

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102721\
 Data File : VL037926.D
 Acq On : 27 Oct 2021 21:29
 Operator : SY/AP
 Sample : M4068-13 0.40 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Quant Time: Oct 28 05:19:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1342108	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4001200	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3372868	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2423016	10.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	124788	0.582	ppbv 100
3) Chlorodifluoromethane	3.00	51	117502	0.456	ppbv 98
4) Chloromethane	3.15	50	41948	0.444	ppbv 100
5) Vinyl Chloride	3.27	62	34963	0.404	ppbv # 82
6) Bromomethane	3.49	94	6952	0.148	ppbv # 67
7) Chloroethane	3.57	64	11849	0.372	ppbv 93
8) Dichlorotetrafluoroethane	3.20	85	90724	0.428	ppbv 93
9) Propene	3.02	41	31014	0.327	ppbv 85
10) Heptane	8.14	43	28347	0.132	ppbv # 2
11) Trichlorofluoromethane	3.96	101	44813	0.234	ppbv 94
12) 1,1,2-Trichlorotrifluoroet	4.50	101	50466	0.348	ppbv # 76
13) Ethanol	3.62	45	379	0.049	ppbv # 27
14) Bromoethene	3.75	108	14559	0.228	ppbv # 25
15) Acetone	3.89	43	33626	0.279	ppbv # 50
16) 1,3-Butadiene	3.34	39	28315	0.323	ppbv # 79
18) 1,1-Dichloroethene	4.30	96	15156	0.230	ppbv 93
20) Methylene Chloride	4.36	84	30578	0.502	ppbv 83
21) Allyl Chloride	4.42	41	22832	0.214	ppbv # 8
22) trans-1,2-Dichloroethene	4.90	96	22774	0.344	ppbv 87
24) 1,1-Dichloroethane	5.02	63	32609	0.248	ppbv 96
25) Ethyl Acetate	5.70	43	122493	0.362	ppbv # 92
26) Hexane	5.70	57	27308	0.164	ppbv # 1
27) Carbon Disulfide	4.56	76	27138	0.184	ppbv # 40
29) Chloroform	5.76	83	95756	0.402	ppbv 95
30) Cyclohexane	7.14	84	9640	0.068	ppbv # 1
31) cis-1,2-Dichloroethene	5.56	61	35082	0.232	ppbv 89
32) 1,1,1-Trichloroethane	6.52	97	85146	0.377	ppbv 95
34) 2-Butanone	5.27	43	39758	0.246	ppbv # 53
35) Carbon Tetrachloride	7.03	117	36442	0.160	ppbv 96
36) Benzene	6.90	78	97838	0.286	ppbv # 93
37) 1,2-Dichloroethane	6.31	62	57714	0.359	ppbv # 94
38) Trichloroethene	7.85	130	20059	0.149	ppbv # 64
39) 1,2-Dichloropropane	7.61	63	10497	0.082	ppbv # 84
41) Tetrahydrofuran	6.10	42	8618	0.109	ppbv # 36
42) Bromodichloromethane	7.81	83	32304	0.137	ppbv 96
43) Methyl Methacrylate	8.03	69	24121	0.216	ppbv # 89
44) 2,2,4-Trimethylpentane	7.88	57	173278	0.302	ppbv # 85
46) cis-1,3-Dichloropropene	8.72	75	7448	0.070	ppbv # 18
47) 1,1,2-Trichloroethane	9.48	97	44430	0.318	ppbv 93
48) Dibromochloromethane	10.31	129	44167	0.222	ppbv 58
49) Bromoform	13.05	173	45922	0.301	ppbv 99

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

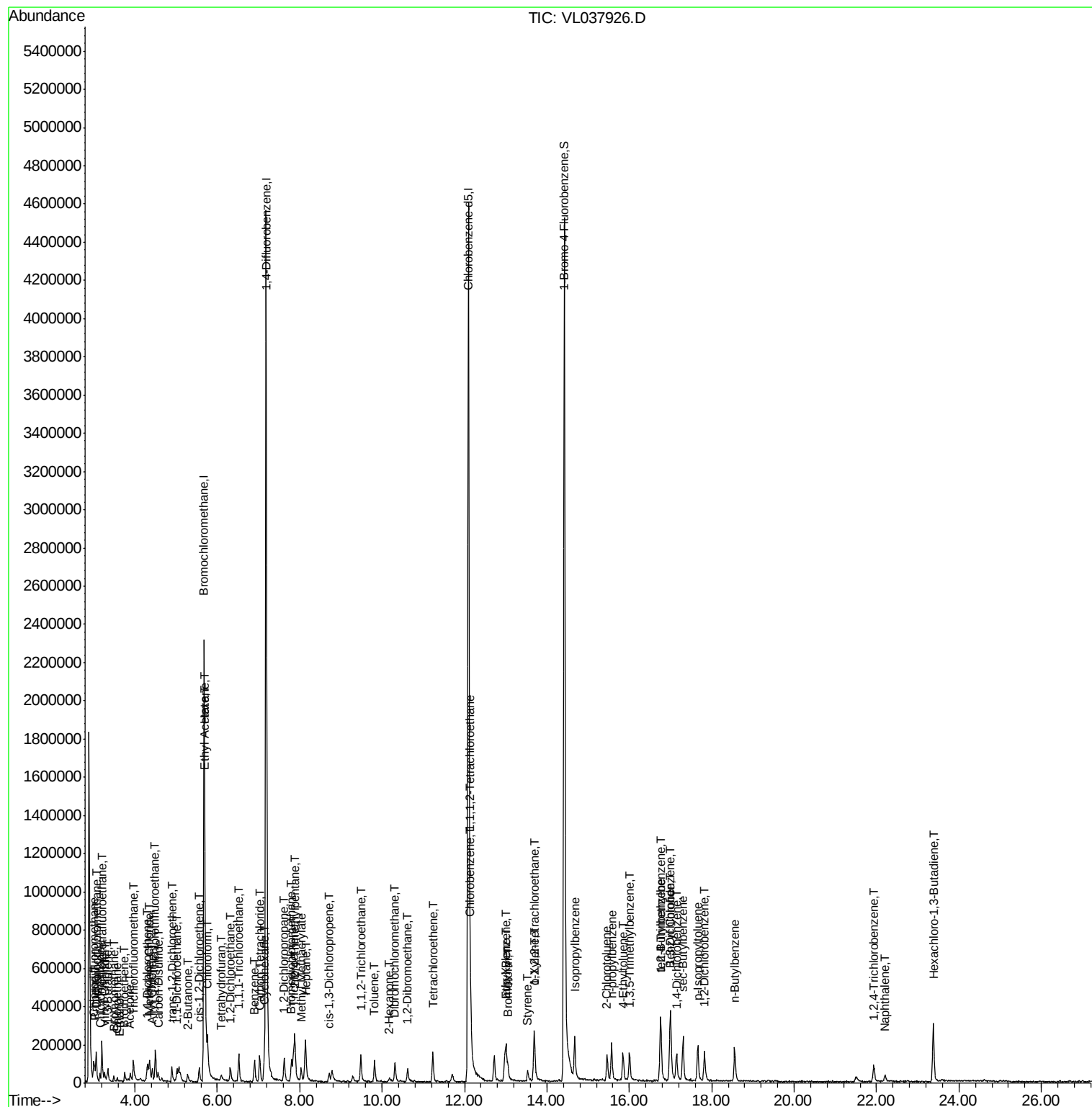
51) 2-Hexanone	10.16	43	3234	0.034	ppbv #	28
52) Tetrachloroethene	11.23	164	19121	0.144	ppbv	91
53) Toluene	9.82	91	35471	0.094	ppbv #	20
54) 1,2-Dibromoethane	10.62	107	35734	0.189	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.13	131	59352	0.425	ppbv #	1
57) Chlorobenzene	12.15	112	63492	0.229	ppbv #	67
58) Ethyl Benzene	13.01	91	31831	0.070	ppbv	99
59) m/p-Xylene	13.00	91	33501	0.086	ppbv #	30
60) o-Xylene	13.70	91	101662	0.273	ppbv	98
61) Styrene	13.53	104	30540	0.169	ppbv #	88
62) Isopropylbenzene	14.67	105	176744	0.340	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	109340	0.380	ppbv	93
64) n-propylbenzene	15.56	120	19478	0.150	ppbv	70
65) tert-Butylbenzene	16.76	119	140249	0.307	ppbv	95
66) Benzyl Chloride	16.98	91	1102	0.049	ppbv #	1
67) sec-Butylbenzene	17.30	105	105863	0.169	ppbv #	66
69) p-Isopropyltoluene	17.65	119	63241	0.125	ppbv #	48
70) n-Butylbenzene	18.55	91	56844	0.118	ppbv #	33
71) 2-Chlorotoluene	15.46	91	99712	0.272	ppbv	98
72) 4-Ethyltoluene	15.85	105	98725	0.233	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.00	105	37821	0.098	ppbv #	79
74) 1,2,4-Trimethylbenzene	16.77	105	128627	0.319	ppbv	94
75) 1,3-Dichlorobenzene	17.00	146	55425	0.222	ppbv #	29
76) 1,4-Dichlorobenzene	17.14	146	43568	0.183	ppbv #	23
77) 1,2-Dichlorobenzene	17.82	146	72820	0.303	ppbv	82
78) Hexachloro-1,3-Butadiene	23.38	225	22370	0.114	ppbv #	1
79) Naphthalene	22.19	128	7805	0.032	ppbv #	73
81) 1,2,4-Trichlorobenzene	21.93	180	13347	0.084	ppbv #	1

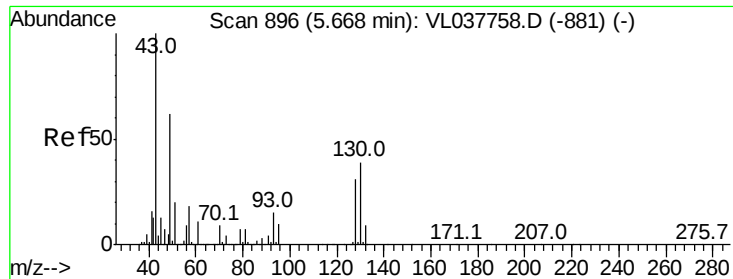
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

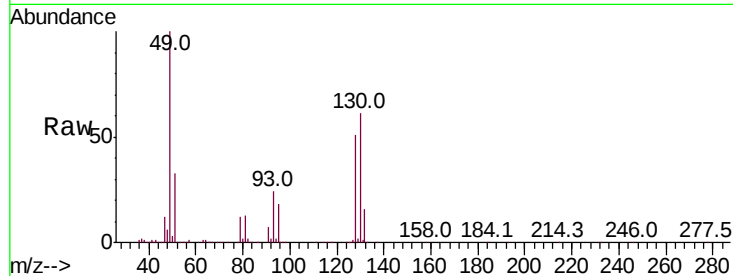
Tot Ion: 49 Resp: 1342108

Ion Ratio Lower Upper

49 100

128 54.1 27.1 81.3

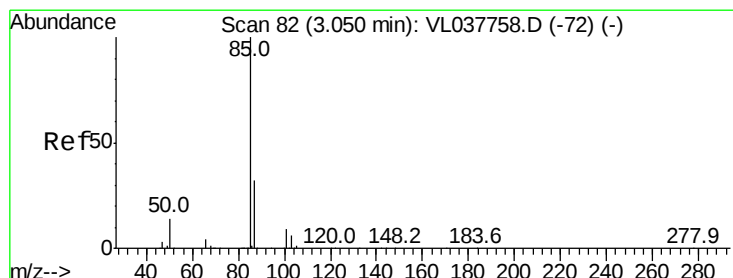
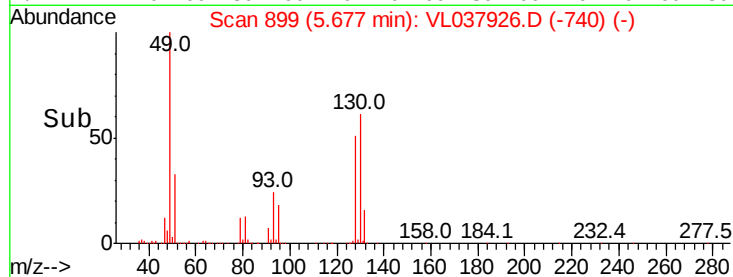
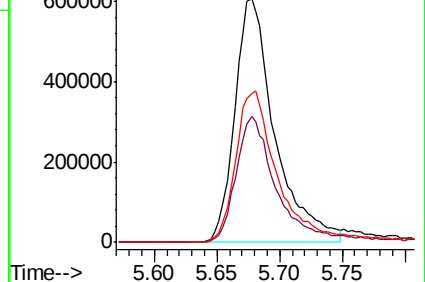
130 67.5 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.582 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL037926.D

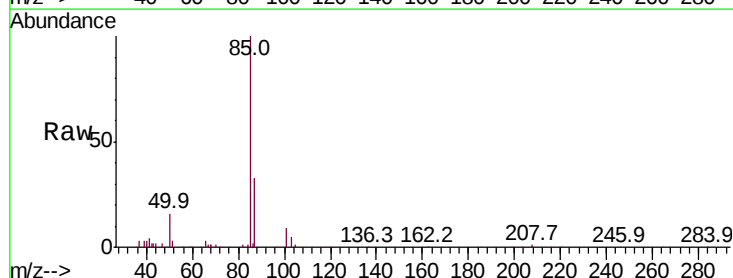
Acq: 27 Oct 2021 21:29

Tgt Ion: 85 Resp: 124788

Ion Ratio Lower Upper

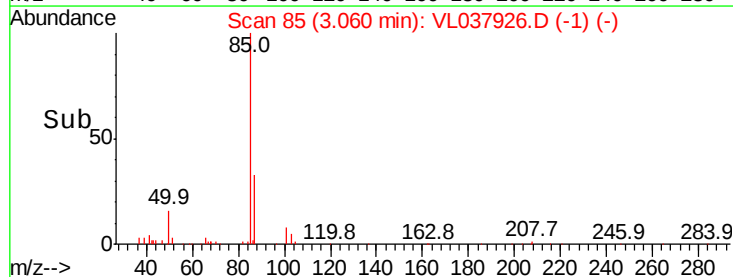
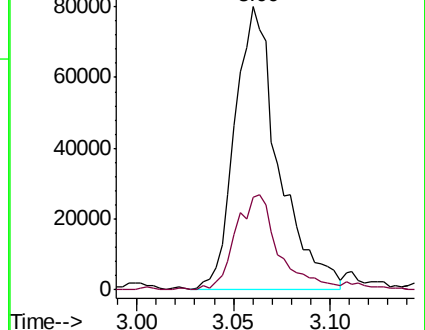
85 100

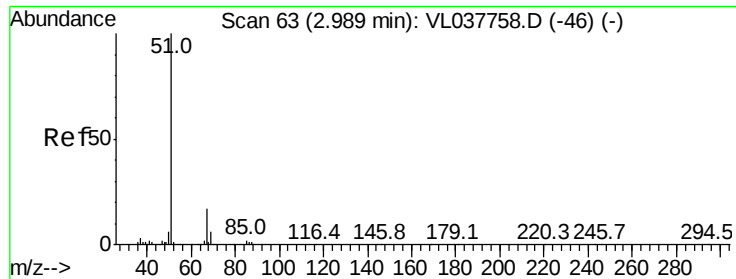
87 32.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.456 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

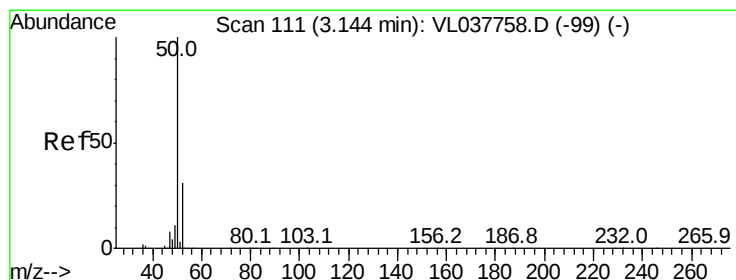
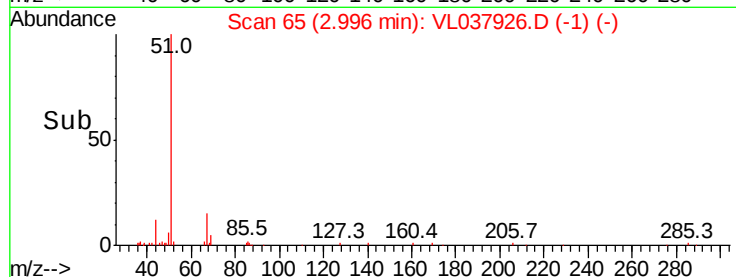
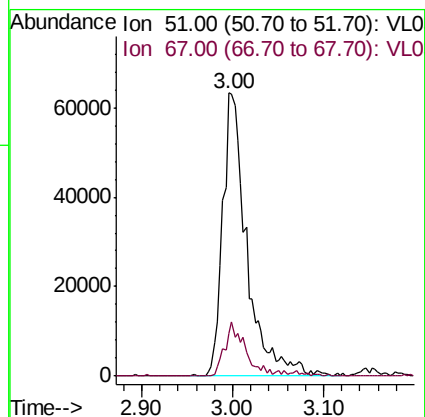
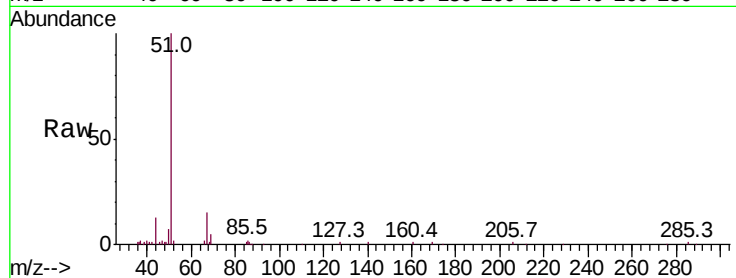
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 51 Resp: 117502

Ion Ratio Lower Upper

51 100

67 17.7 13.5 20.3



#4

Chloromethane

Concen: 0.444 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL037926.D

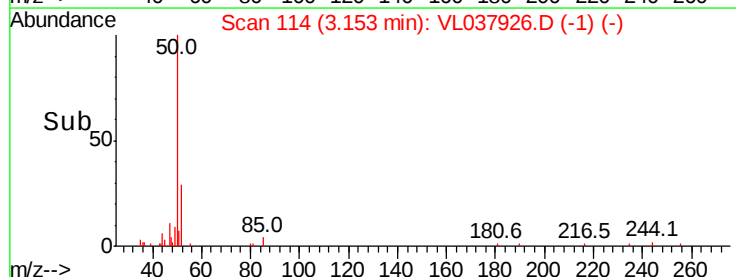
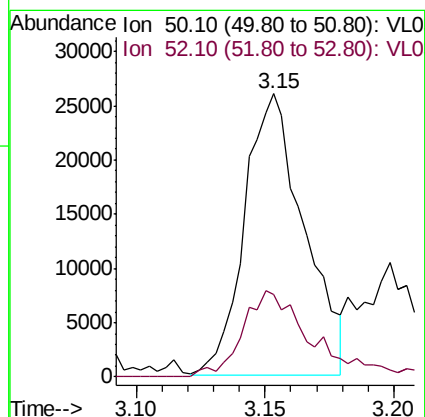
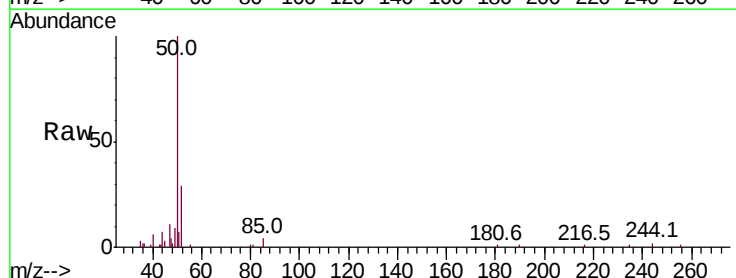
Acq: 27 Oct 2021 21:29

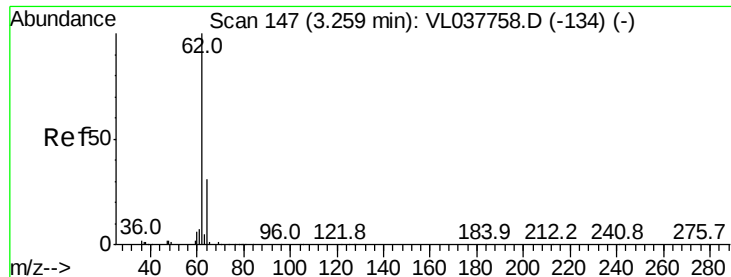
Tgt Ion: 50 Resp: 41948

Ion Ratio Lower Upper

50 100

52 30.4 24.4 36.6





#5

Vinyl Chloride

Concen: 0.404 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

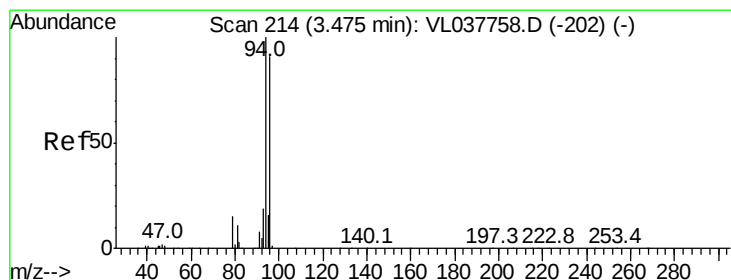
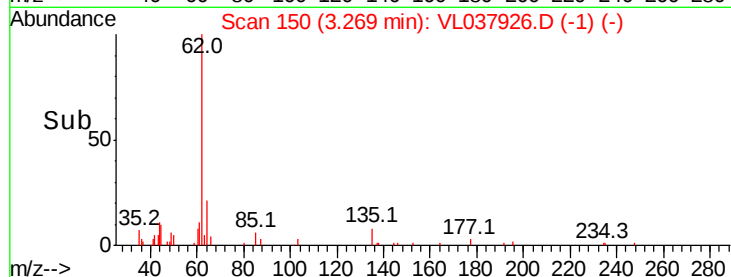
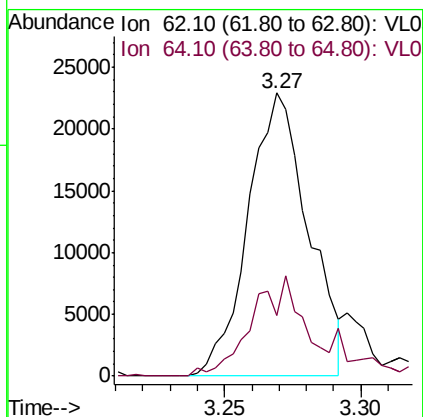
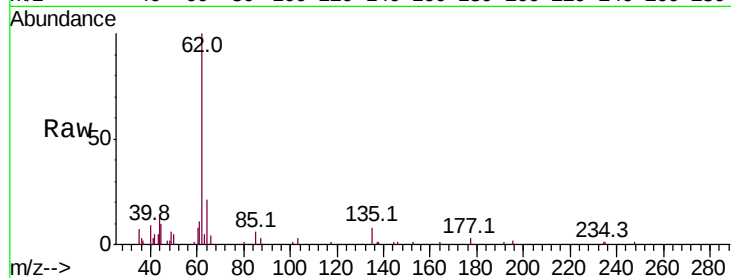
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 62 Resp: 34963

Ion Ratio Lower Upper

62 100

64 21.3 24.9 37.3#



#6

Bromomethane

Concen: 0.148 ppbv

RT: 3.49 min Scan# 219

Delta R.T. 0.02 min

Lab File: VL037926.D

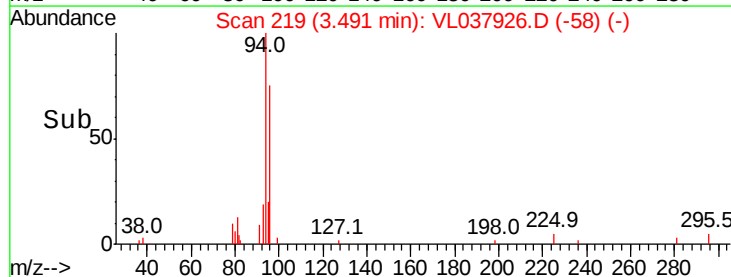
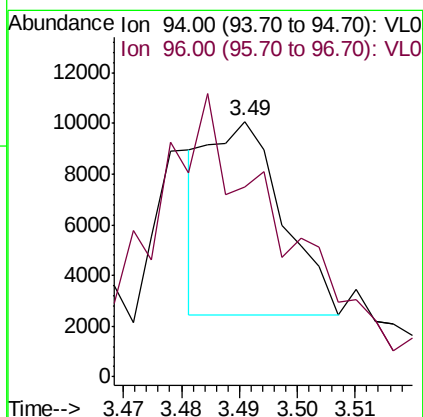
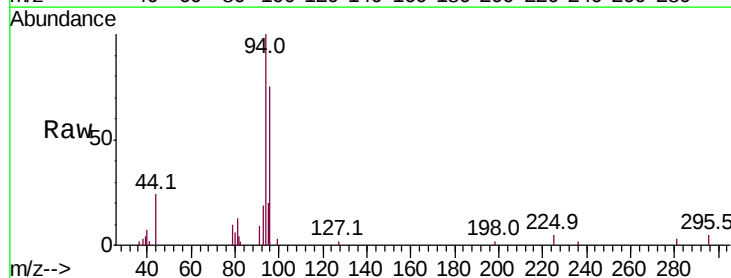
Acq: 27 Oct 2021 21:29

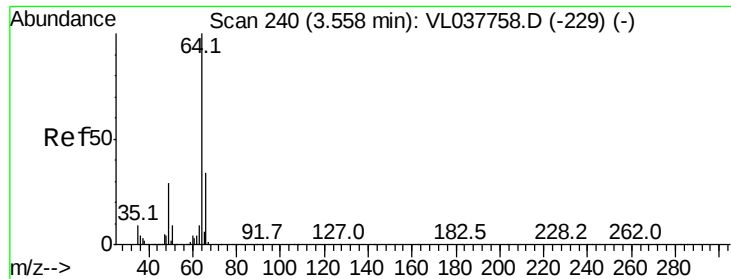
Tgt Ion: 94 Resp: 6952

Ion Ratio Lower Upper

94 100

96 59.6 72.5 108.7#





#7

Chloroethane

Concen: 0.372 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

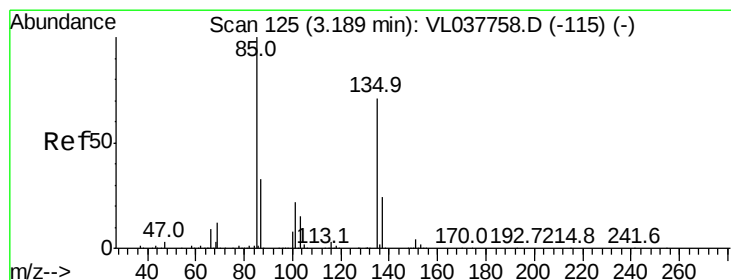
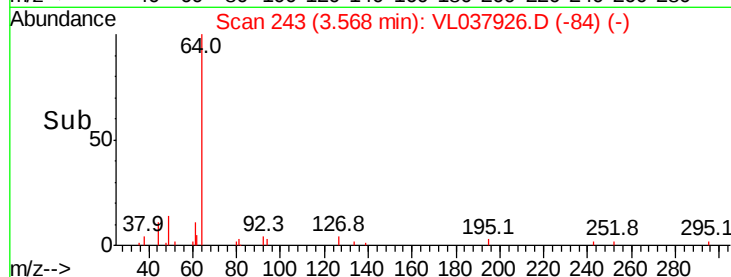
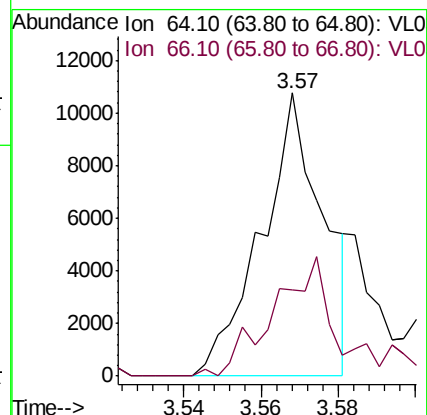
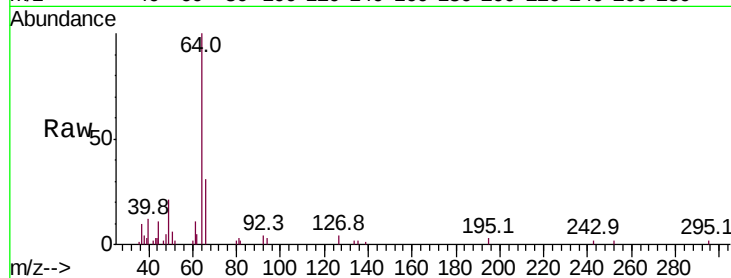
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 64 Resp: 11849

Ion Ratio Lower Upper

64 100

66 30.6 27.5 41.3



#8

Dichlorotetrafluoroethane

Concen: 0.428 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL037926.D

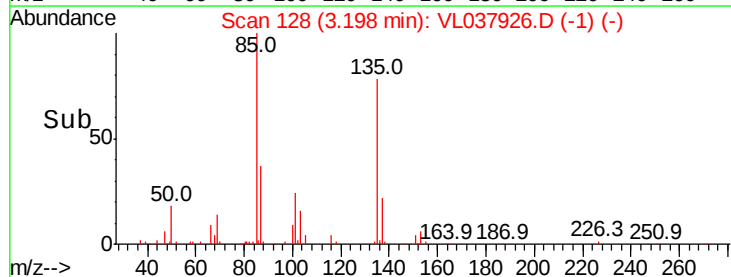
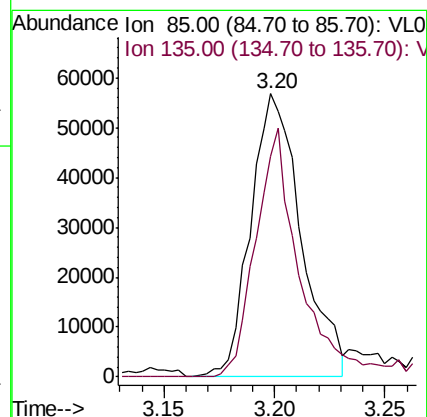
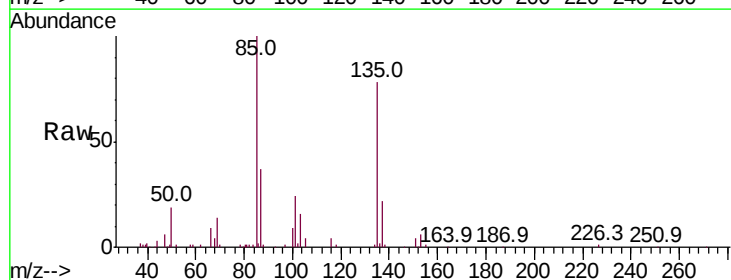
Acq: 27 Oct 2021 21:29

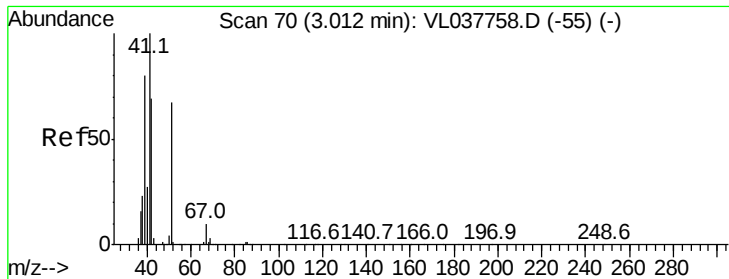
Tgt Ion: 85 Resp: 90724

Ion Ratio Lower Upper

85 100

135 80.0 59.5 89.3





#9

Propene

Concen: 0.327 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

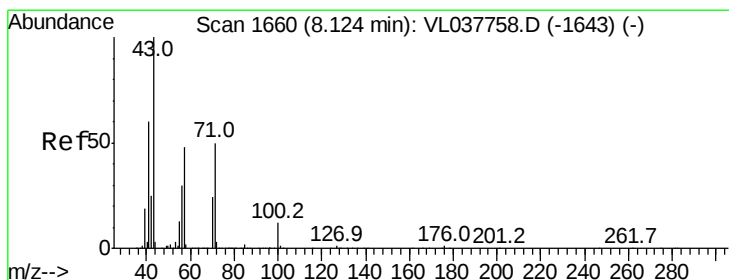
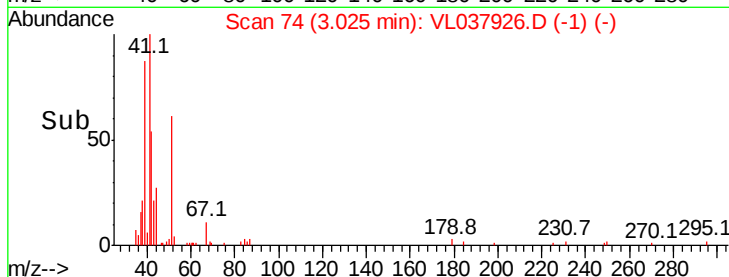
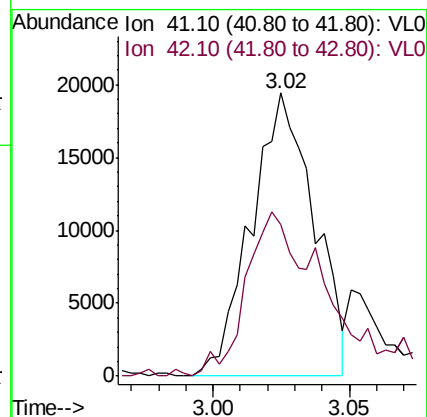
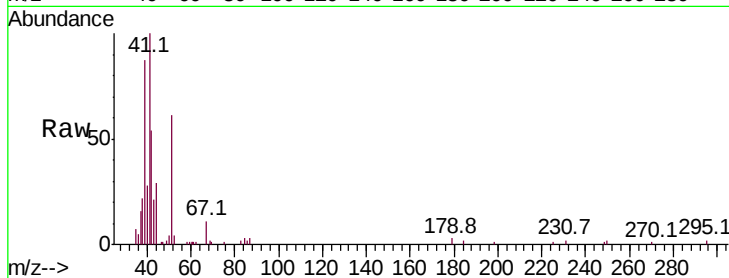
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 41 Resp: 31014

Ion Ratio Lower Upper

41 100

42 80.0 54.2 81.2



#10

Heptane

Concen: 0.132 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.01 min

Lab File: VL037926.D

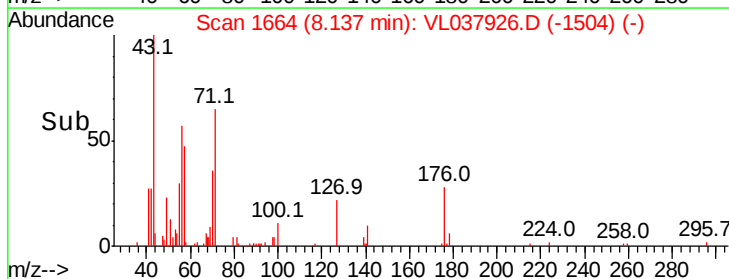
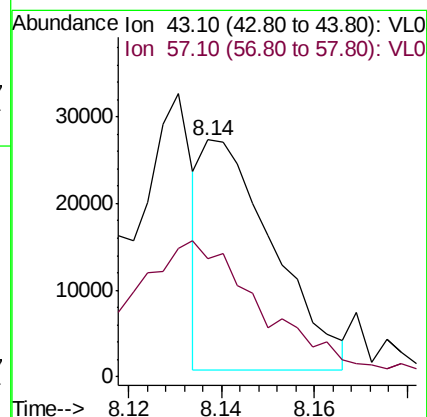
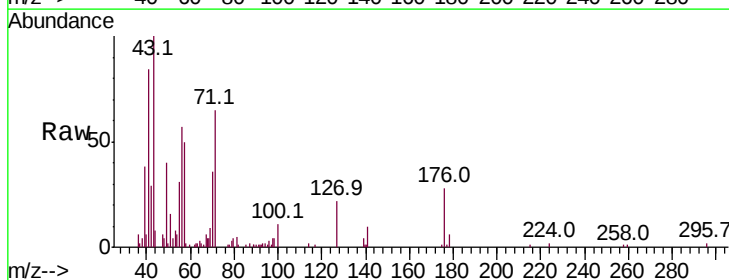
Acq: 27 Oct 2021 21:29

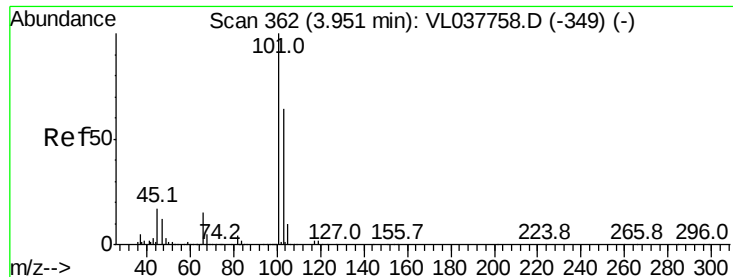
Tgt Ion: 43 Resp: 28347

Ion Ratio Lower Upper

43 100

57 117.7 40.0 60.0#





#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

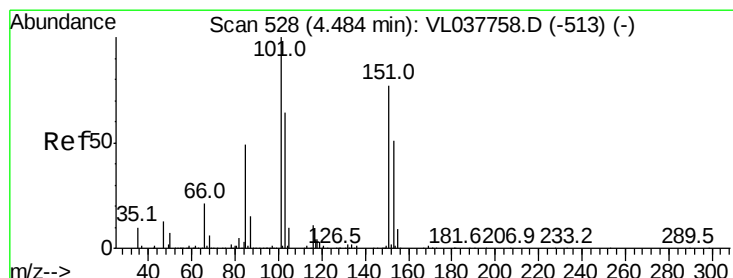
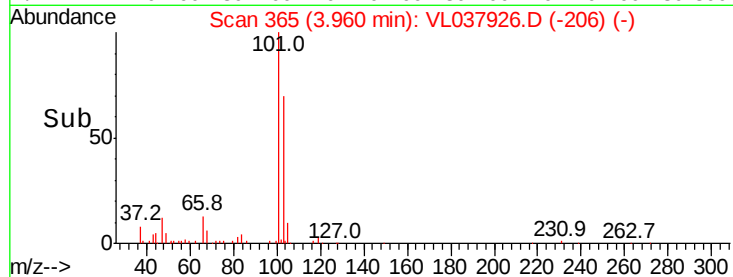
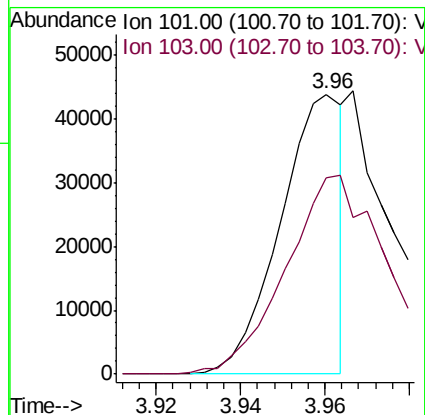
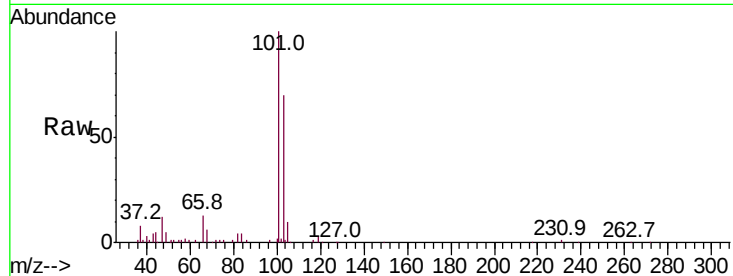
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:101 Resp: 44813

Ion Ratio Lower Upper

101 100

103 69.5 51.5 77.3



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.348 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.01 min

Lab File: VL037926.D

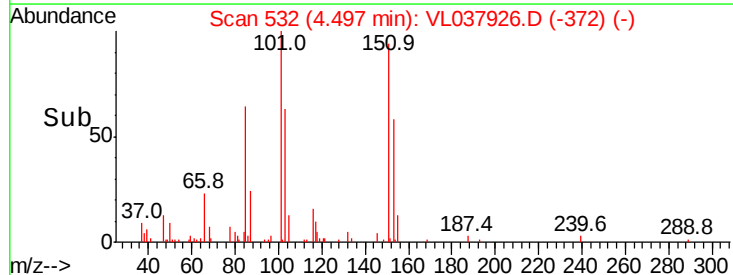
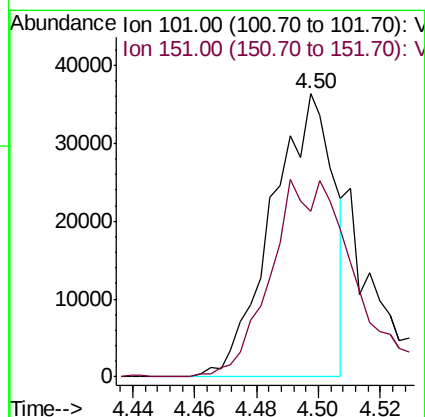
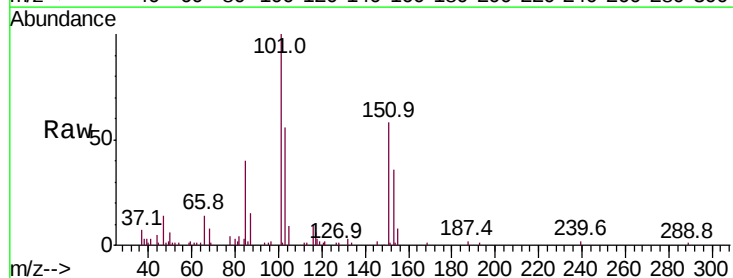
Acq: 27 Oct 2021 21:29

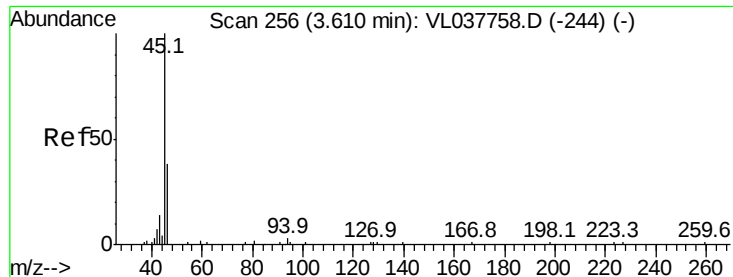
Tgt Ion:101 Resp: 50466

Ion Ratio Lower Upper

101 100

151 99.6 62.9 94.3#





#13

Ethanol

Concen: 0.049 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

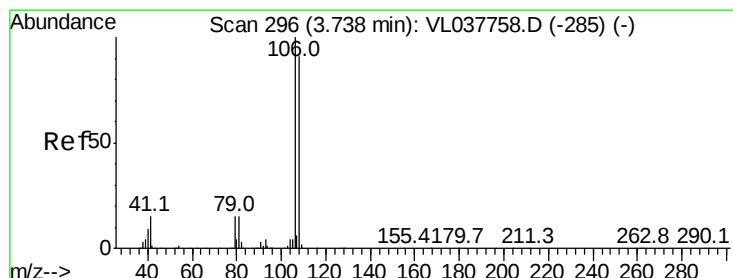
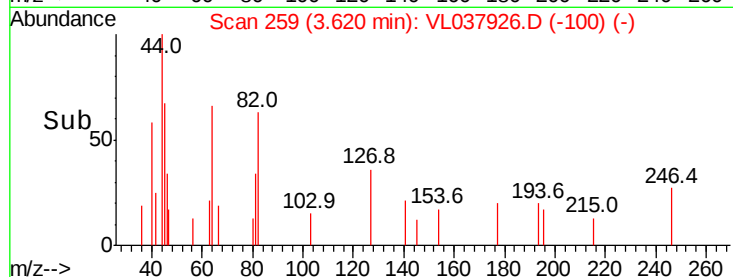
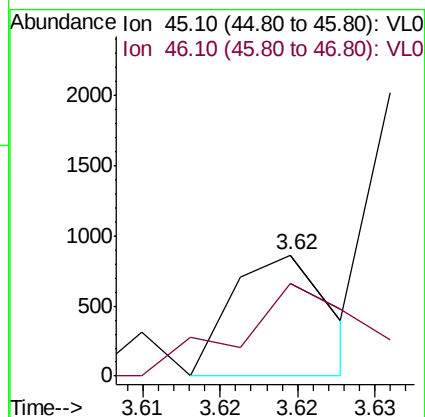
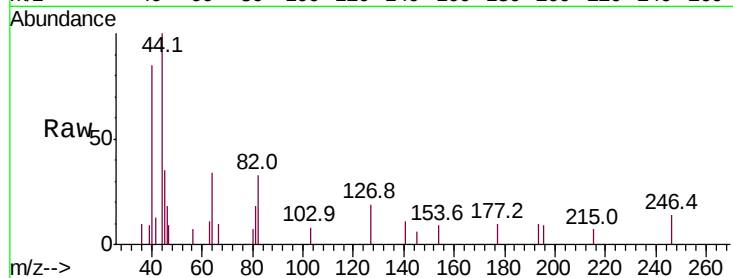
Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 45 Resp: 379

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#



#14

Bromoethene

Concen: 0.228 ppbv

RT: 3.75 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

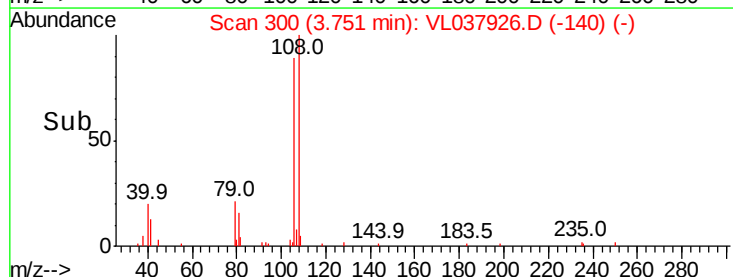
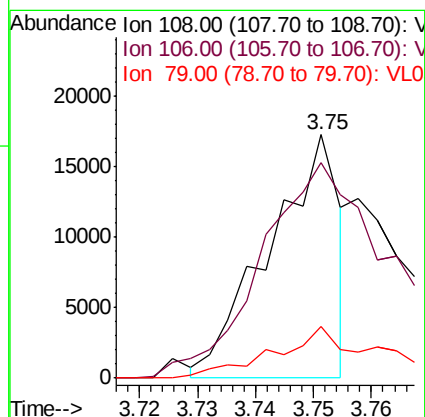
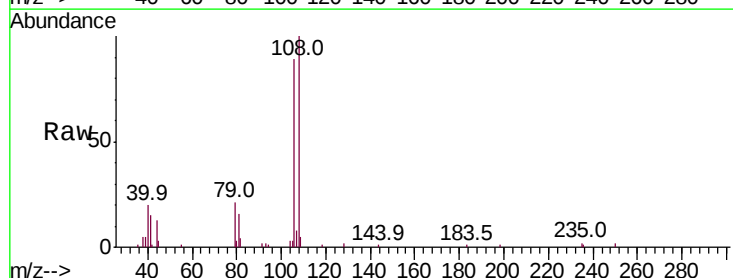
Tgt Ion: 108 Resp: 14559

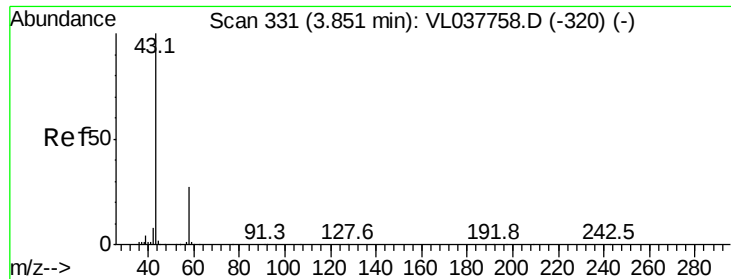
Ion Ratio Lower Upper

108 100

106 200.8 91.9 137.9#

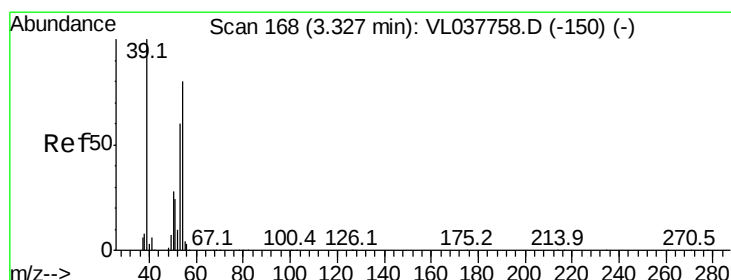
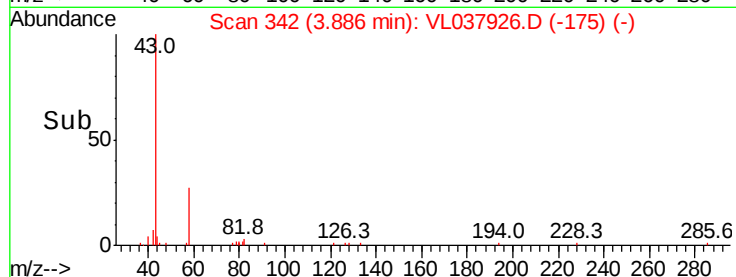
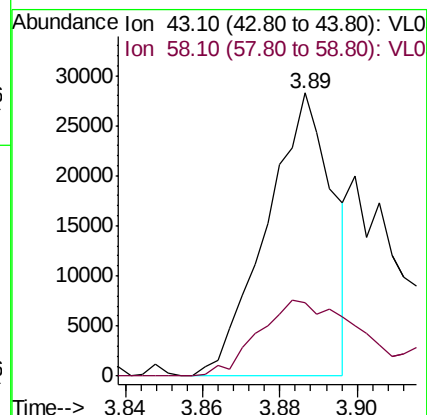
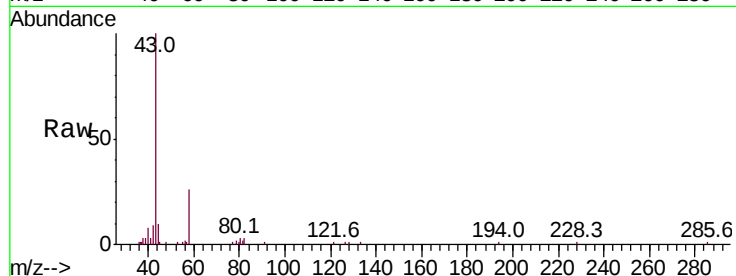
79 37.3 13.9 20.9#





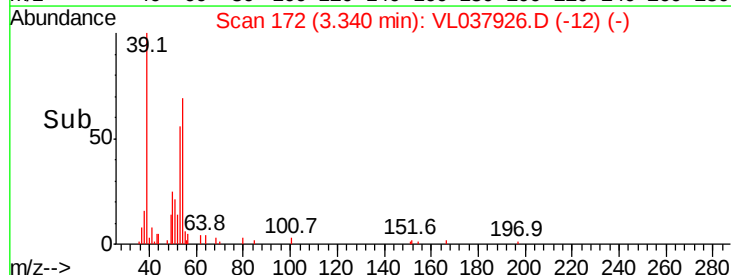
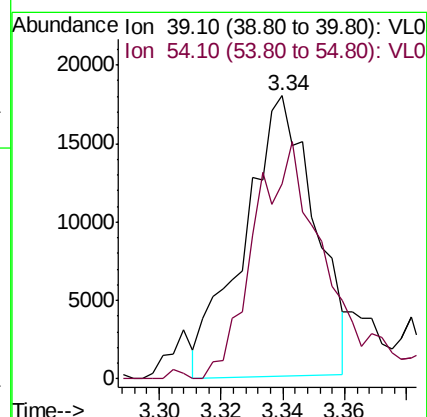
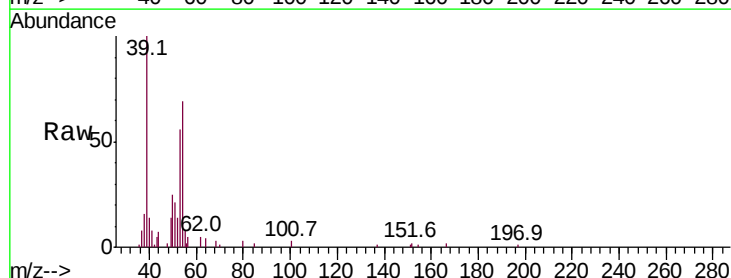
#15
Acetone
Concen: 0.279 ppbv
RT: 3.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 27 Oct 2021 21:29

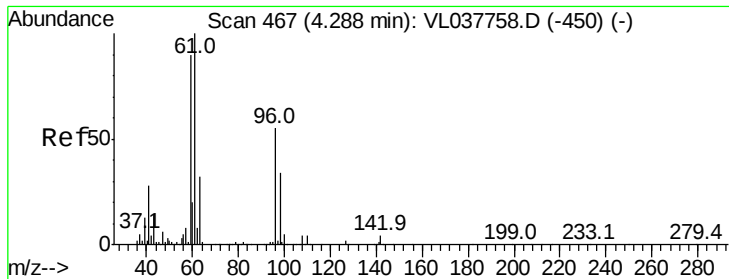
Tot Ion: 43 Resp: 33626
Ion Ratio Lower Upper
43 100
58 55.2 23.0 34.6#



#16
1,3-Butadiene
Concen: 0.323 ppbv
RT: 3.34 min Scan# 172
Delta R.T. 0.01 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

Tgt Ion: 39 Resp: 28315
Ion Ratio Lower Upper
39 100
54 95.5 61.7 92.5#





#18

1,1-Dichloroethene

Concen: 0.230 ppbv

RT: 4.30 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: LOD-MDL-AIR-01-QT4-2021

Acq: 27 Oct 2021 21:29

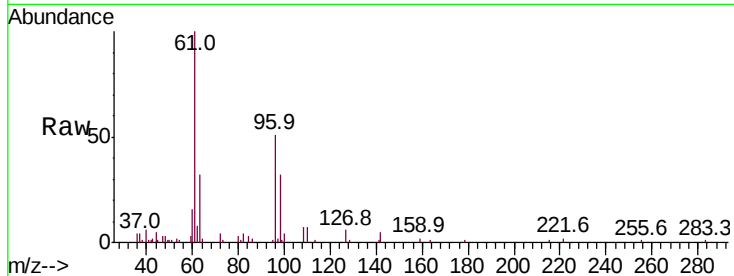
Tot Ion: 96 Resp: 15156

Ion Ratio Lower Upper

96 100

61 194.6 146.2 219.4

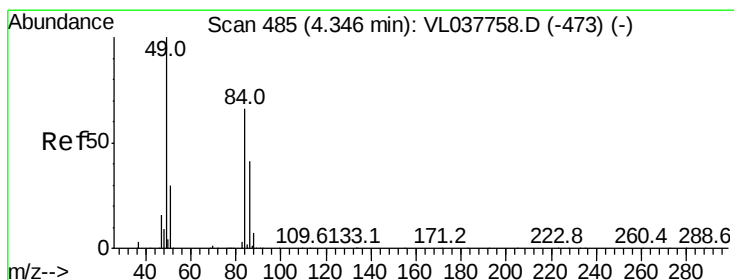
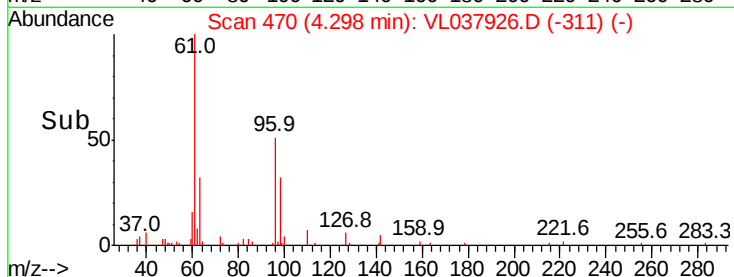
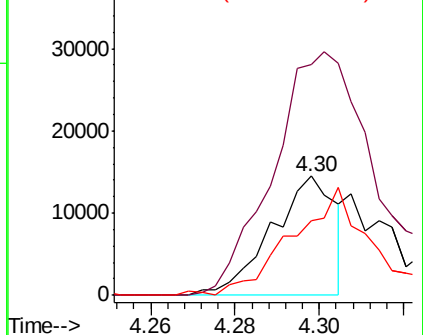
98 60.0 50.0 75.0



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#20

Methylene Chloride

Concen: 0.502 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 84 Resp: 30578

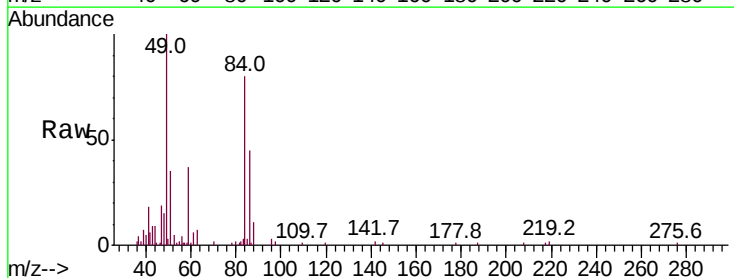
Ion Ratio Lower Upper

84 100

49 121.4 120.7 181.1

51 40.9 36.2 54.4

86 55.6 49.6 74.4

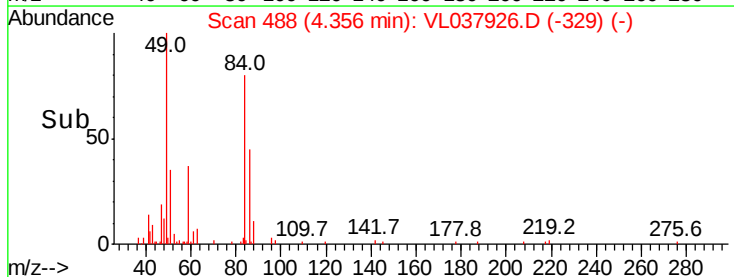
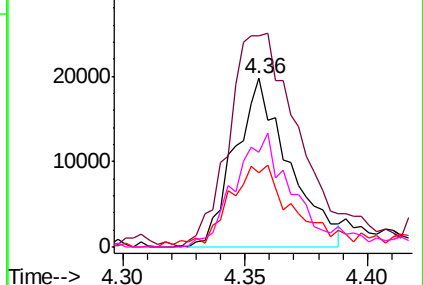


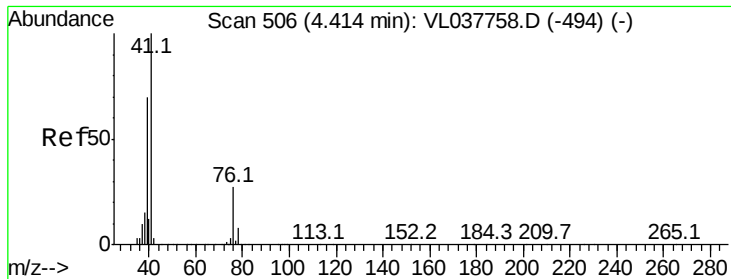
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.214 ppbv

RT: 4.42 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

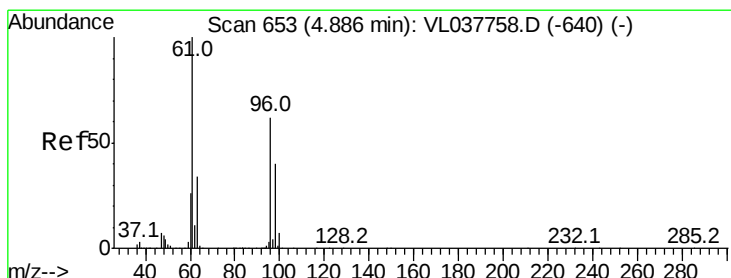
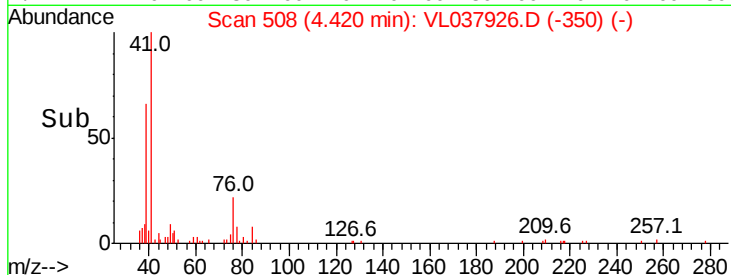
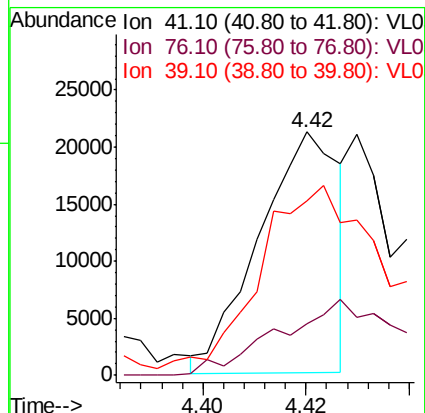
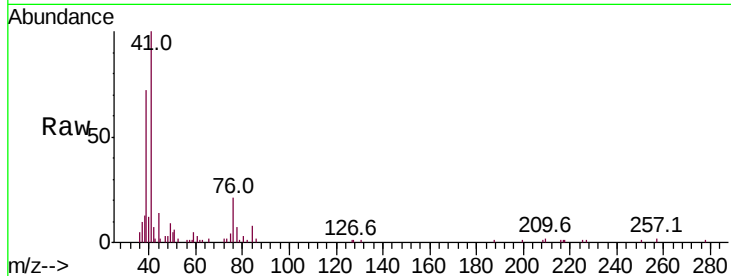
Tot Ion: 41 Resp: 22832

Ion Ratio Lower Upper

41 100

76 0.0 22.4 33.6#

39 162.5 58.0 87.0#



#22

trans-1,2-Dichloroethene

Concen: 0.344 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

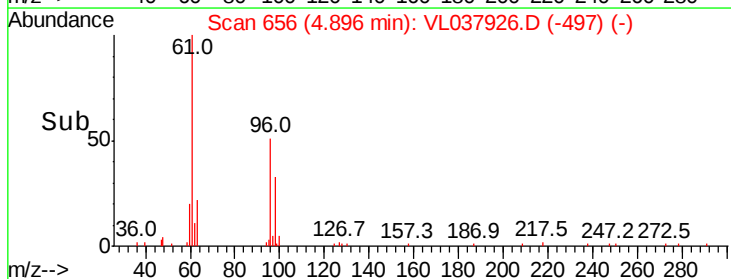
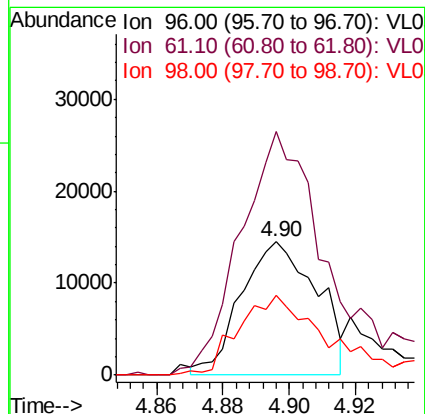
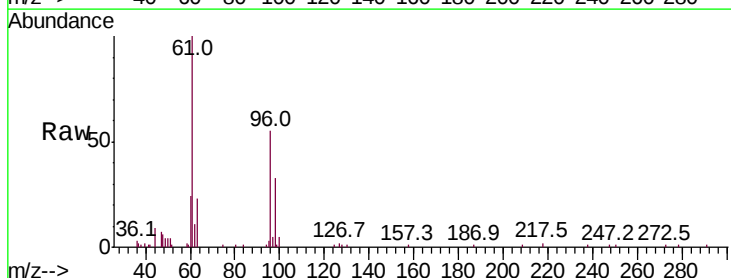
Tgt Ion: 96 Resp: 22774

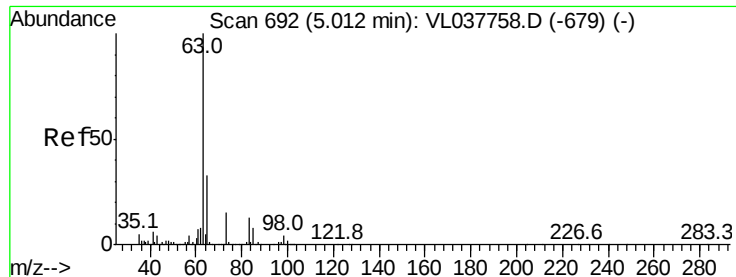
Ion Ratio Lower Upper

96 100

61 184.7 129.0 193.6

98 62.4 51.7 77.5





#24

1,1-Dichloroethane

Concen: 0.248 ppbv

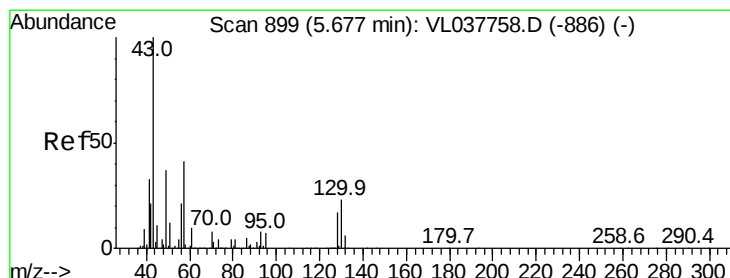
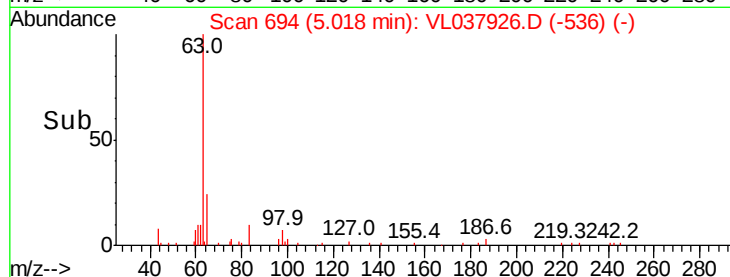
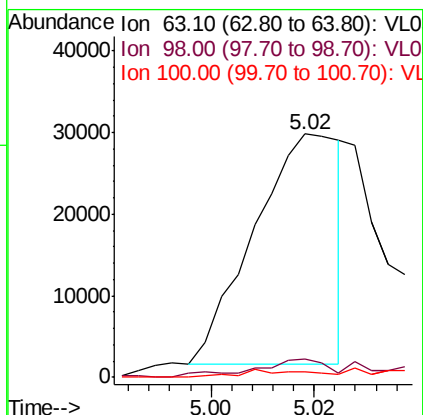
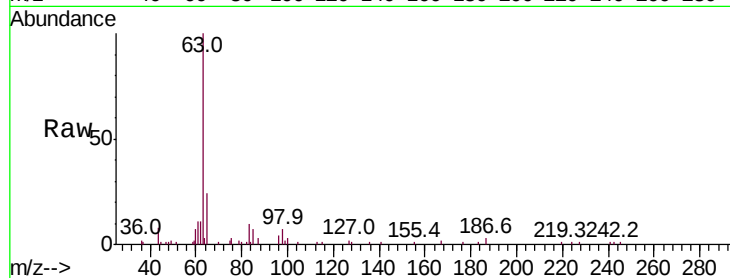
RT: 5.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion:	63	Resp:	32609
Ion	Ratio	Lower	Upper
63	100		
98	6.1	2.3	6.9
100	2.7	1.1	3.1



#25

Ethyl Acetate

Concen: 0.362 ppbv

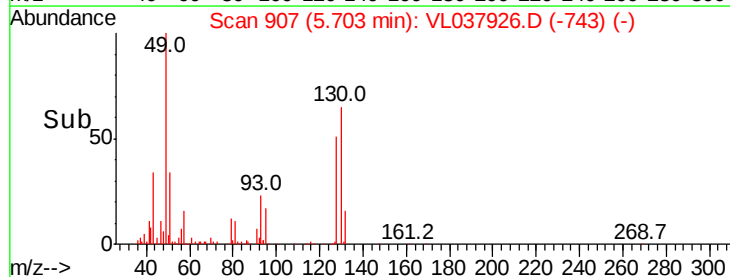
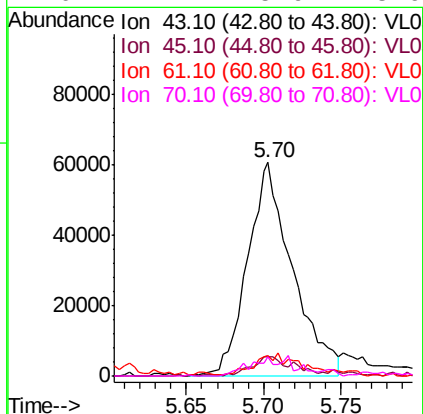
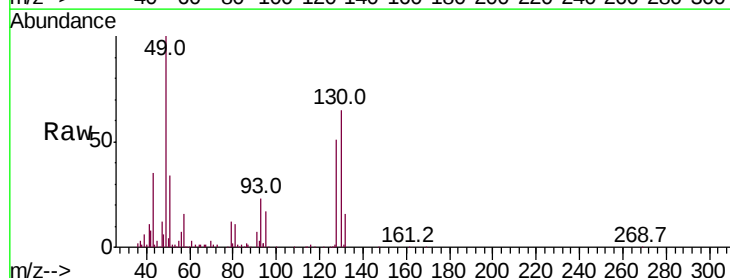
RT: 5.70 min Scan# 907

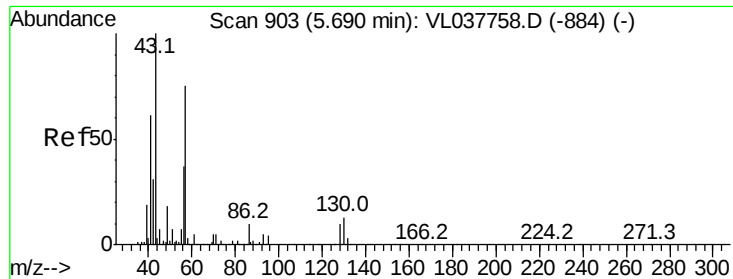
Delta R.T. 0.03 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion:	43	Resp:	122493
Ion	Ratio	Lower	Upper
43	100		
45	8.4	8.1	12.1
61	12.5	7.5	11.3#
70	11.2	5.9	8.9#





#26

Hexane

Concen: 0.164 ppbv

RT: 5.70 Instrument:

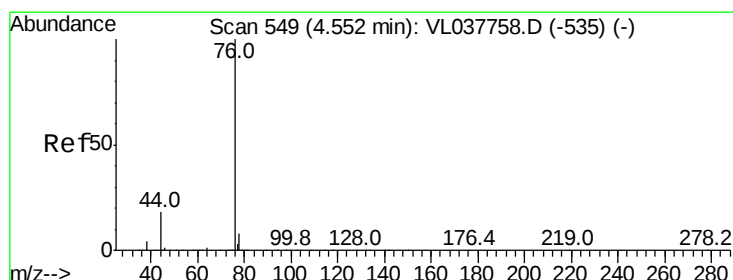
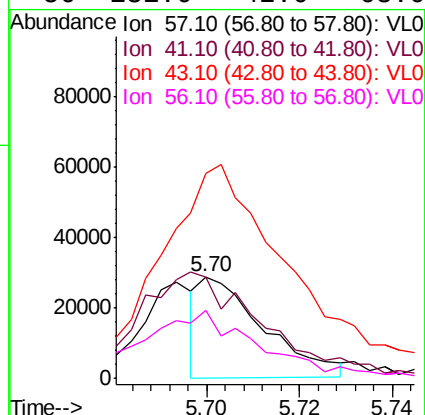
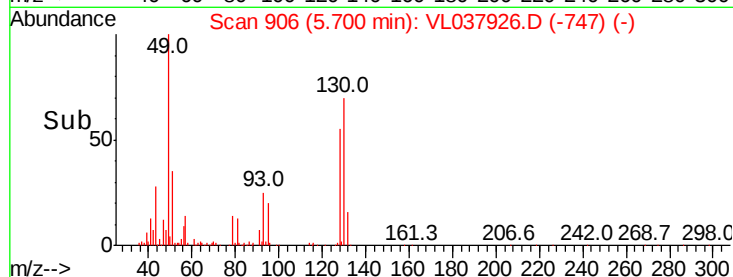
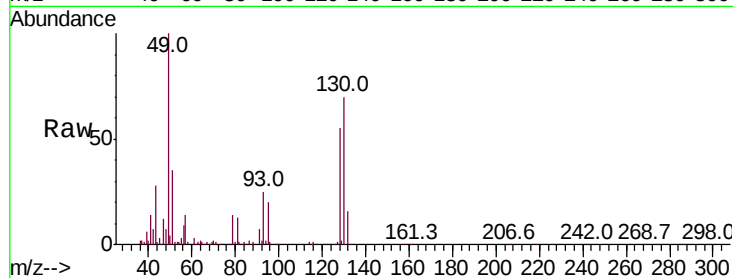
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 57 Resp: 27308

Ion	Ratio	Lower	Upper
57	100		
41	225.4	69.6	104.4#
43	496.8	171.4	257.0#
56	131.0	42.0	63.0#



#27

Carbon Disulfide

Concen: 0.184 ppbv

RT: 4.56 min Scan# 552

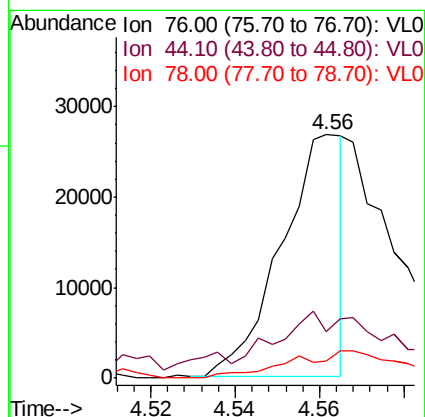
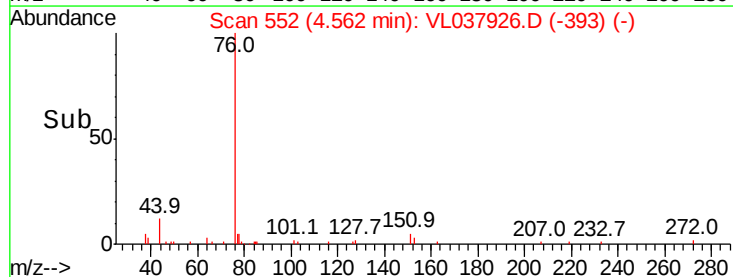
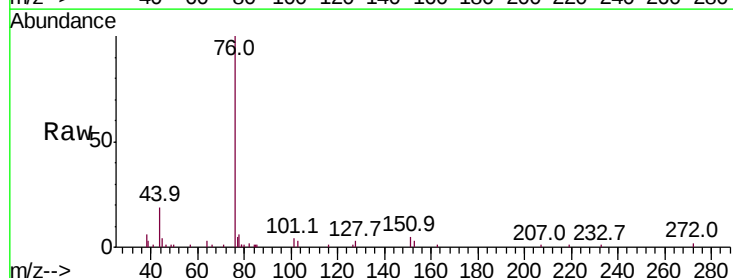
Delta R.T. 0.01 min

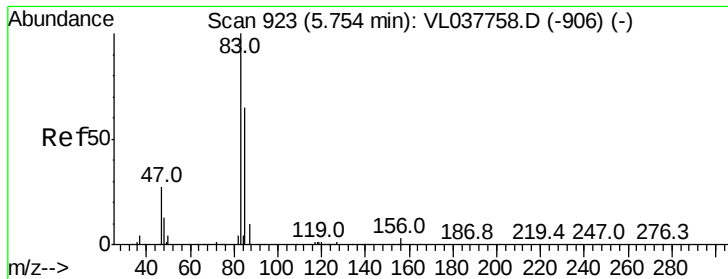
Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 76 Resp: 27138

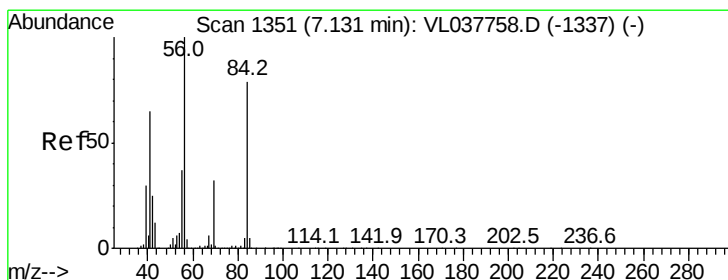
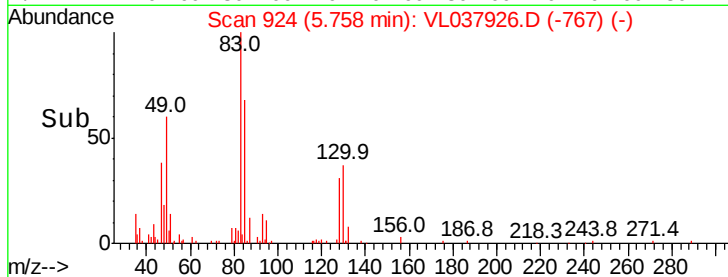
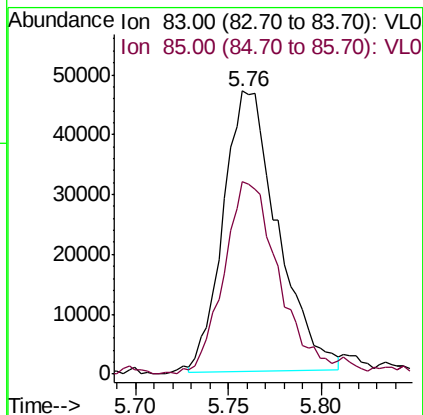
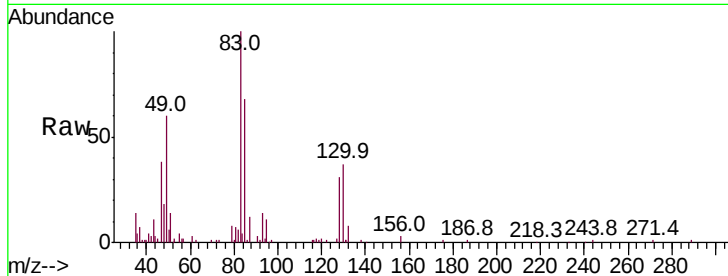
Ion	Ratio	Lower	Upper
76	100		
44	51.1	14.3	21.5#
78	21.0	7.8	11.6#





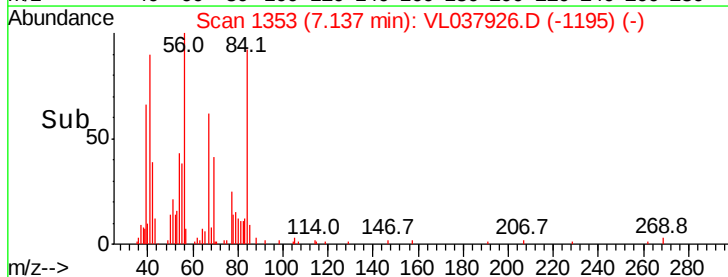
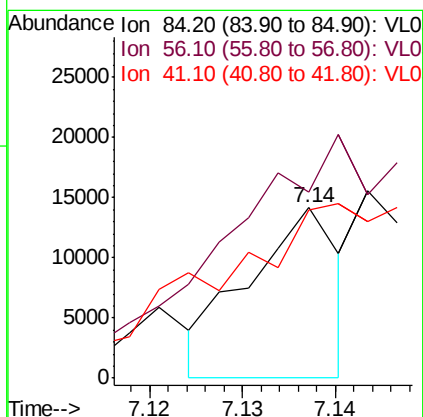
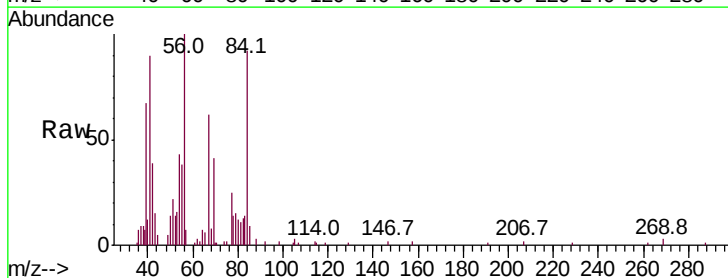
#29
Chloroform
Concen: 0.402 ppbv
RT: 5.76
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 21:29
LOD-MDL-AIR-01-QT4-2021

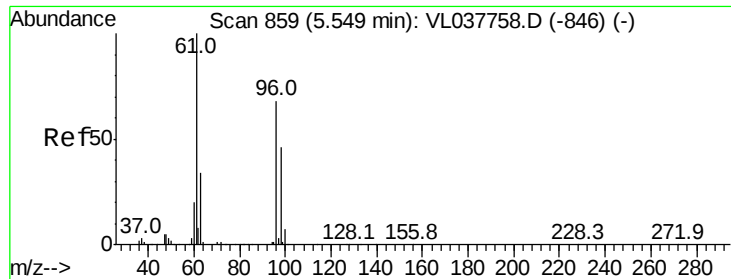
Tot Ion: 83 Resp: 95756
Ion Ratio Lower Upper
83 100
85 68.4 51.8 77.8



#30
Cyclohexane
Concen: 0.068 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.01 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

Tgt Ion: 84 Resp: 9640
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 0.0 69.1 103.7#





#31

cis-1,2-Dichloroethene

Concen: 0.232 ppbv

RT: 5.56

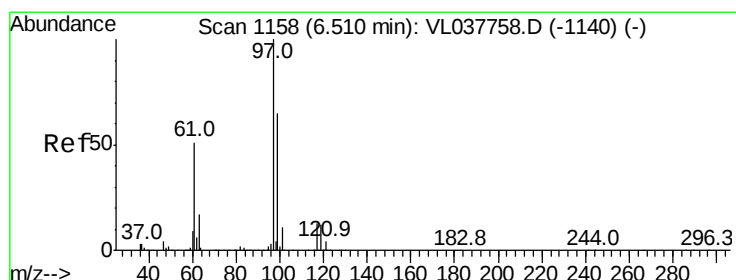
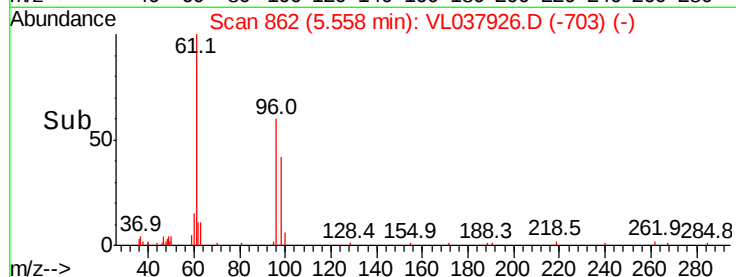
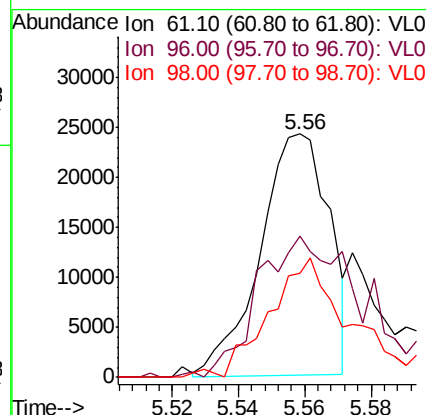
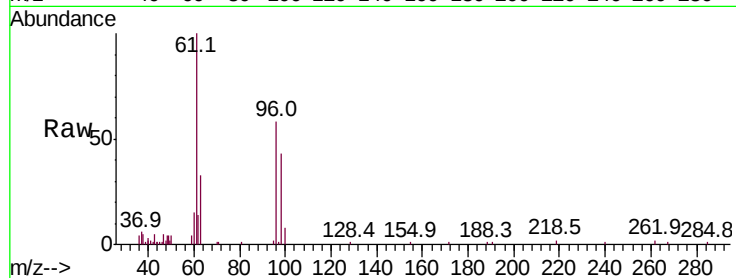
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion: 61 Resp: 35082

Ion	Ratio	Lower	Upper
61	100		
96	56.6	54.2	81.2
98	41.7	36.6	54.8



#32

1,1,1-Trichloroethane

Concen: 0.377 ppbv

RT: 6.52 min Scan# 1162

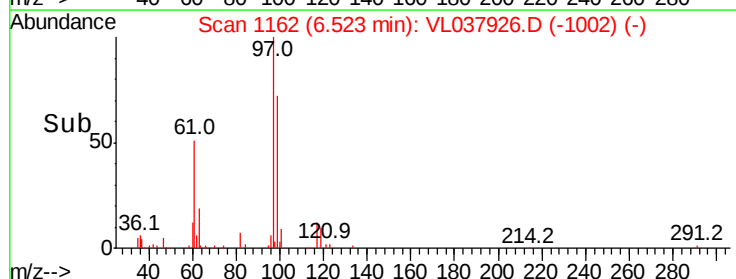
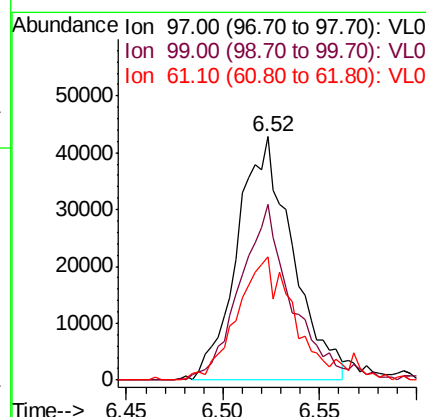
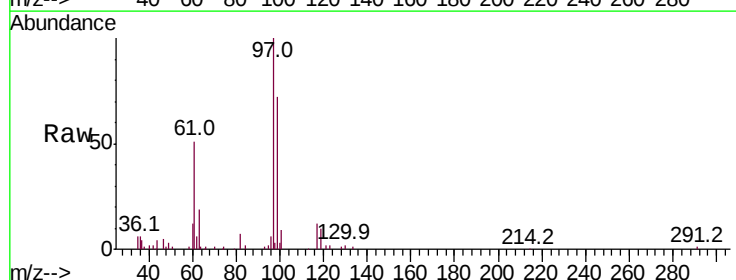
Delta R.T. 0.01 min

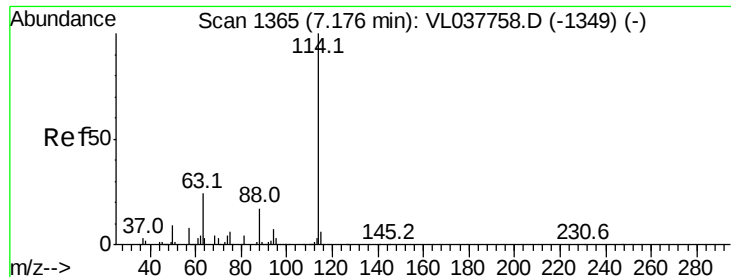
Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 97 Resp: 85146

Ion	Ratio	Lower	Upper
97	100		
99	68.6	52.6	78.8
61	55.4	40.2	60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Instrument: MSVOA_L

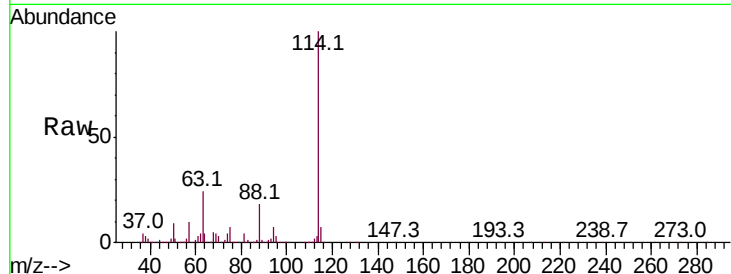
Delta R.T. ClientSampleId:

Lab File: LOD-MDL-AIR-01-QT4-2021

Acq: 27 Oct 2021 21:29

Tot Ion:114 Resp: 4001200

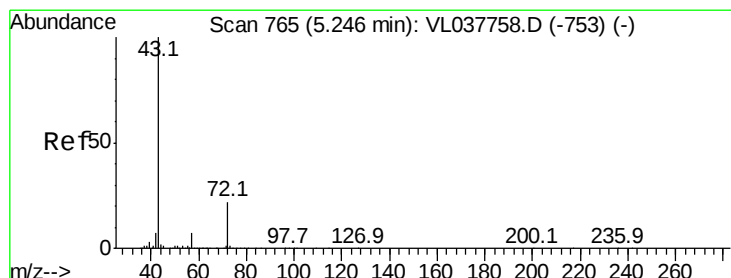
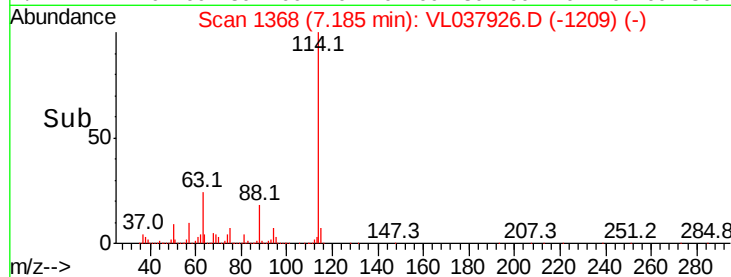
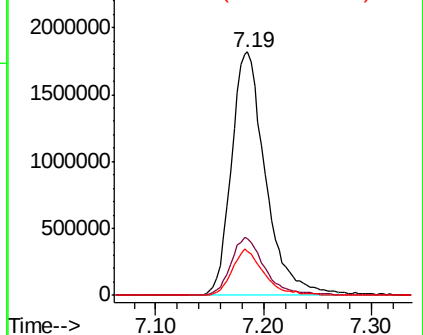
Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.4	29.2
88	17.9	14.4	21.6



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.246 ppbv

RT: 5.27 min Scan# 773

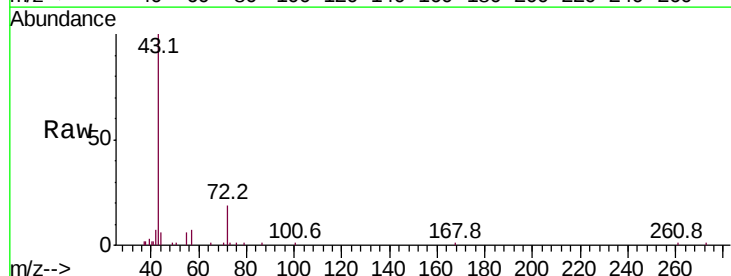
Delta R.T. 0.03 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

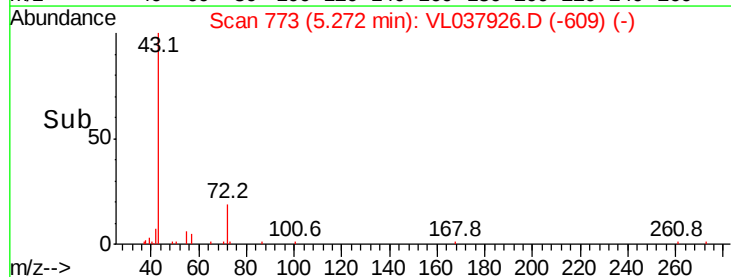
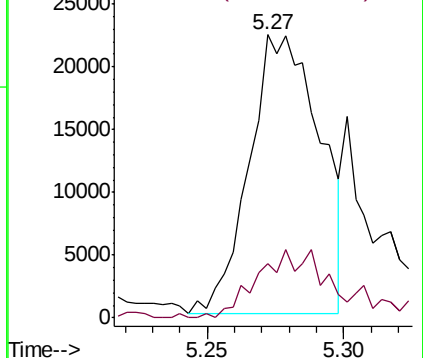
Tgt Ion: 43 Resp: 39758

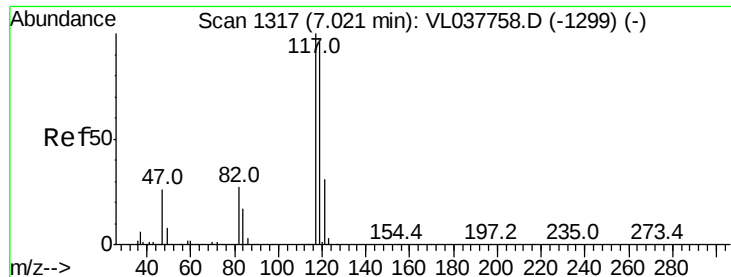
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

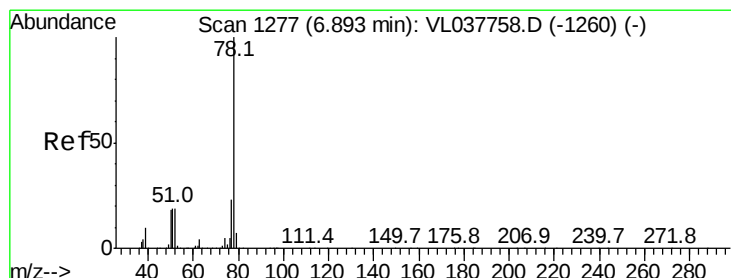
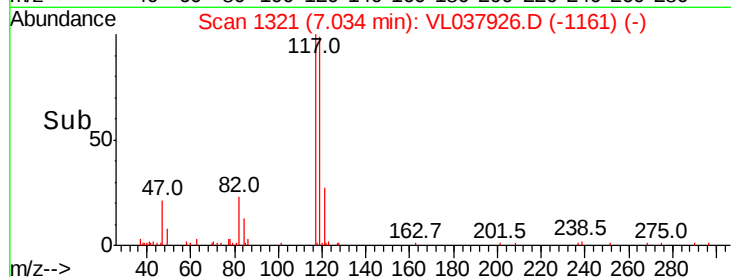
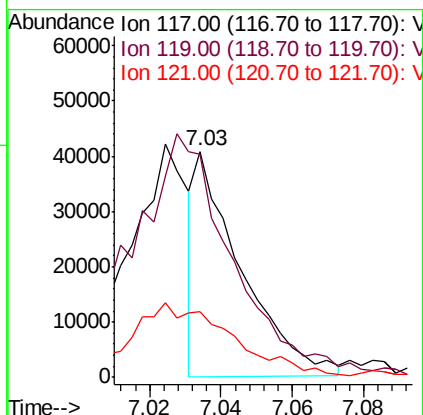
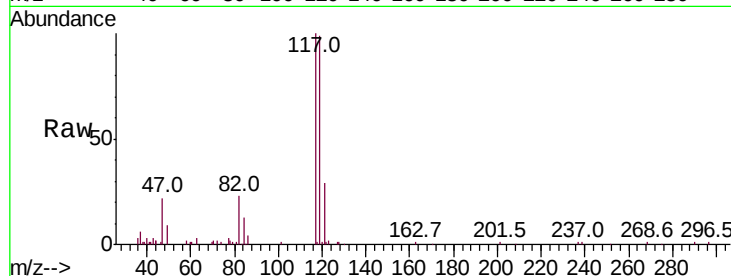
Ion 72.10 (71.80 to 72.80): VL0





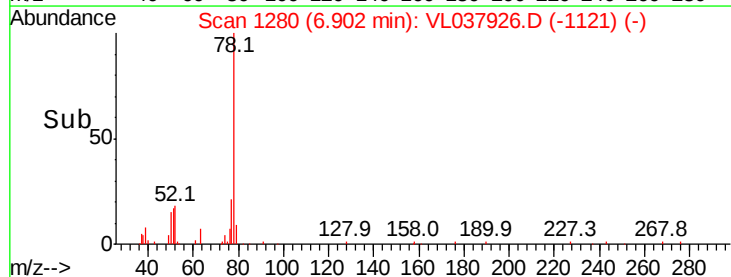
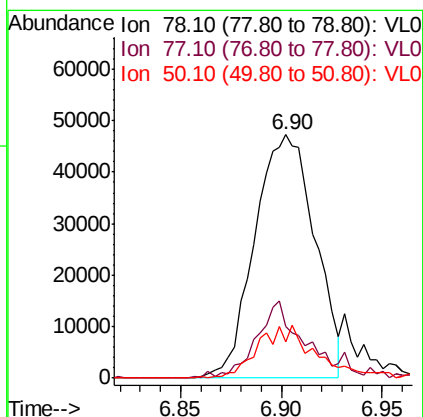
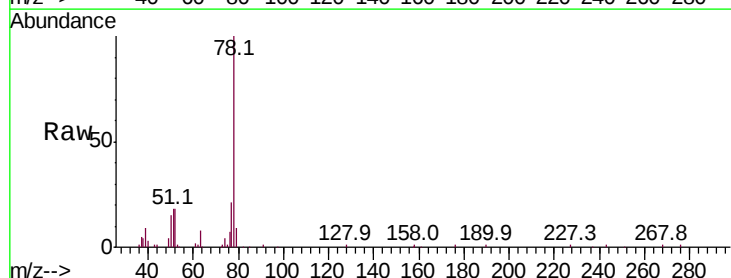
#35
Carbon Tetrachloride
Concen: 0.160 ppbv
RT: 7.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 21:29
LOD-MDL-AIR-01-QT4-2021

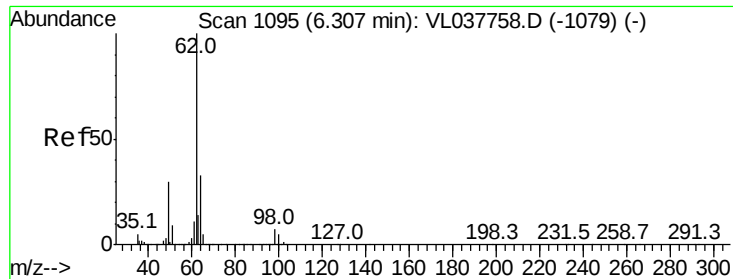
Tot Ion:117 Resp: 36442
Ion Ratio Lower Upper
117 100
119 99.3 76.5 114.7
121 29.2 24.9 37.3



#36
Benzene
Concen: 0.286 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. 0.01 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

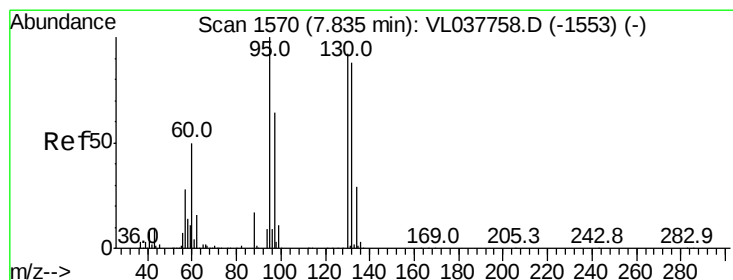
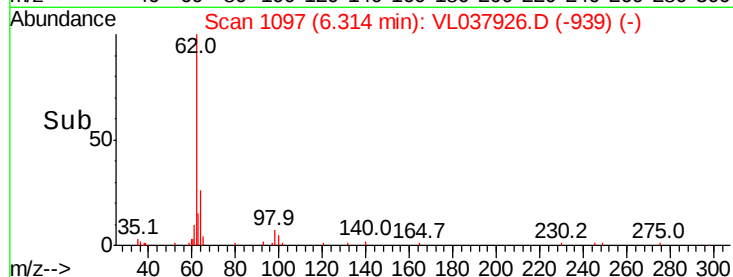
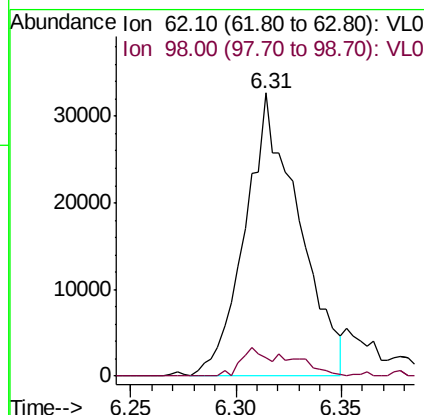
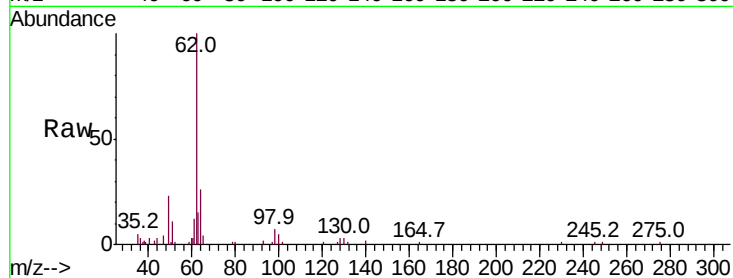
Tgt Ion: 78 Resp: 97838
Ion Ratio Lower Upper
78 100
77 20.8 18.8 28.2
50 14.7 14.7 22.1#





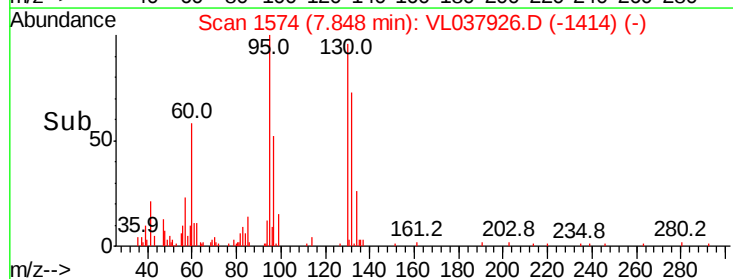
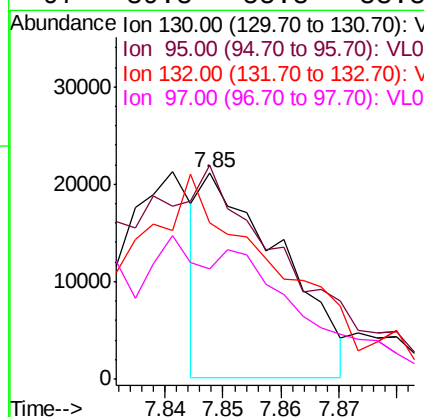
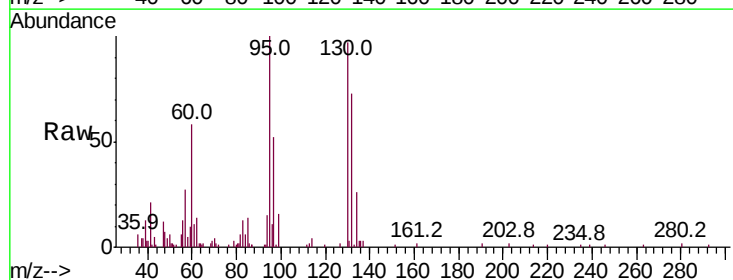
#37
 1,2-Dichloroethane
 Concen: 0.359 ppbv
 RT: 6.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021
 Acq: 27 Oct 2021 21:29

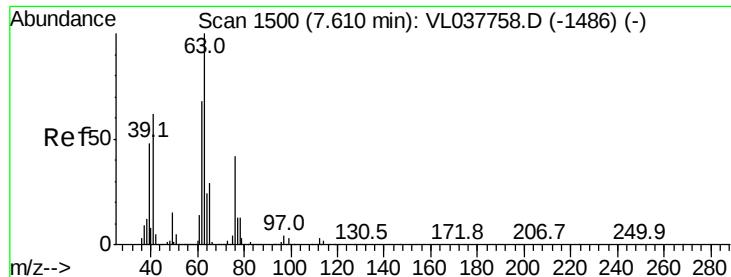
Tot Ion: 62 Resp: 57714
 Ion Ratio Lower Upper
 62 100
 98 9.6 6.1 9.1#



#38
 Trichloroethene
 Concen: 0.149 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

Tgt Ion: 130 Resp: 20059
 Ion Ratio Lower Upper
 130 100
 95 81.9 87.4 131.0#
 132 50.2 76.8 115.2#
 97 39.8 55.8 83.8#





#39

1,2-Dichloropropane

Concen: 0.082 ppbv

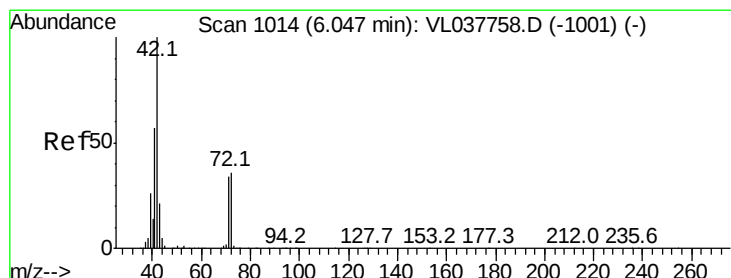
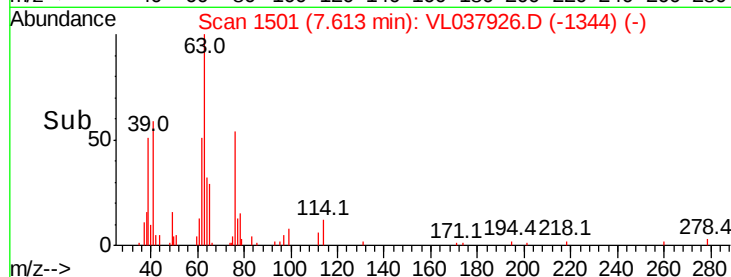
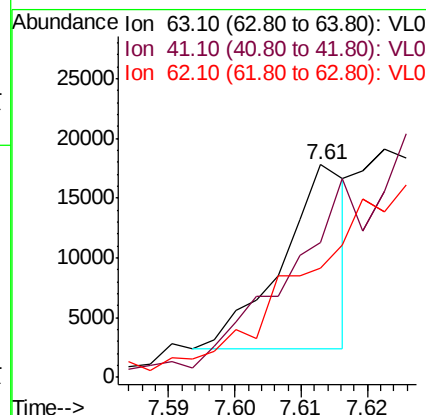
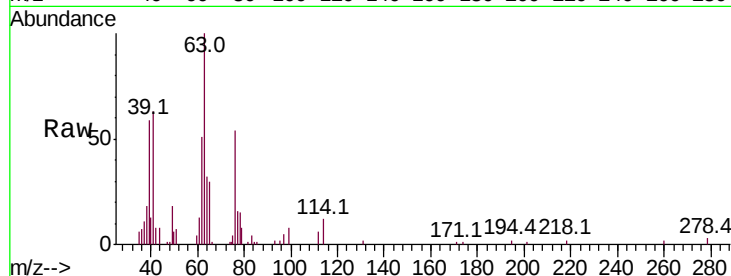
RT: 7.61

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion:	63	Resp:	10497
Ion	Ratio	Lower	Upper
63	100		
41	67.7	49.8	74.6
62	49.3	54.6	82.0#



#41

Tetrahydrofuran

Concen: 0.109 ppbv

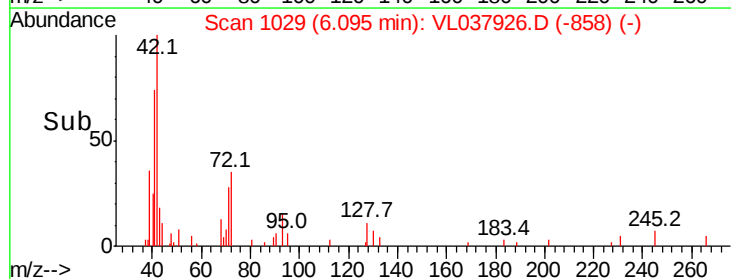
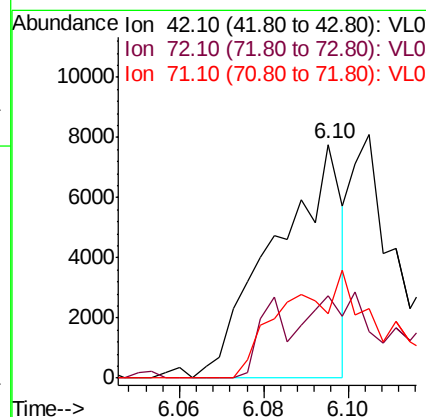
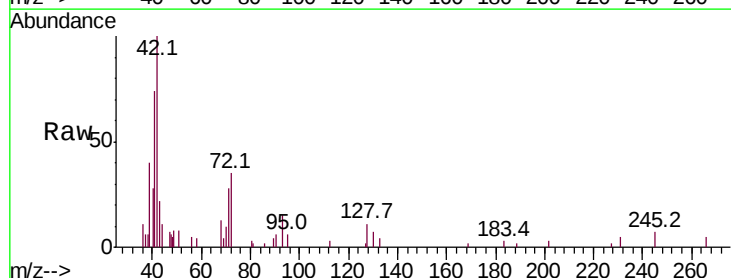
RT: 6.10 min Scan# 1029

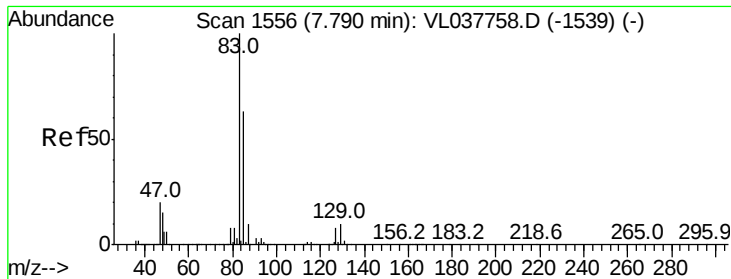
Delta R.T. 0.05 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion:	42	Resp:	8618
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.9	47.9#
71	0.0	30.3	45.5#





#42

Bromodichloromethane

Concen: 0.137 ppbv

RT: 7.81 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

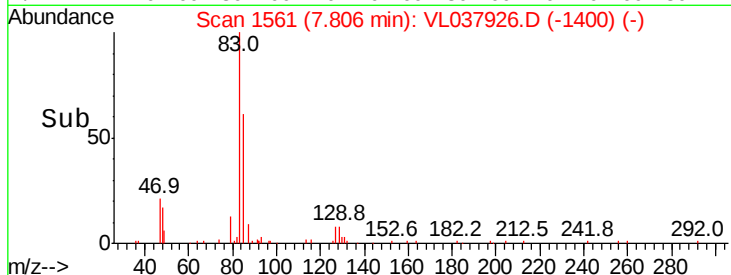
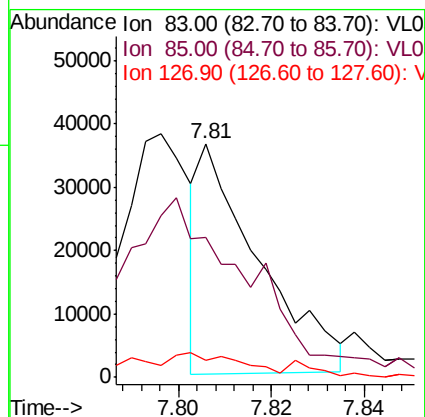
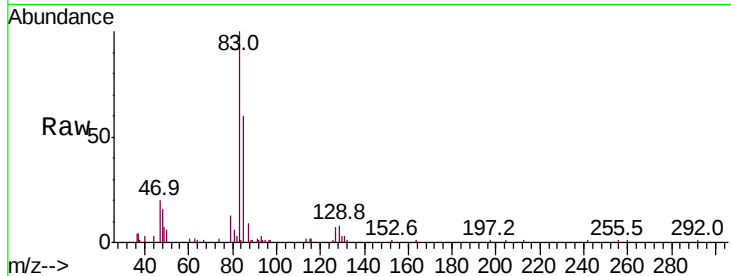
Tot Ion: 83 Resp: 32304

Ion Ratio Lower Upper

83 100

85 59.5 50.6 75.8

127 8.0 6.2 9.4



#43

Methyl Methacrylate

Concen: 0.216 ppbv

RT: 8.03 min Scan# 1631

Delta R.T. 0.02 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

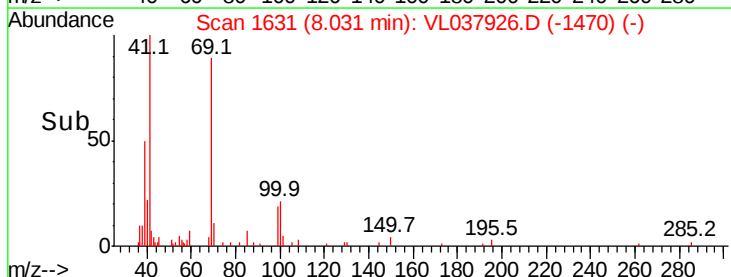
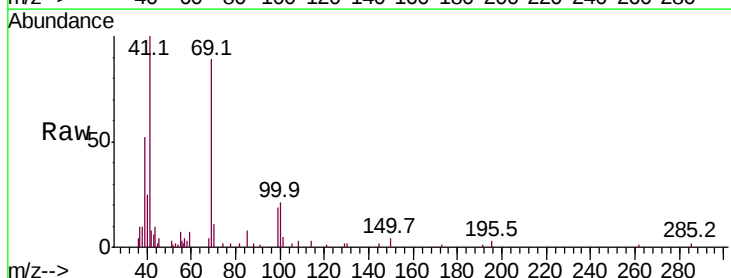
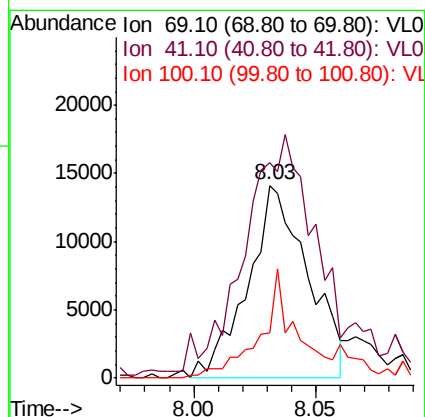
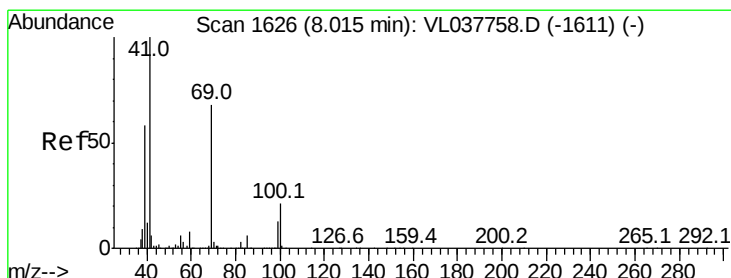
Tgt Ion: 69 Resp: 24121

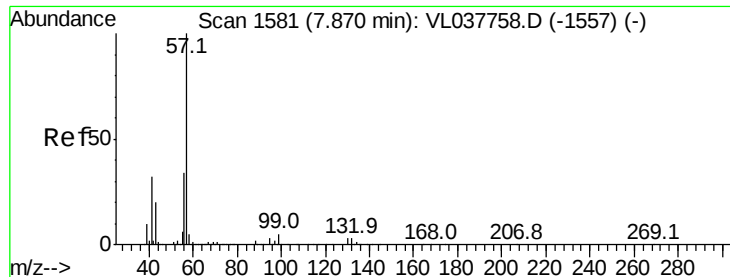
Ion Ratio Lower Upper

69 100

41 164.6 121.0 181.4

100 43.1 27.7 41.5#





#44

2,2,4-Trimethylpentane

Concen: 0.302 ppbv

RT: 7.88 Instrument:

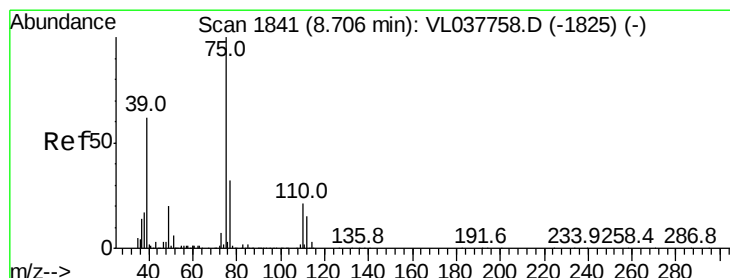
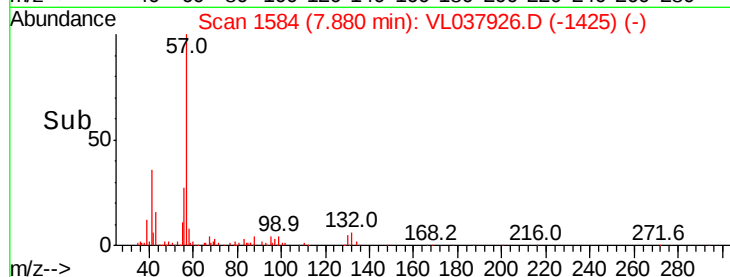
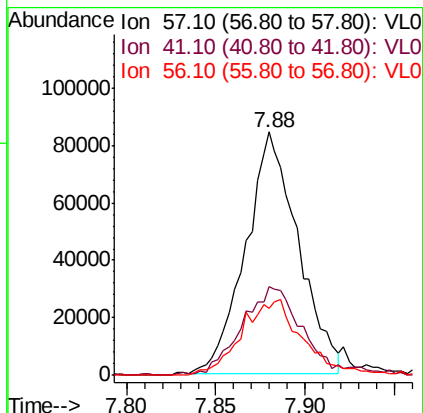
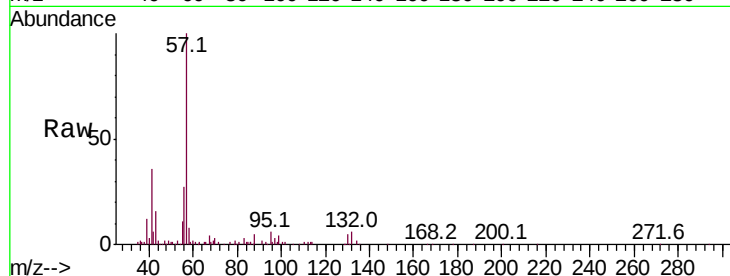
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29 LOD-MDL-AIR-01-QT4-2021

Tot Ion: 57 Resp: 173278

Ion	Ratio	Lower	Upper
57	100		
41	43.9	25.6	38.4#
56	37.0	25.5	38.3



#46

cis-1,3-Dichloropropene

Concen: 0.070 ppbv

RT: 8.72 min Scan# 1844

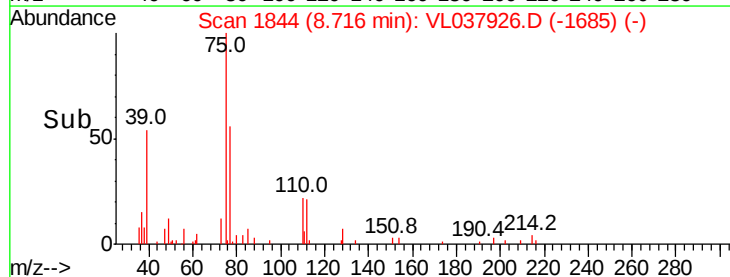
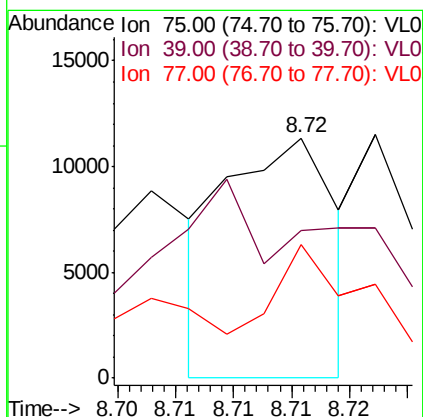
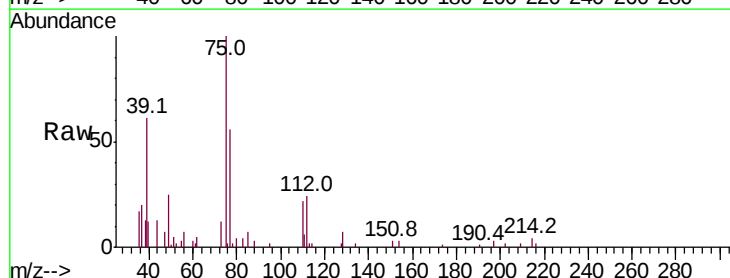
Delta R.T. 0.01 min

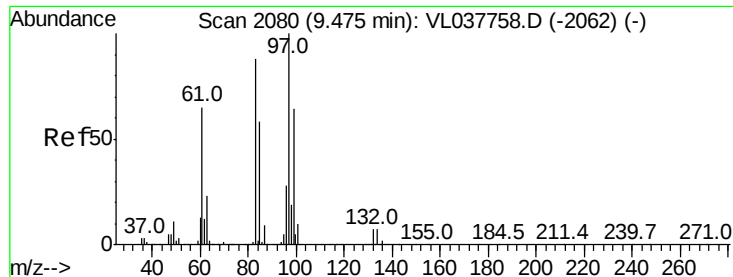
Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

Tgt Ion: 75 Resp: 7448

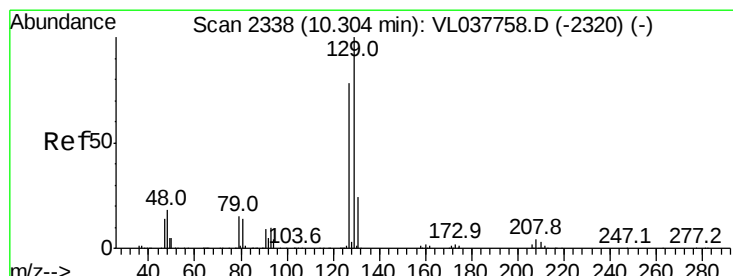
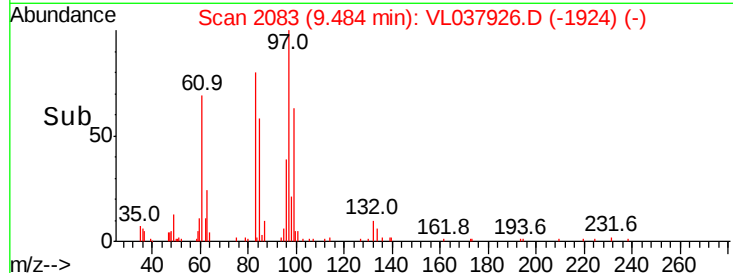
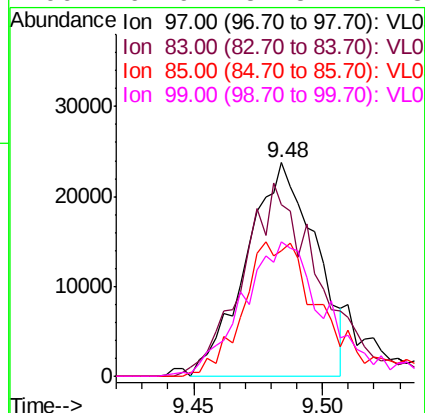
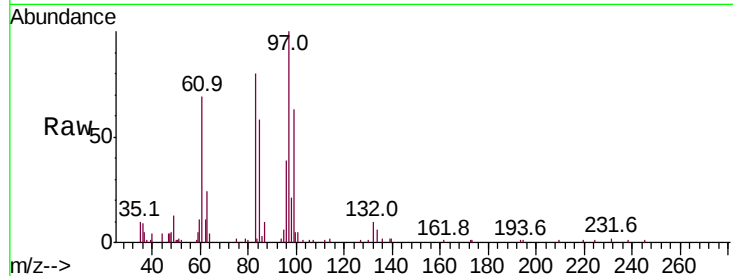
Ion	Ratio	Lower	Upper
75	100		
39	0.0	49.9	74.9#
77	79.6	25.9	38.9#





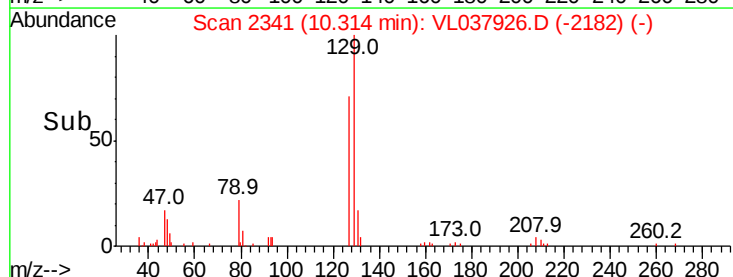
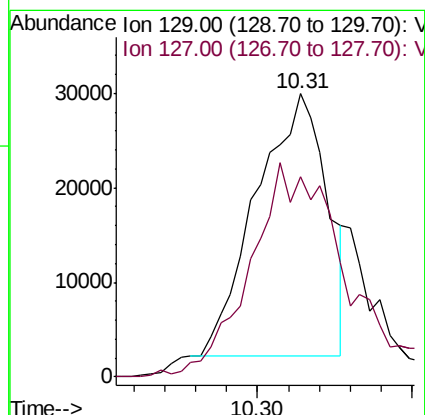
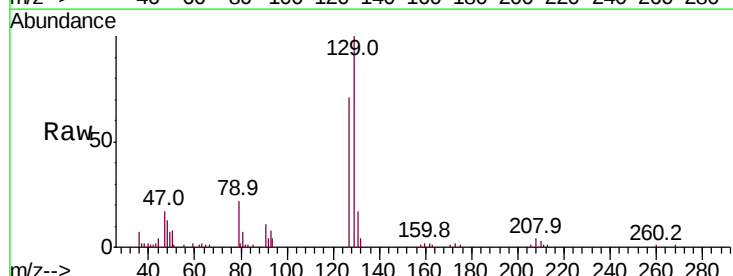
#47
 1,1,2-Trichloroethane
 Concen: 0.318 ppbv
 RT: 9.48
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId:
 Acq: 27 Oct 2021 21:29
 LOD-MDL-AIR-01-QT4-2021

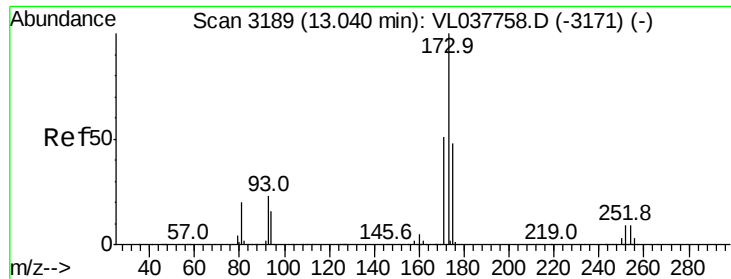
Tot Ion:	97	Resp:	44430
Ion	Ratio	Lower	Upper
97	100		
83	75.7	70.6	105.8
85	57.0	45.9	68.9
99	61.9	51.5	77.3



#48
 Dibromochloromethane
 Concen: 0.222 ppbv
 RT: 10.31 min Scan# 2341
 Delta R.T. 0.01 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

Tgt Ion:	129	Resp:	44167
Ion	Ratio	Lower	Upper
129	100		
127	116.0	39.5	118.5





#49

Bromoform

Concen: 0.301 ppbv

RT: 13.05

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

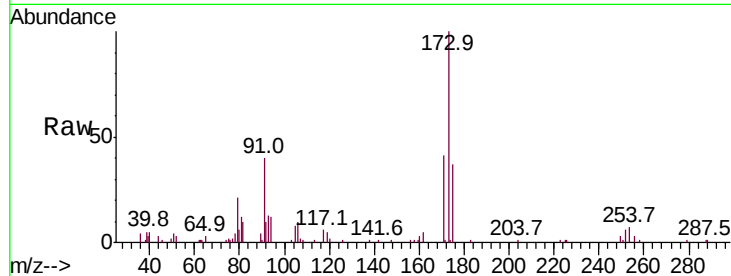
Tot Ion:173 Resp: 45922

Ion Ratio Lower Upper

173 100

175 49.9 39.9 59.9

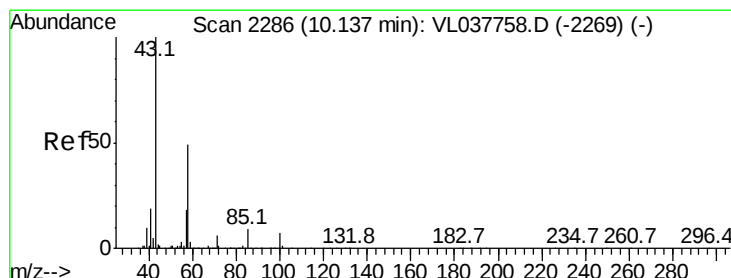
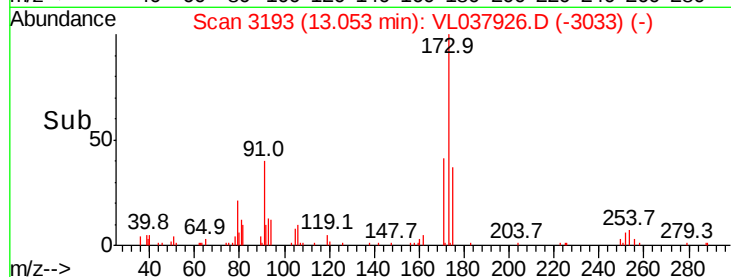
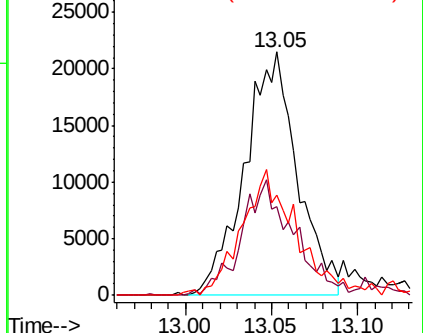
171 55.1 43.4 65.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#51

2-Hexanone

Concen: 0.034 ppbv

RT: 10.16 min Scan# 2293

Delta R.T. 0.02 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

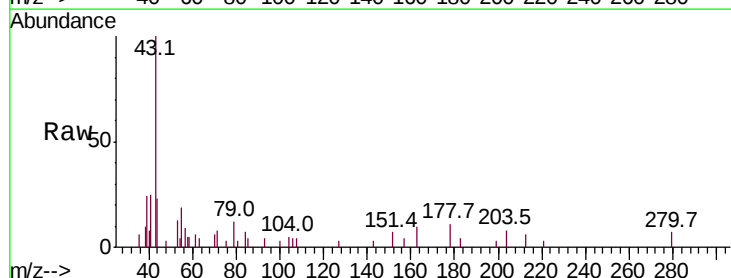
Tgt Ion: 43 Resp: 3234

Ion Ratio Lower Upper

43 100

58 0.0 39.4 59.0#

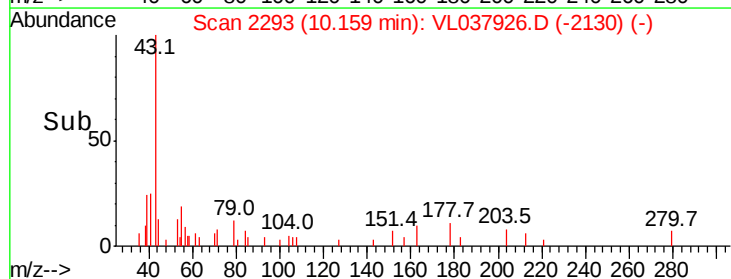
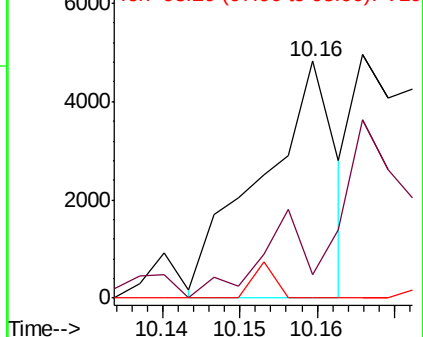
98 9.8 0.3 0.5#

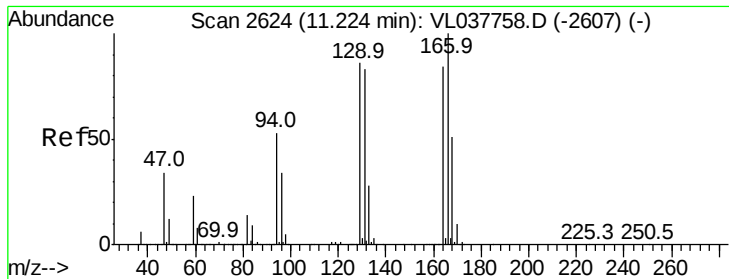


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 0.144 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion: 164 Resp: 19121

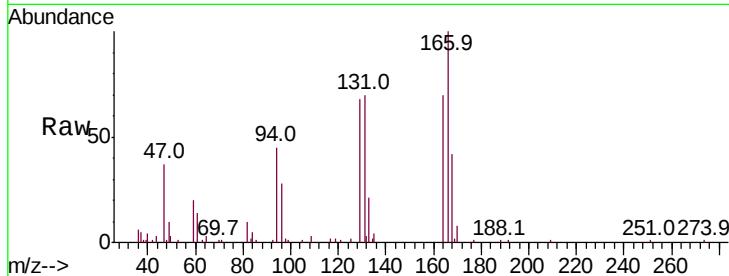
Ion Ratio Lower Upper

164 100

166 142.3 95.4 143.2

129 97.4 82.2 123.4

131 99.0 79.4 119.2

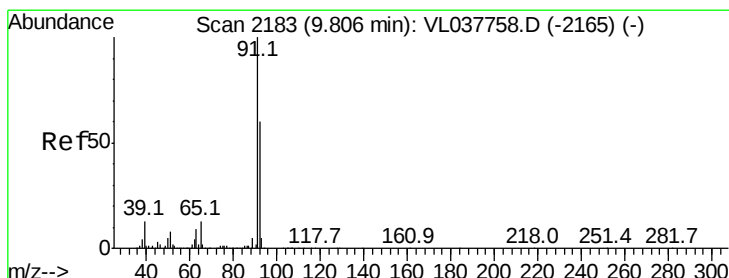
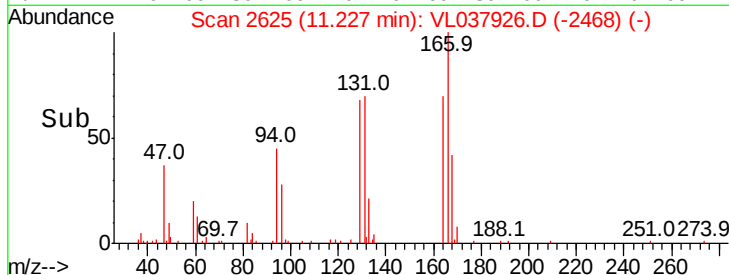
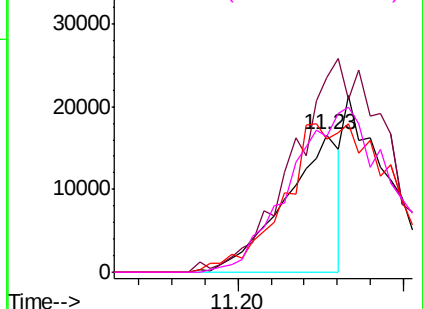


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.094 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.02 min

Lab File: VL037926.D

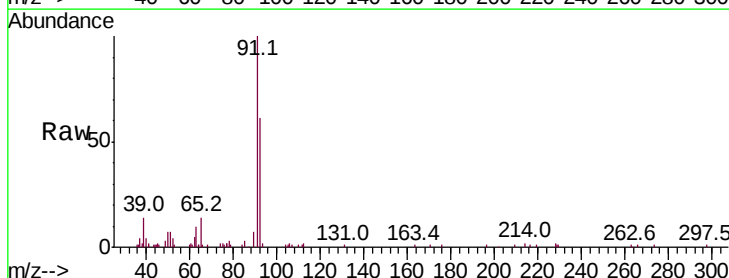
Acq: 27 Oct 2021 21:29

Tgt Ion: 91 Resp: 35471

Ion Ratio Lower Upper

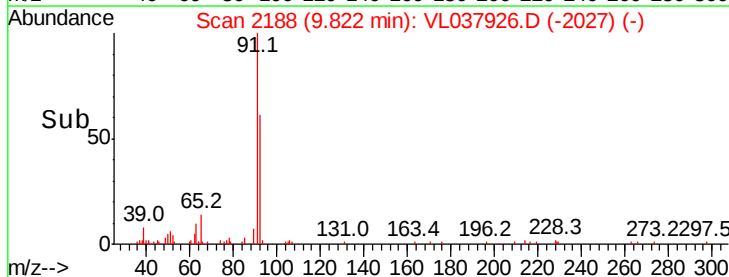
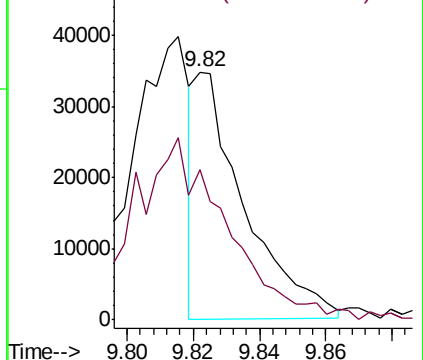
91 100

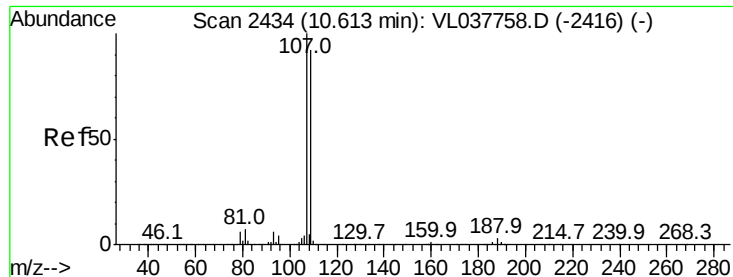
92 0.0 48.4 72.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

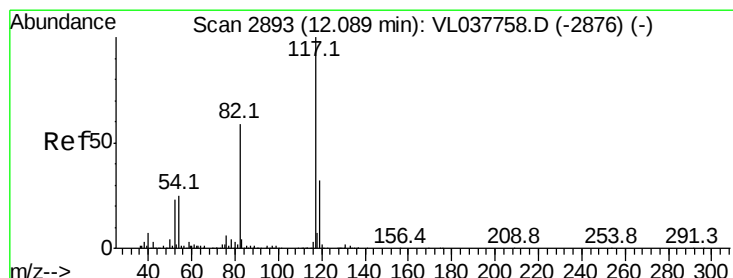
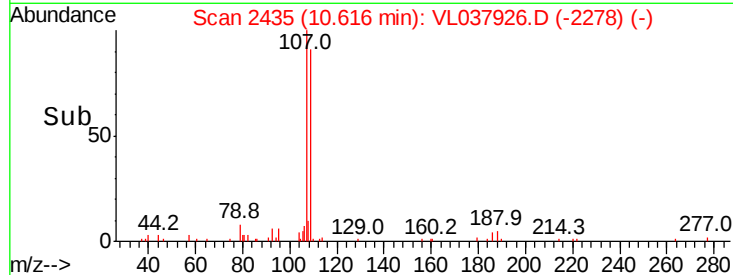
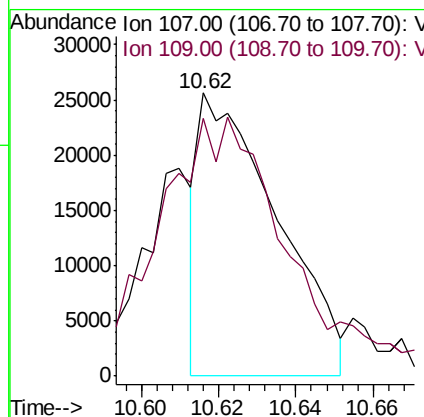
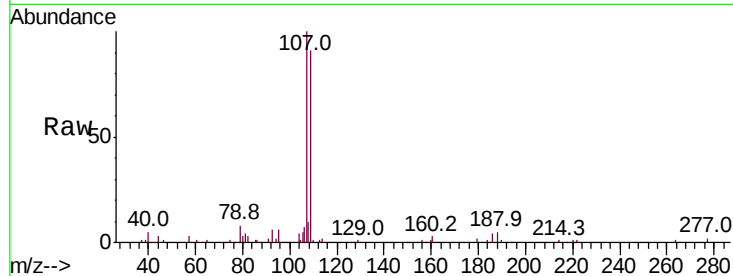
Ion 92.10 (91.80 to 92.80): VL0





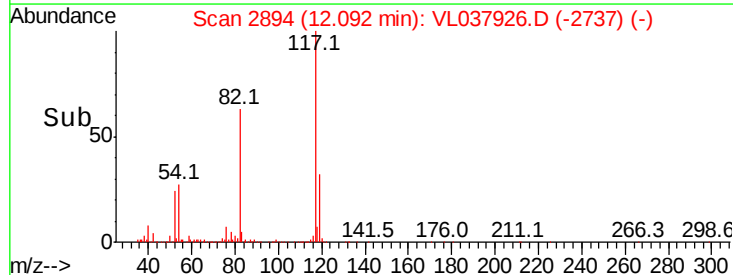
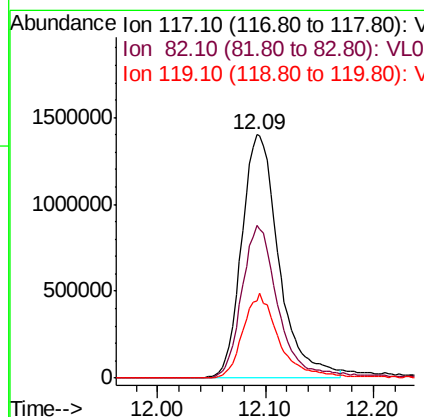
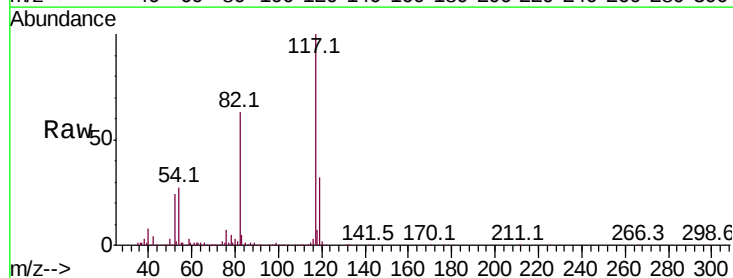
#54
 1,2-Dibromoethane
 Concen: 0.189 ppbv
 RT: 10.62 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021
 Acq: 27 Oct 2021 21:29

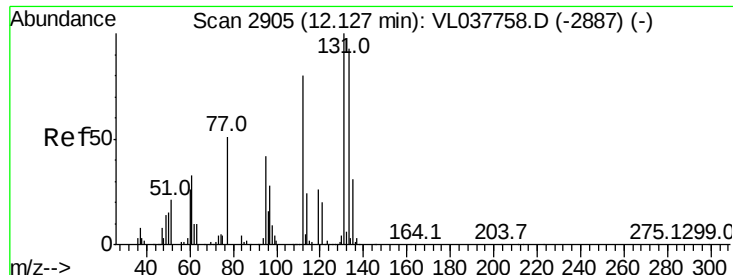
Tot Ion:107 Resp: 35734
 Ion Ratio Lower Upper
 107 100
 109 82.8 73.8 110.6



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.09 min Scan# 2894
 Delta R.T. 0.00 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

Tgt Ion:117 Resp: 3372868
 Ion Ratio Lower Upper
 117 100
 82 63.3 52.2 78.2
 119 34.5 26.0 39.0





#56

1,1,1,2-Tetrachloroethane

Concen: 0.425 ppbv

RT: 12.13

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

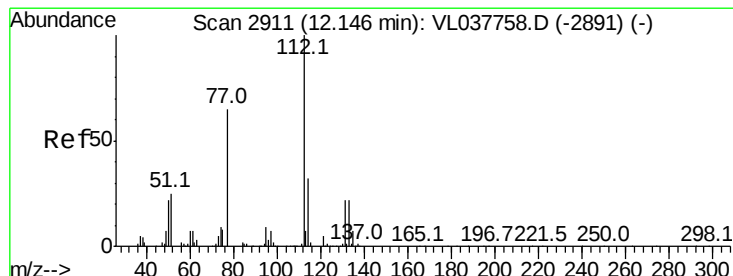
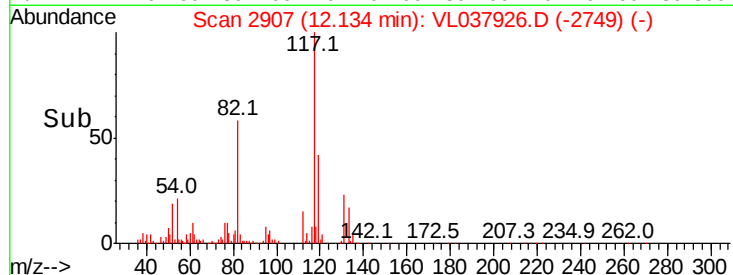
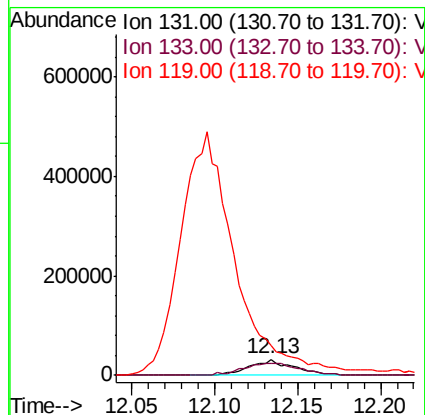
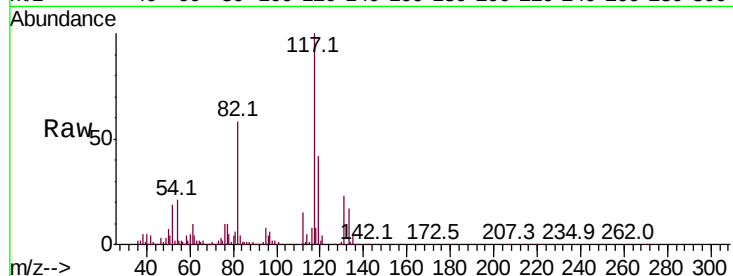
Tot Ion:131 Resp: 59352

Ion Ratio Lower Upper

131 100

133 102.1 78.5 117.7

119 1975.2 51.7 77.5#



#57

Chlorobenzene

Concen: 0.229 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. 0.00 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

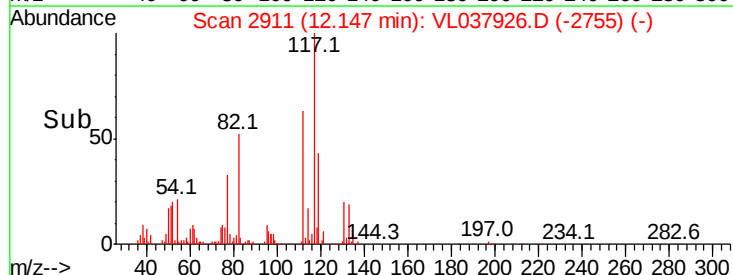
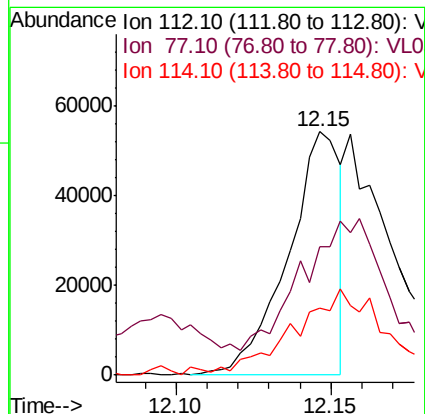
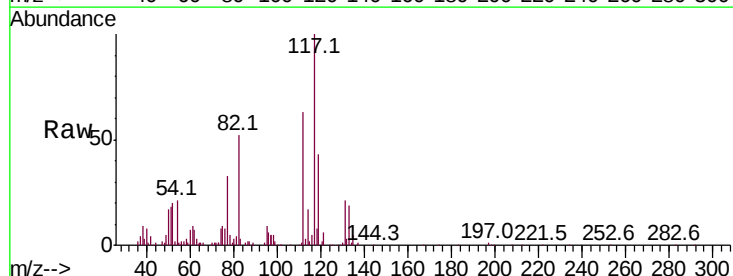
Tgt Ion:112 Resp: 63492

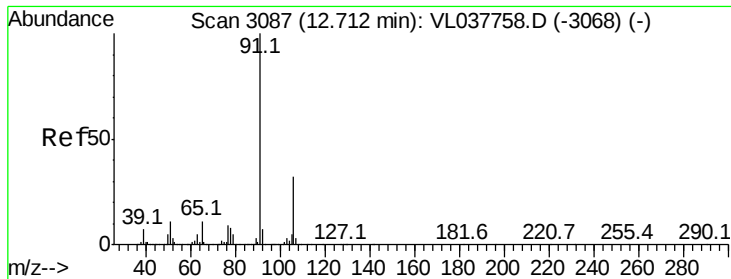
Ion Ratio Lower Upper

112 100

77 31.7 51.8 77.8#

114 24.2 28.8 35.2#





#58

Ethyl Benzene

Concen: 0.070 ppbv

RT: 13.01

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

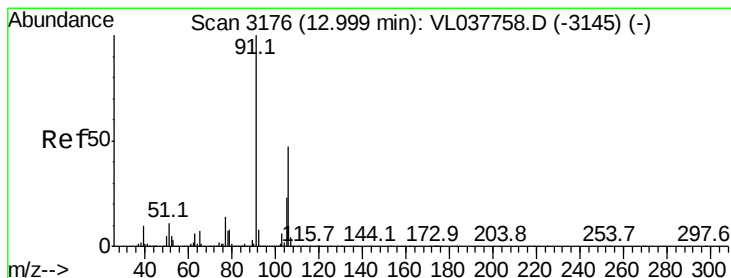
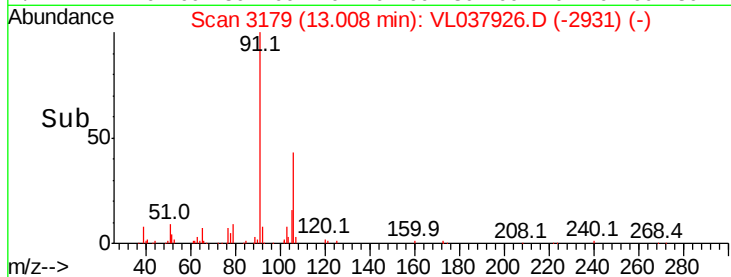
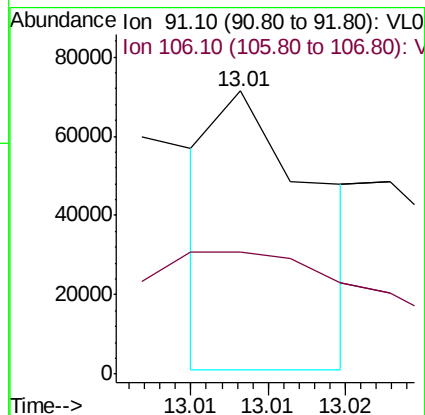
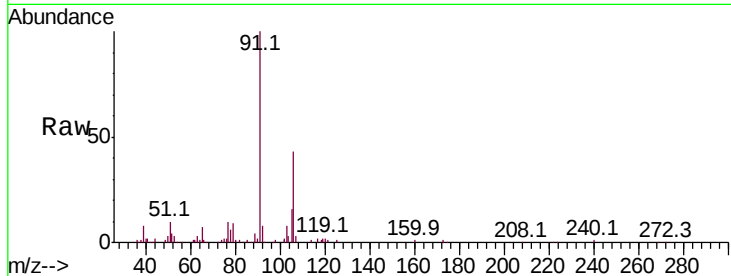
Acq: 27 Oct 2021 21:29

Tot Ion: 91 Resp: 31831

Ion Ratio Lower Upper

91 100

106 32.1 25.3 37.9



#59

m/p-Xylene

Concen: 0.086 ppbv

RT: 13.00 min Scan# 3176

Delta R.T. 0.00 min

Lab File: VL037926.D

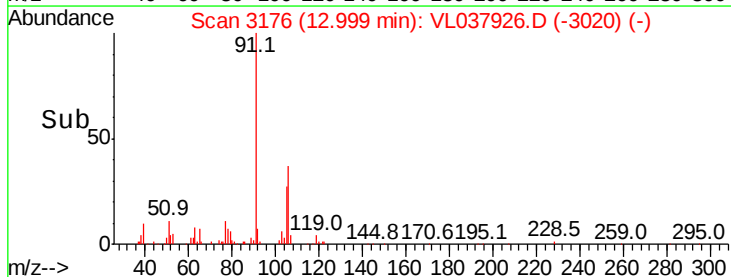
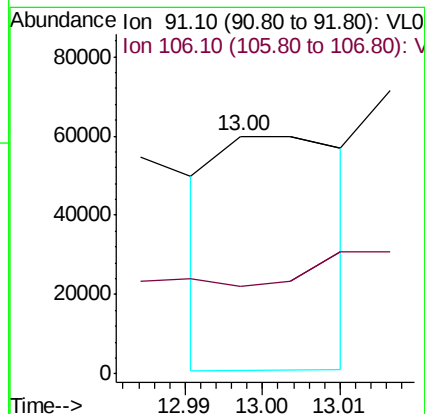
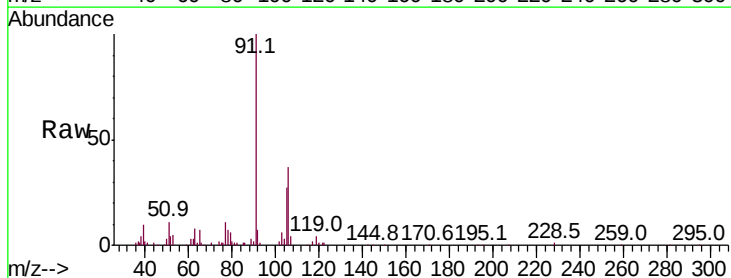
Acq: 27 Oct 2021 21:29

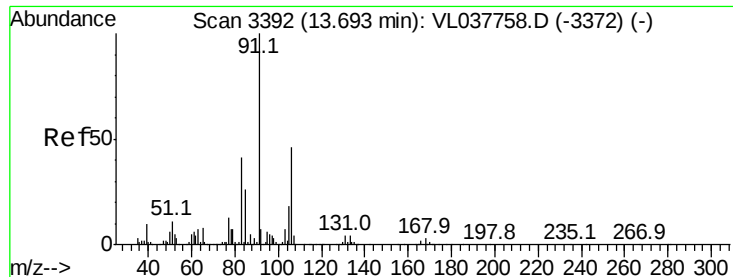
Tgt Ion: 91 Resp: 33501

Ion Ratio Lower Upper

91 100

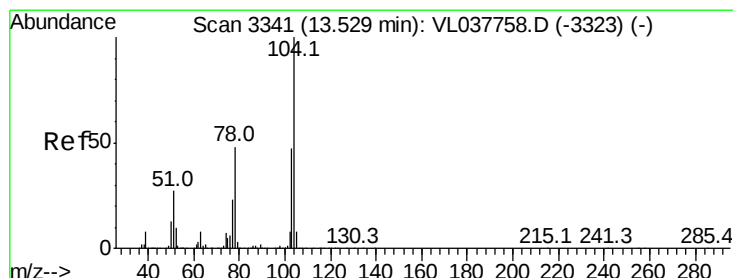
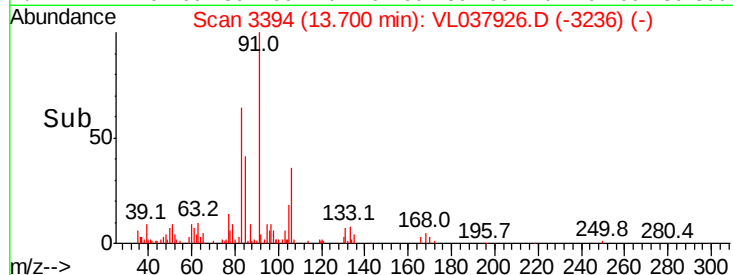
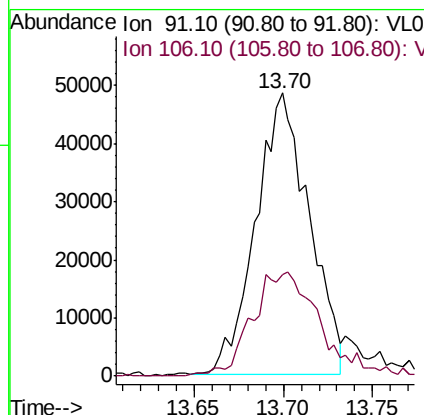
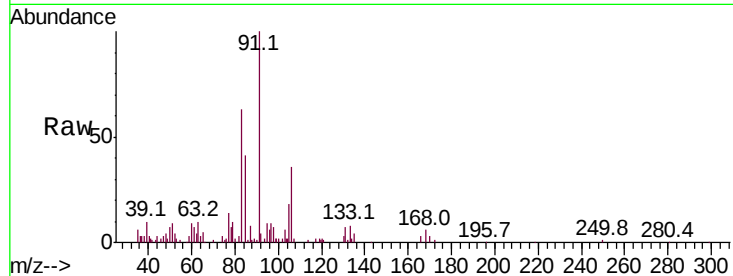
106 0.0 36.7 55.1#





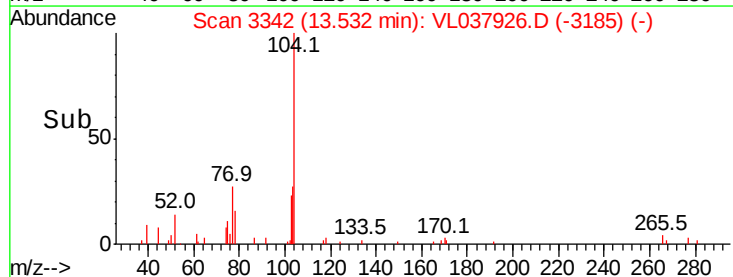
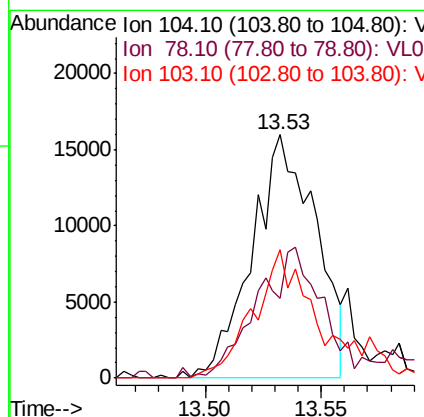
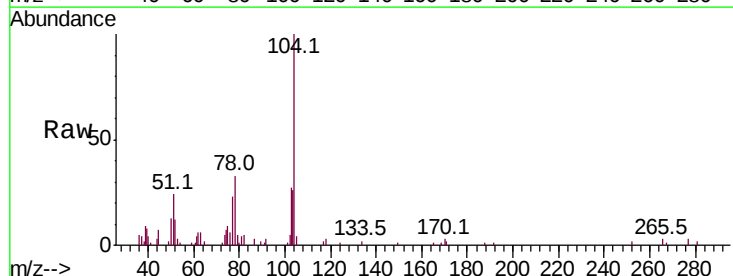
#60
o-Xylene
Concen: 0.273 ppbv
RT: 13.70 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 27 Oct 2021 21:29
LOD-MDL-AIR-01-QT4-2021

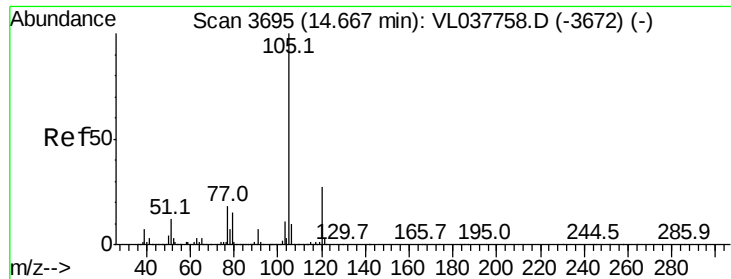
Tot Ion: 91 Resp: 101662
Ion Ratio Lower Upper
91 100
106 48.2 23.5 70.5



#61
Styrene
Concen: 0.169 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. 0.00 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

Tgt Ion: 104 Resp: 30540
Ion Ratio Lower Upper
104 100
78 56.4 40.6 61.0
103 60.3 39.6 59.4#





#62

Isopropylbenzene

Concen: 0.340 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

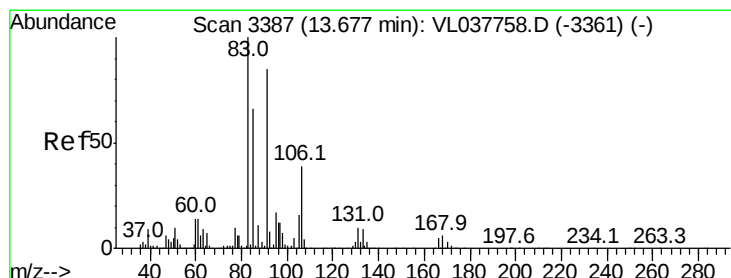
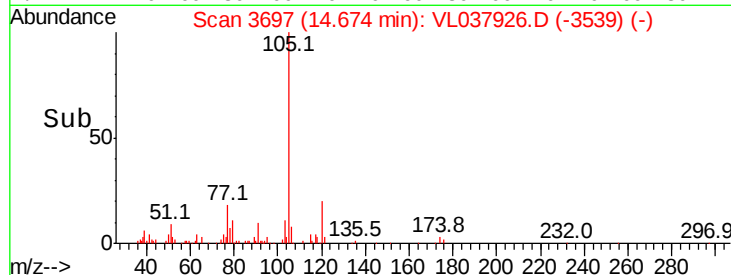
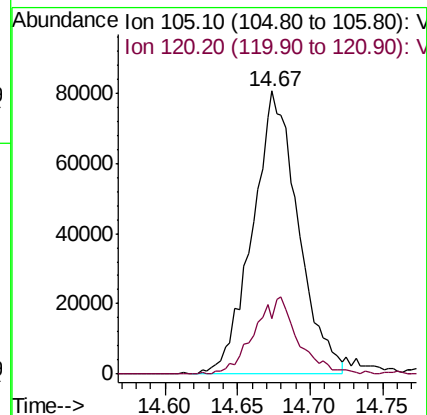
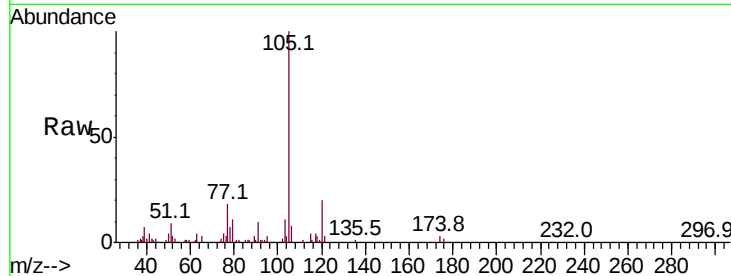
Acq: 27 Oct 2021 21:29

Tot Ion:105 Resp: 176744

Ion Ratio Lower Upper

105 100

120 26.3 21.3 31.9



#63

1,1,2,2-Tetrachloroethane

Concen: 0.380 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

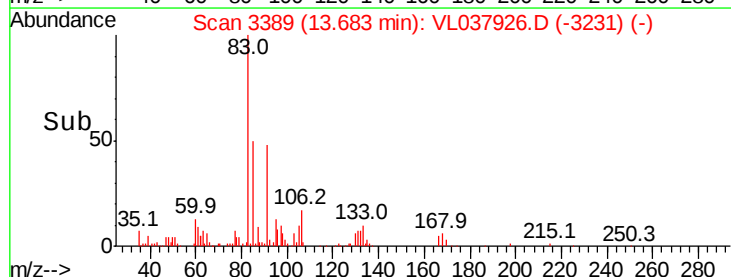
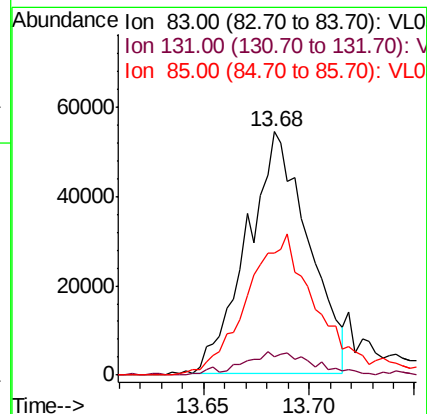
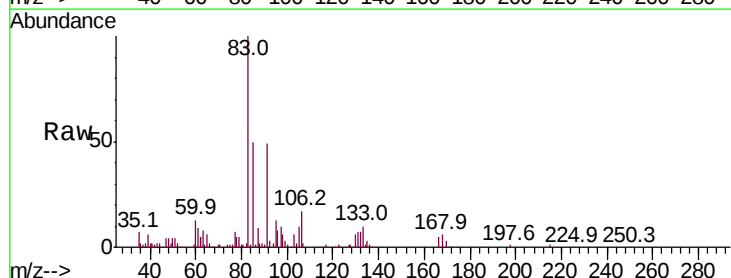
Tgt Ion: 83 Resp: 109340

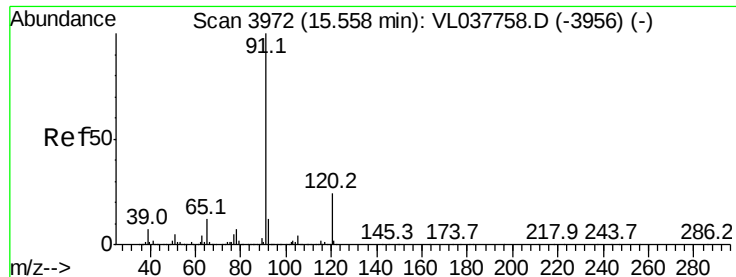
Ion Ratio Lower Upper

83 100

131 11.7 5.0 15.0

85 72.0 33.1 99.5





#64

n-propylbenzene

Concen: 0.150 ppbv

RT: 15.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

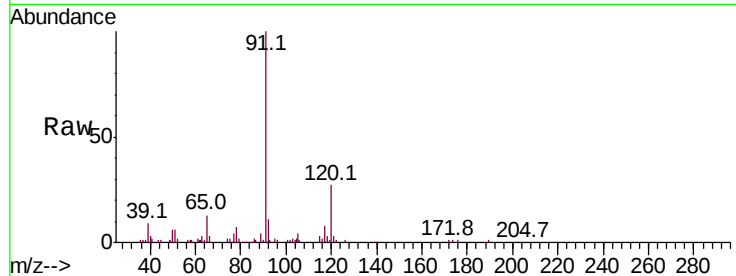
Acq: 27 Oct 2021 21:29

Tot Ion:120 Resp: 19478

Ion Ratio Lower Upper

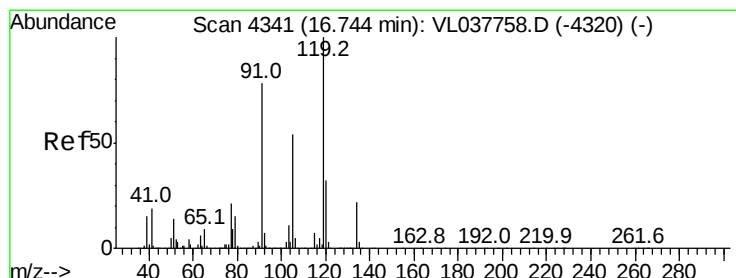
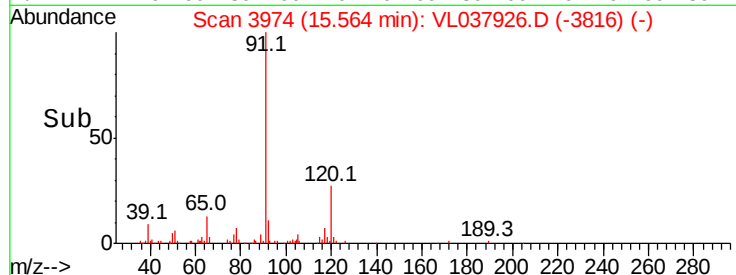
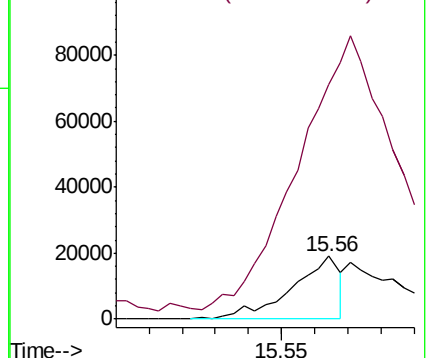
120 100

91 548.8 375.0 562.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.307 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

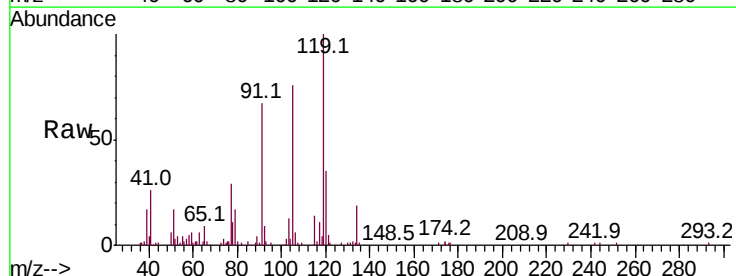
Tgt Ion:119 Resp: 140249

Ion Ratio Lower Upper

119 100

91 83.0 62.6 94.0

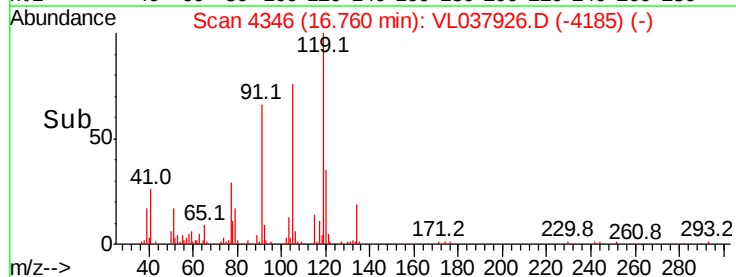
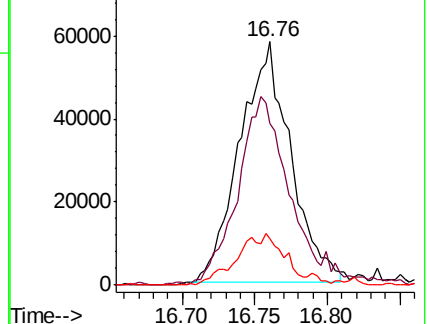
134 22.1 16.3 24.5

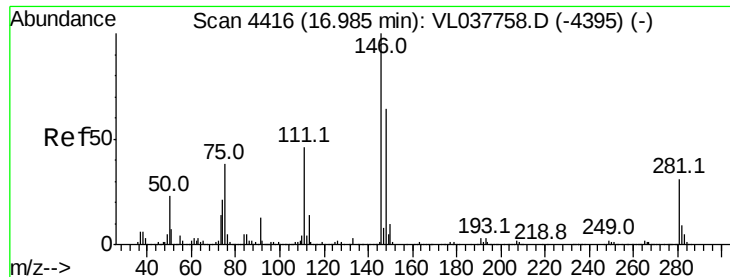


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

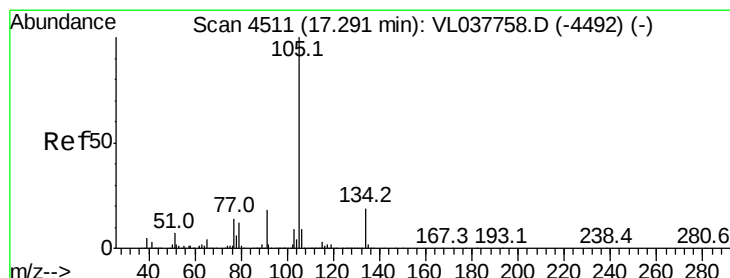
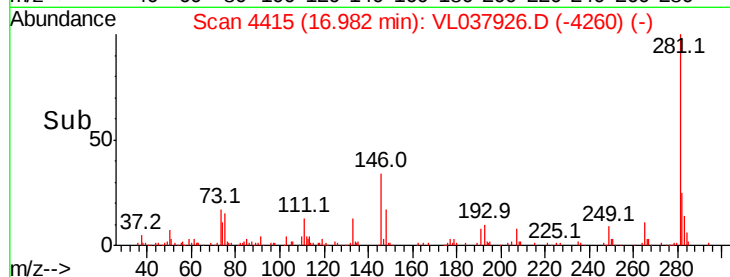
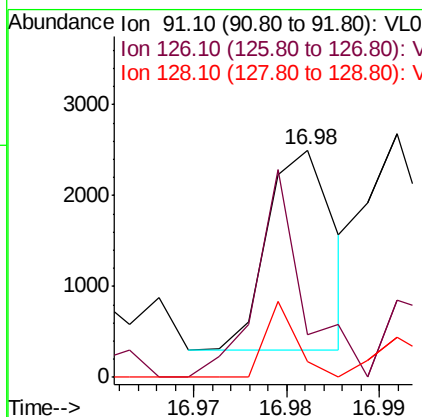
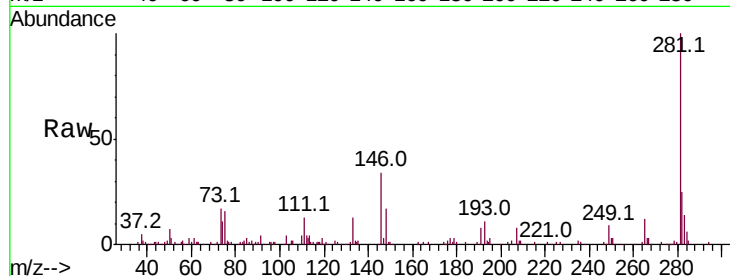
Ion 134.20 (133.90 to 134.90): V





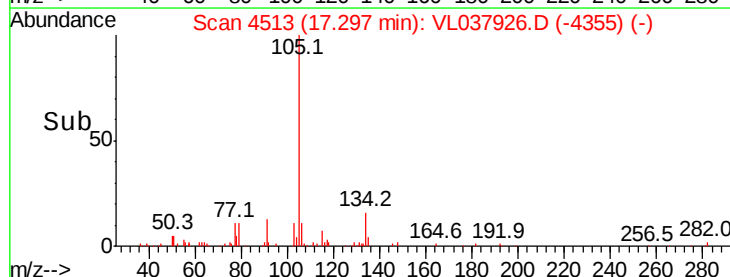
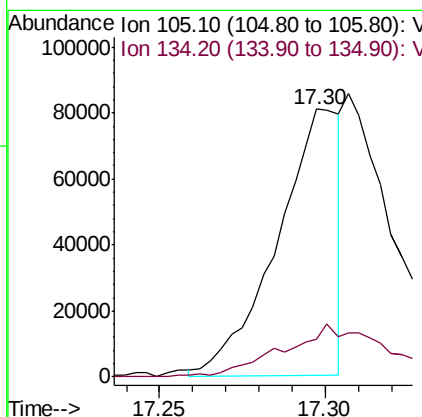
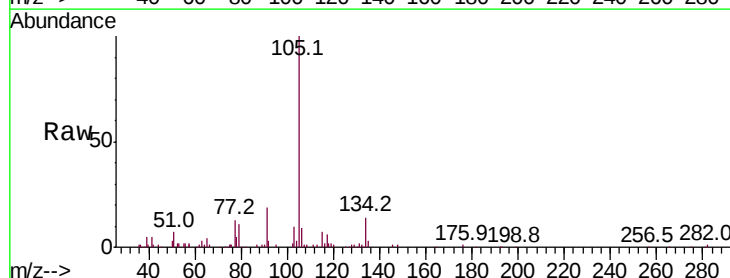
#66
Benzyl Chloride
Concen: 0.049 ppbv
RT: 16.98 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Oct 2021 21:29
LOD-MDL-AIR-01-QT4-2021

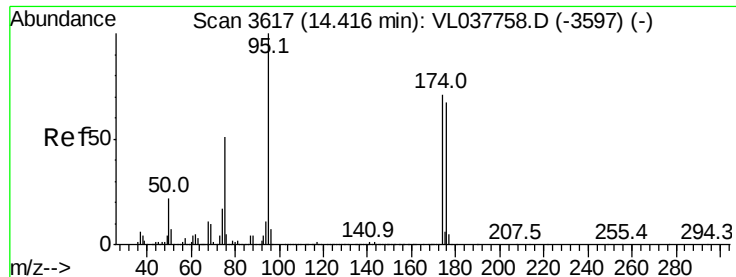
Tot Ion: 91 Resp: 1102
Ion Ratio Lower Upper
91 100
126 229.8 0.0 0.0#
128 94.0 5.3 7.9#



#67
sec-Butylbenzene
Concen: 0.169 ppbv
RT: 17.30 min Scan# 4513
Delta R.T.: 0.01 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

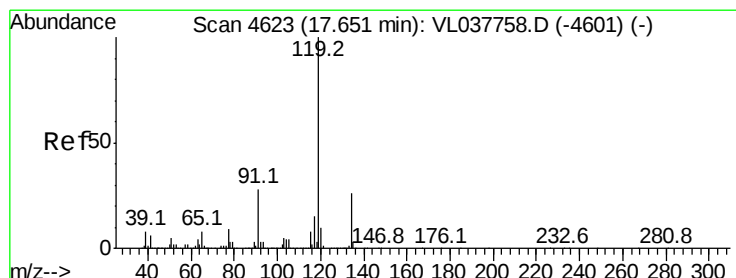
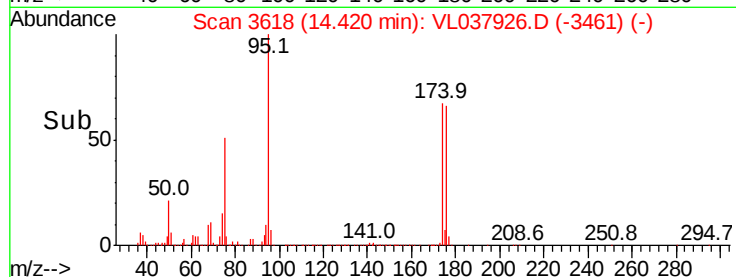
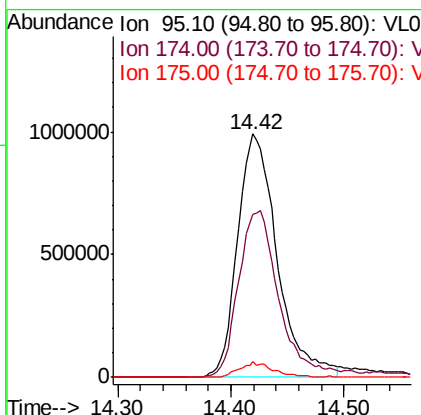
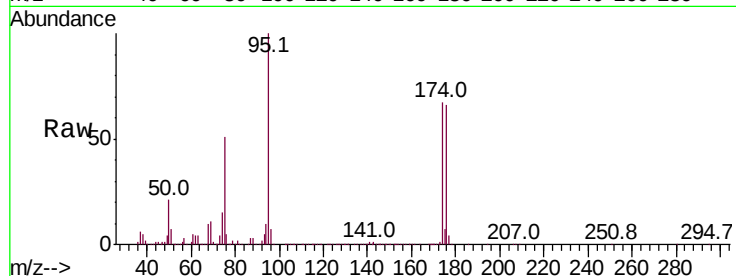
Tgt Ion: 105 Resp: 105863
Ion Ratio Lower Upper
105 100
134 34.5 15.4 23.0#





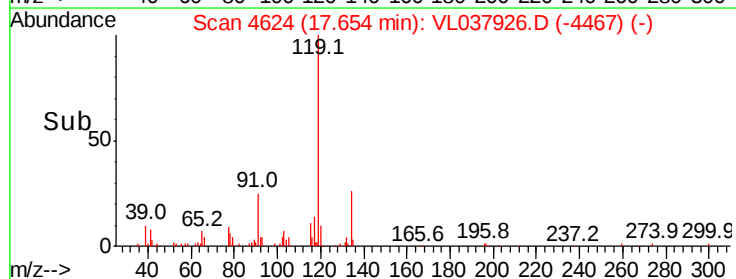
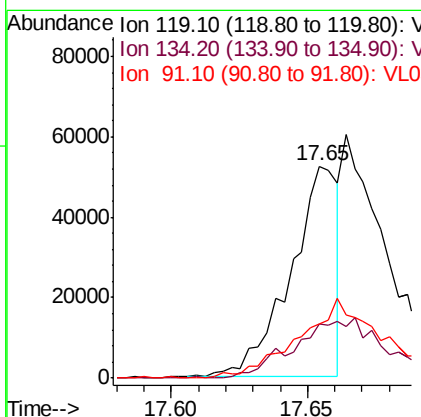
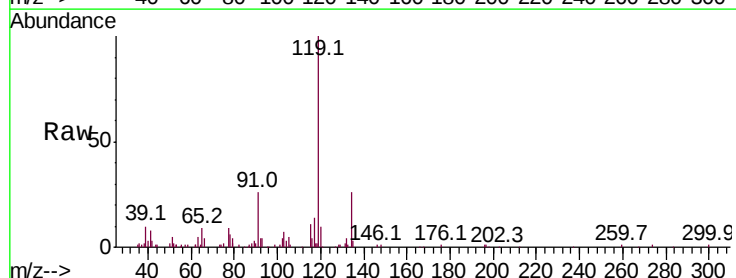
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.273 ppbv
 RT: 14.42 min
 Delta R.T.: 0.00 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

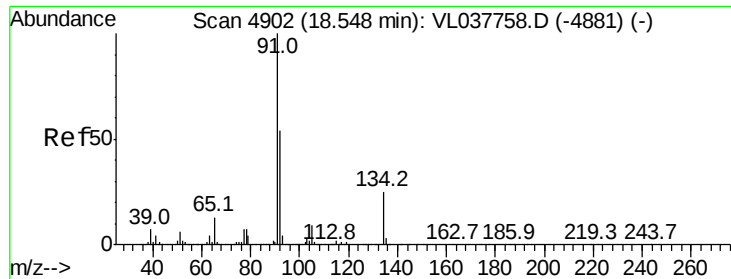
Tot Ion: 95 Resp: 2423016
 Ion Ratio Lower Upper
 95 100
 174 73.5 57.8 86.6
 175 5.5 4.7 7.1



#69
 p-Isopropyltoluene
 Concen: 0.125 ppbv
 RT: 17.65 min Scan# 4624
 Delta R.T.: 0.00 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

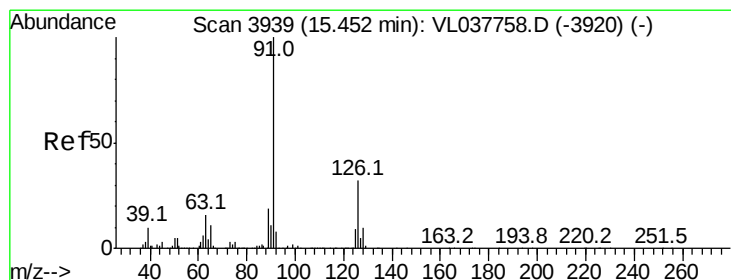
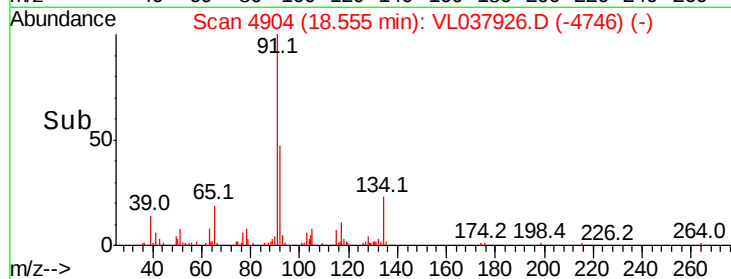
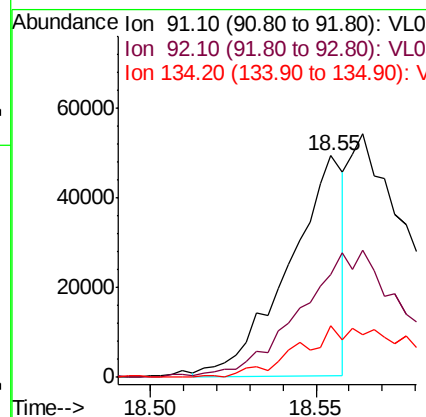
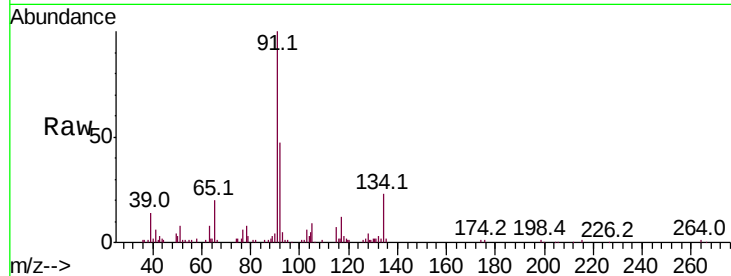
Tgt Ion: 119 Resp: 63241
 Ion Ratio Lower Upper
 119 100
 134 0.0 21.2 31.8#
 91 0.0 22.2 33.4#





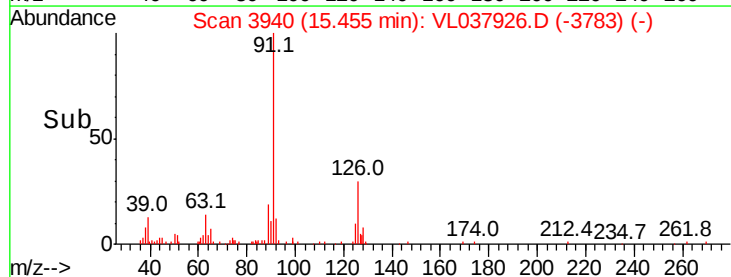
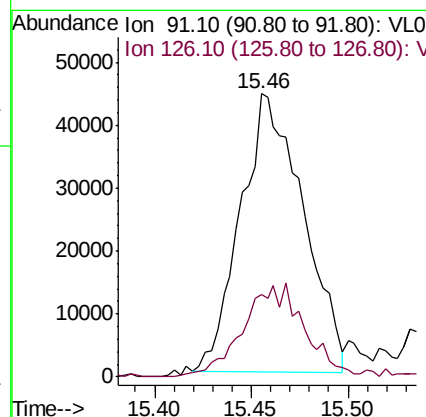
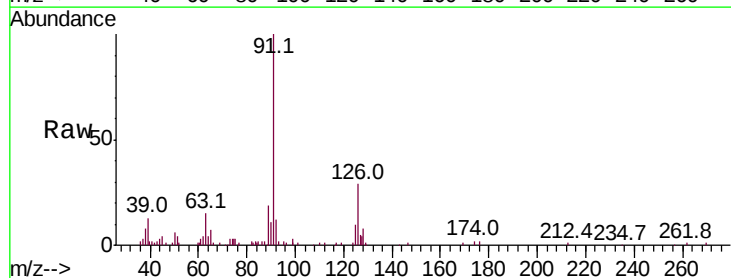
#70
n-Butylbenzene
Concen: 0.118 ppbv
RT: 18.55 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId:
Acq: 27 Oct 2021 21:29
LOD-MDL-AIR-01-QT4-2021

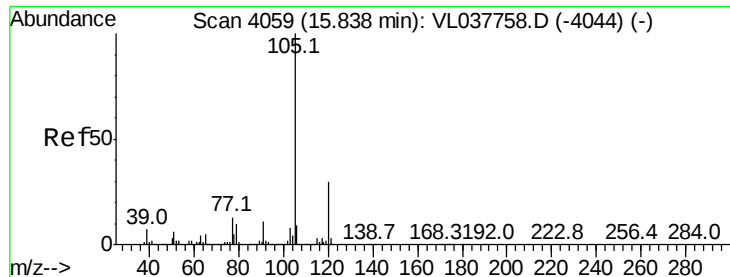
Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.4	65.0#
134	48.6	19.8	29.6#



#71
2-Chlorotoluene
Concen: 0.272 ppbv
RT: 15.46 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL037926.D
Acq: 27 Oct 2021 21:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.8	13.6	54.6





#72

4-Ethyltoluene

Concen: 0.233 ppbv

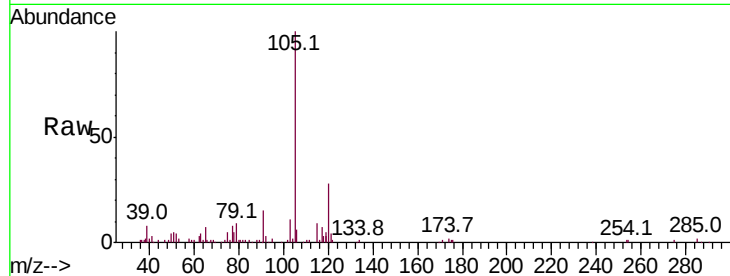
RT: 15.85

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion:	105	Resp:	98725
Ion	Ratio	Lower	Upper
105	100		
120	34.7	24.2	36.2
91	17.0	10.4	15.6#
77	17.9	10.3	15.5#

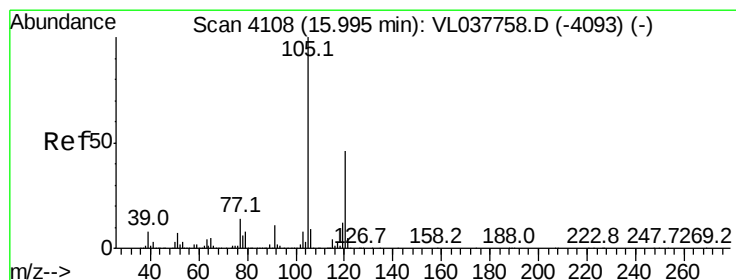
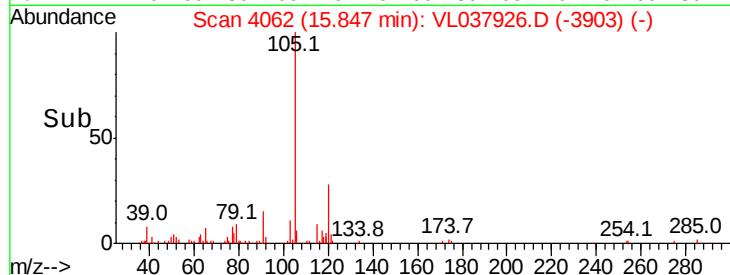
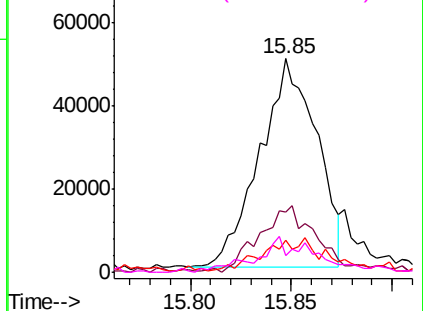


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.098 ppbv

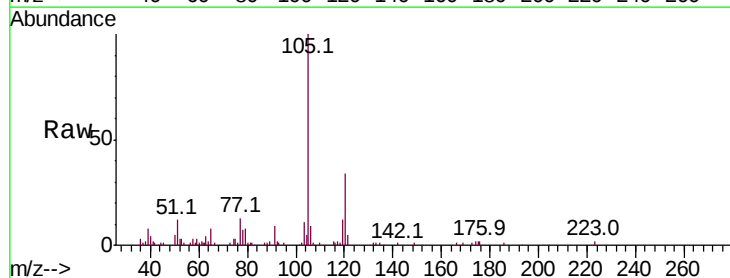
RT: 16.00 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VL037926.D

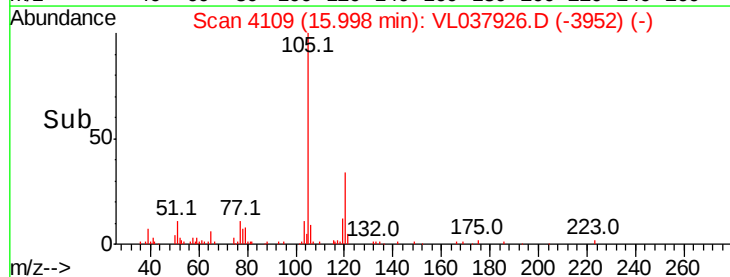
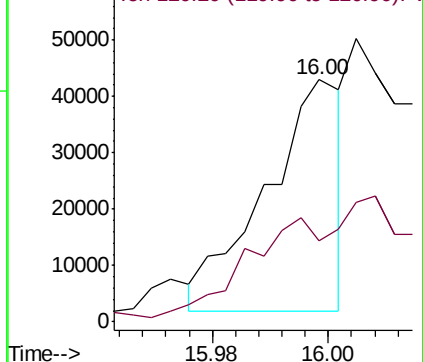
Acq: 27 Oct 2021 21:29

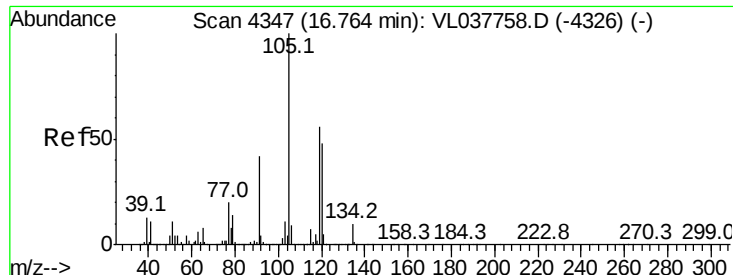
Tgt Ion:	105	Resp:	37821
Ion	Ratio	Lower	Upper
105	100		
120	31.6	36.6	54.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.319 ppbv

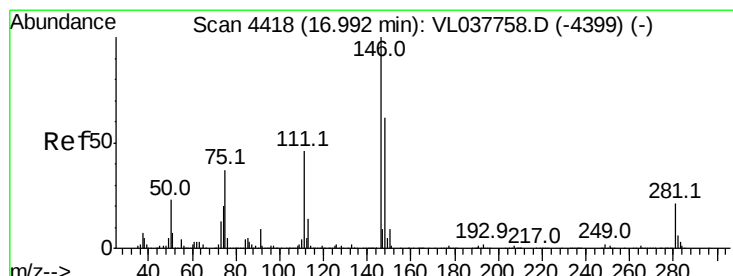
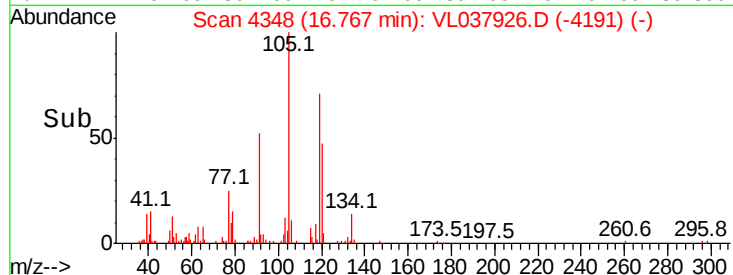
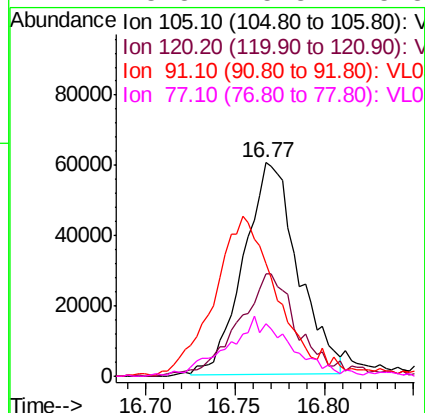
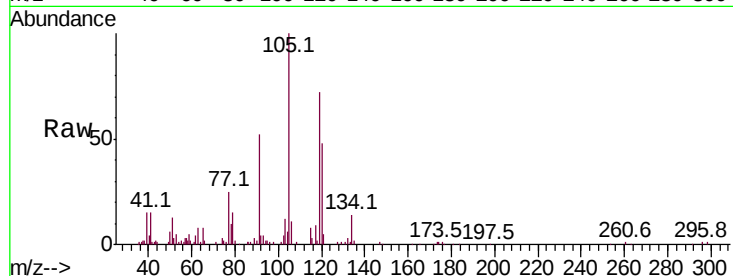
RT: 16.77

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

Tot Ion:	105	Resp:	128627
Ion	Ratio	Lower	Upper
105	100		
120	45.5	38.4	57.6
91	48.2	34.2	51.2
77	23.8	15.8	23.8



#75

1,3-Dichlorobenzene

Concen: 0.222 ppbv

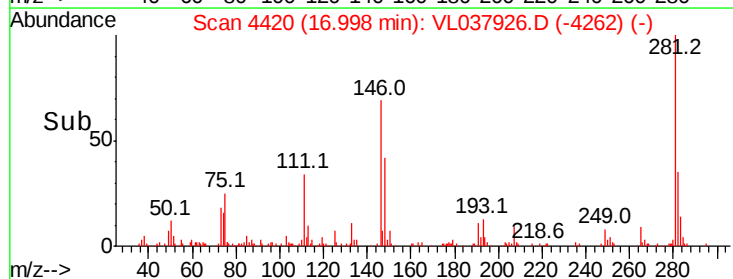
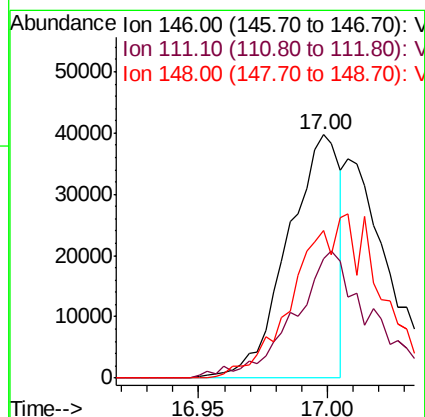
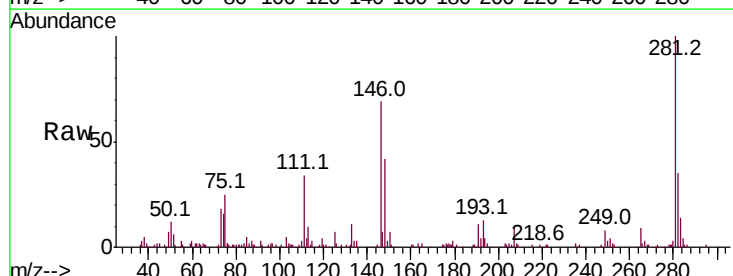
RT: 17.00 min Scan# 4420

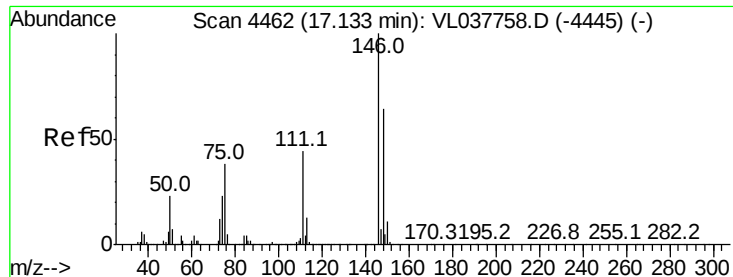
Delta R.T. 0.01 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

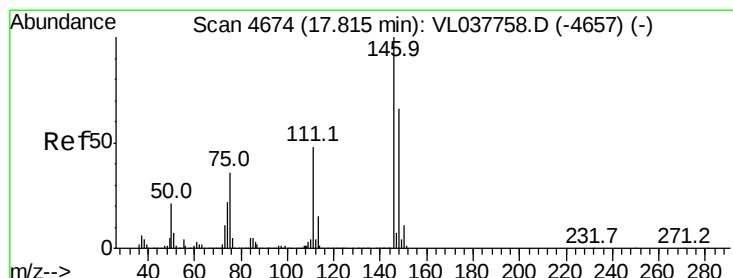
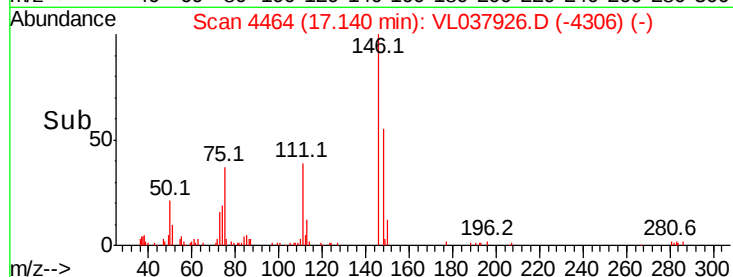
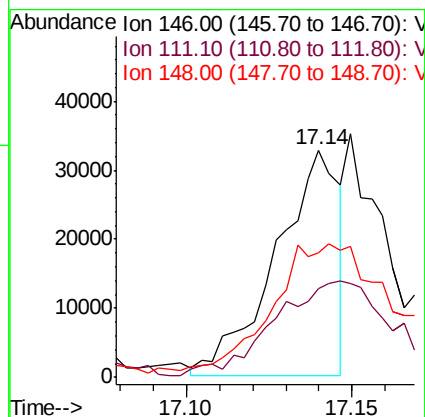
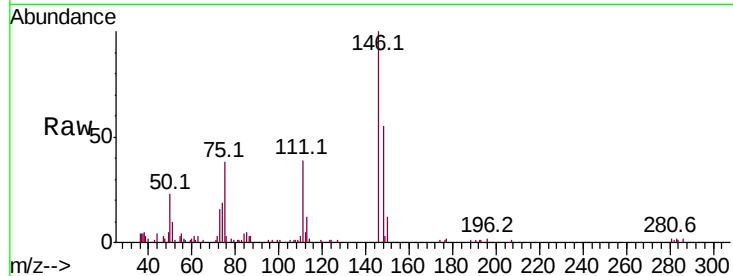
Tgt Ion:	146	Resp:	55425
Ion	Ratio	Lower	Upper
146	100		
111	80.5	22.8	68.4#
148	0.0	32.8	98.3#





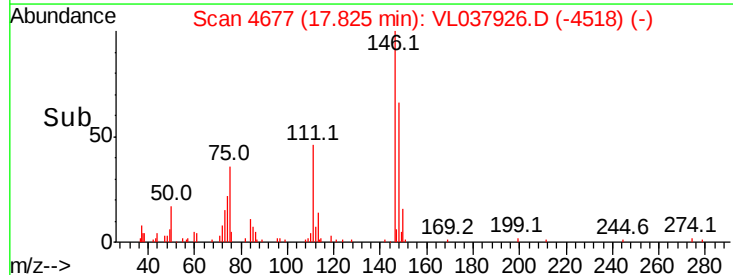
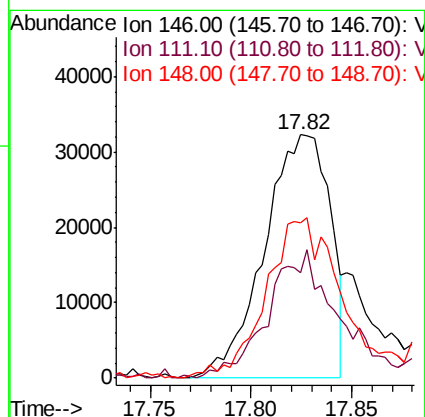
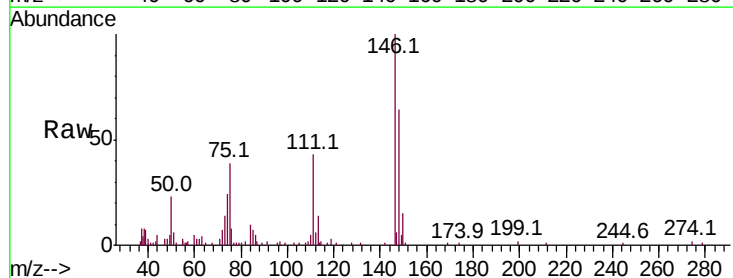
#76
 1,4-Dichlorobenzene
 Concen: 0.183 ppbv
 RT: 17.14 min
 Instrument: MSVOA_1
 Delta R.T.:
 ClientSampleId:
 Lab File: LOD-MDL-AIR-01-QT4-2021
 Acq: 27 Oct 2021 21:29

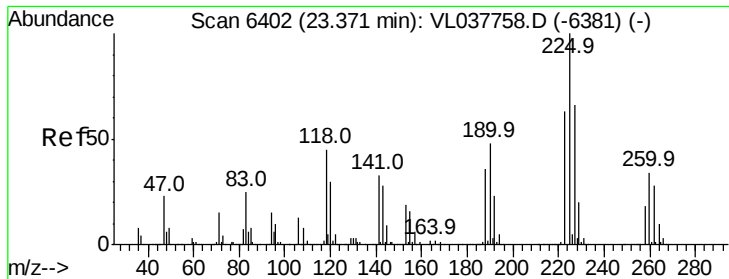
Tot Ion:146 Resp: 43568
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.4 67.3#
 148 0.0 33.3 99.9#



#77
 1,2-Dichlorobenzene
 Concen: 0.303 ppbv
 RT: 17.82 min Scan# 4677
 Delta R.T.: 0.01 min
 Lab File: VL037926.D
 Acq: 27 Oct 2021 21:29

Tgt Ion:146 Resp: 72820
 Ion Ratio Lower Upper
 146 100
 111 59.4 23.6 70.8
 148 80.2 32.9 98.6





#78

Hexachloro-1,3-Butadiene

Concen: 0.114 ppbv

RT: 23.38

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 27 Oct 2021 21:29

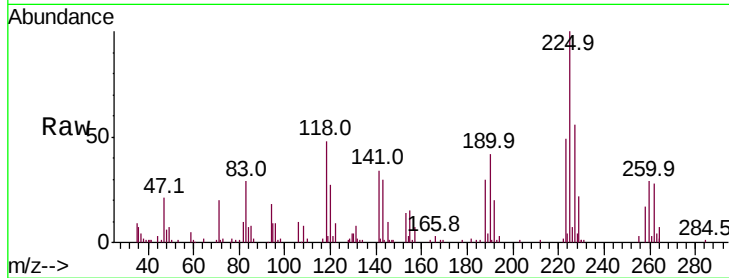
Tot Ion:225 Resp: 22370

Ion Ratio Lower Upper

225 100

223 240.9 51.2 76.8#

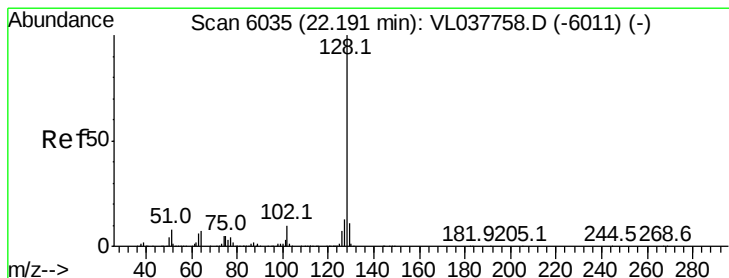
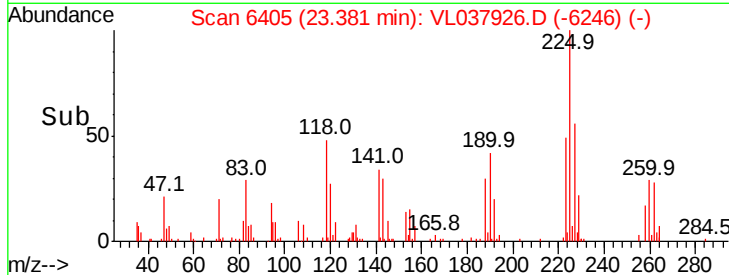
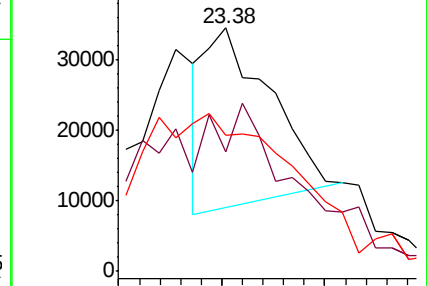
227 251.1 51.1 76.7#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.032 ppbv

RT: 22.19 min Scan# 6035

Delta R.T. 0.00 min

Lab File: VL037926.D

Acq: 27 Oct 2021 21:29

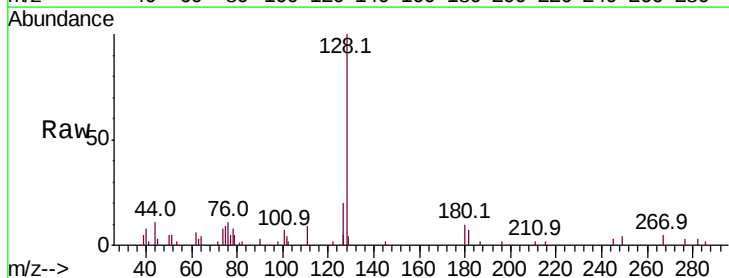
Tgt Ion:128 Resp: 7805

Ion Ratio Lower Upper

128 100

127 22.1 10.1 15.1#

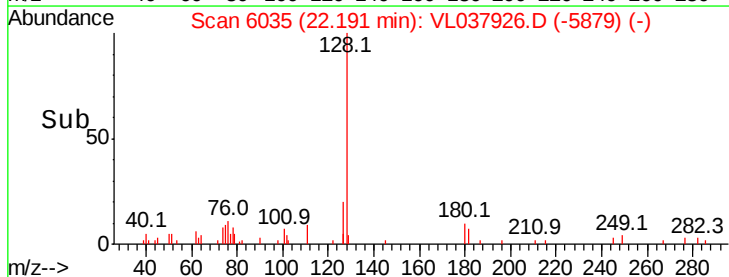
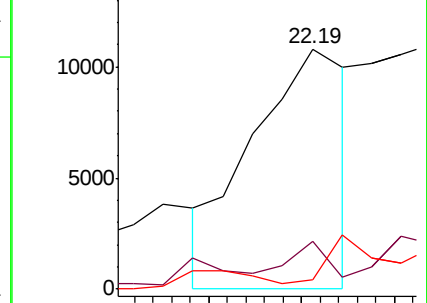
129 0.0 9.1 13.7#

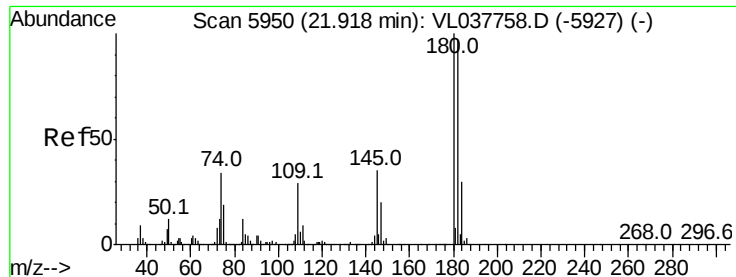


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.084 ppbv
 RT: 21.93
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Oct 2021 21:29
 LOD-MDL-AIR-01-QT4-2021

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.6	116.4#
184	93.3	25.0	37.4#

