

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037292.D
 Acq On : 30 Jul 2021 19:53
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 22:52:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 22:49:48 2021
 QLast Update : Fri Jul 30 22:49:48 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1138033	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3678862	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3250332	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2439374	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	26488	0.140	ppbv 99
3) Chlorodifluoromethane	2.98	51	26636	0.120	ppbv 97
4) Chloromethane	3.14	50	9729	0.131	ppbv # 79
5) Vinyl Chloride	3.26	62	5033	0.062	ppbv # 62
6) Bromomethane	3.47	94	4204	0.087	ppbv 96
8) Dichlorotetrafluoroethane	3.18	85	23819	0.118	ppbv 90
9) Propene	3.00	41	8712	0.123	ppbv # 16
10) Heptane	8.12	43	8795	0.051	ppbv # 1
11) Trichlorofluoromethane	3.94	101	21733	0.104	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6863	0.046	ppbv # 11
13) Ethanol	3.61	45	533	0.047	ppbv # 35
14) Bromoethene	3.74	108	3182	0.051	ppbv # 1
15) Acetone	3.87	43	54192	0.417	ppbv # 29
16) 1,3-Butadiene	3.33	39	3087	0.041	ppbv # 9
18) 1,1-Dichloroethene	4.29	96	6300	0.095	ppbv # 70
20) Methylene Chloride	4.34	84	17737	0.219	ppbv 88
21) Allyl Chloride	4.41	41	4356	0.045	ppbv # 19
22) trans-1,2-Dichloroethene	4.89	96	6111	0.093	ppbv # 71
23) Vinyl Acetate	5.09	43	23606	0.131	ppbv # 93
24) 1,1-Dichloroethane	5.01	63	14260	0.098	ppbv # 91
25) Ethyl Acetate	5.69	43	28375	0.100	ppbv # 83
26) Hexane	5.68	57	10341	0.071	ppbv # 1
27) Carbon Disulfide	4.55	76	6886	0.050	ppbv # 71
28) Methyl tert-Butyl Ether	5.05	73	14402	0.088	ppbv # 74
29) Chloroform	5.75	83	24281	0.111	ppbv 94
31) cis-1,2-Dichloroethene	5.55	61	6283	0.048	ppbv 95
32) 1,1,1-Trichloroethane	6.51	97	10772	0.046	ppbv # 22
35) Carbon Tetrachloride	7.01	117	8646	0.035	ppbv 90
36) Benzene	6.89	78	29955	0.100	ppbv 95
37) 1,2-Dichloroethane	6.31	62	12184	0.071	ppbv # 88
38) Trichloroethene	7.83	130	13212	0.093	ppbv # 61
39) 1,2-Dichloropropane	7.18	63	831023	7.524	ppbv # 25
42) Bromodichloromethane	7.80	83	16310	0.069	ppbv # 94
44) 2,2,4-Trimethylpentane	7.88	57	34687	0.069	ppbv # 58
47) 1,1,2-Trichloroethane	9.47	97	5561	0.044	ppbv # 71
53) Toluene	9.82	91	30915	0.087	ppbv 97
54) 1,2-Dibromoethane	10.62	107	6739	0.037	ppbv 98
57) Chlorobenzene	12.15	112	30890	0.117	ppbv # 97
58) Ethyl Benzene	12.72	91	24067	0.054	ppbv 93
59) m/p-Xylene	13.00	91	20104	0.053	ppbv # 1
60) o-Xylene	13.70	91	29203	0.081	ppbv 91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
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 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

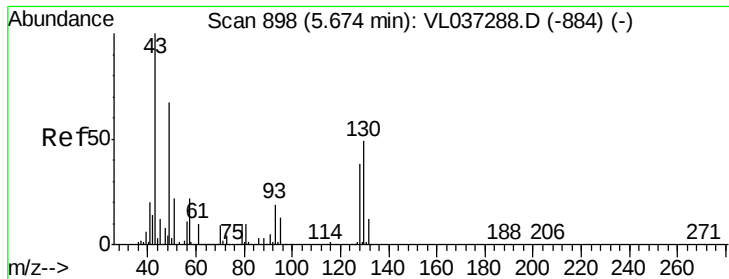
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 22:52:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 22:49:48 2021
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

63) 1,1,2,2-Tetrachloroethane	13.68	83	10007	0.041	ppbv #	24
65) tert-Butylbenzene	16.75	119	22637	0.049	ppbv #	21
66) Benzyl Chloride	16.99	91	942	0.045	ppbv #	63
67) sec-Butylbenzene	17.31	105	38173	0.062	ppbv #	71
70) n-Butylbenzene	18.56	91	21811	0.046	ppbv #	36
71) 2-Chlorotoluene	15.46	91	17721	0.049	ppbv #	40
73) 1,3,5-Trimethylbenzene	16.00	105	20691	0.052	ppbv	94
74) 1,2,4-Trimethylbenzene	16.77	105	25225	0.061	ppbv #	72
75) 1,3-Dichlorobenzene	17.00	146	12646	0.050	ppbv #	1
76) 1,4-Dichlorobenzene	17.14	146	8043	0.032	ppbv #	23
77) 1,2-Dichlorobenzene	17.82	146	10051	0.041	ppbv #	23
81) 1,2,4-Trichlorobenzene	21.94	180	9794	0.051	ppbv #	19

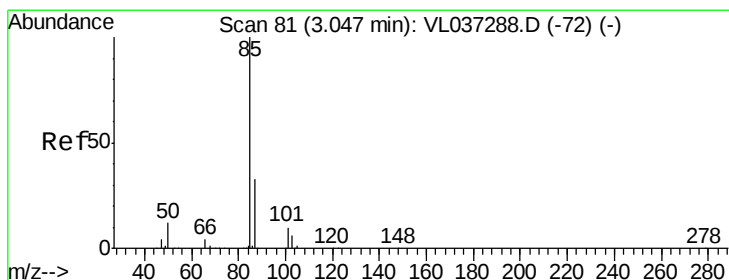
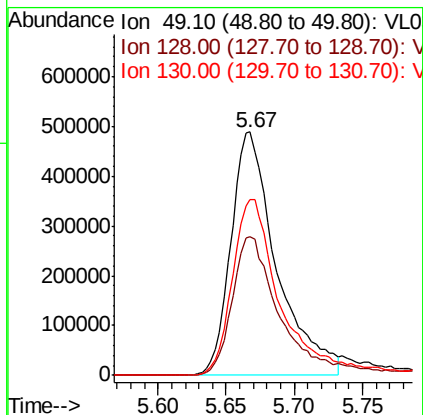
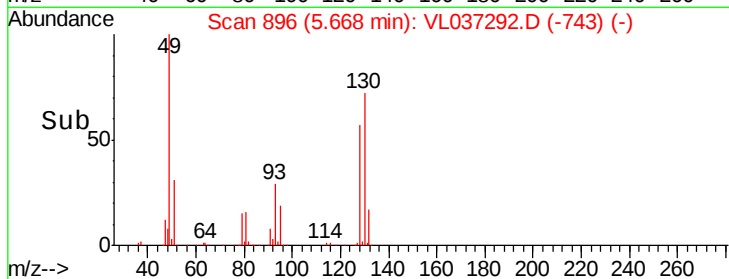
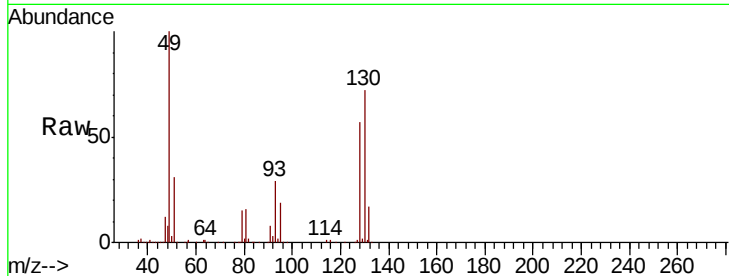
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

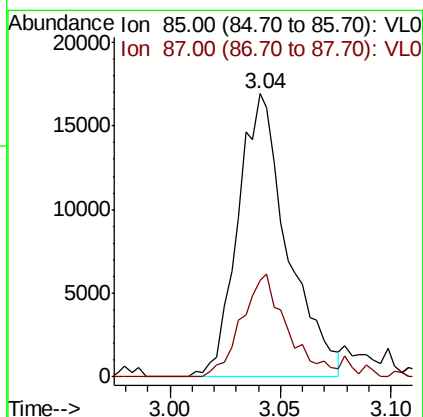
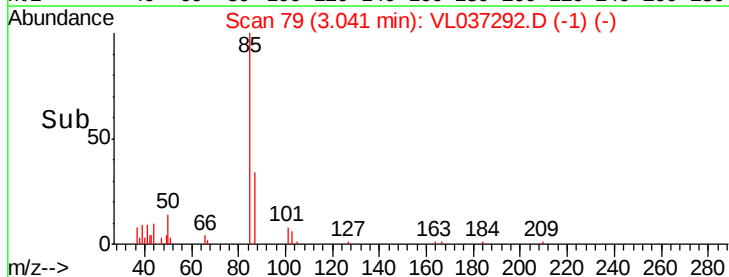
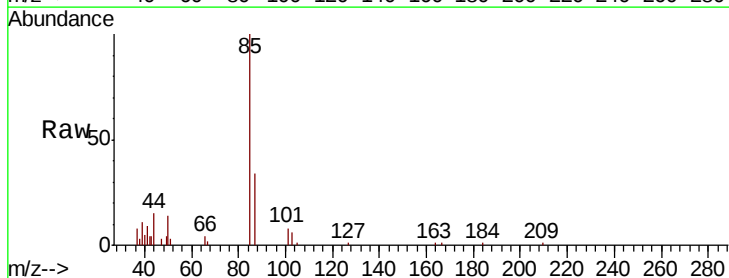
Instrument :
 MSVOA_L
 ClientSampleId :

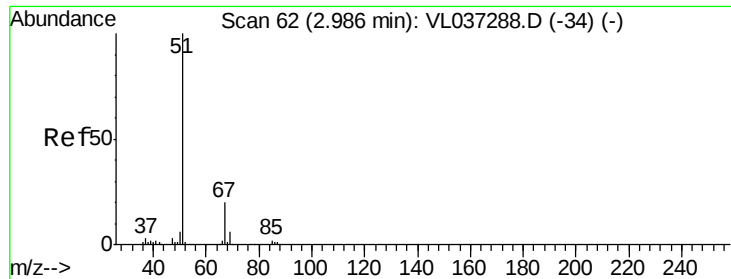
Tot Ion: 49 Resp: 1138033
 Ion Ratio Lower Upper
 49 100
 128 62.9 30.6 92.0
 130 80.0 37.8 113.4



#2
 Dichlorodifluoromethane
 Concen: 0.140 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion: 85 Resp: 26488
 Ion Ratio Lower Upper
 85 100
 87 34.1 26.6 40.0

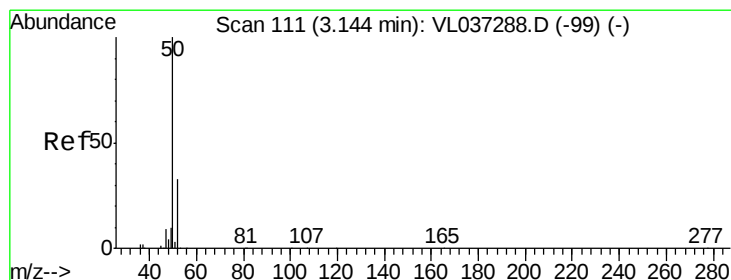
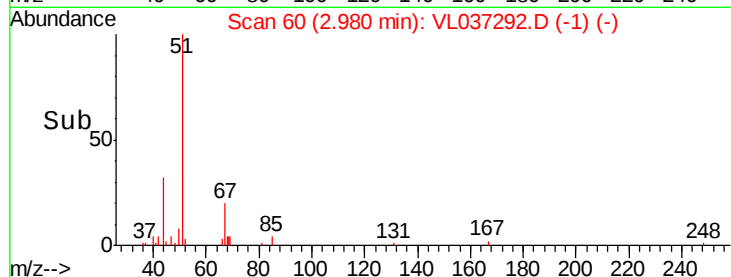
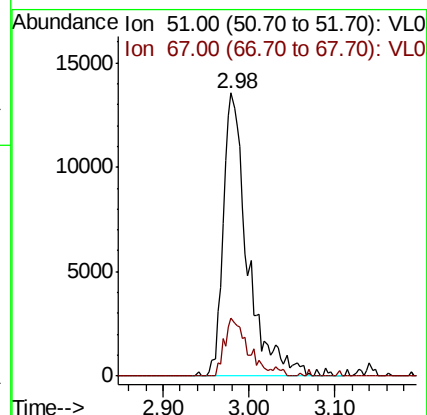
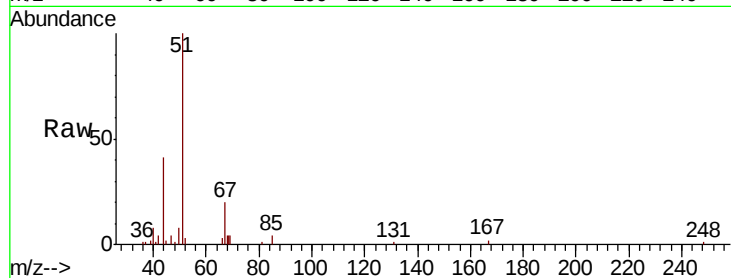




#3
Chlorodifluoromethane
Concen: 0.120 ppbv
RT: 2.98 min Scan# 60
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

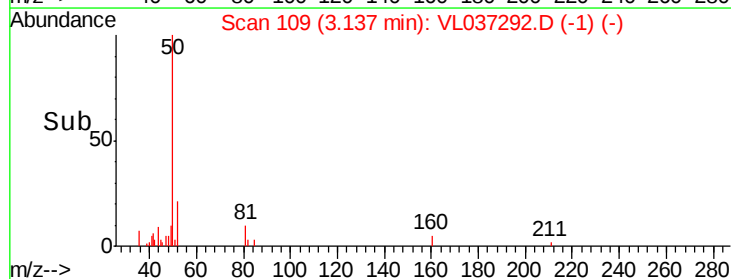
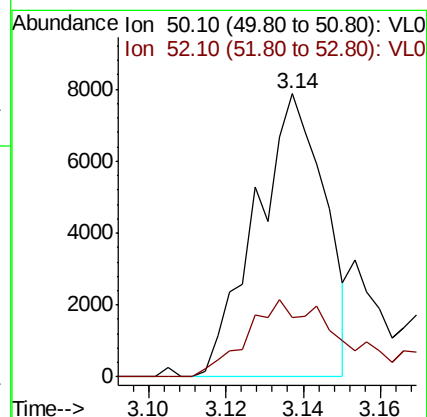
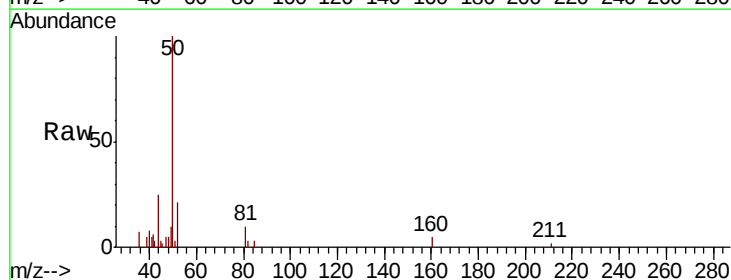
Instrument :
MSVOA_L
ClientSampleId :

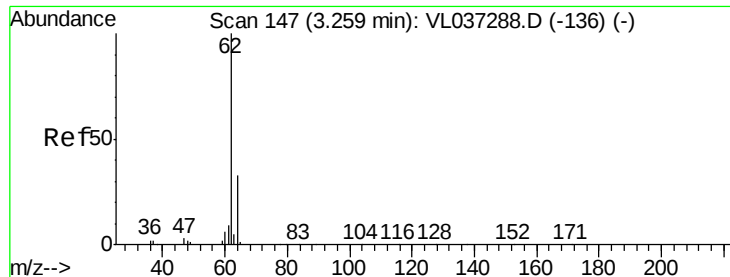
Tot Ion: 51 Resp: 26636
Ion Ratio Lower Upper
51 100
67 20.5 15.2 22.8



#4
Chloromethane
Concen: 0.131 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Tgt Ion: 50 Resp: 9729
Ion Ratio Lower Upper
50 100
52 21.0 26.2 39.4#





#5

Vinyl Chloride

Concen: 0.062 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

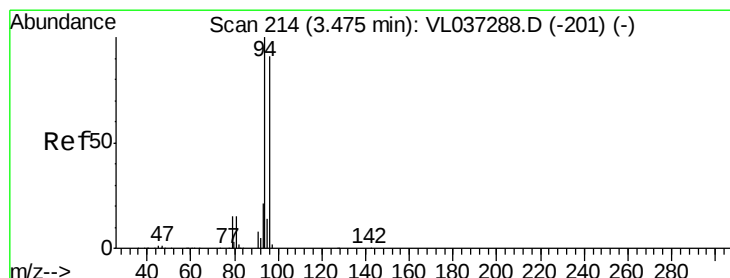
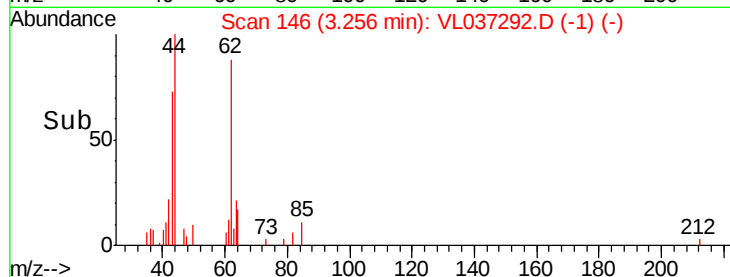
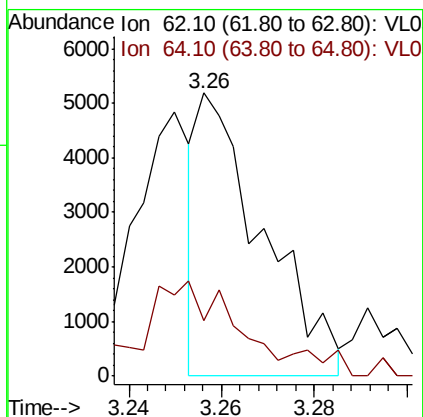
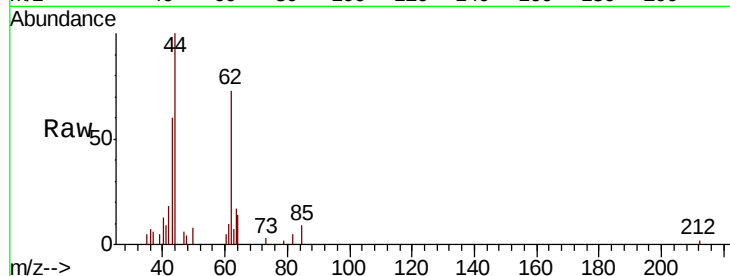
ClientSampleId :

Tot Ion: 62 Resp: 5033

Ion Ratio Lower Upper

62 100

64 11.5 26.1 39.1#



#6

Bromomethane

Concen: 0.087 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.01 min

Lab File: VL037292.D

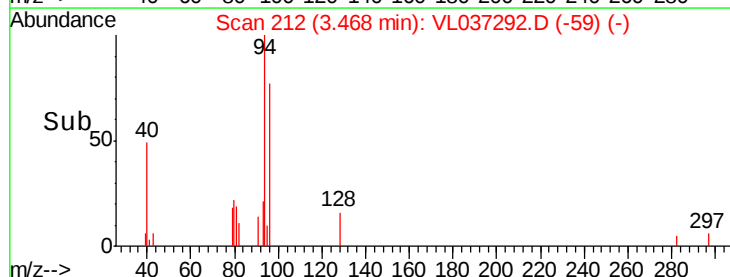
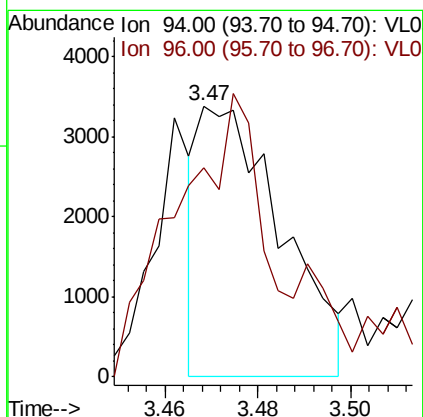
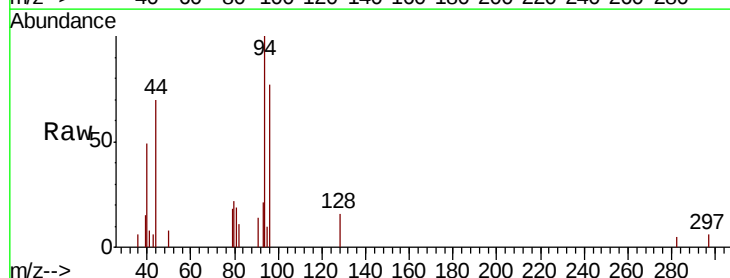
Acq: 30 Jul 2021 19:53

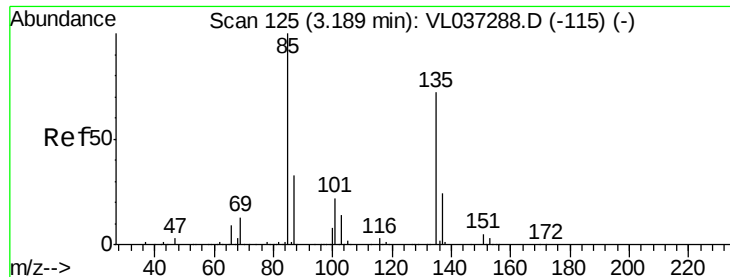
Tgt Ion: 94 Resp: 4204

Ion Ratio Lower Upper

94 100

96 87.3 72.7 109.1





#8

Dichlorotetrafluoroethane

Concen: 0.118 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

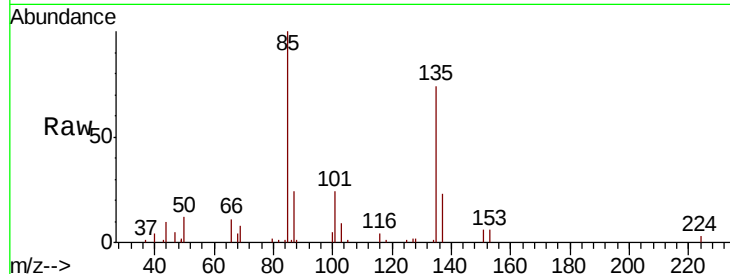
ClientSampleId :

Tot Ion: 85 Resp: 23819

Ion Ratio Lower Upper

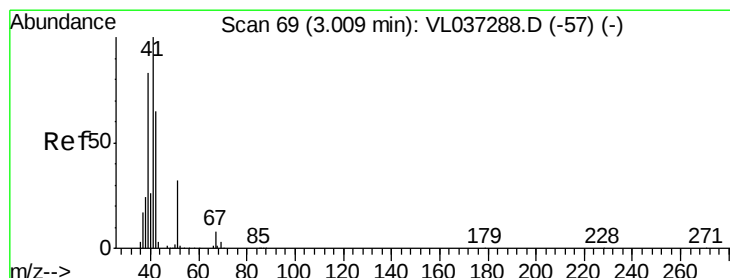
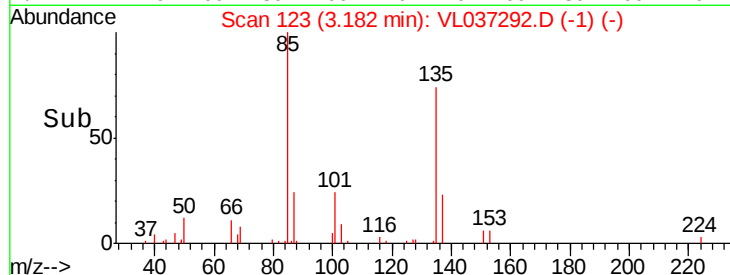
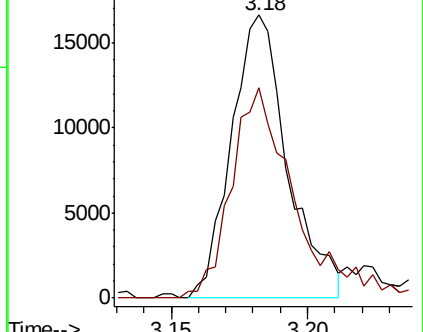
85 100

135 84.9 61.0 91.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.123 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037292.D

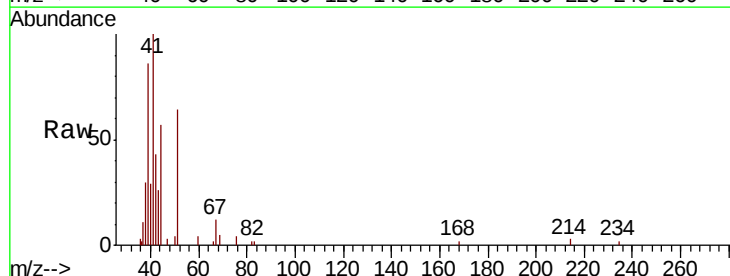
Acq: 30 Jul 2021 19:53

Tgt Ion: 41 Resp: 8712

Ion Ratio Lower Upper

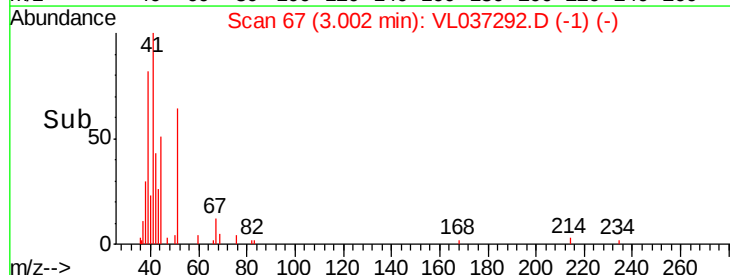
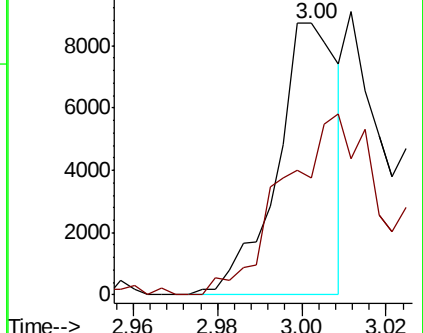
41 100

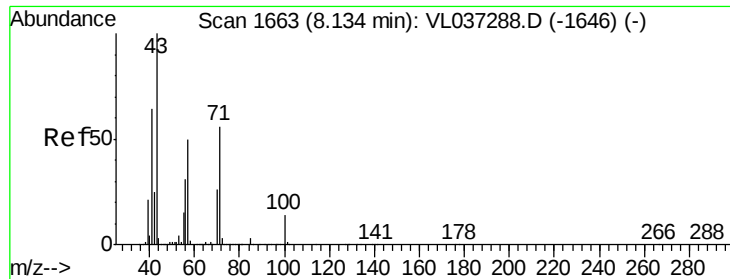
42 0.0 54.0 81.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

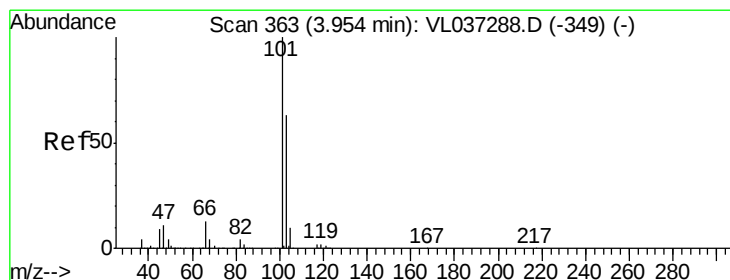
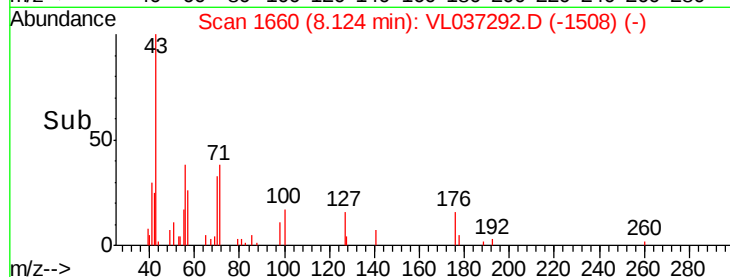
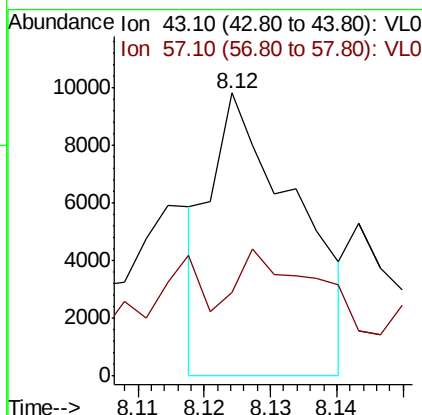
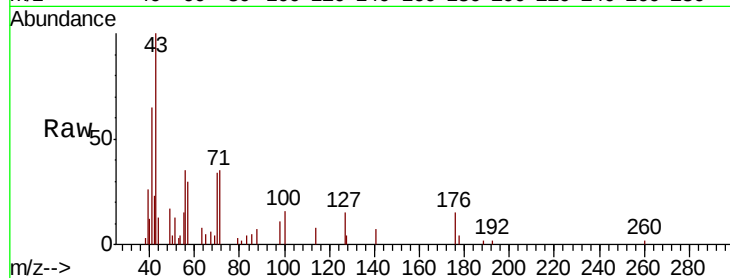




#10
 Heptane
 Concen: 0.051 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

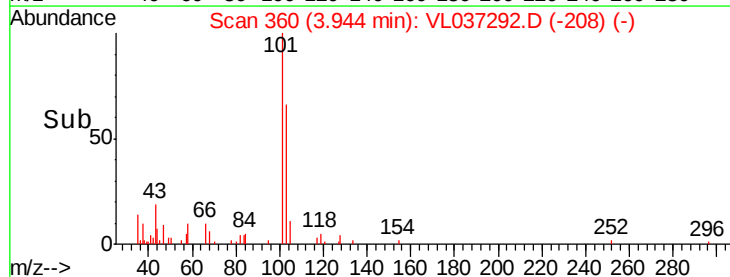
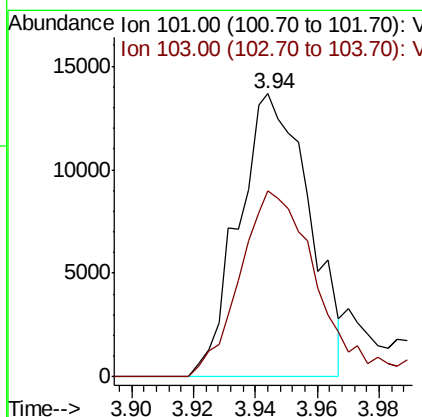
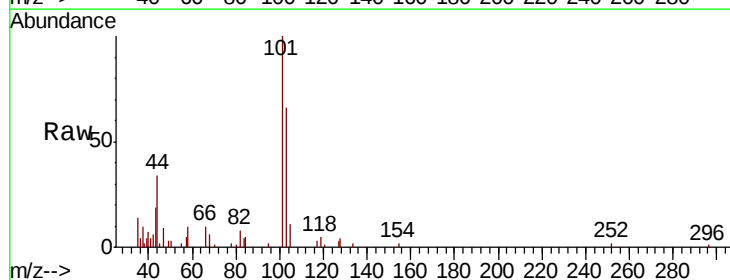
Instrument :
 MSVOA_L
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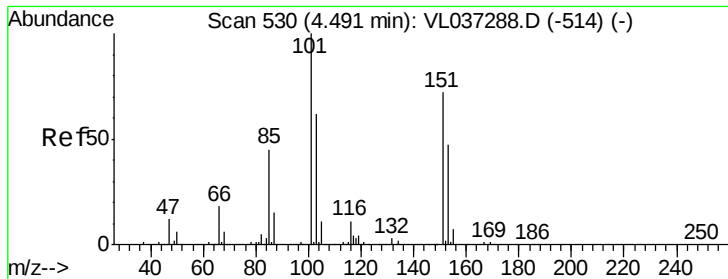
Tot Ion: 43 Resp: 8795
 Ion Ratio Lower Upper
 43 100
 57 121.5 40.9 61.3#



#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion: 101 Resp: 21733
 Ion Ratio Lower Upper
 101 100
 103 65.9 50.6 75.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.046 ppbv

RT: 4.49 min Scan# 529

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

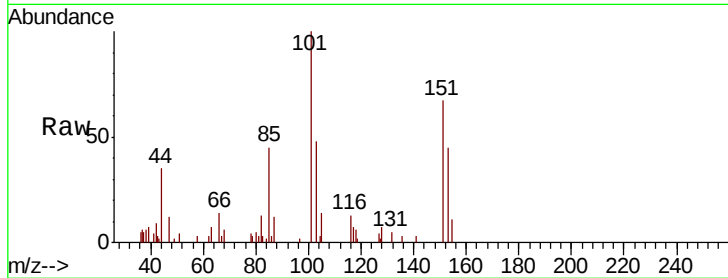
ClientSampleId :

Tot Ion:101 Resp: 6863

Ion Ratio Lower Upper

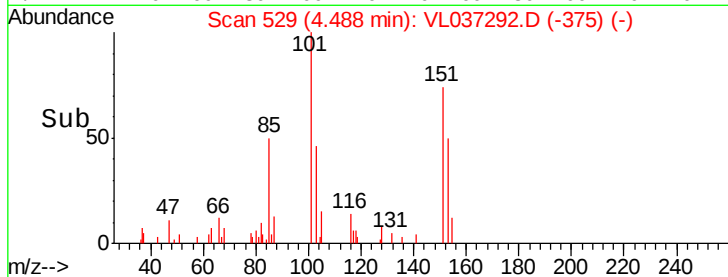
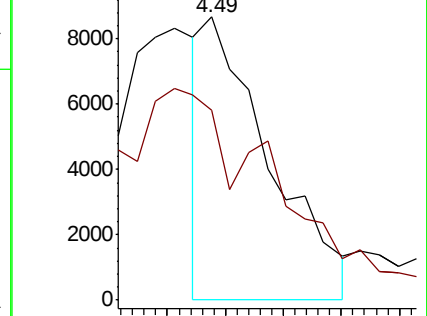
101 100

151 0.0 61.4 92.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 0.047 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL037292.D

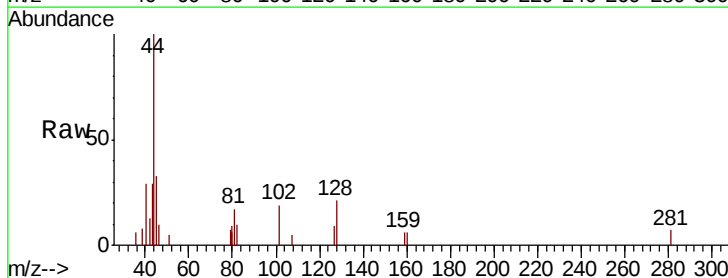
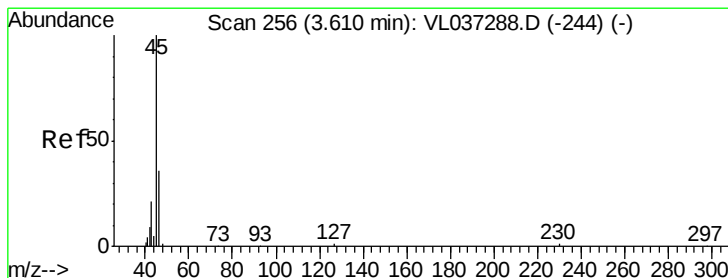
Acq: 30 Jul 2021 19:53

Tgt Ion: 45 Resp: 533

Ion Ratio Lower Upper

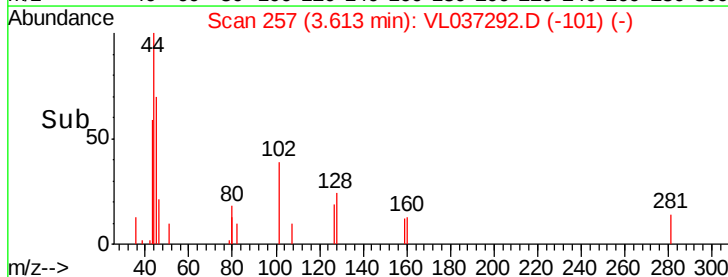
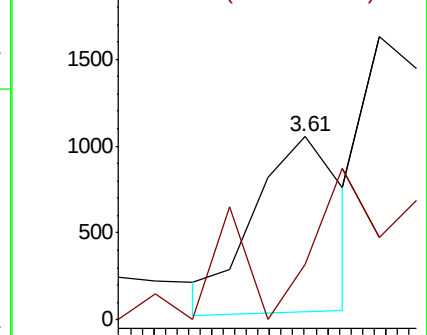
45 100

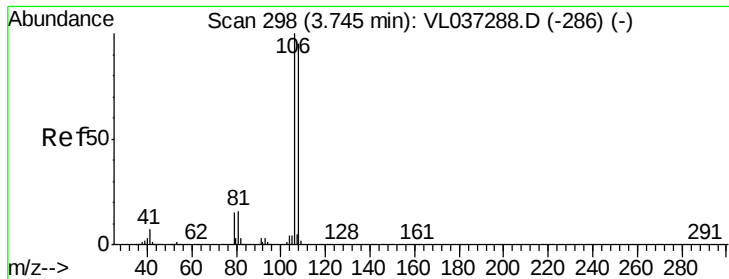
46 0.0 16.2 64.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#14

Bromoethene

Concen: 0.051 ppbv

RT: 3.74 min Scan# 296

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

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MSVOA_L

ClientSampleId :

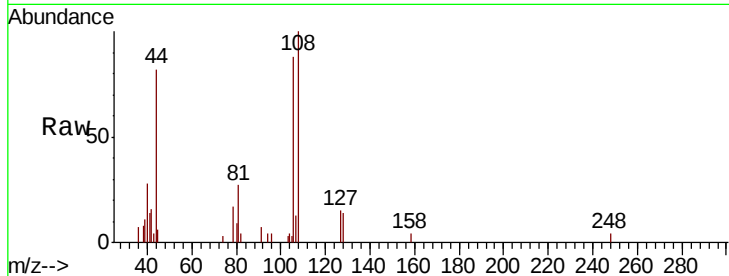
Tot Ion:108 Resp: 3182

Ion Ratio Lower Upper

108 100

106 266.6 86.2 129.2#

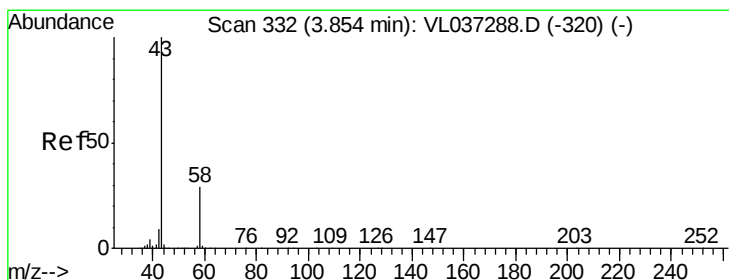
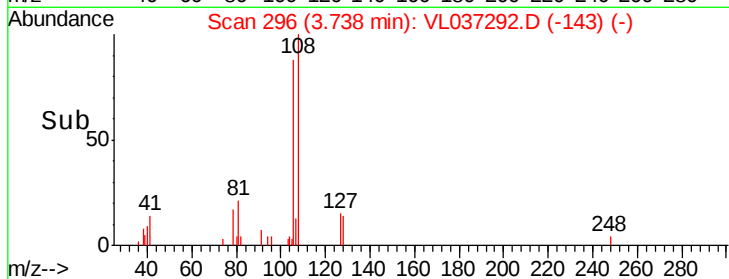
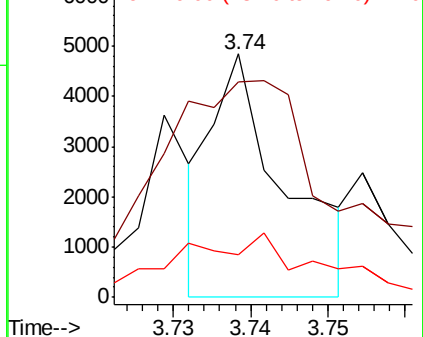
79 64.1 13.3 19.9#



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): V



#15

Acetone

Concen: 0.417 ppbv

RT: 3.87 min Scan# 337

Delta R.T. 0.02 min

Lab File: VL037292.D

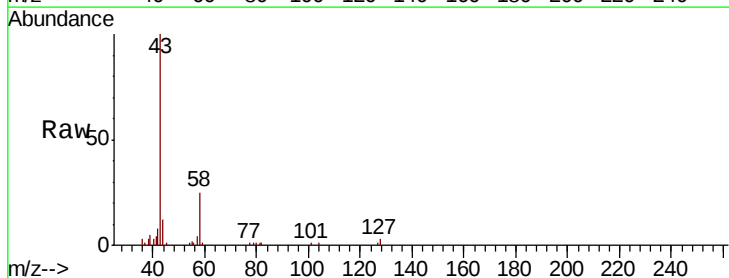
Acq: 30 Jul 2021 19:53

Tgt Ion: 43 Resp: 54192

Ion Ratio Lower Upper

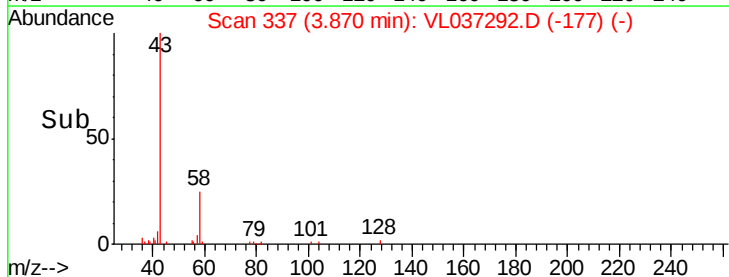
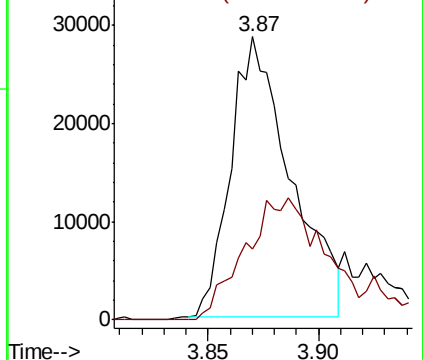
43 100

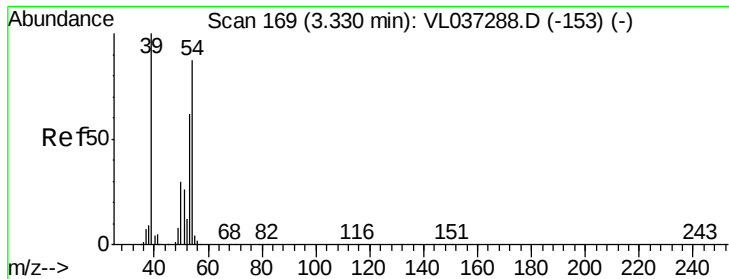
58 68.8 24.2 36.4#



Abundance Ion 43.10 (42.80 to 43.80): V

Ion 58.10 (57.80 to 58.80): V

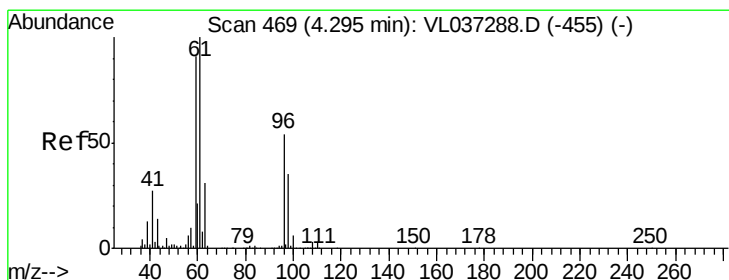
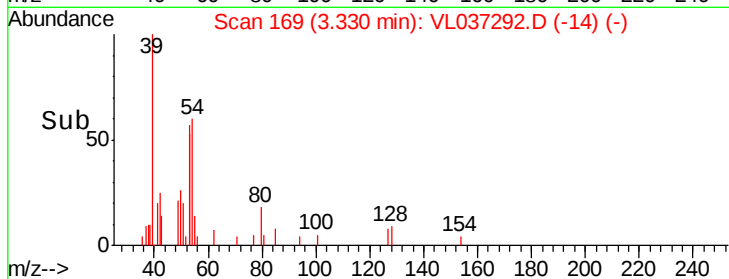
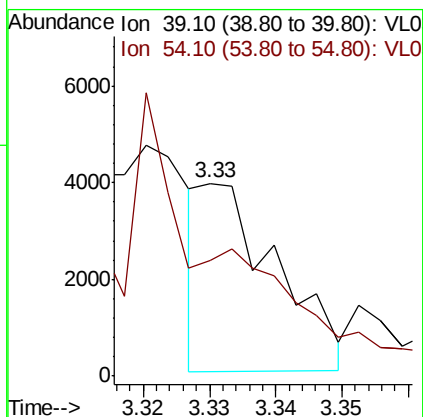
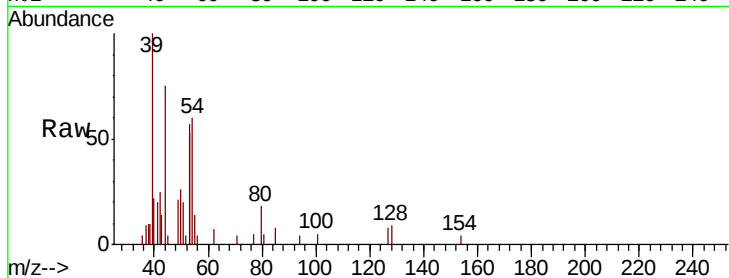




#16
 1,3-Butadiene
 Concen: 0.041 ppbv
 RT: 3.33 min Scan# 169
 Delta R.T. -0.00 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

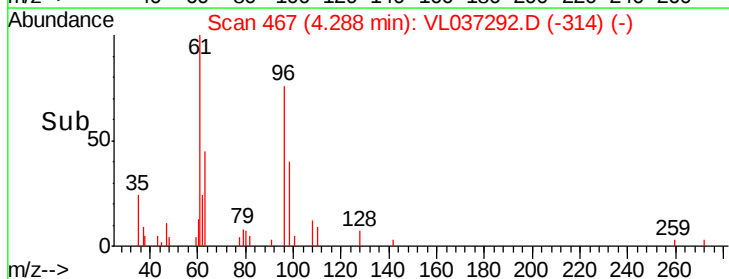
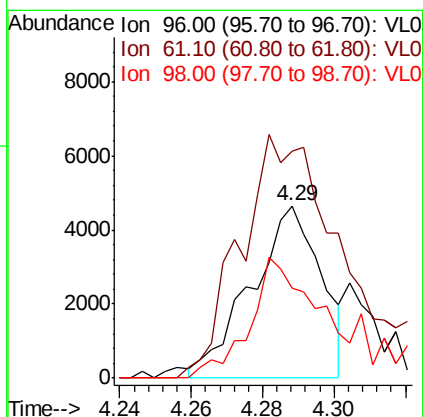
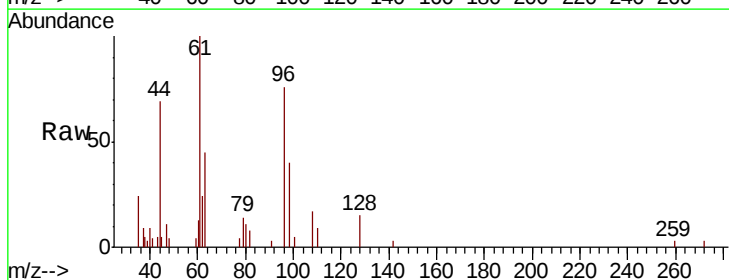
Instrument :
 MSVOA_L
 ClientSampleId :

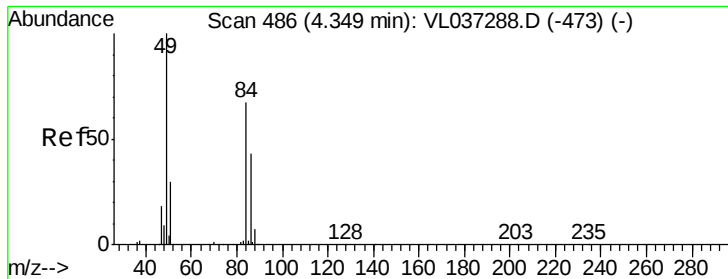
Tot Ion: 39 Resp: 3087
 Ion Ratio Lower Upper
 39 100
 54 0.0 63.9 95.9#



#18
 1,1-Dichloroethene
 Concen: 0.095 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion: 96 Resp: 6300
 Ion Ratio Lower Upper
 96 100
 61 132.6 148.3 222.5#
 98 55.7 51.4 77.0

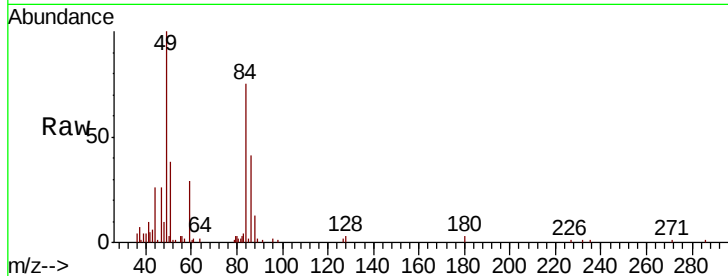




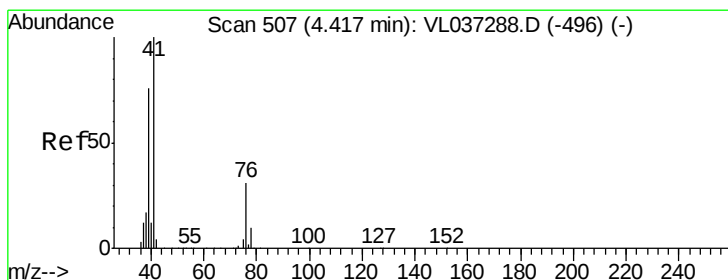
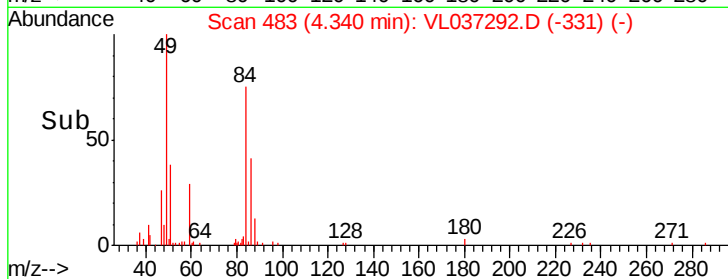
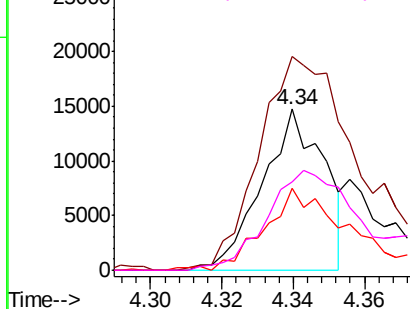
#20
Methylene Chloride
Concen: 0.219 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	84	Resp:	17737
Ion	Ratio	Lower	Upper
84	100		
49	131.5	120.2	180.4
51	48.8	36.5	54.7
86	54.7	51.3	76.9

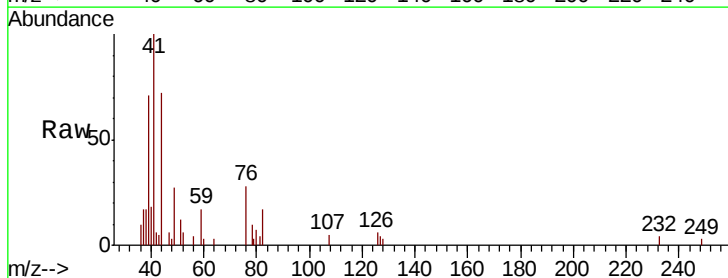


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

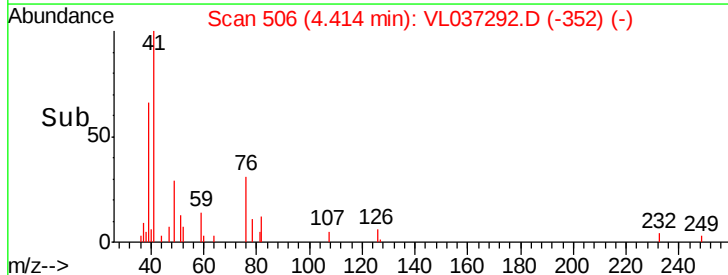
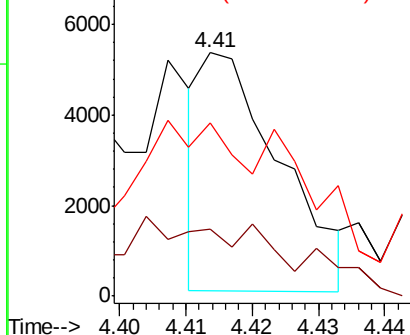


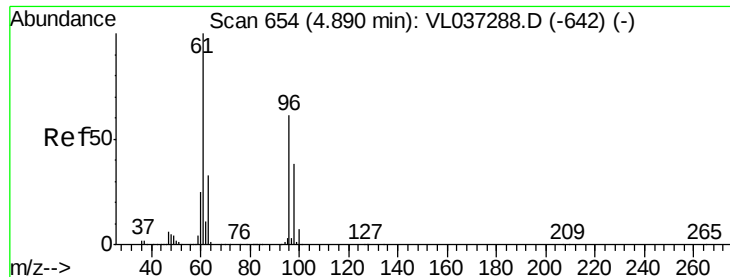
#21
Allyl Chloride
Concen: 0.045 ppbv
RT: 4.41 min Scan# 506
Delta R.T. -0.00 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Tgt Ion:	41	Resp:	4356
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.7	37.1#
39	0.0	64.5	96.7#



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: 0.093 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

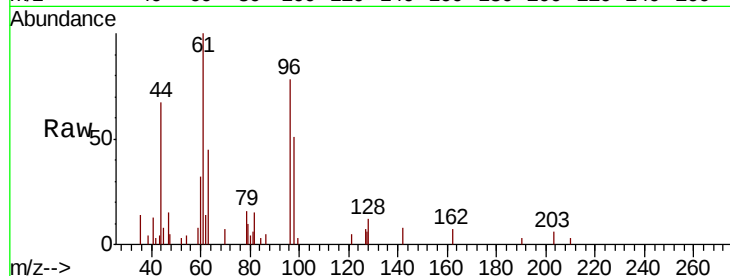
Tot Ion: 96 Resp: 6111

Ion Ratio Lower Upper

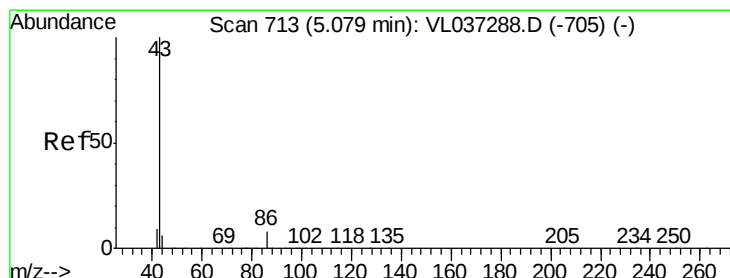
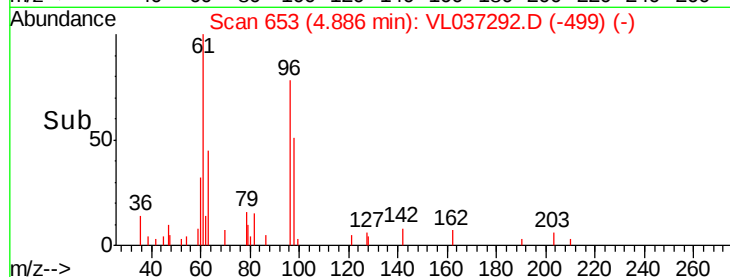
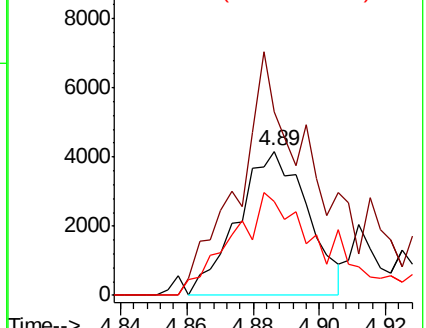
96 100

61 115.8 131.1 196.7#

98 54.1 49.9 74.9



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



#23

Vinyl Acetate

Concen: 0.131 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Tgt Ion: 43 Resp: 23606

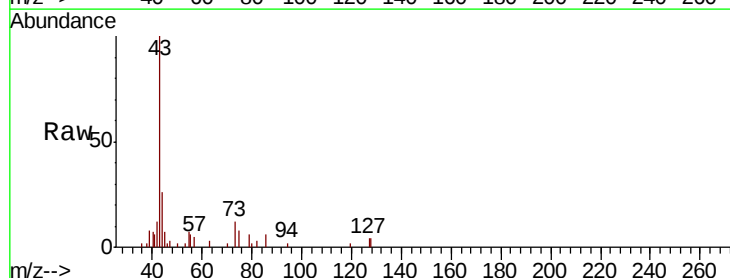
Ion Ratio Lower Upper

43 100

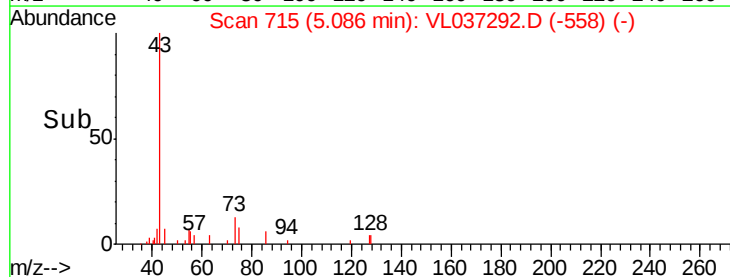
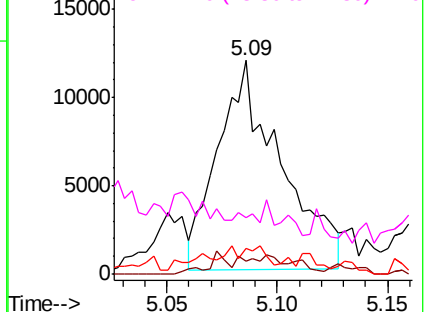
86 4.4 5.7 8.5#

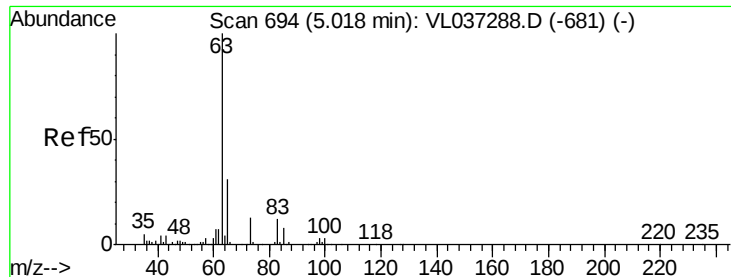
42 9.8 8.1 12.1

44 11.2 4.1 6.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.098 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.01 min

Lab File: VL037292.D

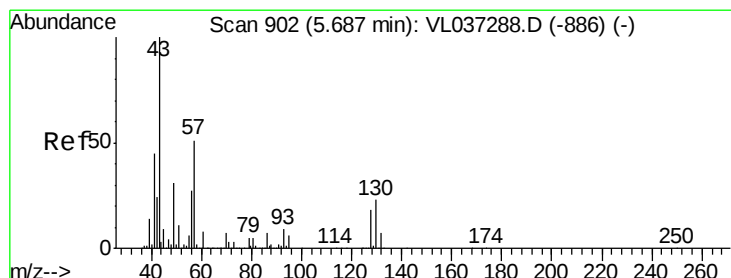
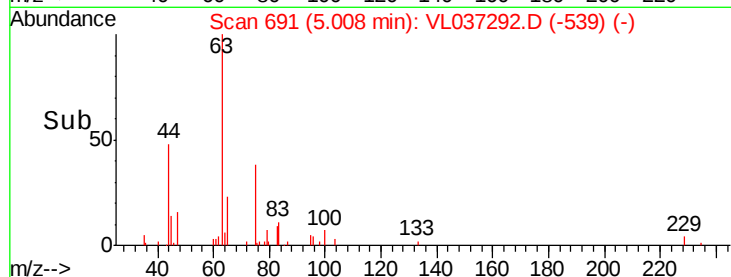
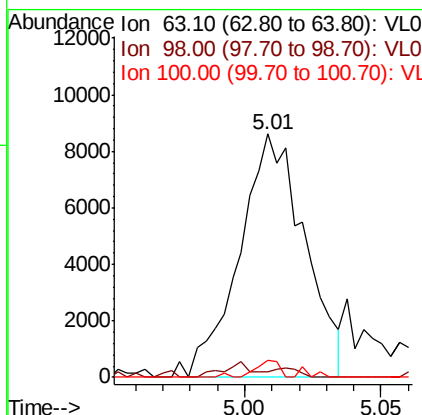
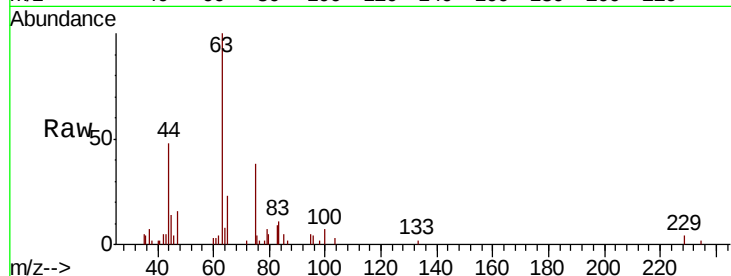
Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	63	Resp:	14260
Ion	Ratio	Lower	Upper
63	100		
98	2.0	2.0	5.8
100	7.0	1.4	4.2#



#25

Ethyl Acetate

Concen: 0.100 ppbv

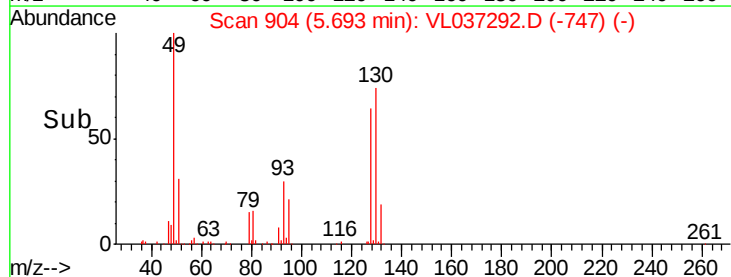
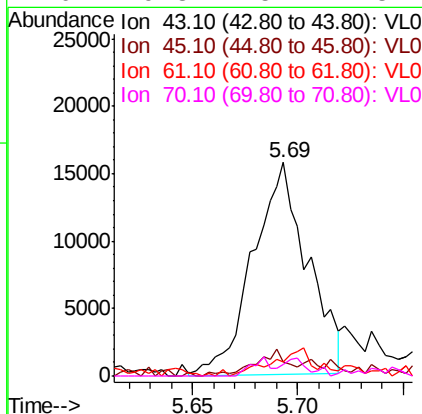
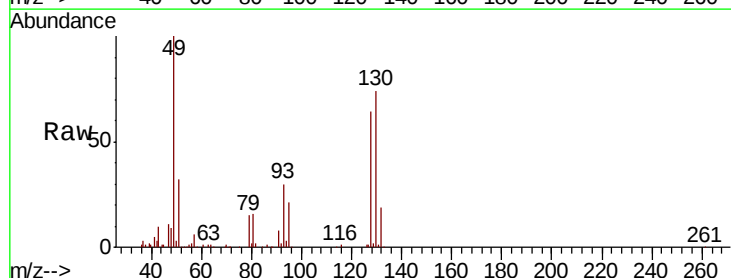
RT: 5.69 min Scan# 904

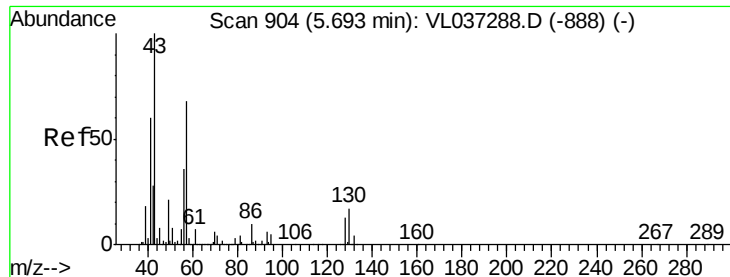
Delta R.T. 0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Tgt Ion:	43	Resp:	28375
Ion	Ratio	Lower	Upper
43	100		
45	13.8	7.4	11.2#
61	0.0	7.8	11.6#
70	9.8	5.4	8.2#





#26

Hexane

Concen: 0.071 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 10341

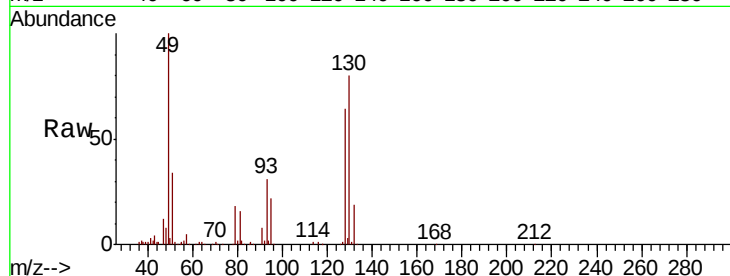
Ion Ratio Lower Upper

57 100

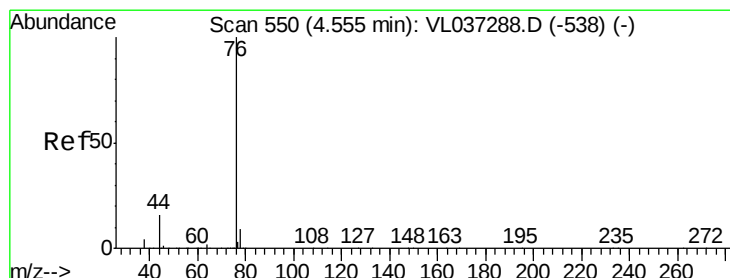
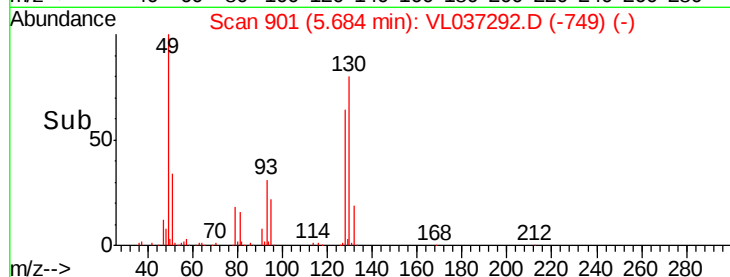
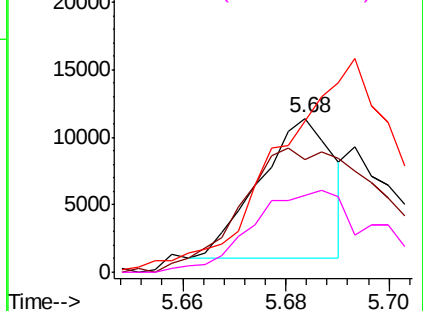
41 211.4 71.0 106.6#

43 347.2 155.0 232.4#

56 114.5 42.0 63.0#



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: 4.55 min Scan# 549

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

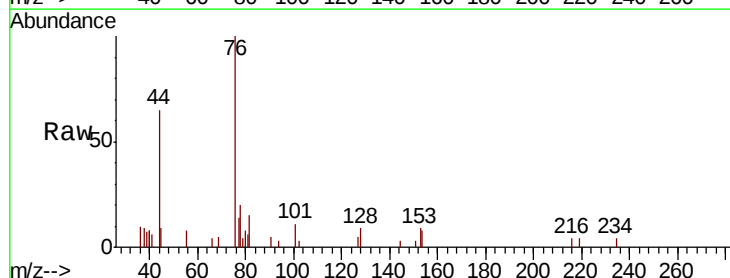
Tgt Ion: 76 Resp: 6886

Ion Ratio Lower Upper

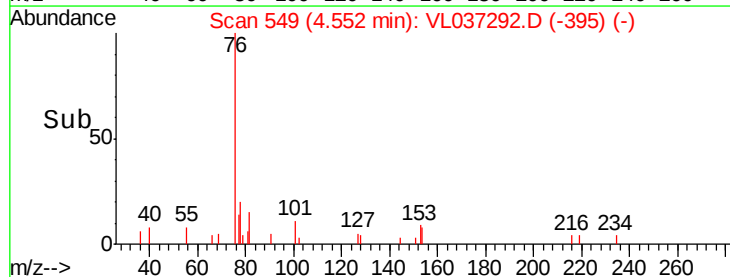
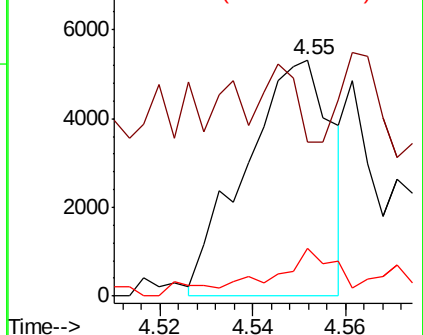
76 100

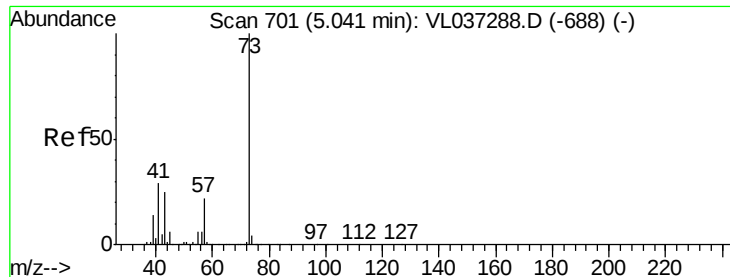
44 32.5 14.1 21.1#

78 17.8 8.0 12.0#



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

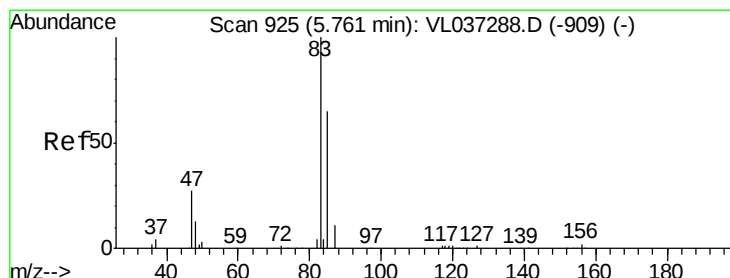
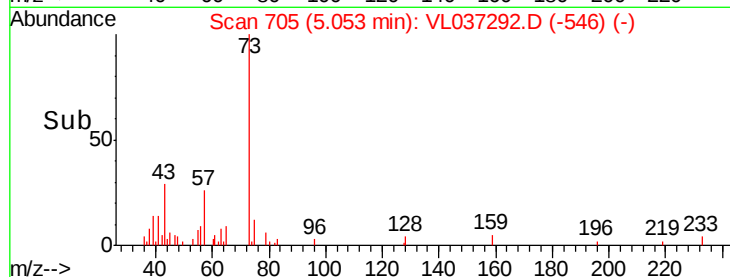
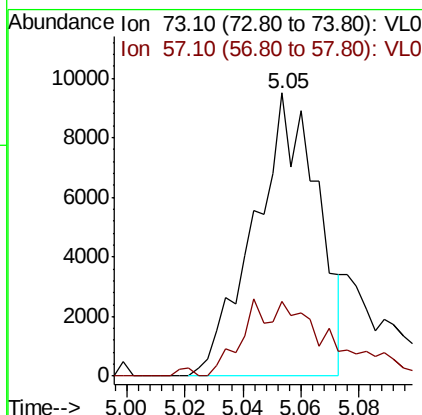
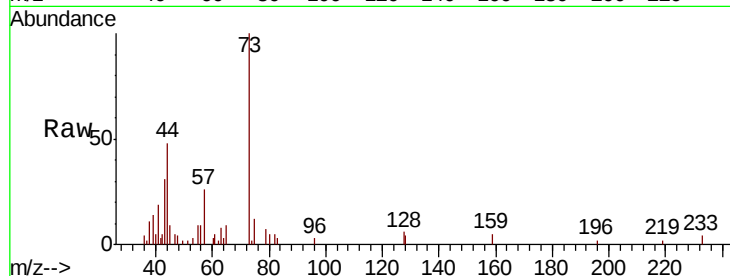




#28
Methvl tert-Butvl Ether
Concen: 0.088 ppbv
RT: 5.05 min Scan# 705
Delta R.T. 0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

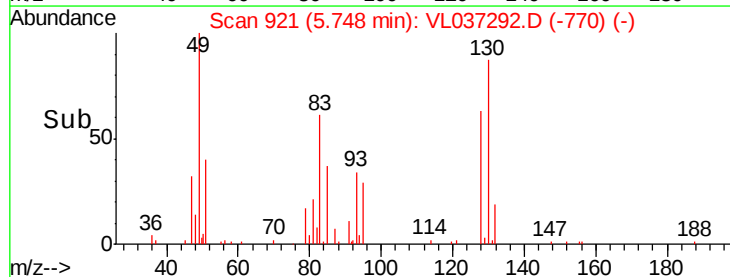
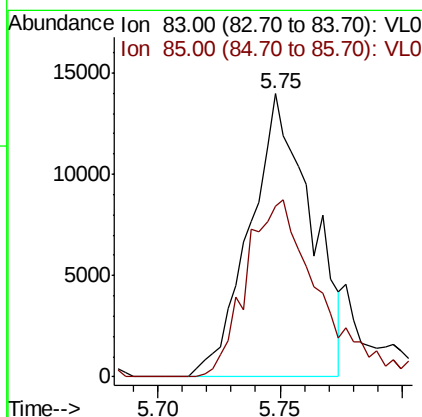
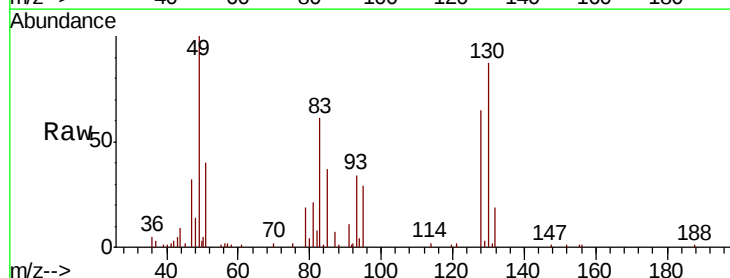
Instrument :
MSVOA_L
ClientSampled :

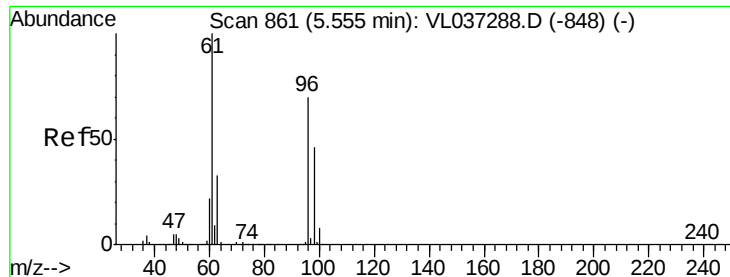
Tot Ion: 73 Resp: 14402
Ion Ratio Lower Upper
73 100
57 36.8 19.0 28.6#



#29
Chloroform
Concen: 0.111 ppbv
RT: 5.75 min Scan# 921
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Tgt Ion: 83 Resp: 24281
Ion Ratio Lower Upper
83 100
85 60.2 51.9 77.9



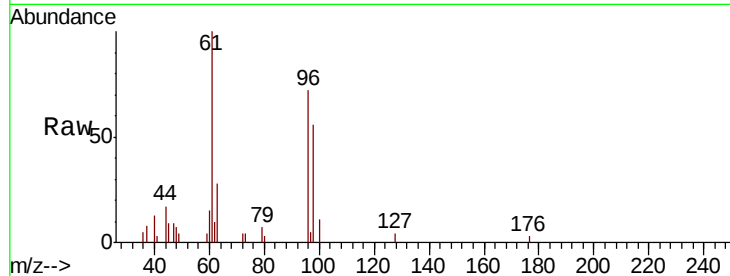


#31

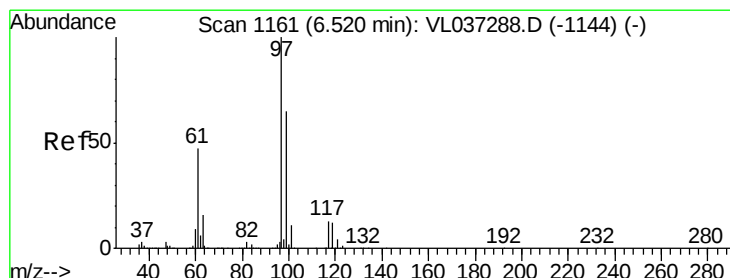
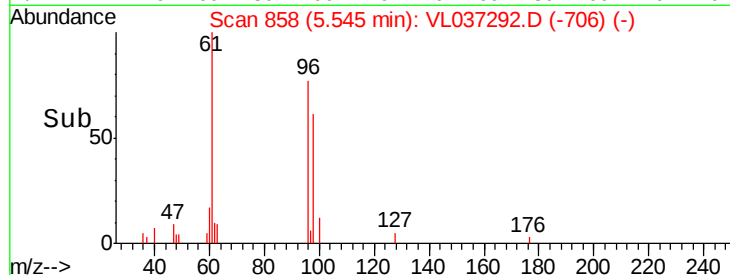
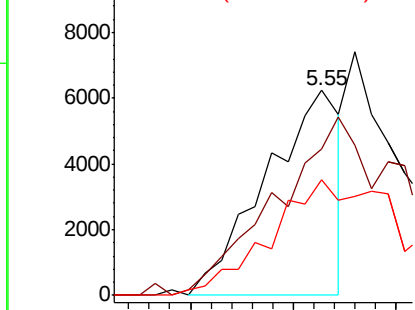
cis-1,2-Dichloroethene
 Concen: 0.048 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion	61	Resp	6283
Ion Ratio	Lower	Upper	
61	100		
96	69.1	55.9	83.9
98	53.6	37.1	55.7



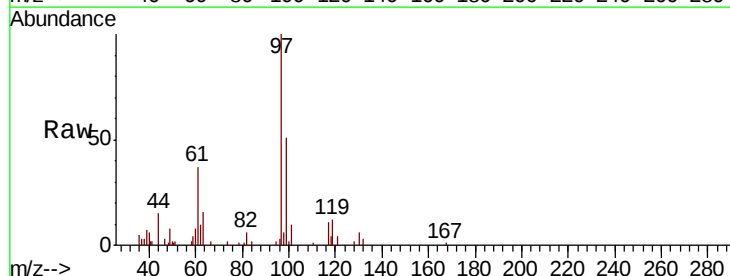
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



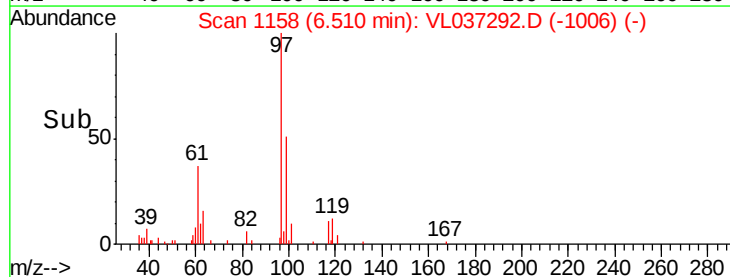
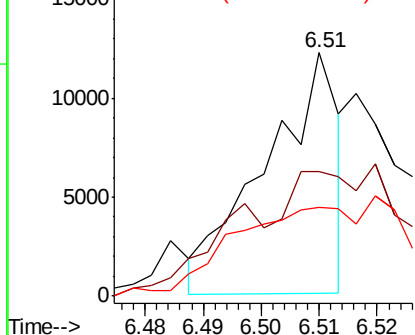
#32

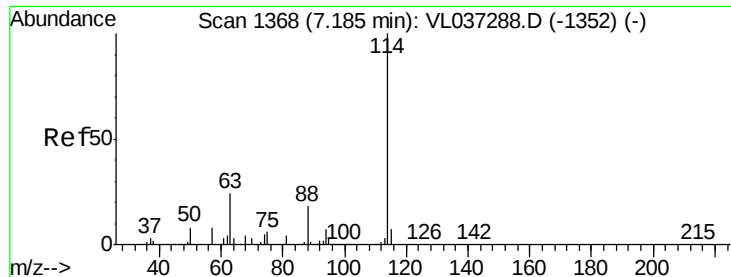
1,1,1-Trichloroethane
 Concen: 0.046 ppbv
 RT: 6.51 min Scan# 1158
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion	97	Resp	10772
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.5	78.7#
61	0.0	38.2	57.4#



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

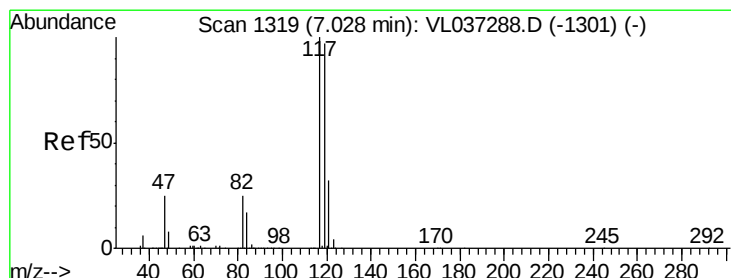
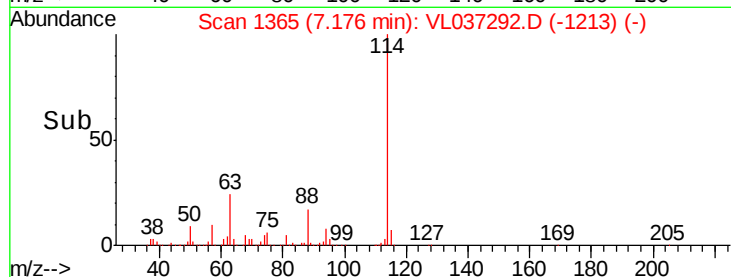
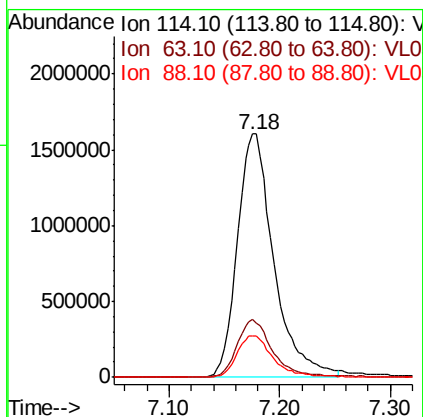
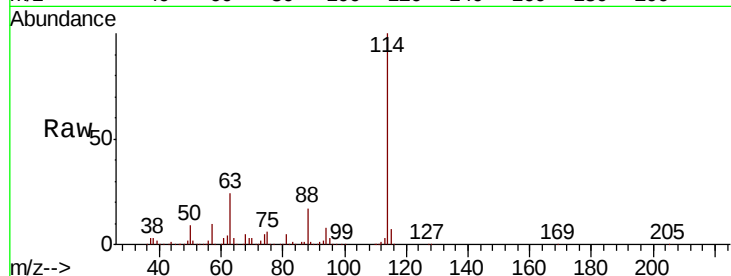




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

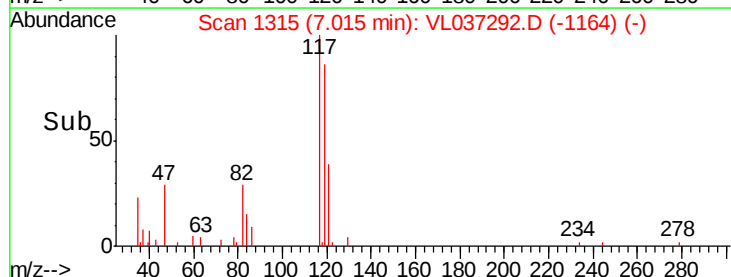
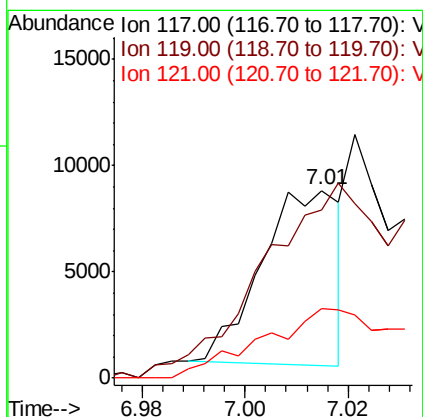
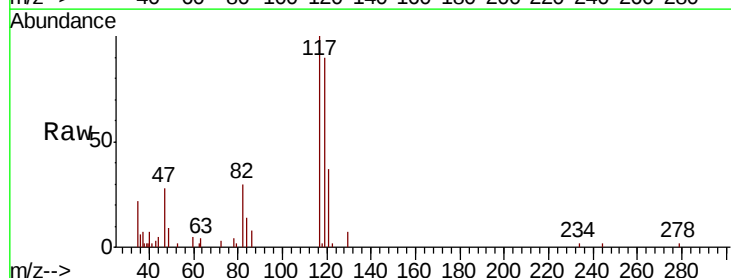
Instrument :
 MSVOA_L
 ClientSampleId :

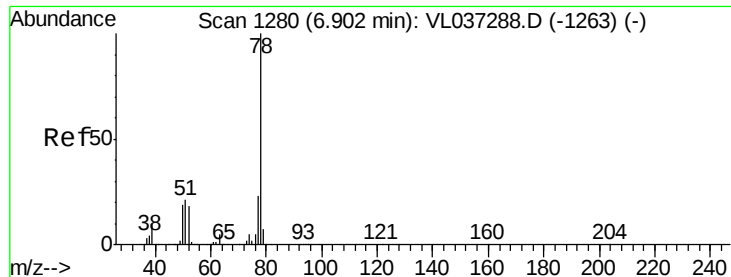
Tot Ion:114 Resp: 3678862
 Ion Ratio Lower Upper
 114 100
 63 23.6 19.0 28.4
 88 17.3 14.0 21.0



#35
 Carbon Tetrachloride
 Concen: 0.035 ppbv
 RT: 7.01 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion:117 Resp: 8646
 Ion Ratio Lower Upper
 117 100
 119 85.4 77.4 116.2
 121 35.4 25.8 38.8





#36

Benzene

Concen: 0.100 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

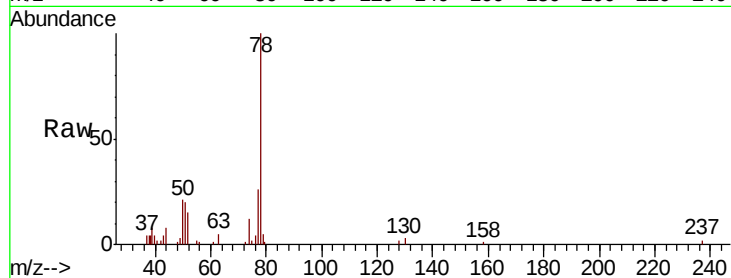
Tot Ion: 78 Resp: 29955

Ion Ratio Lower Upper

78 100

77 25.9 18.3 27.5

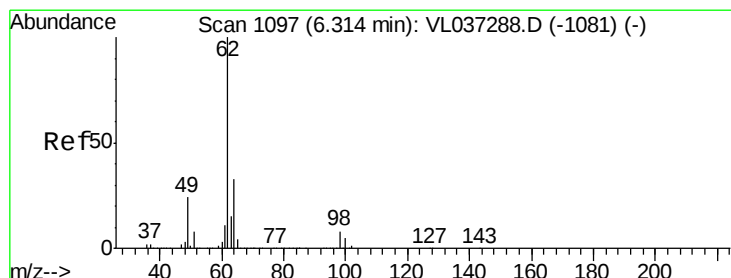
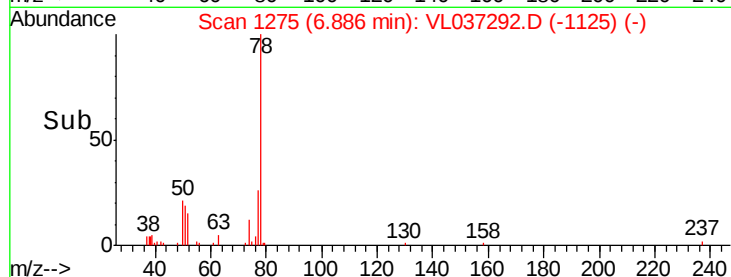
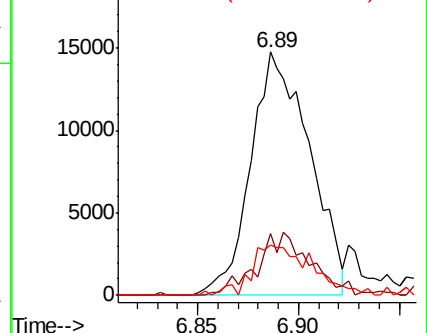
50 21.1 15.5 23.3



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: 0.071 ppbv

RT: 6.31 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VL037292.D

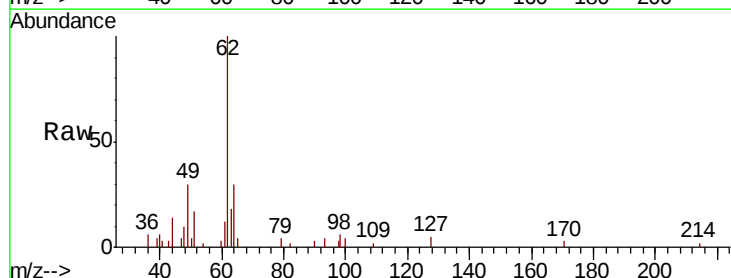
Acq: 30 Jul 2021 19:53

Tgt Ion: 62 Resp: 12184

Ion Ratio Lower Upper

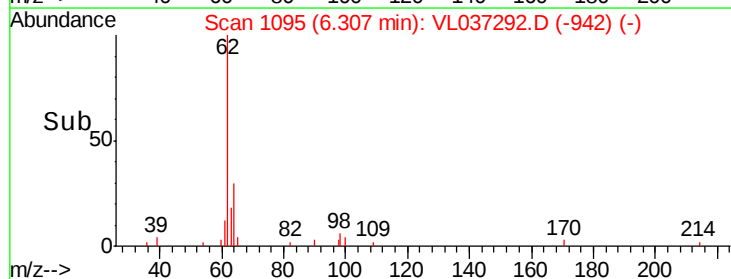
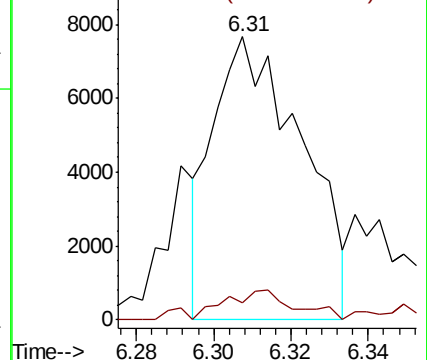
62 100

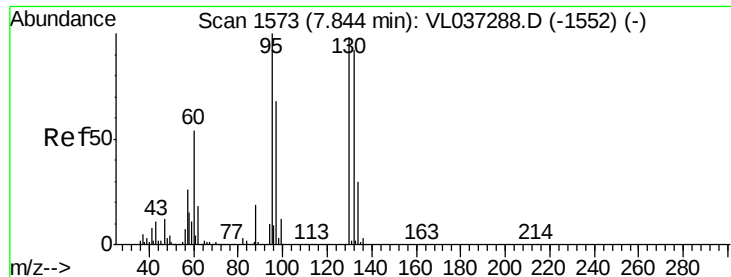
98 11.4 5.8 8.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.093 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 13212

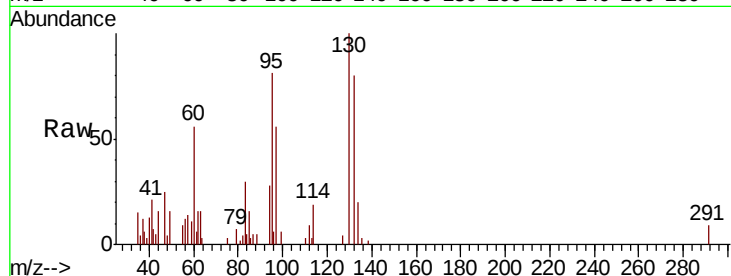
Ion Ratio Lower Upper

130 100

95 57.1 82.0 123.0#

132 60.9 75.0 112.6#

97 40.7 56.0 84.0#

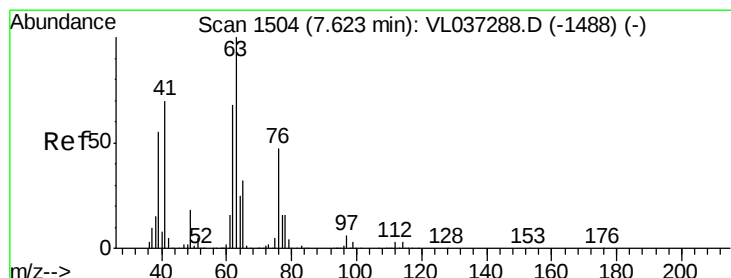
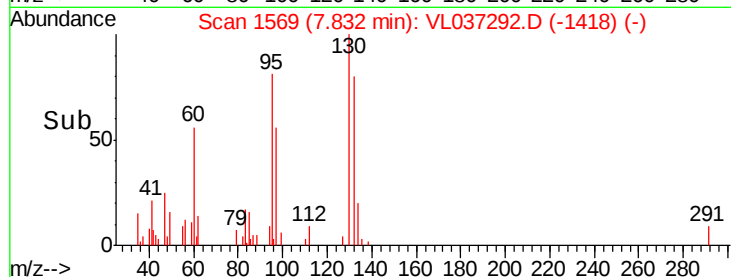
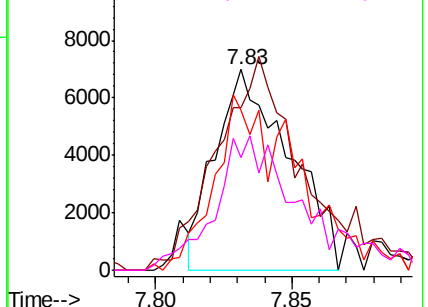


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.524 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

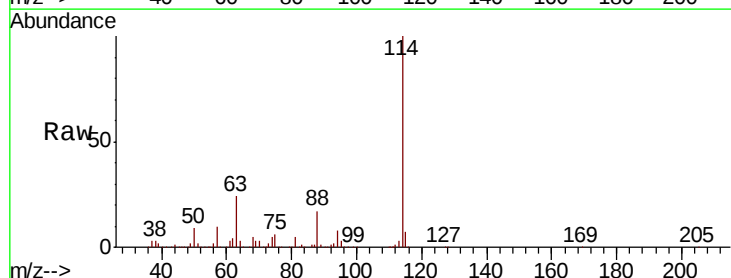
Tgt Ion: 63 Resp: 831023

Ion Ratio Lower Upper

63 100

41 0.0 56.4 84.6#

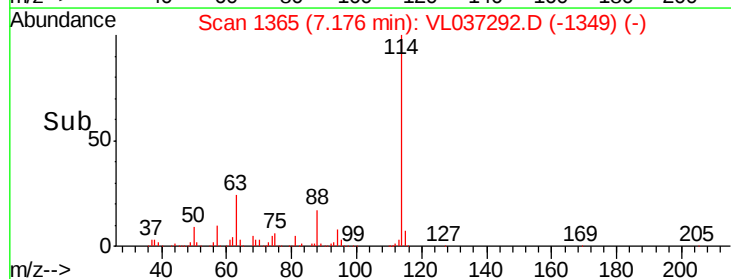
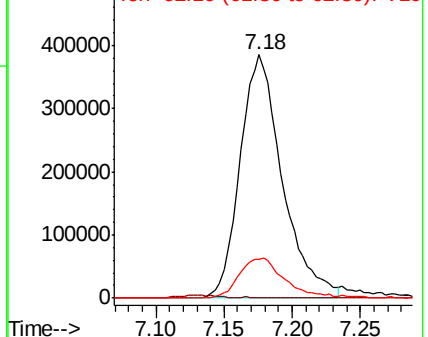
62 15.7 54.6 82.0#

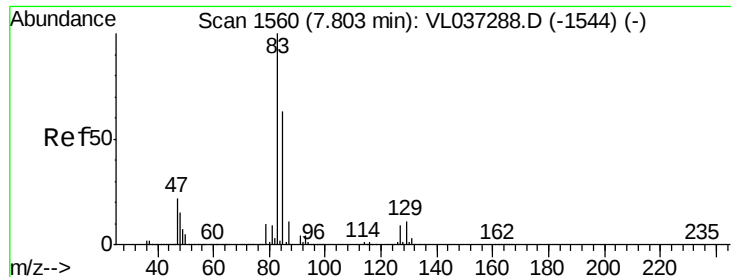


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.069 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

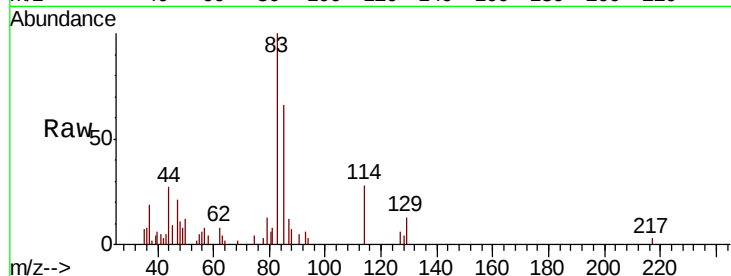
Tot Ion: 83 Resp: 16310

Ion Ratio Lower Upper

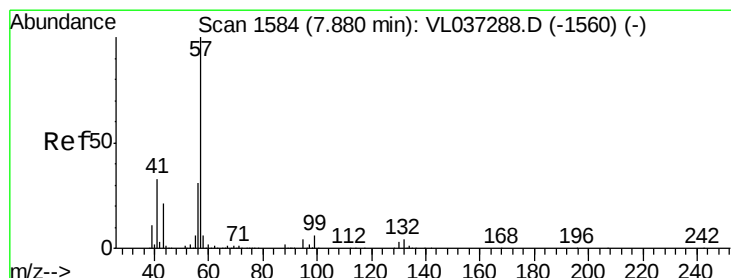
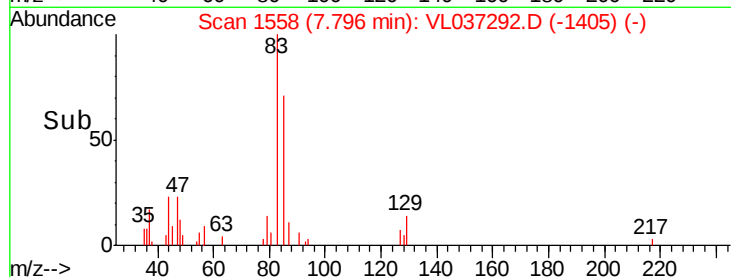
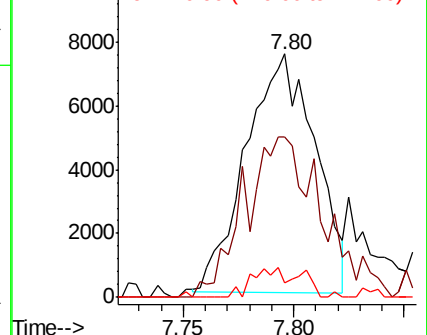
83 100

85 68.0 50.5 75.7

127 6.3 7.0 10.6#



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): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

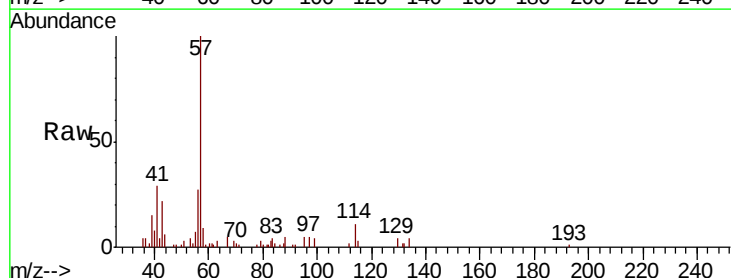
Tgt Ion: 57 Resp: 34687

Ion Ratio Lower Upper

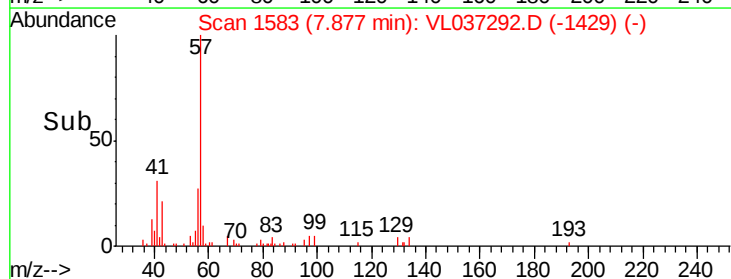
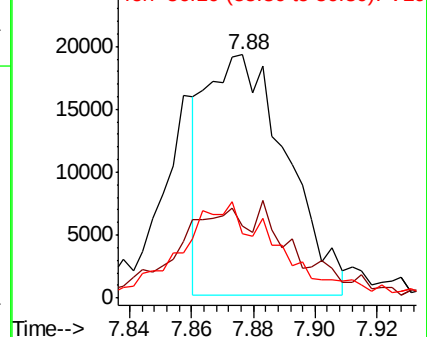
57 100

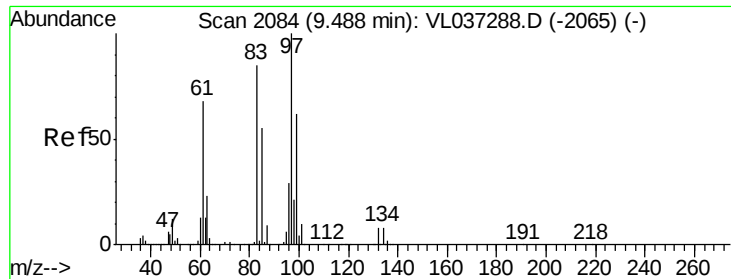
41 56.4 26.6 40.0#

56 55.6 25.3 37.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#47

1,1,2-Trichloroethane

Concen: 0.044 ppbv

RT: 9.47 min Scan# 2080

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 97 Resp: 5561

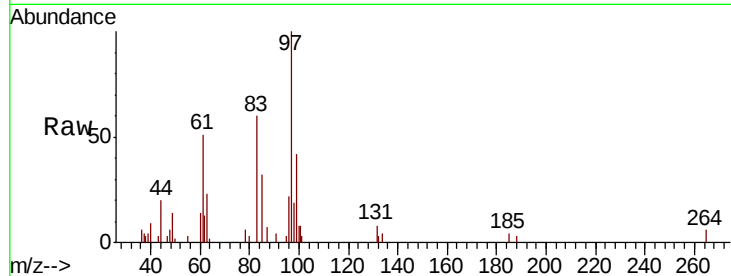
Ion Ratio Lower Upper

97 100

83 60.4 67.7 101.5#

85 29.2 43.8 65.6#

99 42.1 49.9 74.9#

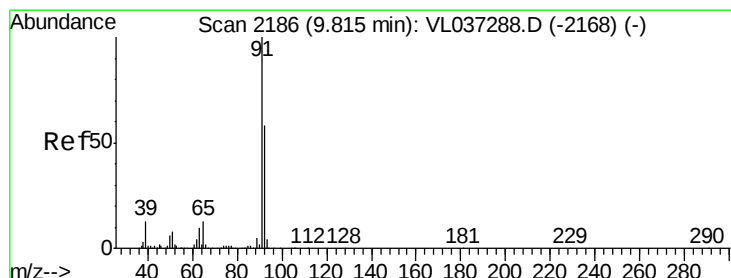
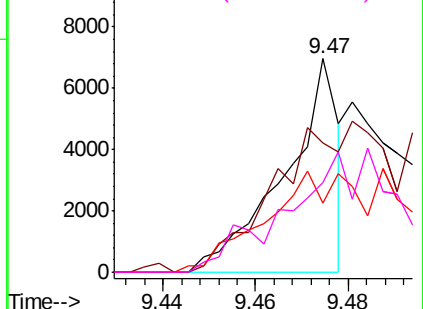
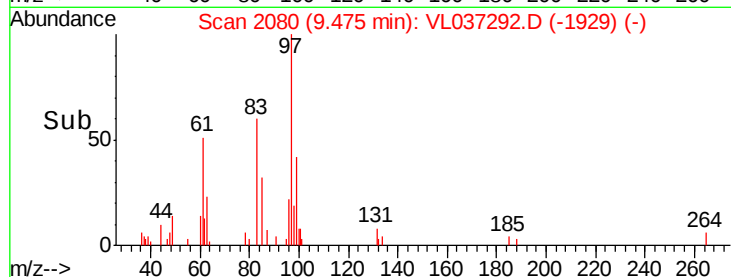


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#53

Toluene

Concen: 0.087 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL037292.D

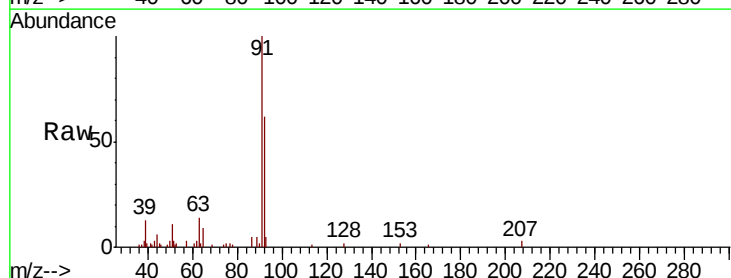
Acq: 30 Jul 2021 19:53

Tgt Ion: 91 Resp: 30915

Ion Ratio Lower Upper

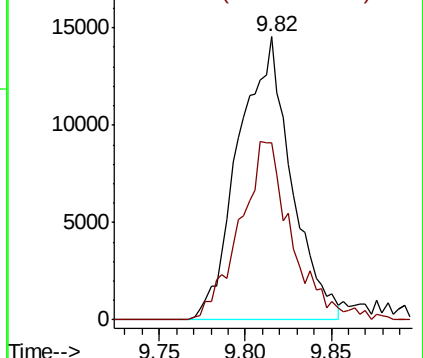
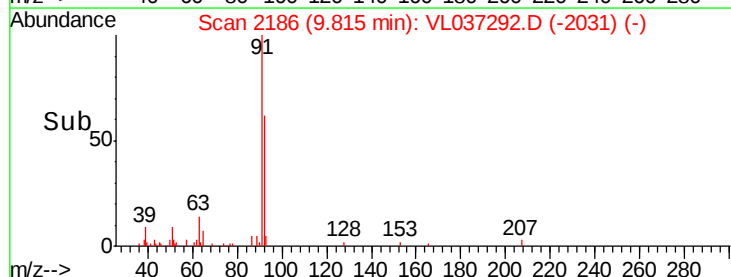
91 100

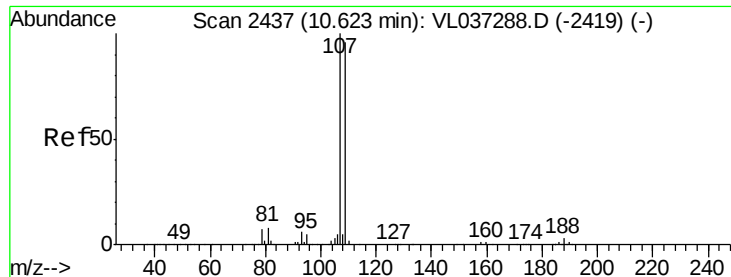
92 62.6 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.037 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

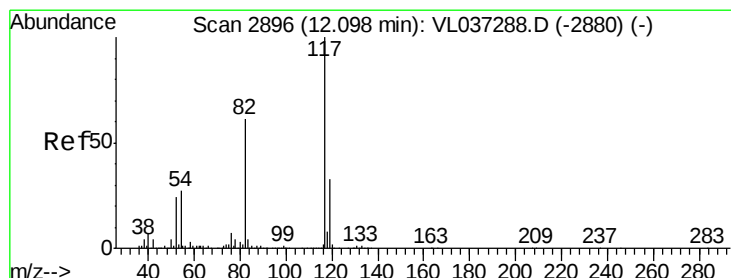
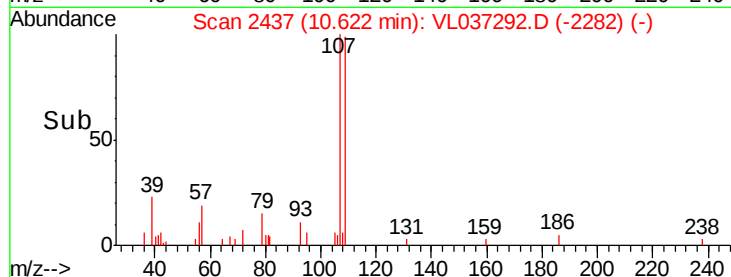
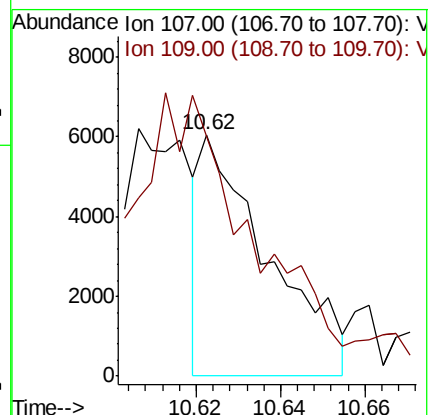
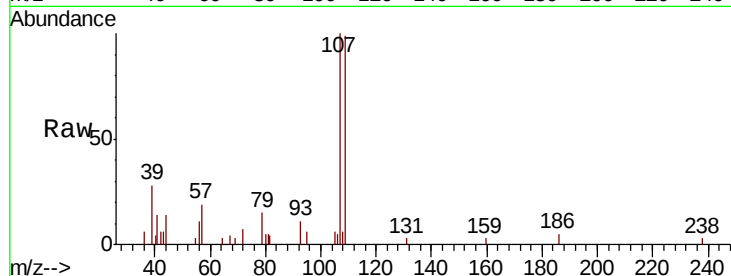
ClientSampleId :

Tot Ion:107 Resp: 6739

Ion Ratio Lower Upper

107 100

109 98.1 77.0 115.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

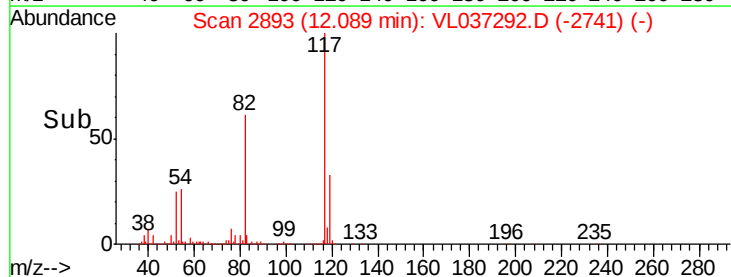
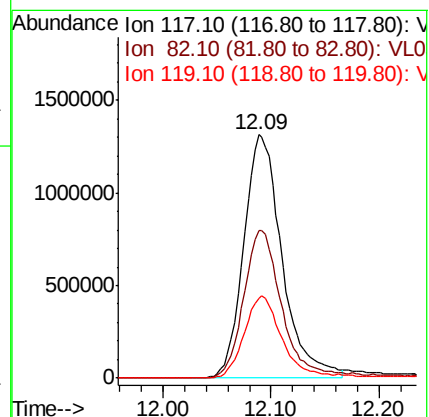
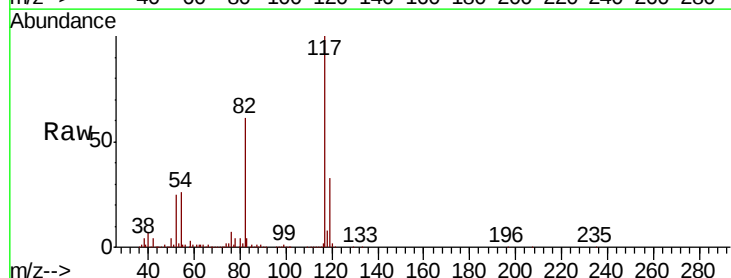
Tgt Ion:117 Resp: 3250332

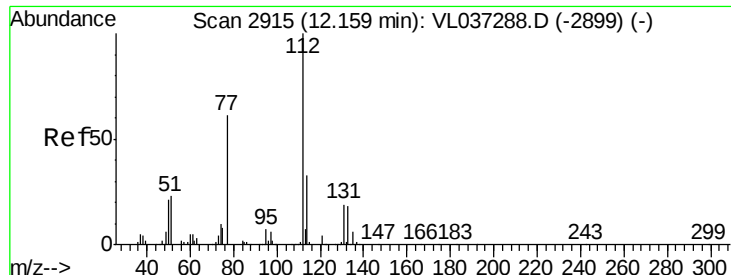
Ion Ratio Lower Upper

117 100

82 63.2 47.2 70.8

119 34.5 45.8 68.8#

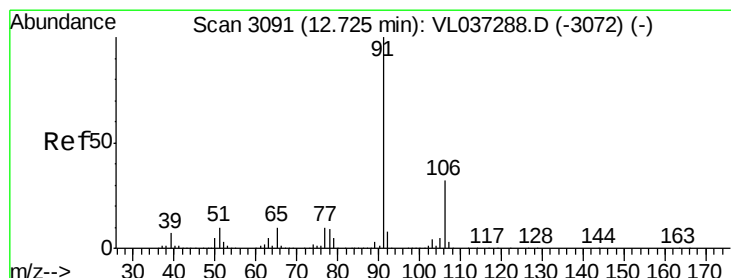
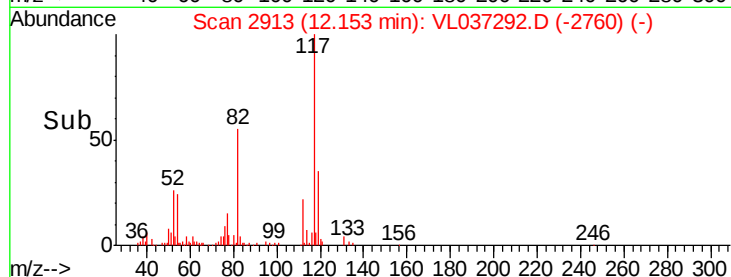
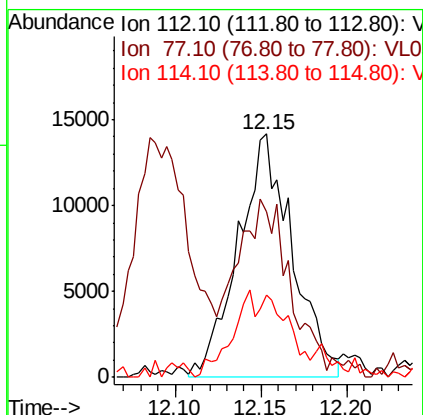
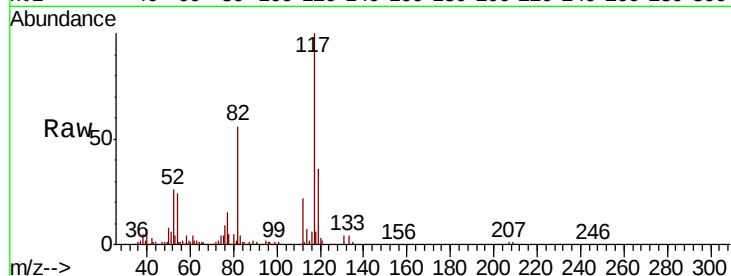




#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

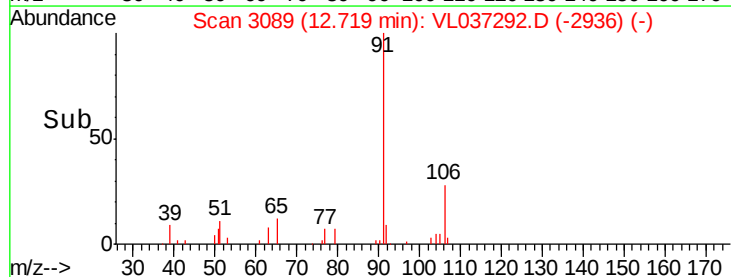
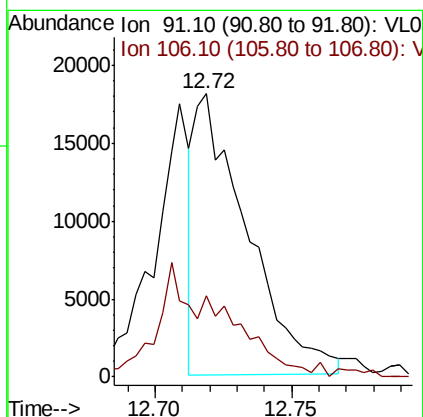
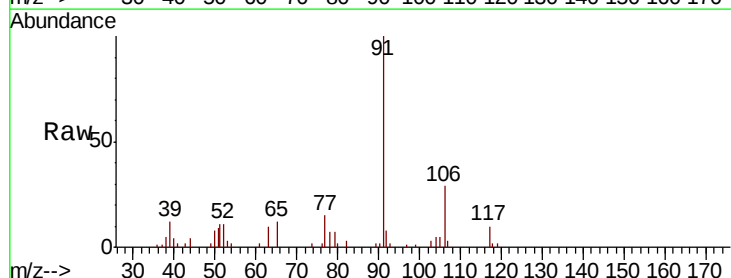
Instrument :
MSVOA_L
ClientSampled :

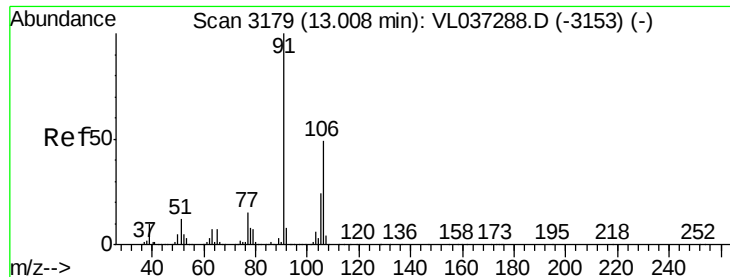
Tot Ion: 112 Resp: 30890
Ion Ratio Lower Upper
112 100
77 59.8 49.0 73.6
114 29.1 29.3 35.9#



#58
Ethyl Benzene
Concen: 0.054 ppbv
RT: 12.72 min Scan# 3089
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Tgt Ion: 91 Resp: 24067
Ion Ratio Lower Upper
91 100
106 27.8 25.4 38.0

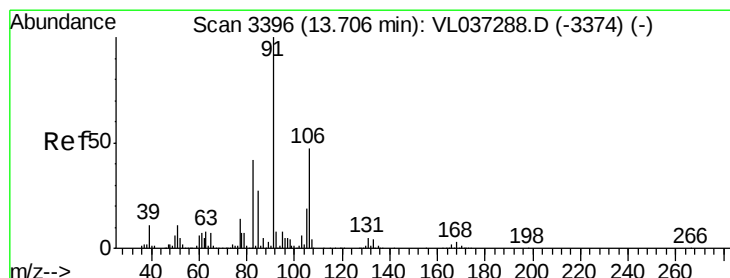
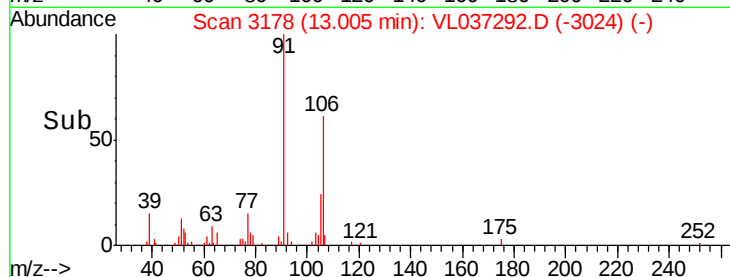
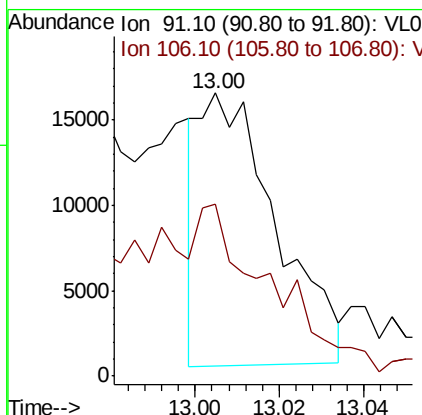
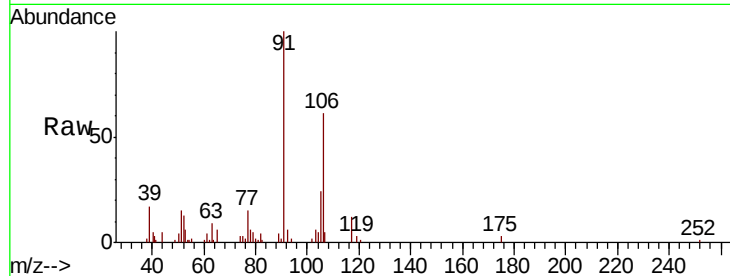




#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. -0.00 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

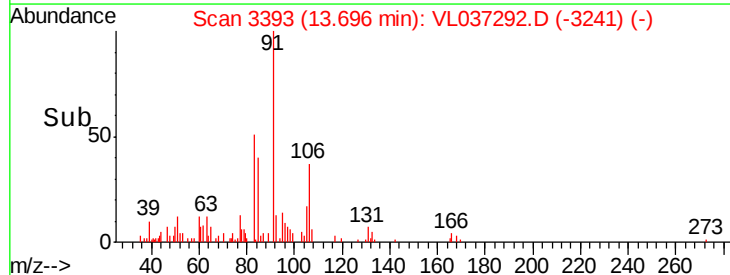
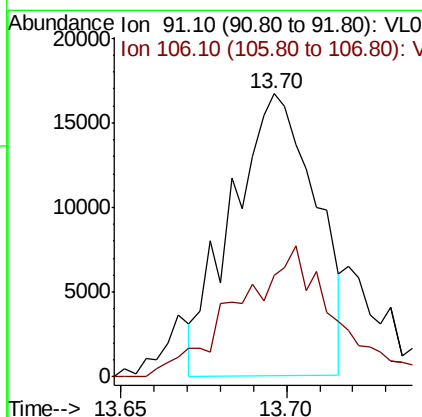
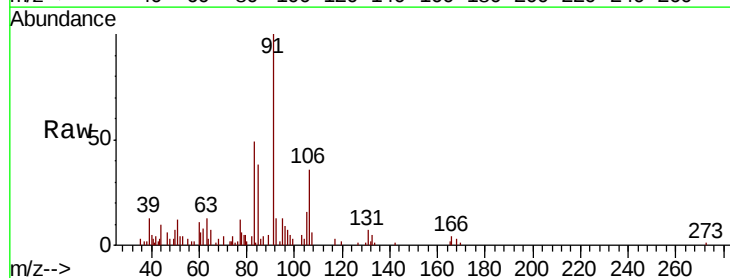
Instrument :
MSVOA_L
ClientSampleId :

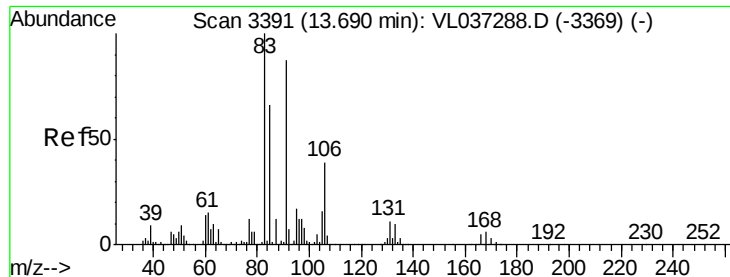
Tot Ion: 91 Resp: 20104
Ion Ratio Lower Upper
91 100
106 165.6 37.3 55.9#



#60
o-Xylene
Concen: 0.081 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037292.D
Acq: 30 Jul 2021 19:53

Tgt Ion: 91 Resp: 29203
Ion Ratio Lower Upper
91 100
106 52.8 23.4 70.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.041 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

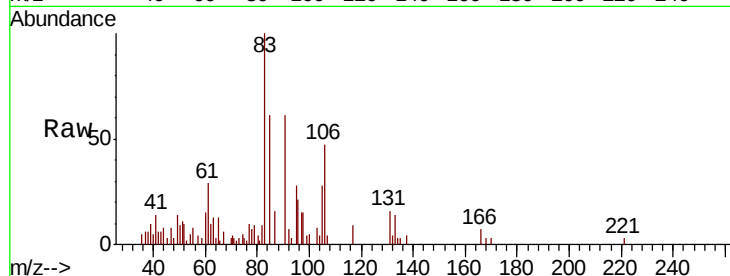
Tot Ion: 83 Resp: 10007

Ion Ratio Lower Upper

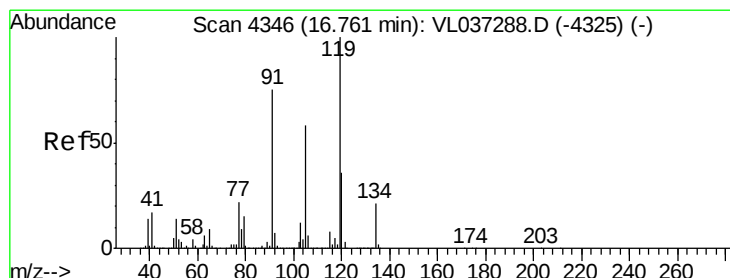
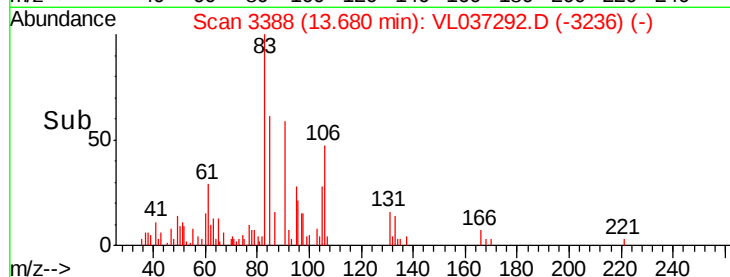
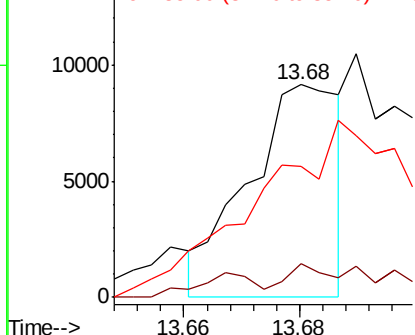
83 100

131 0.0 5.5 16.5#

85 0.0 33.6 100.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



#65

tert-Butylbenzene

Concen: 0.049 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

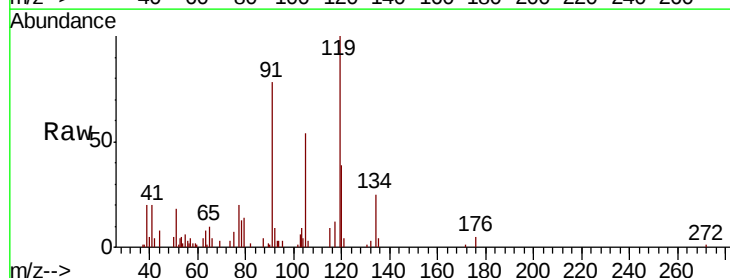
Tgt Ion: 119 Resp: 22637

Ion Ratio Lower Upper

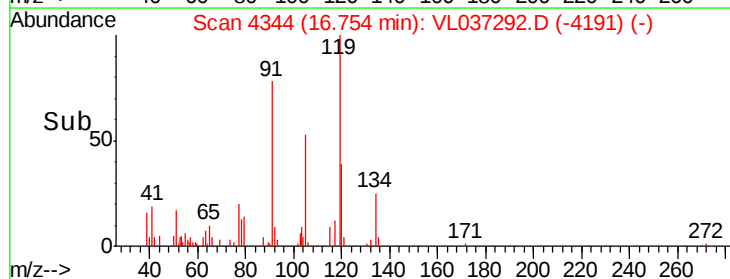
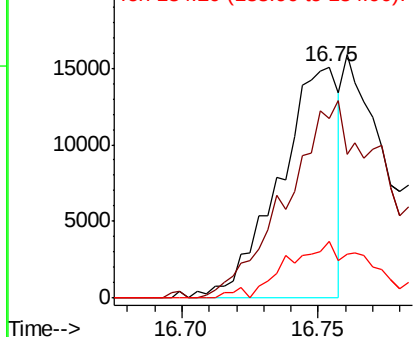
119 100

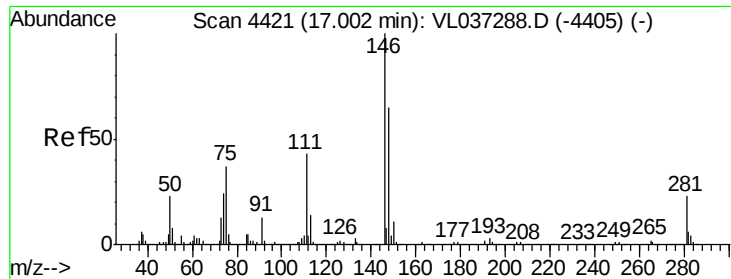
91 0.0 60.5 90.7#

134 41.0 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





#66

Benzyl Chloride

Concen: 0.045 ppbv

RT: 16.99 min Scan# 4418

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampleId :

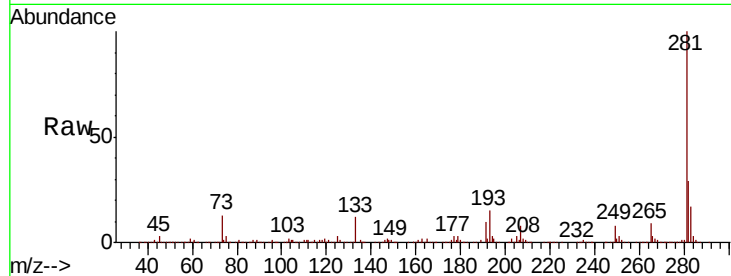
Tot Ion: 91 Resp: 942

Ion Ratio Lower Upper

91 100

126 0.0 15.4 23.0#

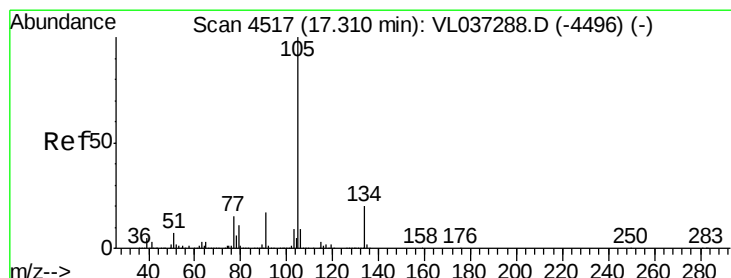
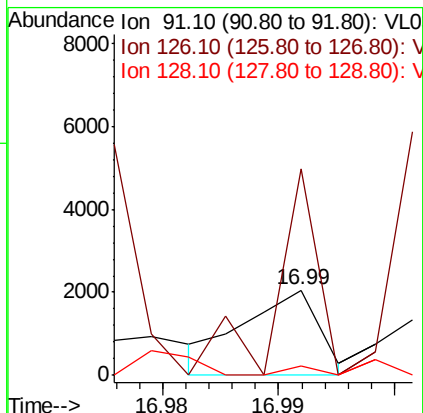
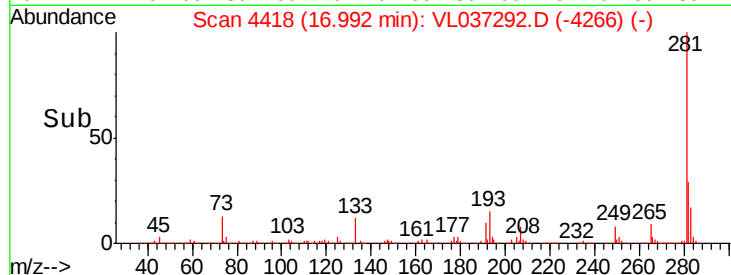
128 0.0 5.0 7.4#



Abundance Ion 91.10 (90.80 to 91.80): VL037288.D (-4405) (-)

Ion 126.10 (125.80 to 126.80): VL037288.D (-4405) (-)

Ion 128.10 (127.80 to 128.80): VL037288.D (-4405) (-)



#67

sec-Butylbenzene

Concen: 0.062 ppbv

RT: 17.31 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL037292.D

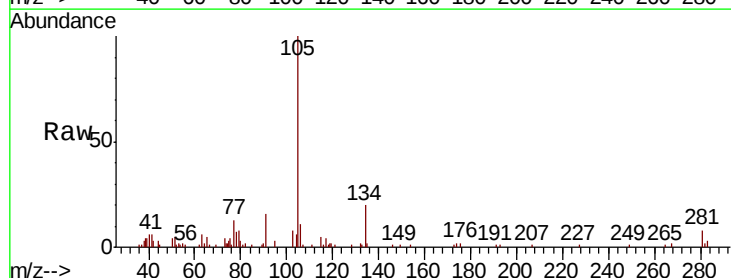
Acq: 30 Jul 2021 19:53

Tgt Ion: 105 Resp: 38173

Ion Ratio Lower Upper

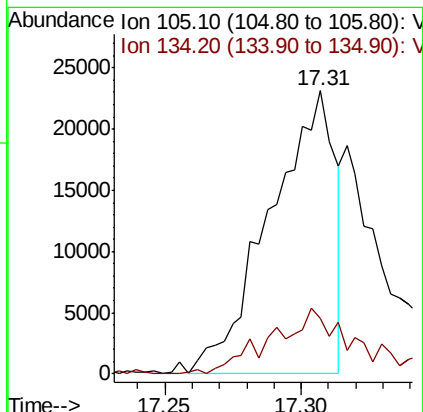
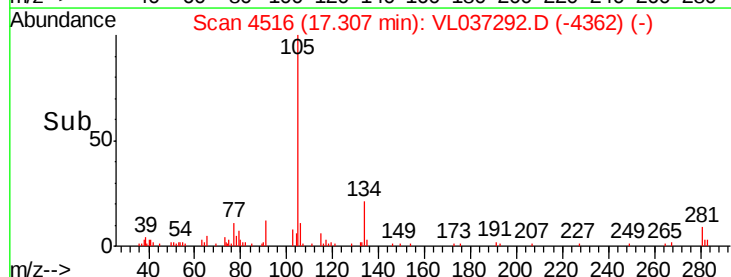
105 100

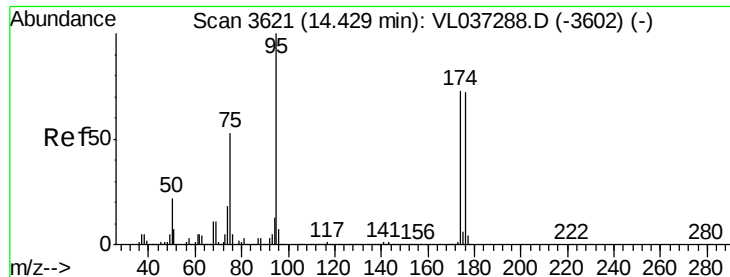
134 33.0 15.8 23.6#



Abundance Ion 105.10 (104.80 to 105.80): VL037288.D (-4496) (-)

Ion 134.20 (133.90 to 134.90): VL037288.D (-4496) (-)

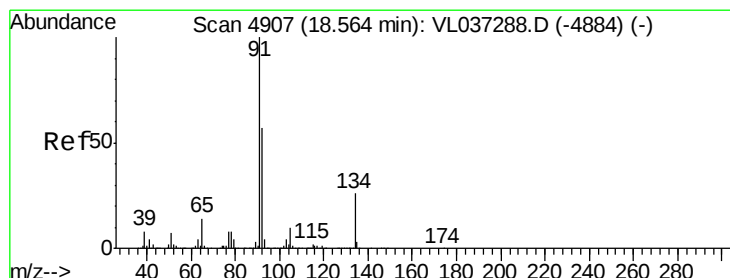
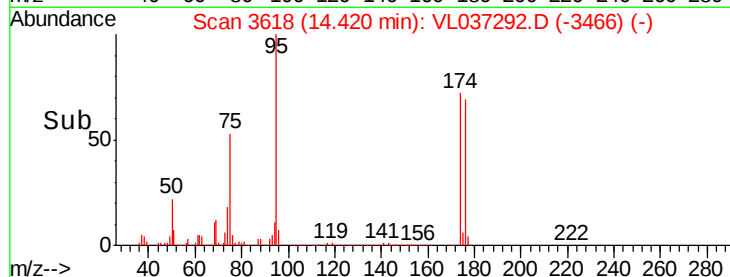
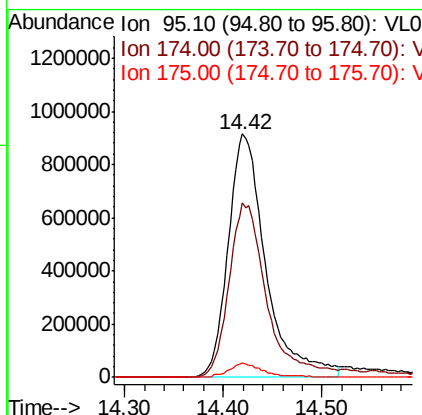
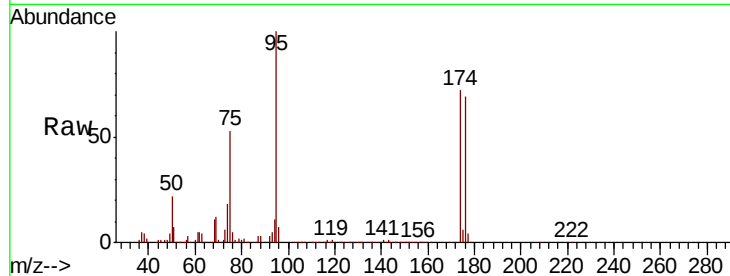




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.008 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

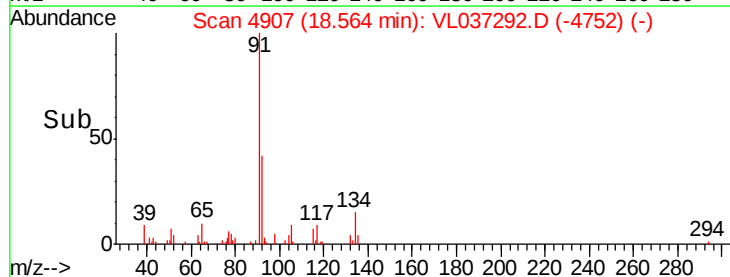
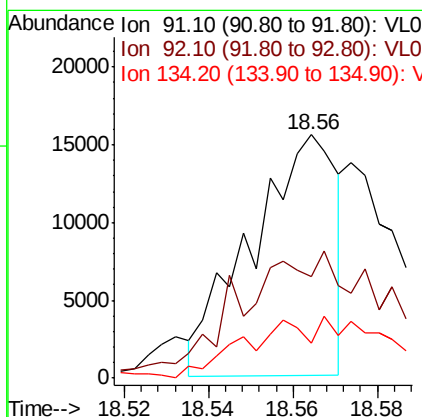
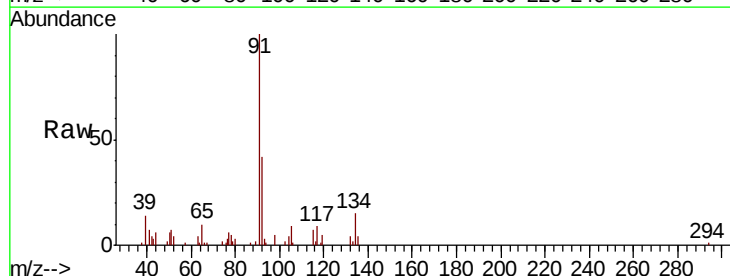
Instrument :
 MSVOA_L
 ClientSampleId :

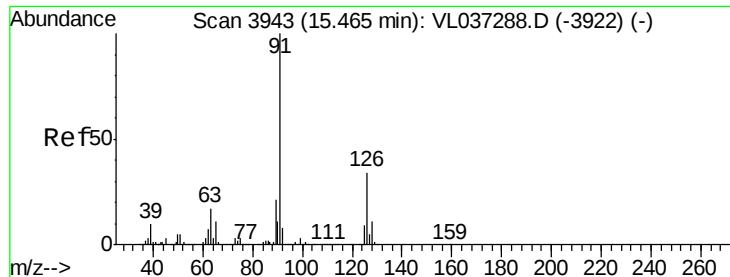
Tot Ion: 95 Resp: 2439374
 Ion Ratio Lower Upper
 95 100
 174 76.8 59.8 89.6
 175 5.6 4.5 6.7



#70
 n-Butylbenzene
 Concen: 0.046 ppbv
 RT: 18.56 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion: 91 Resp: 21811
 Ion Ratio Lower Upper
 91 100
 92 107.2 43.6 65.4#
 134 48.4 20.3 30.5#





#71

2-Chlorotoluene

Concen: 0.049 ppbv

RT: 15.46 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

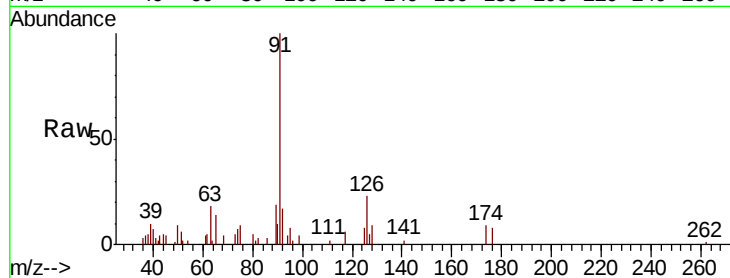
ClientSampleId :

Tot Ion: 91 Resp: 17721

Ion Ratio Lower Upper

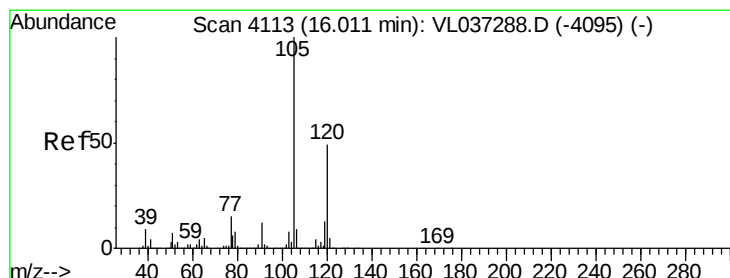
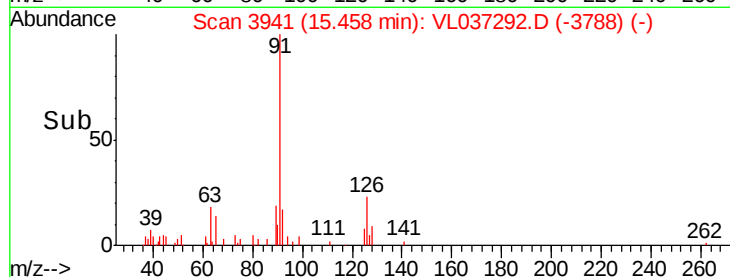
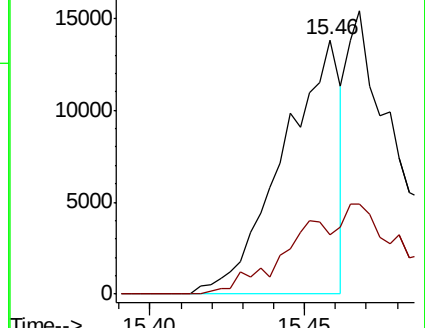
91 100

126 0.0 13.8 55.2#



Abundance Ion 91.10 (90.80 to 91.80): VL037288.D (-3922) (-)

Ion 126.10 (125.80 to 126.80): VL037288.D (-3922) (-)



#73

1,3,5-Trimethylbenzene

Concen: 0.052 ppbv

RT: 16.00 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL037292.D

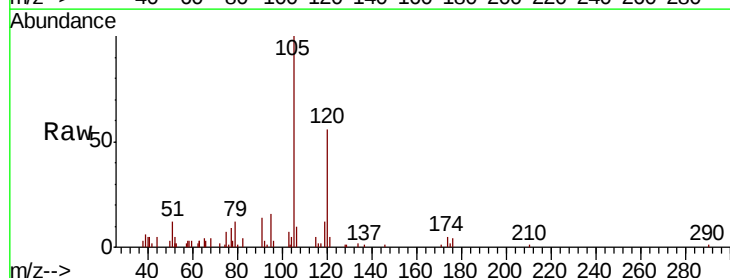
Acq: 30 Jul 2021 19:53

Tgt Ion: 105 Resp: 20691

Ion Ratio Lower Upper

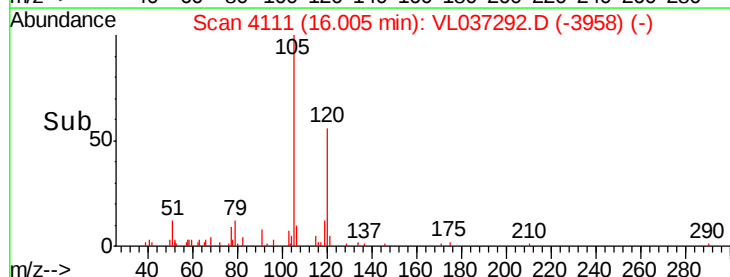
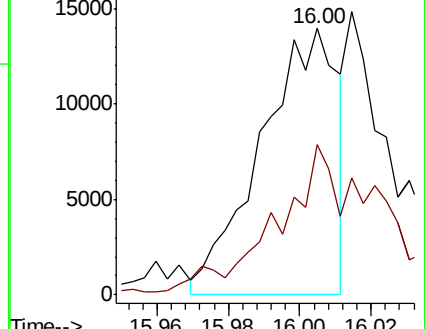
105 100

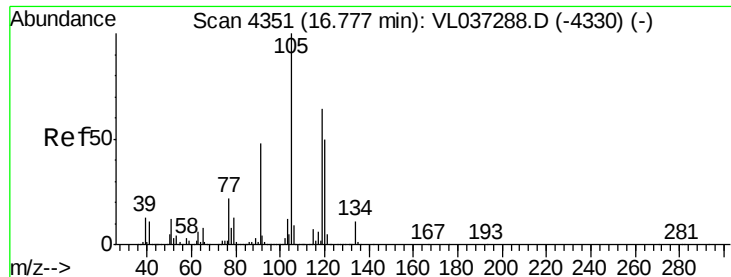
120 53.1 39.0 58.6



Abundance Ion 105.10 (104.80 to 105.80): VL037288.D (-4095) (-)

Ion 120.20 (119.90 to 120.90): VL037288.D (-4095) (-)





#74

1,2,4-Trimethylbenzene

Concen: 0.061 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL037292.D

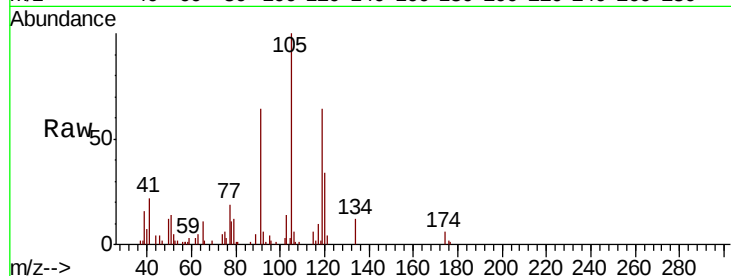
Acq: 30 Jul 2021 19:53

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	105	Resp:	25225
Ion	Ratio	Lower	Upper
105	100		
120	30.0	40.2	60.4#
91	30.1	39.0	58.6#
77	8.6	17.4	26.0#

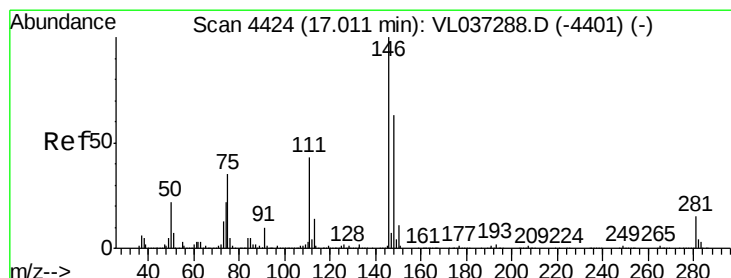
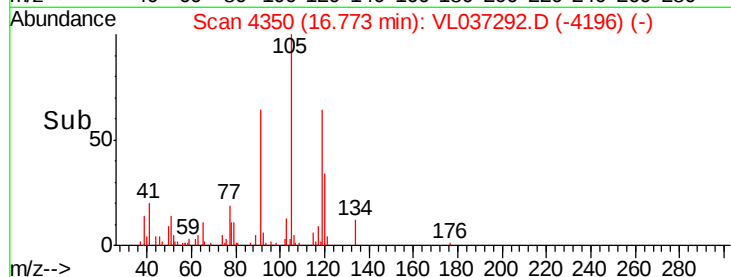
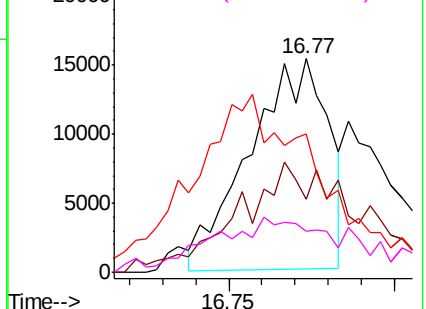


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.050 ppbv

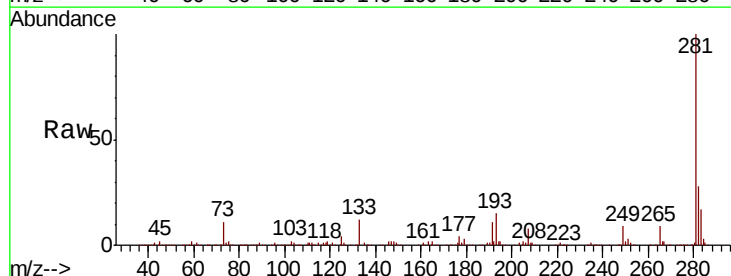
RT: 17.00 min Scan# 4421

Delta R.T. -0.01 min

Lab File: VL037292.D

Acq: 30 Jul 2021 19:53

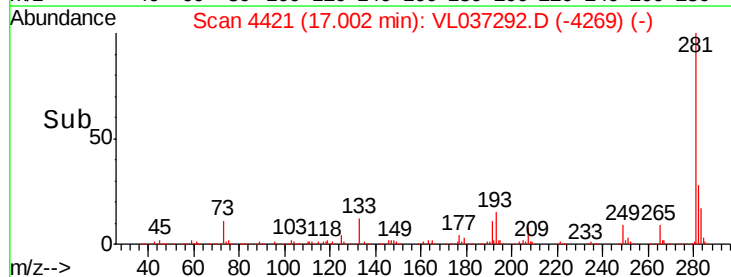
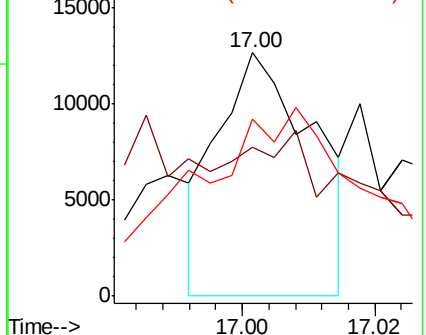
Tgt Ion:	146	Resp:	12646
Ion	Ratio	Lower	Upper
146	100		
111	0.0	21.7	65.1#
148	202.4	32.3	96.9#

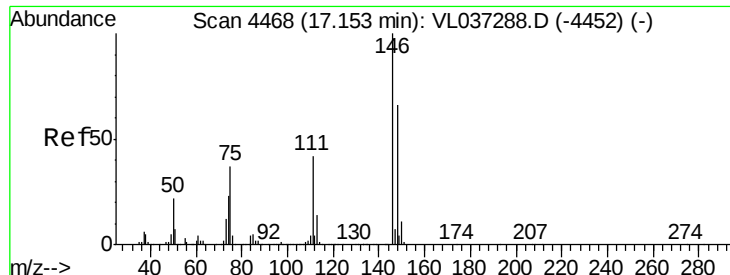


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

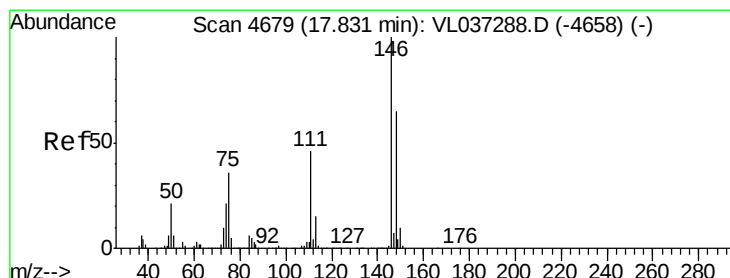
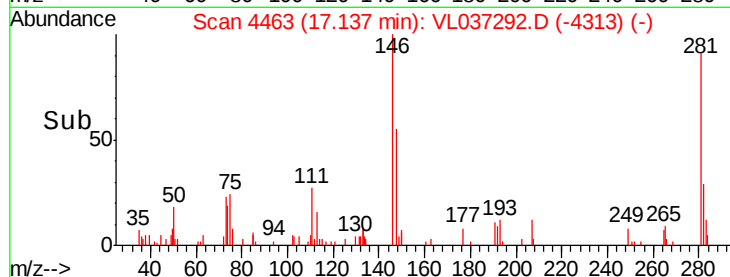
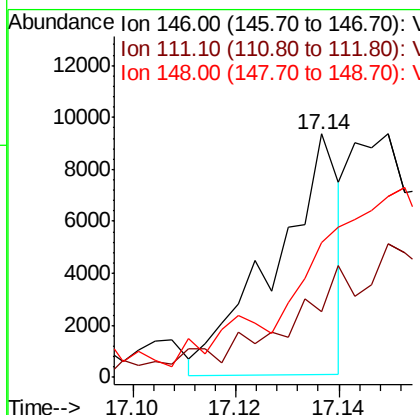
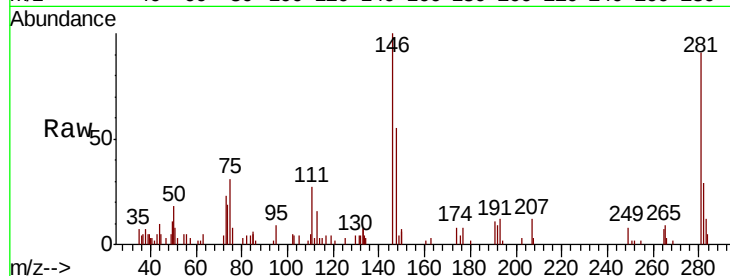




#76
 1,4-Dichlorobenzene
 Concen: 0.032 ppbv
 RT: 17.14 min Scan# 4463
 Delta R.T. -0.02 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

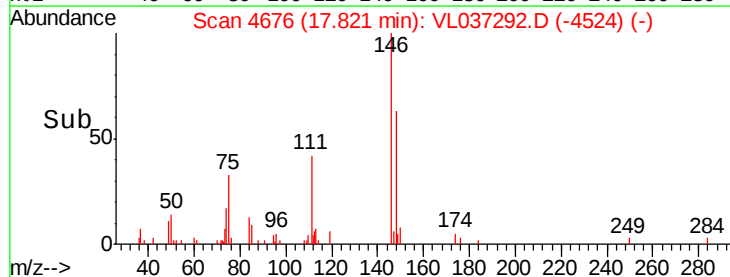
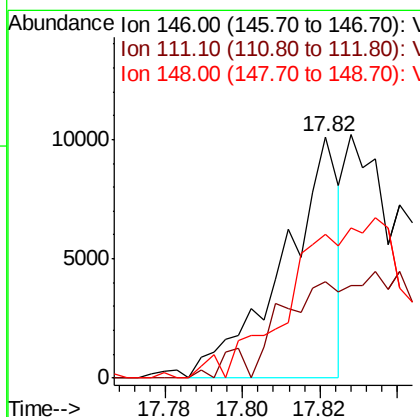
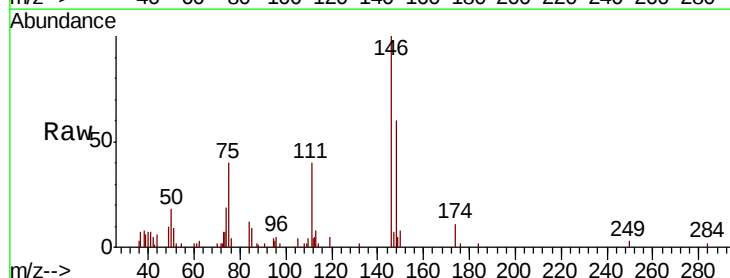
Instrument :
 MSVOA_L
 ClientSampleId :

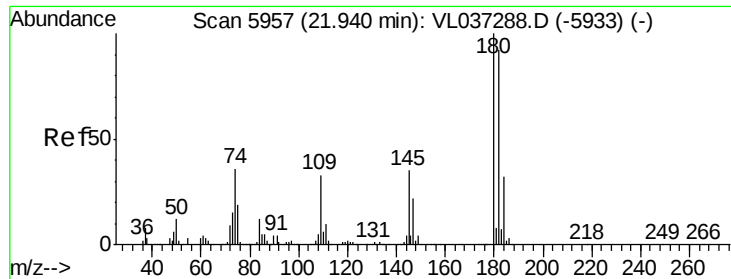
Tot Ion:146 Resp: 8043
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.2 63.6#
 148 0.0 32.9 98.6#



#77
 1,2-Dichlorobenzene
 Concen: 0.041 ppbv
 RT: 17.82 min Scan# 4676
 Delta R.T. -0.01 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Tgt Ion:146 Resp: 10051
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.7#
 148 0.0 32.5 97.4#





#81
 1,2,4-Trichlorobenzene
 Concen: 0.051 ppbv
 RT: 21.94 min Scan# 5958
 Delta R.T. 0.00 min
 Lab File: VL037292.D
 Acq: 30 Jul 2021 19:53

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 9794
 Ion Ratio Lower Upper
 180 100
 182 190.9 80.8 121.2#
 184 62.0 25.4 38.2#

