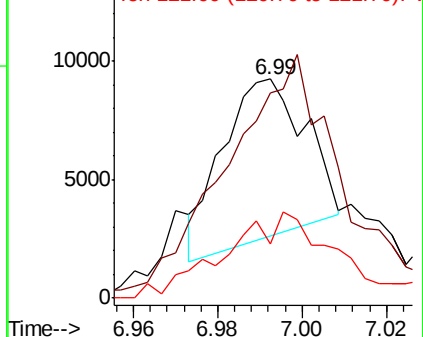


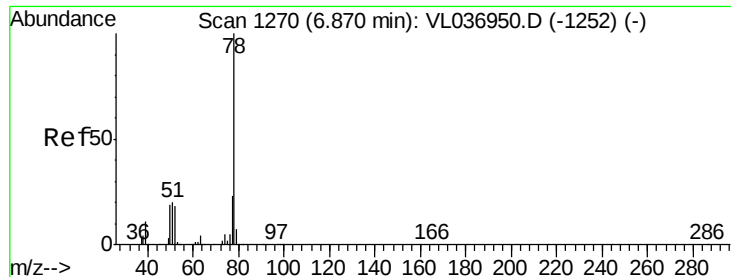
#35
 Carbon Tetrachloride
 Concen: 0.040 ppbv
 RT: 6.99 min Scan# 1308
 Delta R.T. -0.01 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion:117 Resp: 9267
 Ion Ratio Lower Upper
 117 100
 119 96.8 76.6 114.8
 121 19.6 25.8 38.6#



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: 0.099 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

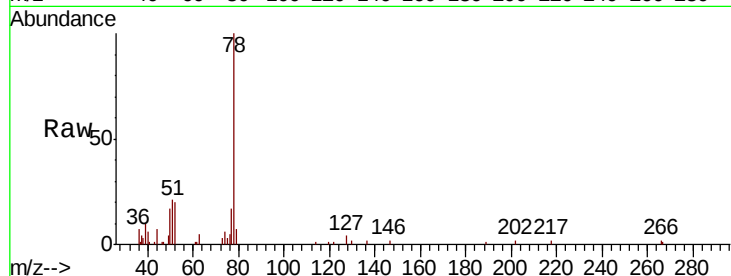
Instrument :

MSVOA_L

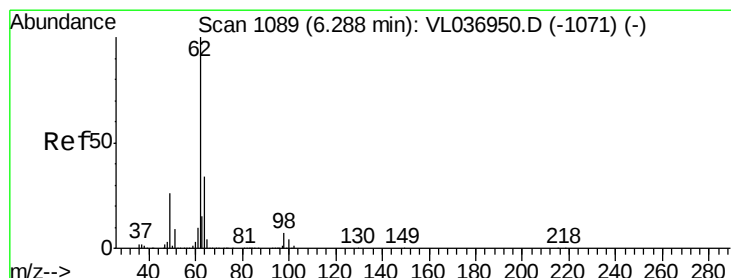
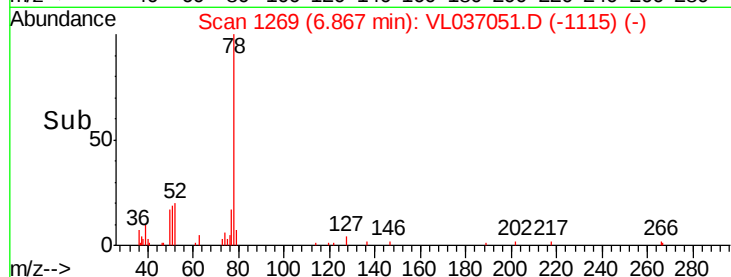
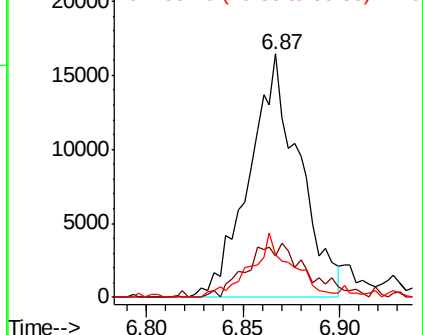
ClientSampleId :

Tot Ion: 78 Resp: 29660

Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.6	28.0#
50	17.5	15.0	22.4



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: 0.041 ppbv

RT: 6.28 min Scan# 1087

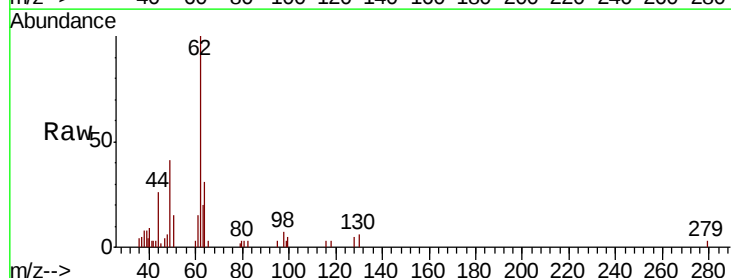
Delta R.T. -0.01 min

Lab File: VL037051.D

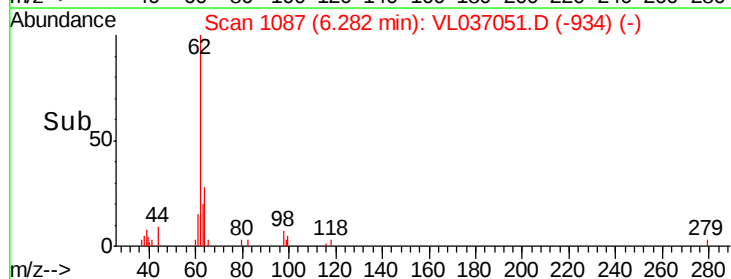
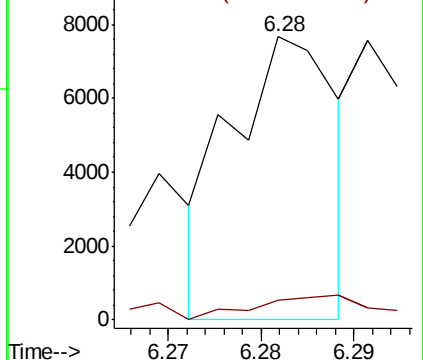
Acq: 24 May 2021 16:47

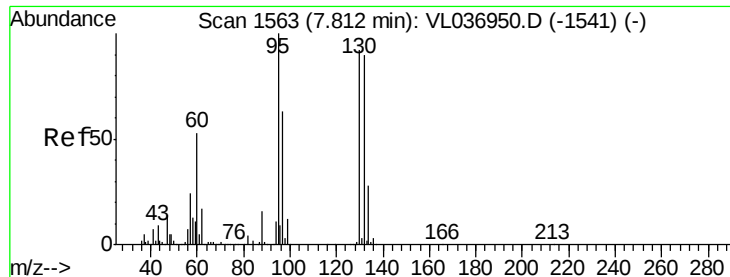
Tgt Ion: 62 Resp: 6044

Ion	Ratio	Lower	Upper
62	100		
98	0.0	5.5	8.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

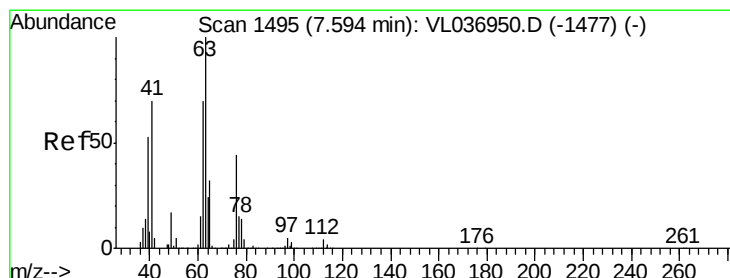
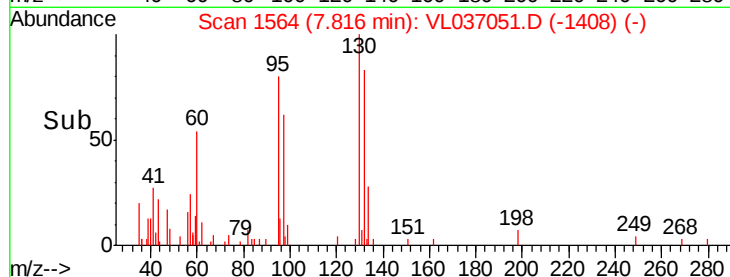
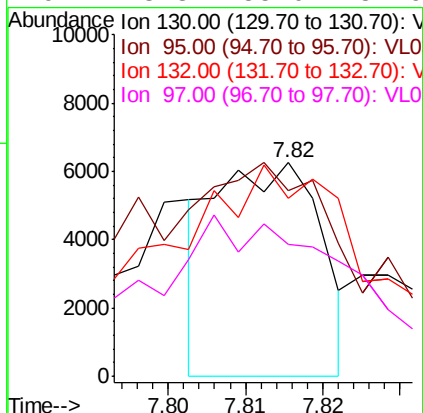
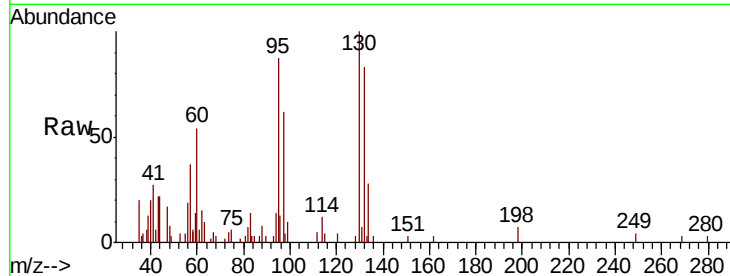




#38
 Trichloroethene
 Concen: 0.046 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. 0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

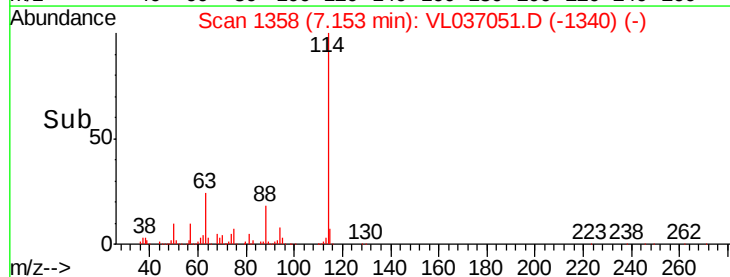
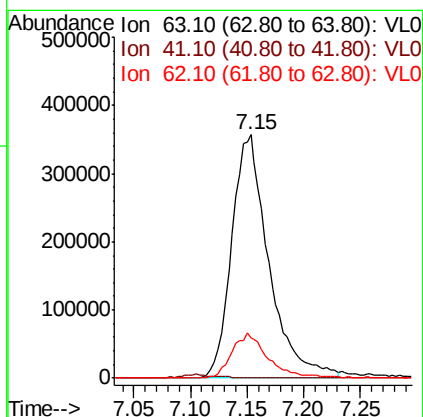
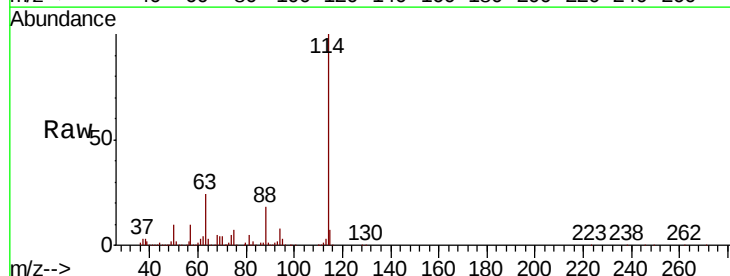
Instrument :
 MSVOA_L
 ClientSampleId :

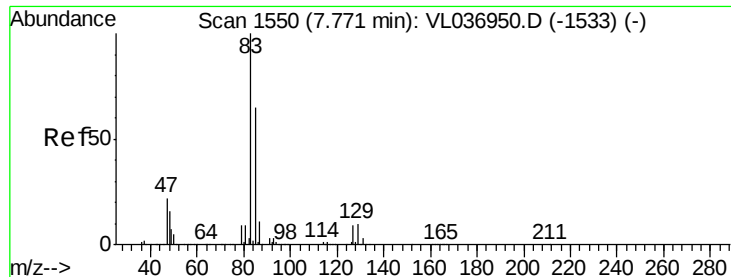
Tot Ion:130 Resp: 5905
 Ion Ratio Lower Upper
 130 100
 95 63.3 86.9 130.3#
 132 40.0 78.4 117.6#
 97 18.8 55.0 82.6#



#39
 1,2-Dichloropropane
 Concen: 7.059 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.44 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion: 63 Resp: 813524
 Ion Ratio Lower Upper
 63 100
 41 0.1 55.7 83.5#
 62 16.7 56.2 84.4#





#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

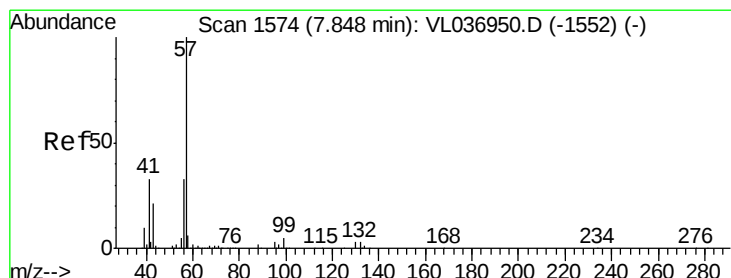
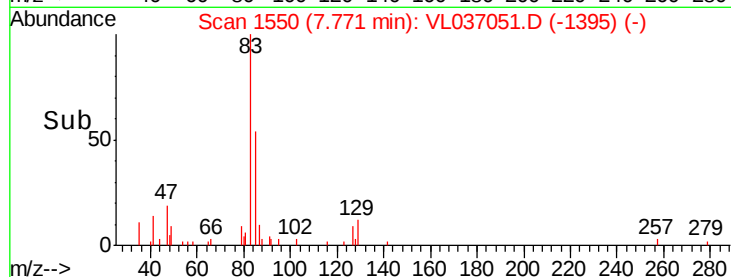
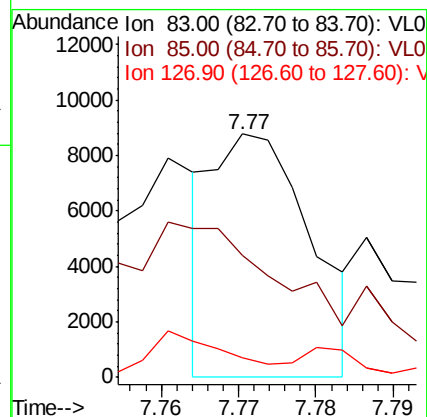
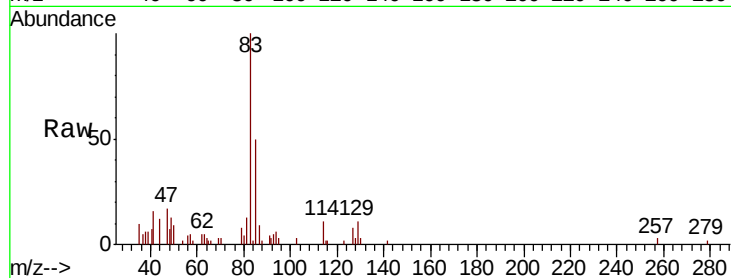
Tot Ion: 83 Resp: 7681

Ion Ratio Lower Upper

83 100

85 51.4 51.7 77.5#

127 0.0 6.9 10.3#



#44

2,2,4-Trimethylpentane

Concen: 0.051 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

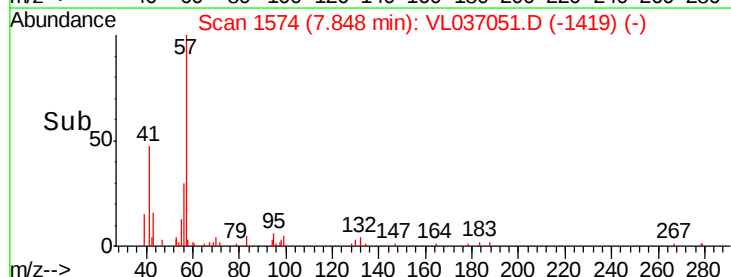
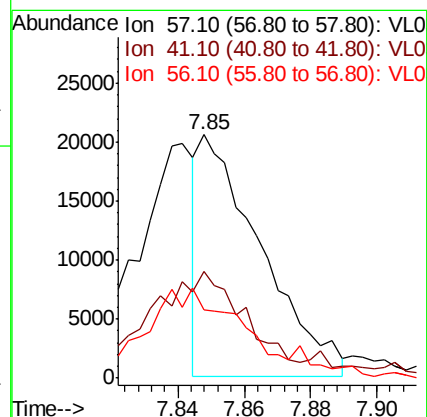
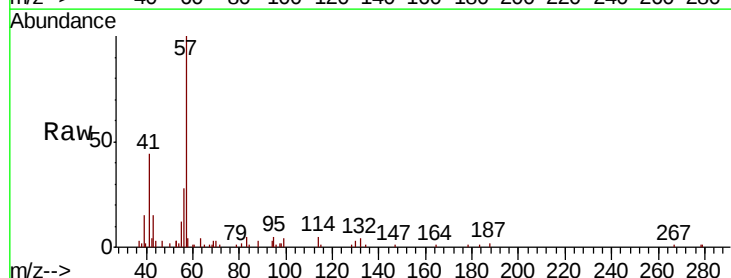
Tgt Ion: 57 Resp: 26308

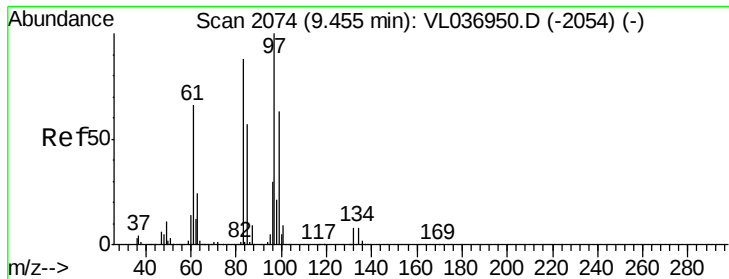
Ion Ratio Lower Upper

57 100

41 82.0 27.0 40.4#

56 68.2 25.4 38.2#





#47

1,1,2-Trichloroethane

Concen: 0.032 ppbv

RT: 9.44 min Scan# 2070

Delta R.T. -0.01 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 3847

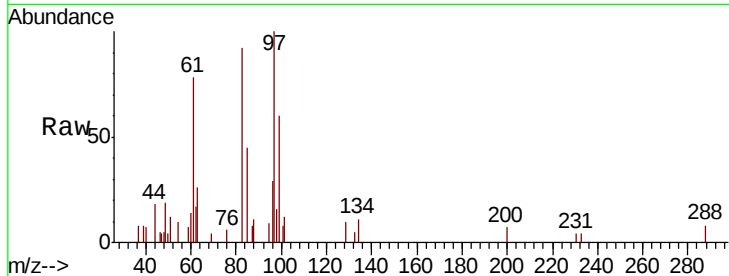
Ion Ratio Lower Upper

97 100

83 88.9 70.4 105.6

85 47.8 45.5 68.3

99 63.4 50.2 75.2

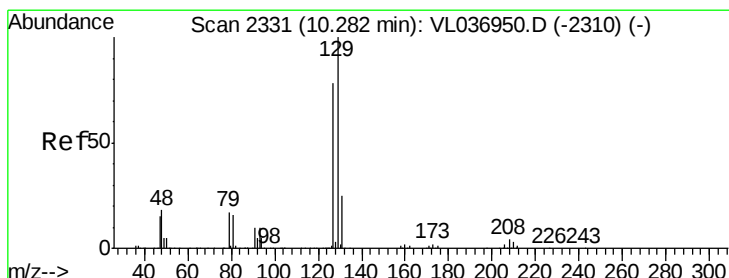
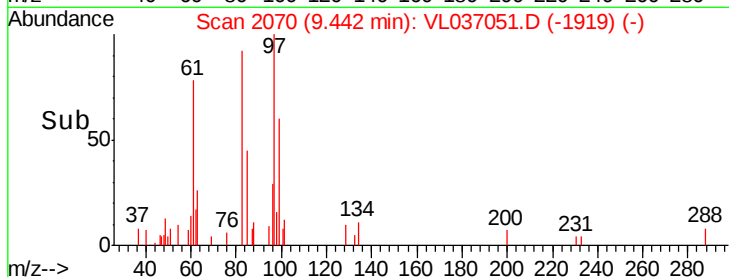
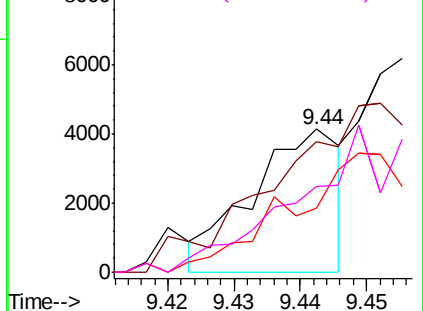


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.049 ppbv

RT: 10.28 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VL037051.D

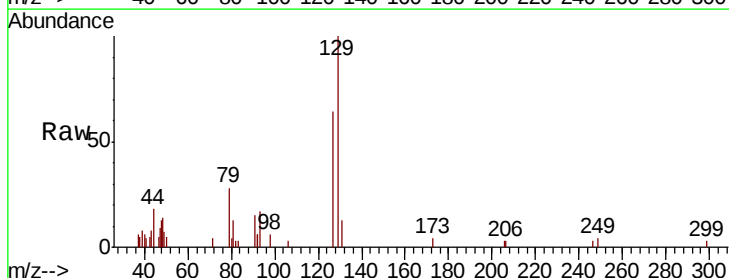
Acq: 24 May 2021 16:47

Tgt Ion: 129 Resp: 9586

Ion Ratio Lower Upper

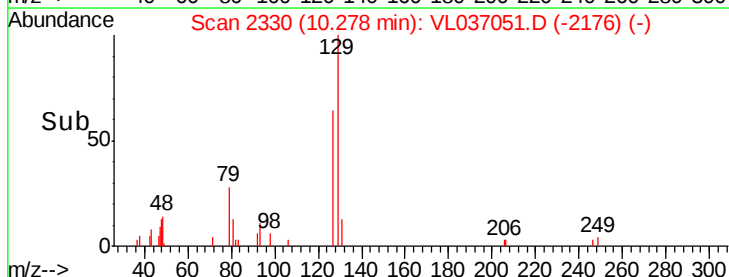
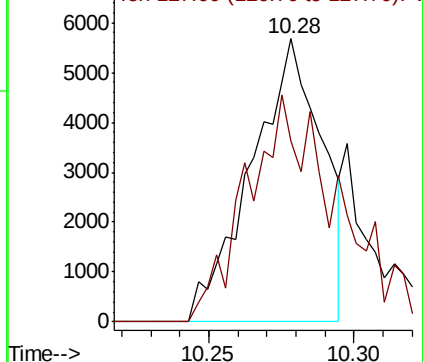
129 100

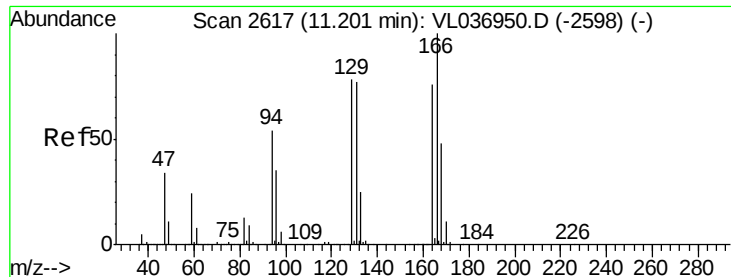
127 106.8 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#52

Tetrachloroethene

Concen: 0.048 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 5666

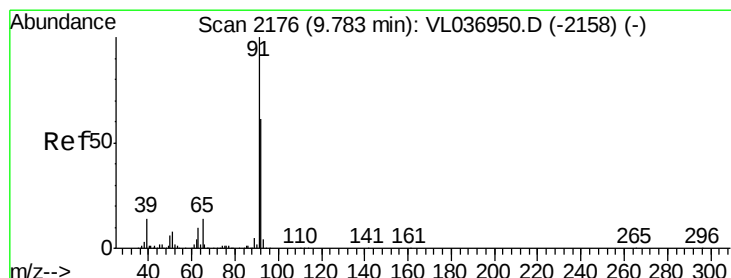
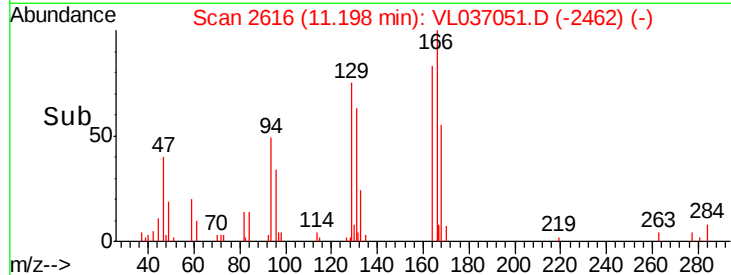
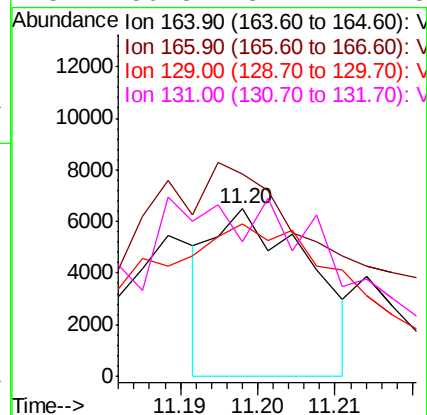
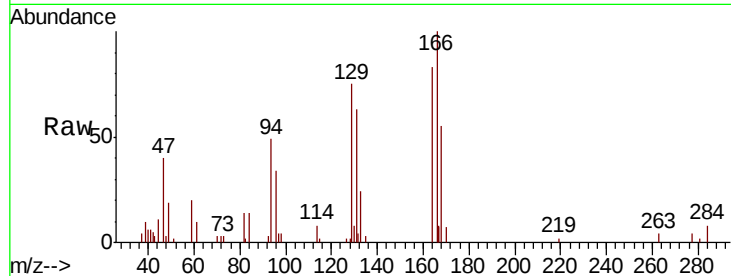
Ion Ratio Lower Upper

164 100

166 90.4 105.5 158.3#

129 51.0 81.8 122.8#

131 50.3 81.2 121.8#



#53

Toluene

Concen: 0.036 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.01 min

Lab File: VL037051.D

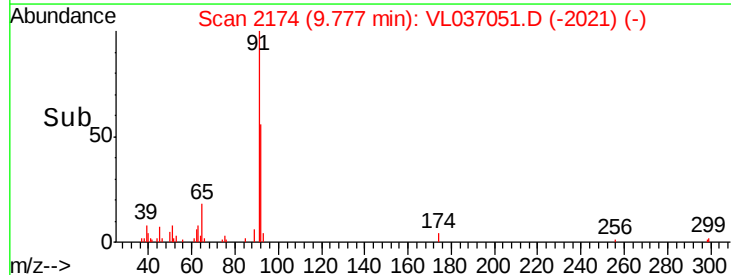
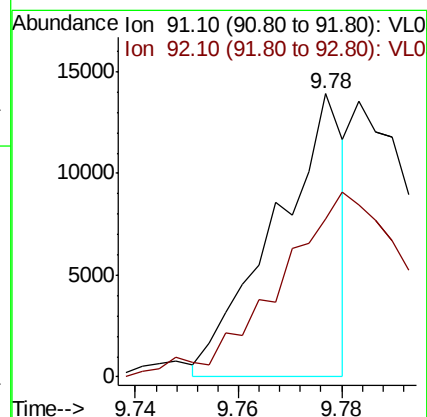
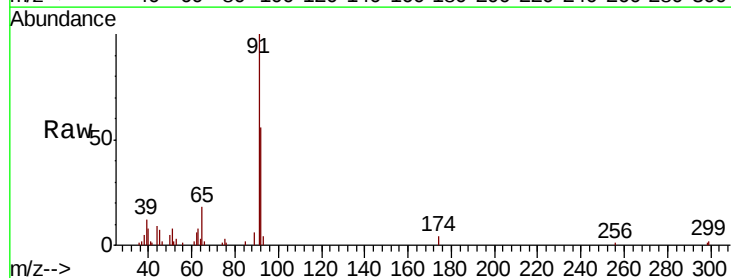
Acq: 24 May 2021 16:47

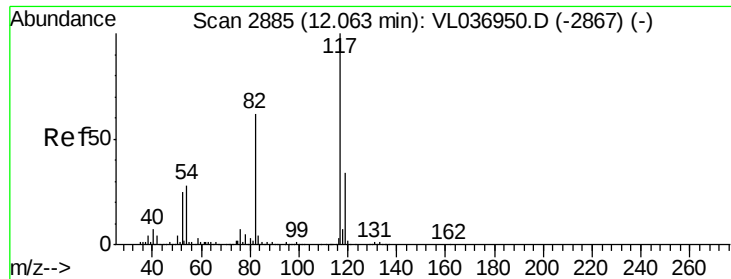
Tgt Ion: 91 Resp: 12942

Ion Ratio Lower Upper

91 100

92 0.0 49.5 74.3#

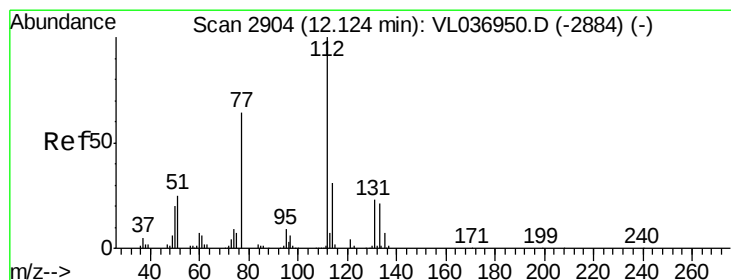
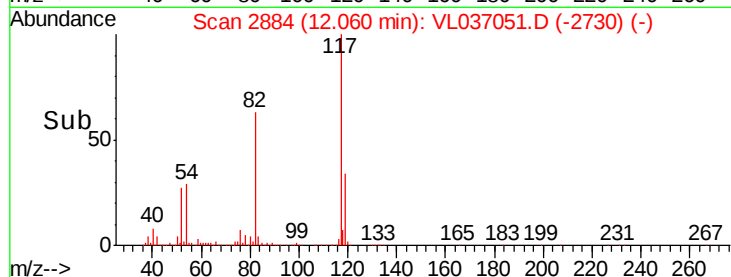
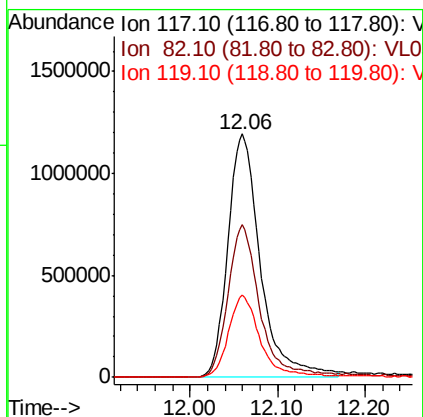
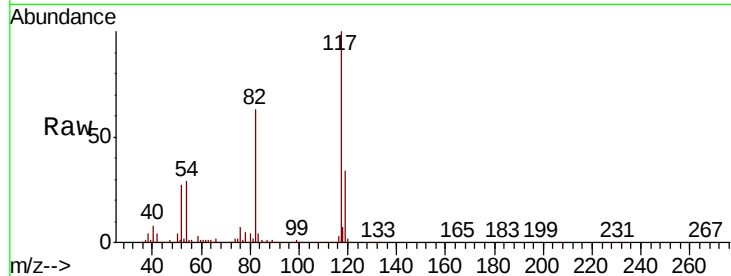




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL037051.D
Acq: 24 May 2021 16:47

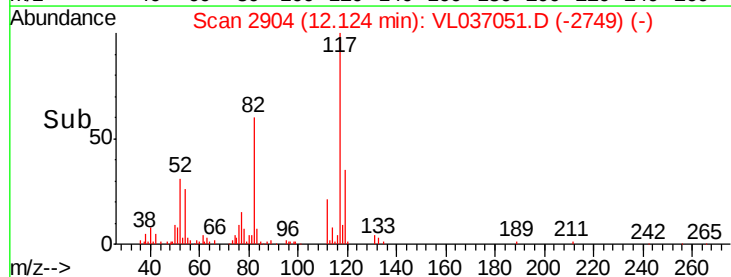
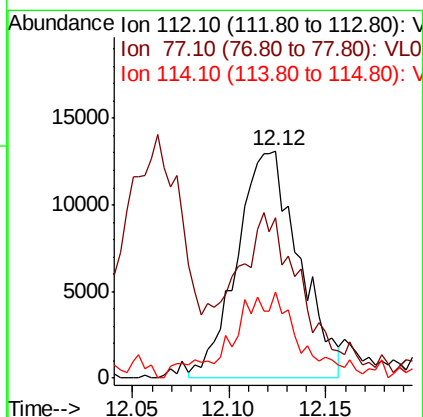
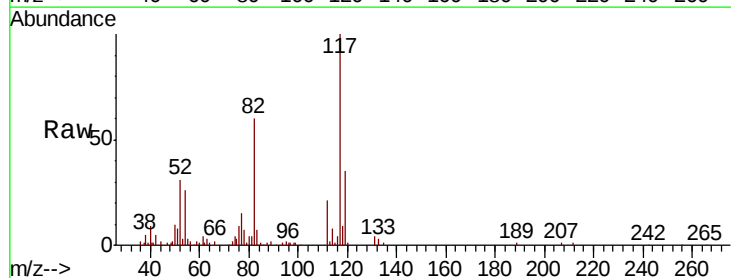
Instrument :
MSVOA_L
ClientSampleId :

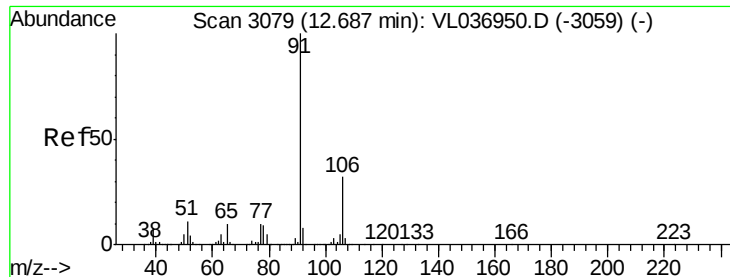
Tot Ion:117 Resp: 3091838
Ion Ratio Lower Upper
117 100
82 62.4 52.6 79.0
119 33.8 46.6 70.0#



#57
Chlorobenzene
Concen: 0.122 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VL037051.D
Acq: 24 May 2021 16:47

Tgt Ion:112 Resp: 29235
Ion Ratio Lower Upper
112 100
77 60.4 51.0 76.6
114 36.8 28.3 34.5#





#58

Ethyl Benzene

Concen: 0.049 ppbv

RT: 12.68 min Scan# 3078

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

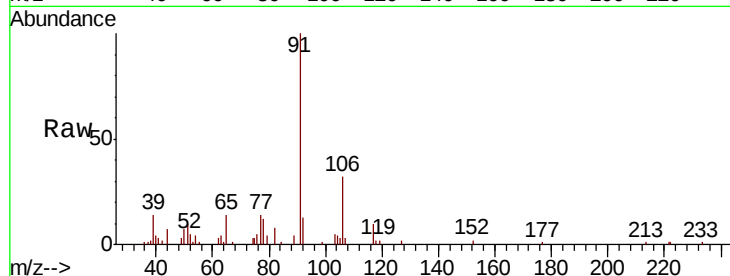
ClientSampleId :

Tot Ion: 91 Resp: 21319

Ion Ratio Lower Upper

91 100

106 32.0 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

20000

15000

10000

5000

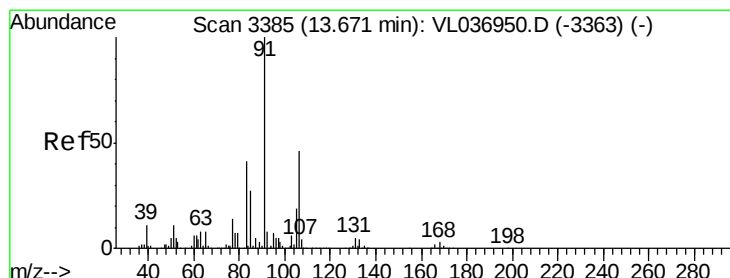
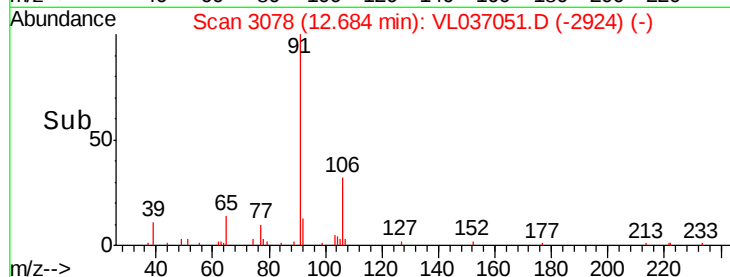
0

12.65

12.68

12.70

Time-->



#60

o-Xylene

Concen: 0.095 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.01 min

Lab File: VL037051.D

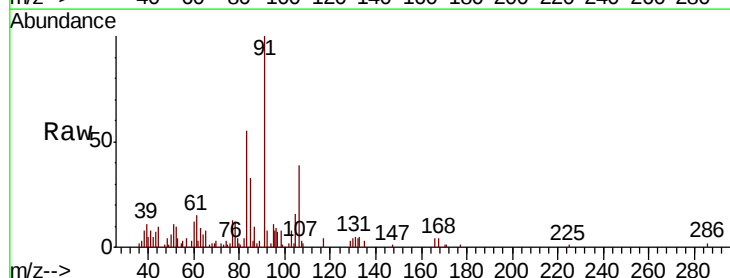
Acq: 24 May 2021 16:47

Tgt Ion: 91 Resp: 32832

Ion Ratio Lower Upper

91 100

106 51.3 23.4 70.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

15000

10000

5000

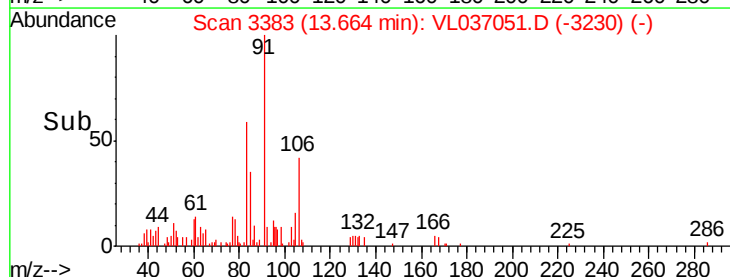
0

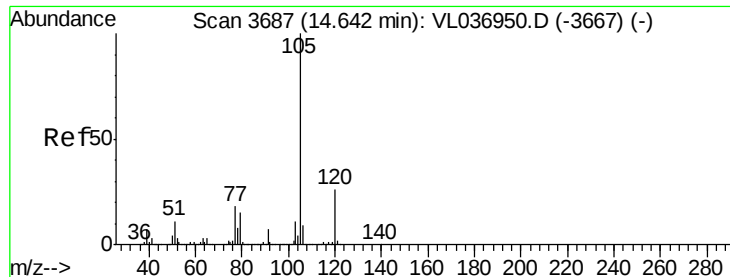
13.65

13.66

13.70

Time-->





#62

Isopropylbenzene

Concen: 0.092 ppbv

RT: 14.64 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

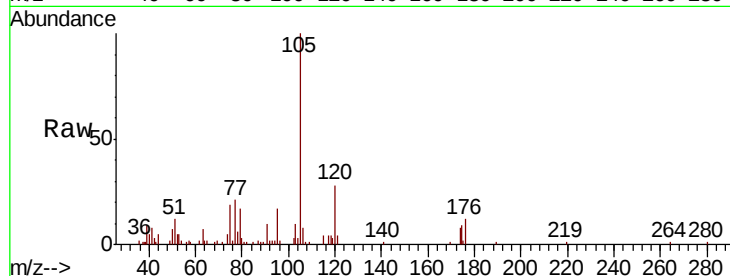
ClientSampleId :

Tot Ion:105 Resp: 45403

Ion Ratio Lower Upper

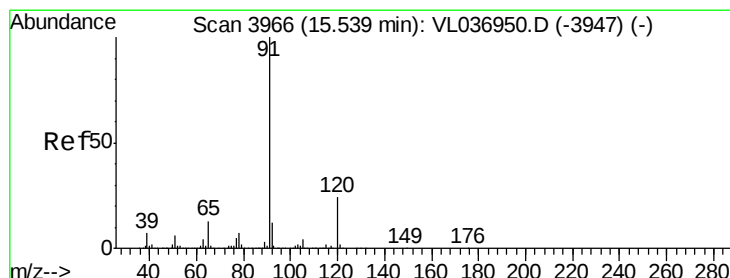
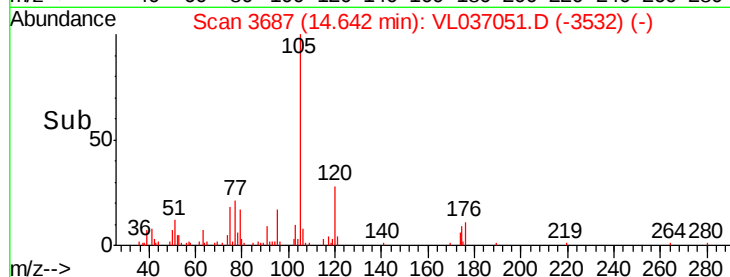
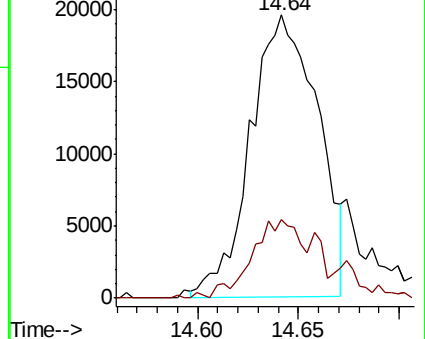
105 100

120 30.2 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.041 ppbv

RT: 15.55 min Scan# 3968

Delta R.T. 0.01 min

Lab File: VL037051.D

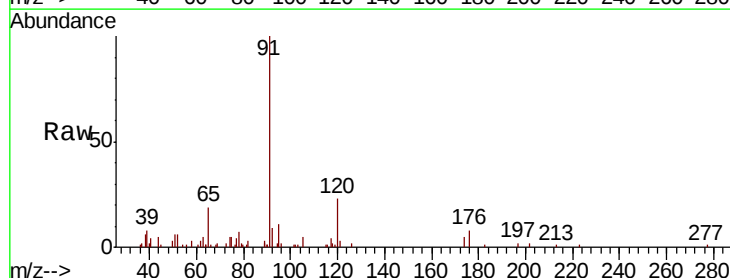
Acq: 24 May 2021 16:47

Tgt Ion:120 Resp: 5289

Ion Ratio Lower Upper

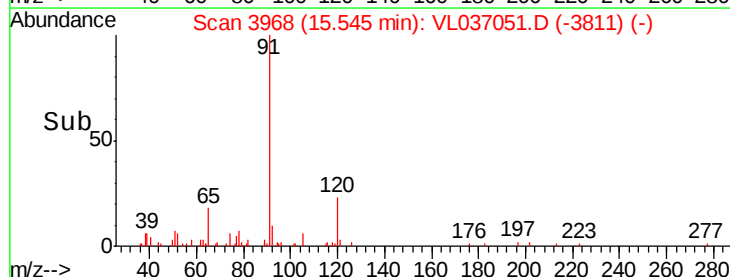
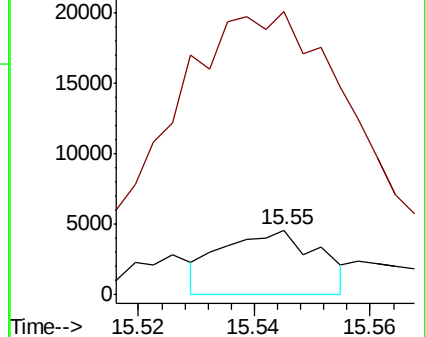
120 100

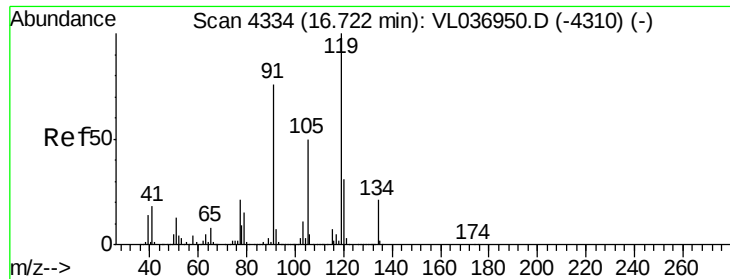
91 1050.0 343.8 515.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.038 ppbv

RT: 16.72 min Scan# 4333

Delta R.T. -0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

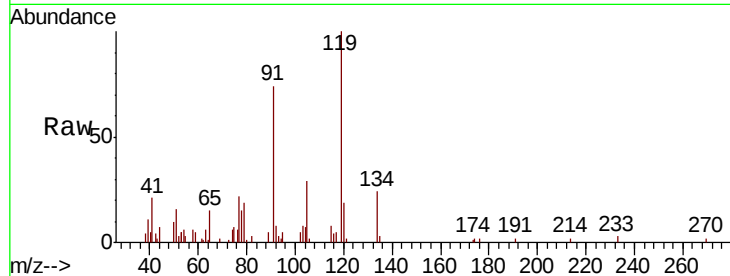
Tot Ion:119 Resp: 16769

Ion Ratio Lower Upper

119 100

91 0.0 61.9 92.9#

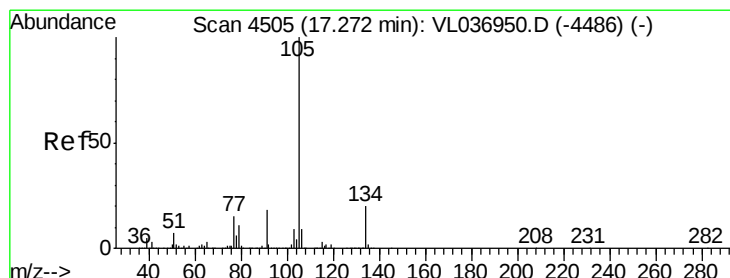
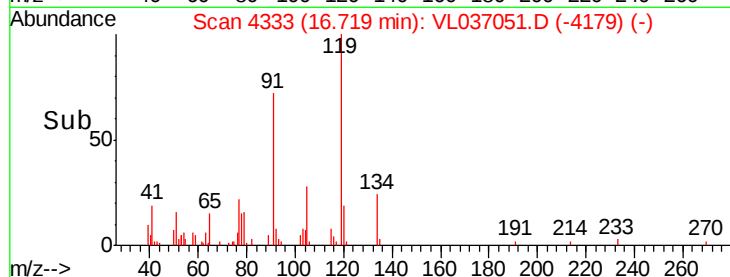
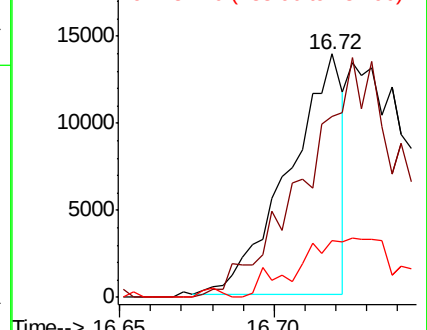
134 0.0 16.2 24.4#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#67

sec-Butylbenzene

Concen: 0.031 ppbv

RT: 17.27 min Scan# 4503

Delta R.T. -0.01 min

Lab File: VL037051.D

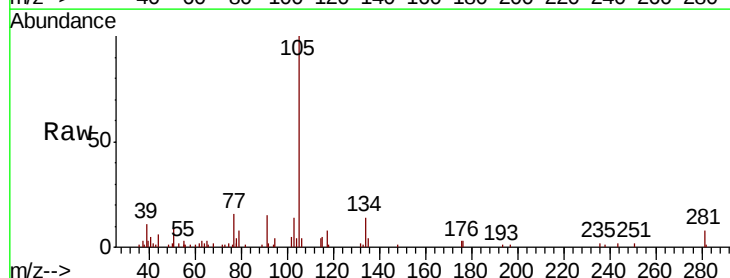
Acq: 24 May 2021 16:47

Tgt Ion:105 Resp: 18989

Ion Ratio Lower Upper

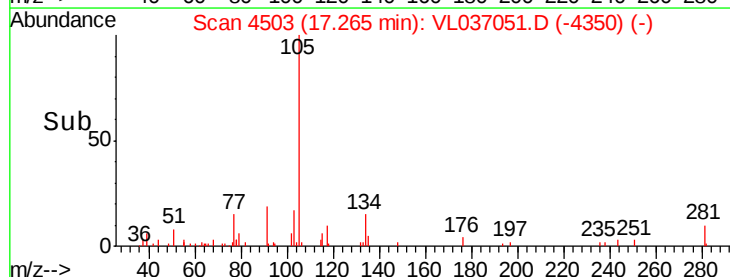
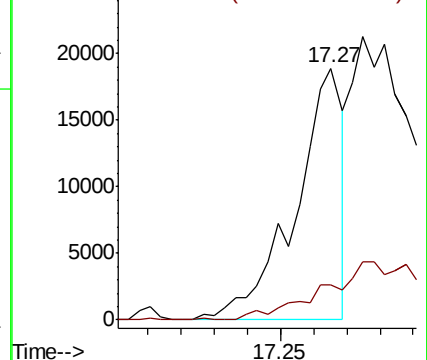
105 100

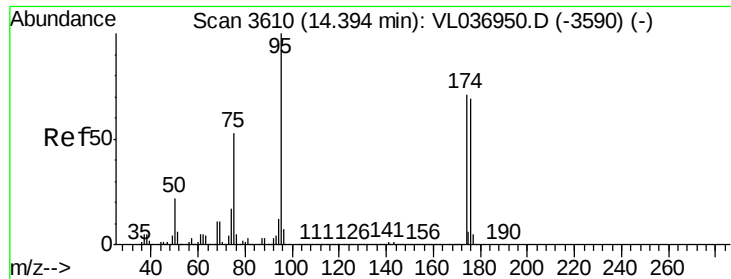
134 0.0 15.6 23.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

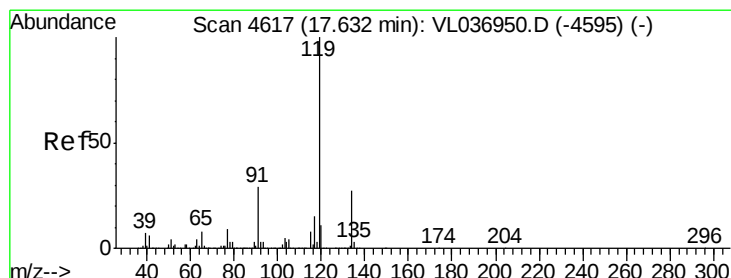
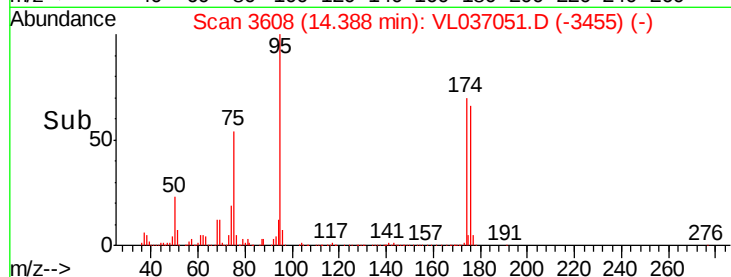
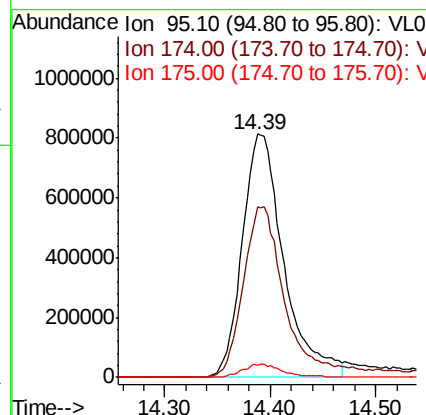
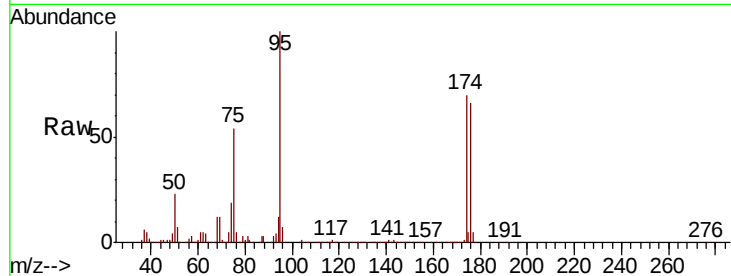




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.586 ppbv
 RT: 14.39 min Scan# 3608
 Delta R.T. -0.01 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

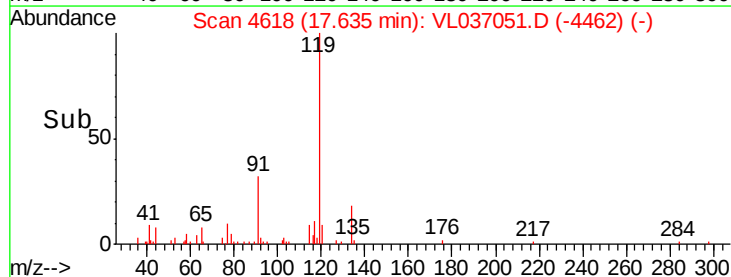
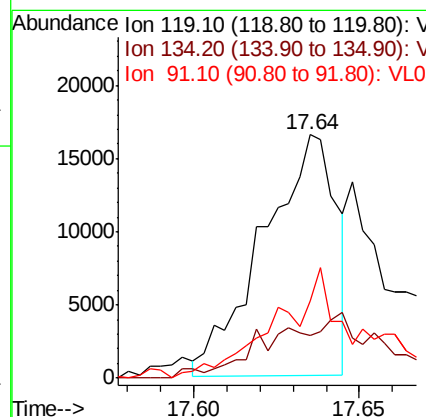
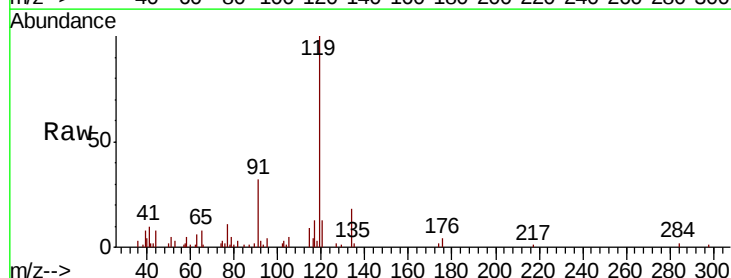
Instrument :
 MSVOA_L
 ClientSampled :

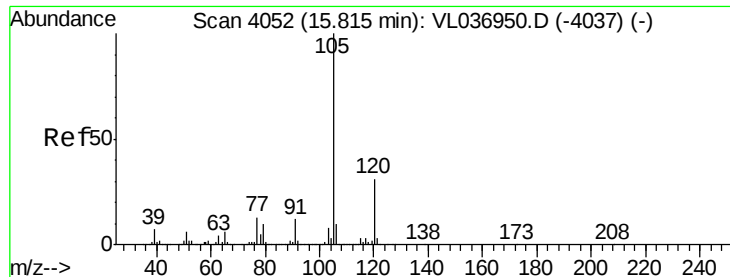
Tot Ion: 95 Resp: 2226508
 Ion Ratio Lower Upper
 95 100
 174 76.5 58.4 87.6
 175 5.3 4.4 6.6



#69
 p-Isopropyltoluene
 Concen: 0.048 ppbv
 RT: 17.64 min Scan# 4618
 Delta R.T. 0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion: 119 Resp: 25247
 Ion Ratio Lower Upper
 119 100
 134 0.0 21.2 31.8#
 91 61.9 22.2 33.4#





#72

4-Ethyltoluene

Concen: 0.041 ppbv

RT: 15.82 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VL037051.D

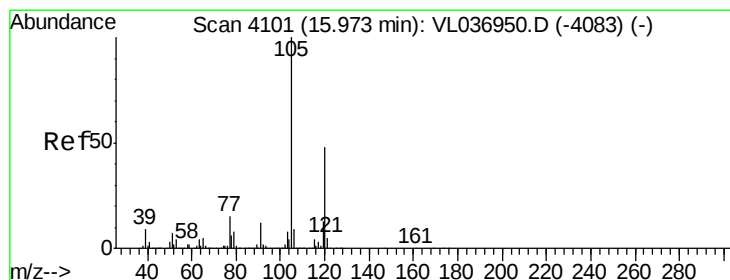
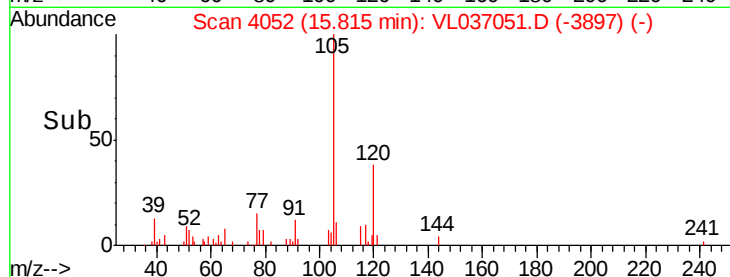
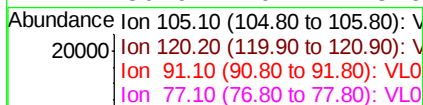
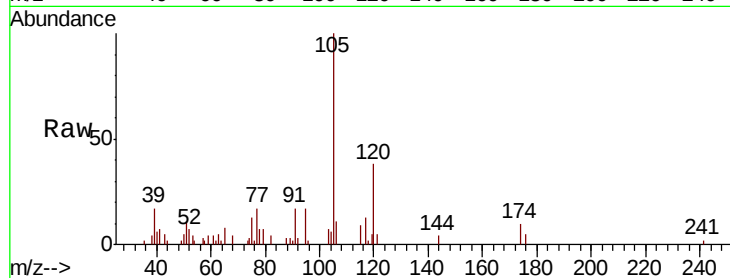
Acq: 24 May 2021 16:47

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	105	Resp:	16862
Ion	Ratio	Lower	Upper
105	100		
120	71.7	24.6	37.0#
91	0.0	9.8	14.6#
77	30.9	10.4	15.6#



#73

1,3,5-Trimethylbenzene

Concen: 0.051 ppbv

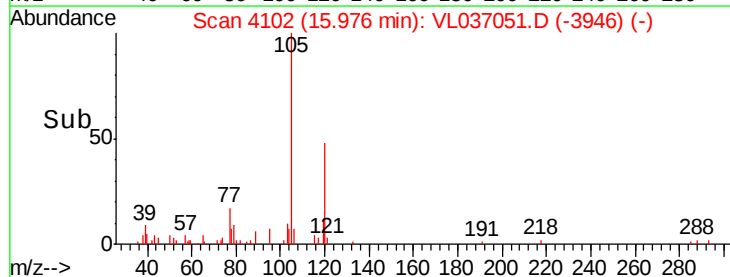
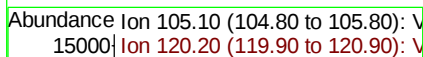
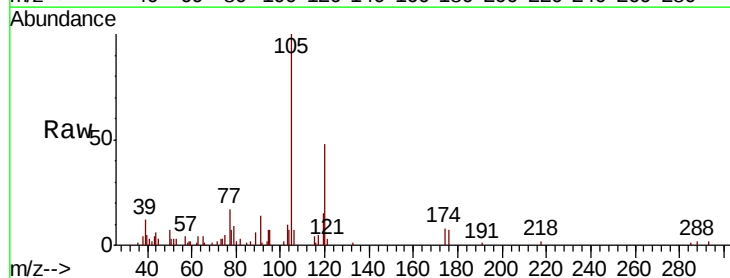
RT: 15.98 min Scan# 4102

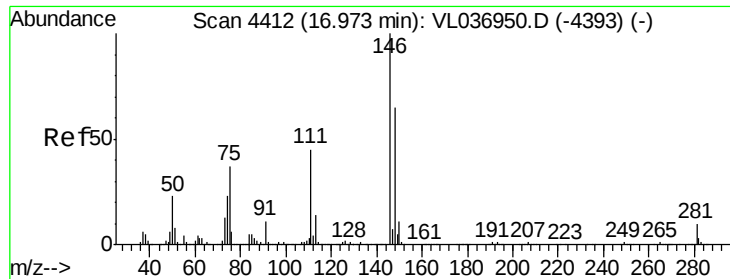
Delta R.T. 0.00 min

Lab File: VL037051.D

Acq: 24 May 2021 16:47

Tgt Ion:	105	Resp:	19602
Ion	Ratio	Lower	Upper
105	100		
120	47.9	38.6	58.0

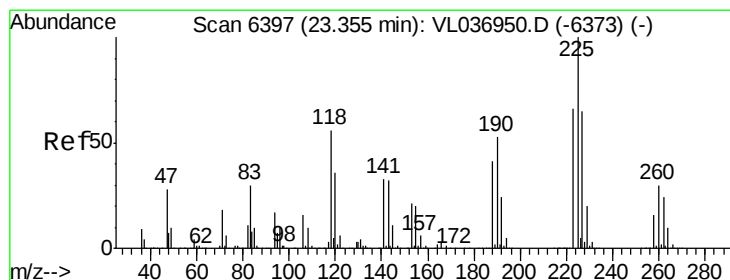
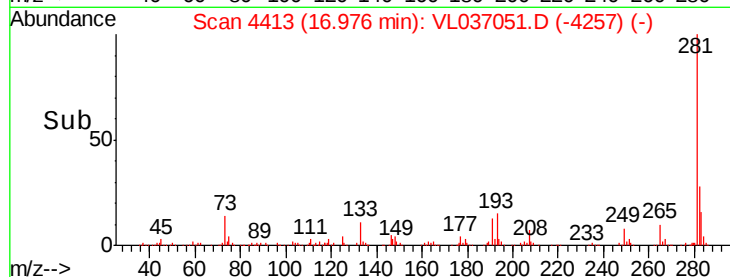
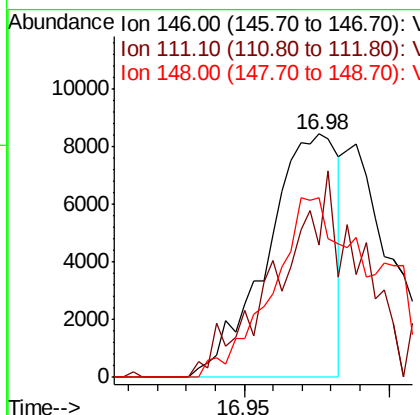
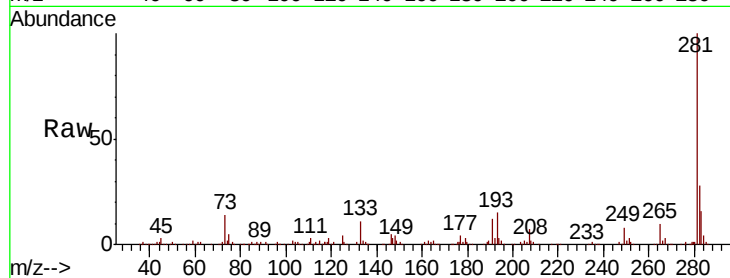




#75
 1,3-Dichlorobenzene
 Concen: 0.059 ppbv
 RT: 16.98 min Scan# 4413
 Delta R.T. 0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:146 Resp: 14224
 Ion Ratio Lower Upper
 146 100
 111 119.4 22.2 66.6#
 148 127.0 32.3 96.8#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.051 ppbv
 RT: 23.35 min Scan# 6396
 Delta R.T. -0.00 min
 Lab File: VL037051.D
 Acq: 24 May 2021 16:47

Tgt Ion:225 Resp: 10013
 Ion Ratio Lower Upper
 225 100
 223 149.5 51.9 77.9#
 227 146.0 51.8 77.6#

