

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021422\
 Data File : VL038341.D
 Acq On : 14 Feb 2022 15:02
 Operator : SY/AP
 Sample : N1442-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Feb 15 00:39:29 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	979095	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2487705	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2253537	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1869686	10.93	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%

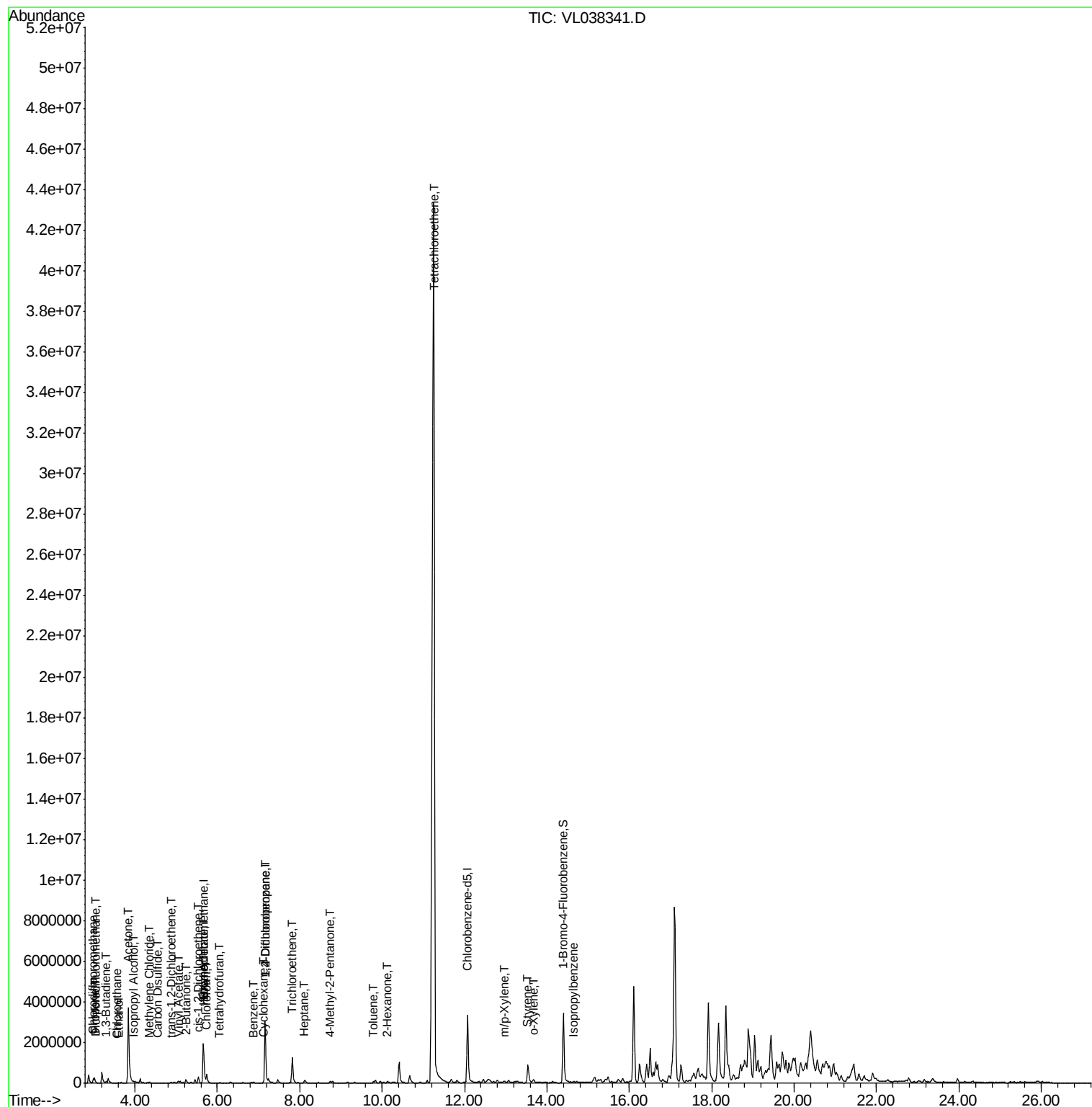
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	8913	0.04	ppbv	100
3) Chlorodifluoromethane	2.99	51	278535	1.43	ppbv	99
7) Chloroethane	3.55	64	1074	0.05	ppbv #	74
9) Propene	3.02	41	71654	1.13	ppbv #	76
10) Heptane	8.11	43	37684	0.23	ppbv	89
13) Ethanol	3.60	45	12520	1.84	ppbv #	37
15) Acetone	3.84	43	5284107	61.22	ppbv	97
16) 1,3-Butadiene	3.30	39	26080	0.42	ppbv #	23
19) Isopropyl Alcohol	3.97	45	18518	0.34	ppbv #	91
20) Methylene Chloride	4.34	84	15010	0.30	ppbv	88
22) trans-1,2-Dichloroethene	4.87	96	4559	0.08	ppbv #	76
23) Vinyl Acetate	5.06	43	91433	0.73	ppbv #	84
25) Ethyl Acetate	5.67	43	86837	0.36	ppbv #	83
26) Hexane	5.68	57	203112	1.81	ppbv #	36
27) Carbon Disulfide	4.55	76	6682	0.05	ppbv	98
29) Chloroform	5.74	83	302762	1.65	ppbv	99
30) Cyclohexane	7.11	84	4260	0.04	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	184598	1.88	ppbv	96
34) 2-Butanone	5.24	43	215353	2.65	ppbv	99
36) Benzene	6.88	78	13514	0.06	ppbv #	95
38) Trichloroethene	7.82	130	400619	4.89	ppbv	95
39) 1,2-Dichloropropane	7.16	63	662856	7.43	ppbv #	25
41) Tetrahydrofuran	6.04	42	3234	0.06	ppbv #	38
50) 4-Methyl-2-Pentanone	8.74	43	67424	0.46	ppbv	100
51) 2-Hexanone	10.13	43	76506	1.20	ppbv #	93
52) Tetrachloroethene	11.26	164	18962127	250.03	ppbv	87
53) Toluene	9.78	91	23892	0.10	ppbv #	21
59) m/p-Xylene	12.98	91	8697	0.03	ppbv #	32
60) o-Xylene	13.68	91	28357	0.11	ppbv	99
61) Styrene	13.52	104	4332	0.04	ppbv #	1
62) Isopropylbenzene	14.65	105	53598	0.15	ppbv	98

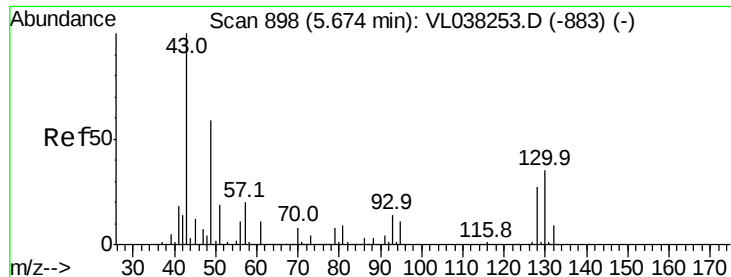
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL021422\
Data File : VL038341.D
Acq On : 14 Feb 2022 15:02
Operator : SY/AP
Sample : N1442-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Feb 15 00:39:29 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 15:02

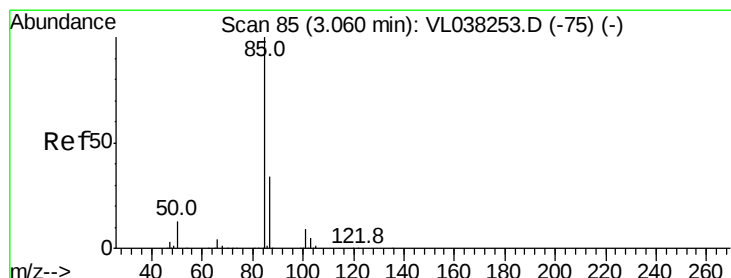
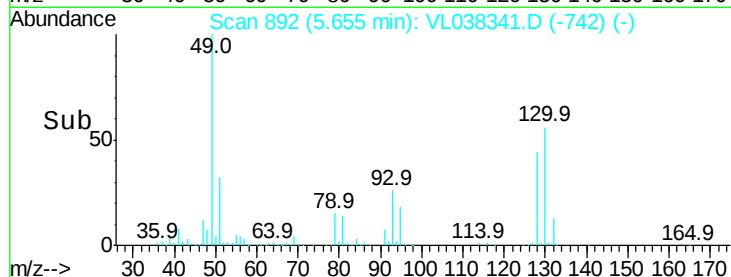
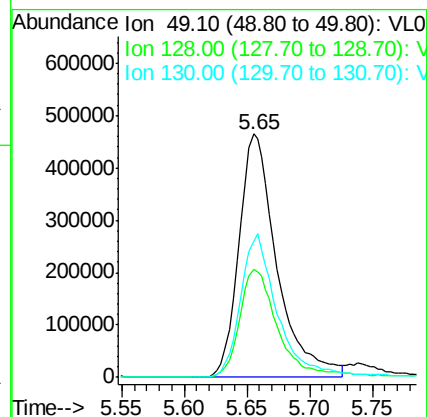
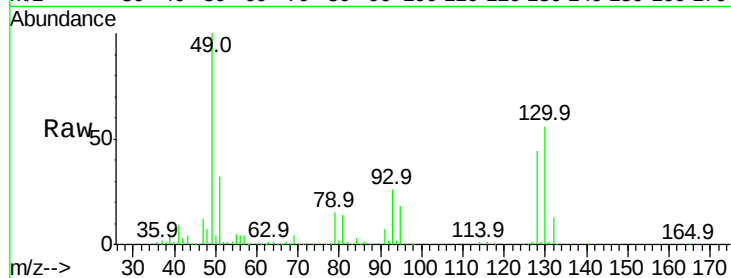
Tgt Ion: 49 Resp: 979095

Ion Ratio Lower Upper

49 100

128 46.2 24.5 73.5

130 58.6 30.1 90.5



#2

Dichlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL038341.D

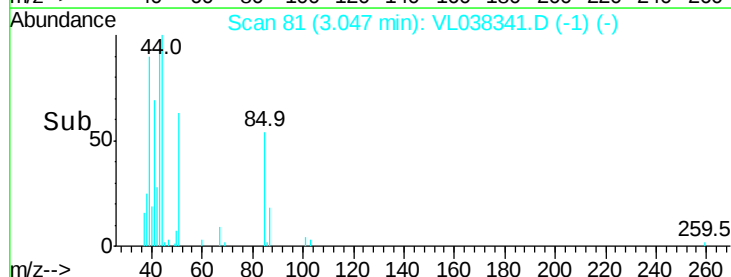
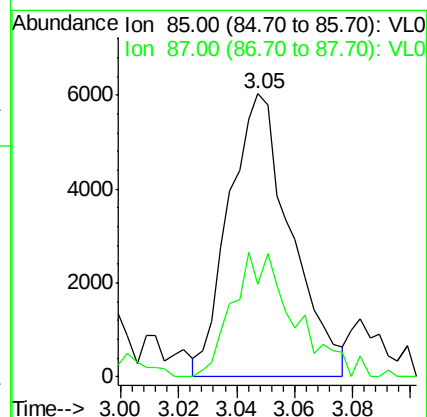
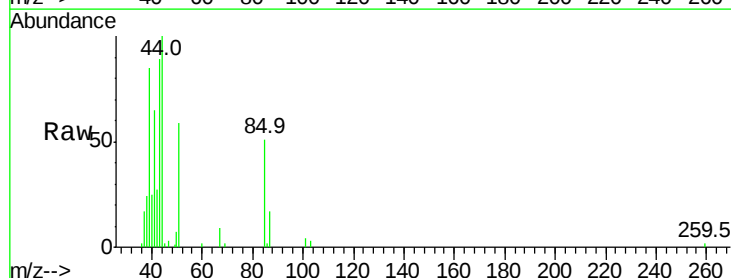
Acq: 14 Feb 2022 15:02

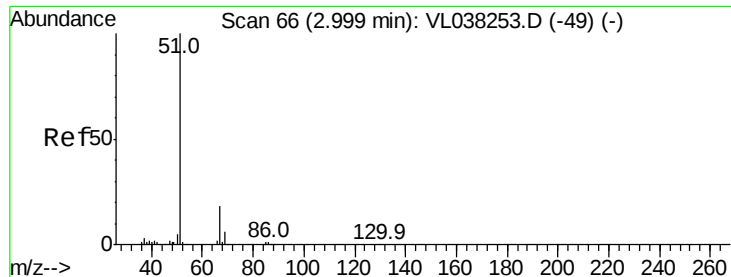
Tgt Ion: 85 Resp: 8913

Ion Ratio Lower Upper

85 100

87 34.0 27.0 40.6





#3

Chlorodifluoromethane

Concen: 1.43 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1

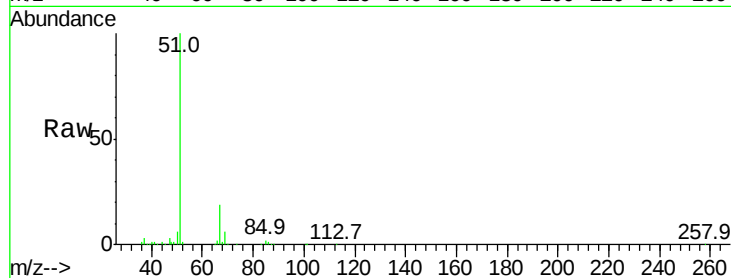
Acq: 14 Feb 2022 15:02

Tgt Ion: 51 Resp: 278535

Ion Ratio Lower Upper

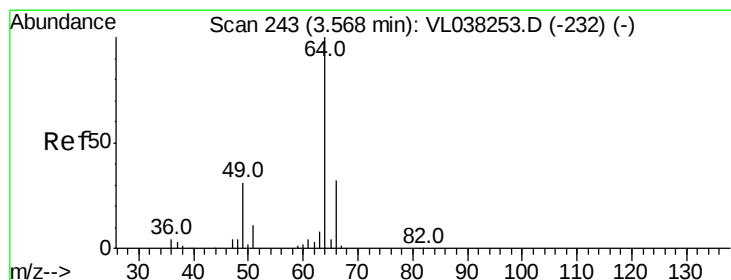
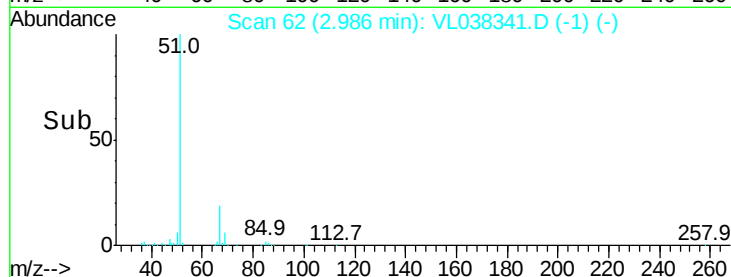
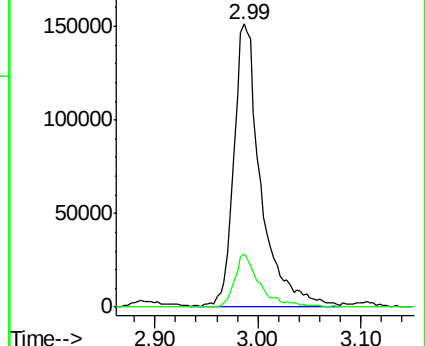
51 100

67 17.8 14.4 21.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.05 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.02 min

Lab File: VL038341.D

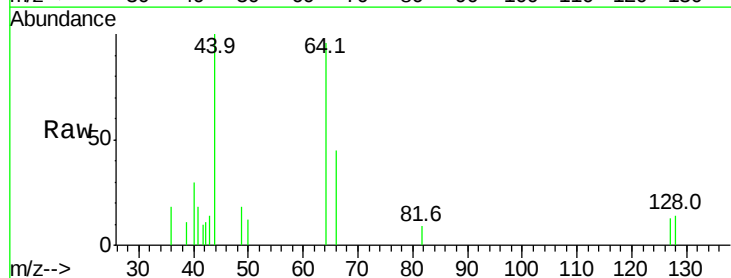
Acq: 14 Feb 2022 15:02

Tgt Ion: 64 Resp: 1074

Ion Ratio Lower Upper

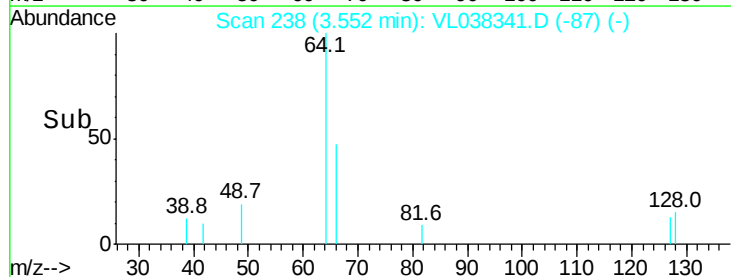
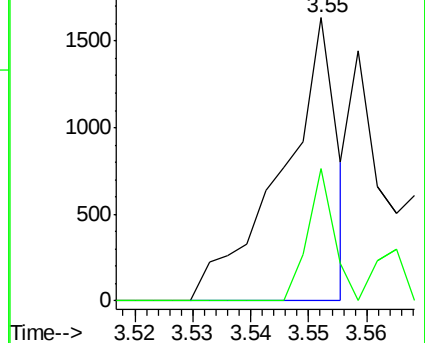
64 100

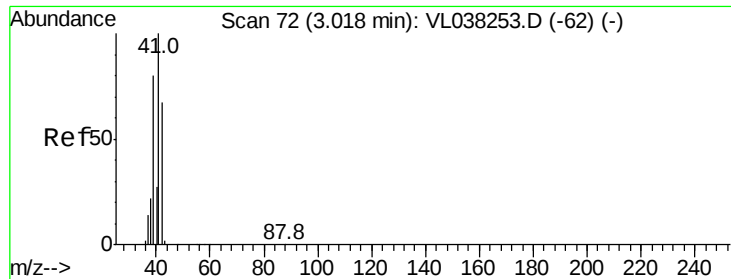
66 46.6 25.8 38.6#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 1.13 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

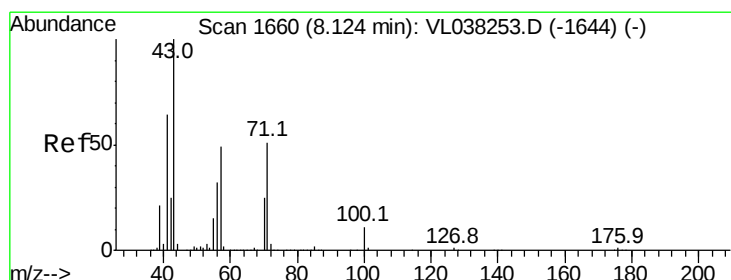
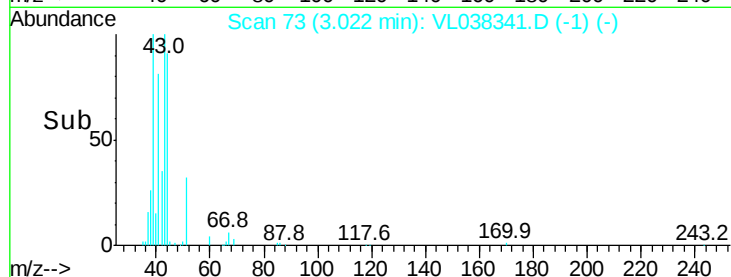
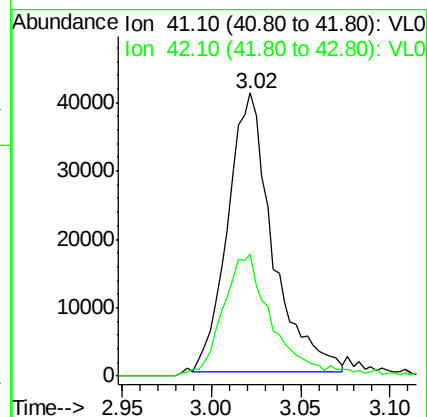
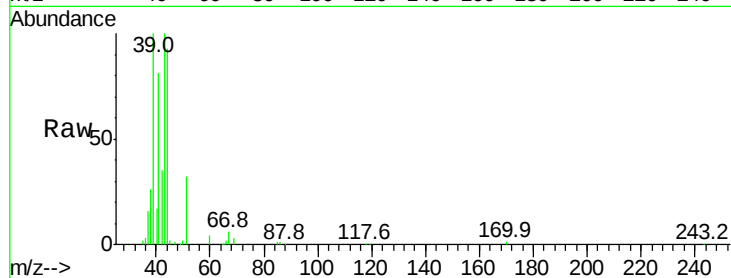
Acq: 14 Feb 2022 15:02

Tgt Ion: 41 Resp: 71654

Ion Ratio Lower Upper

41 100

42 48.9 54.9 82.3#



#10

Heptane

Concen: 0.23 ppbv

RT: 8.11 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL038341.D

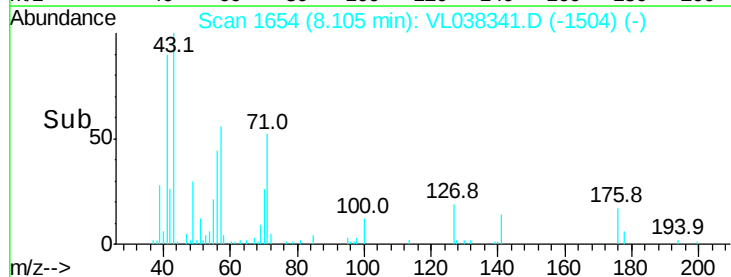
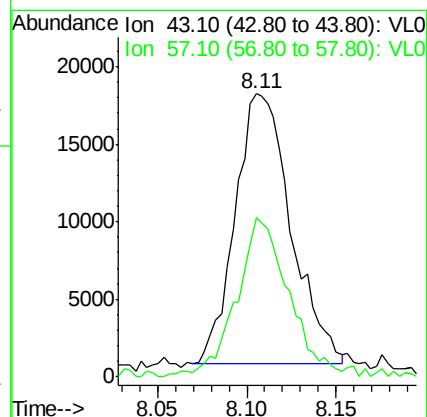
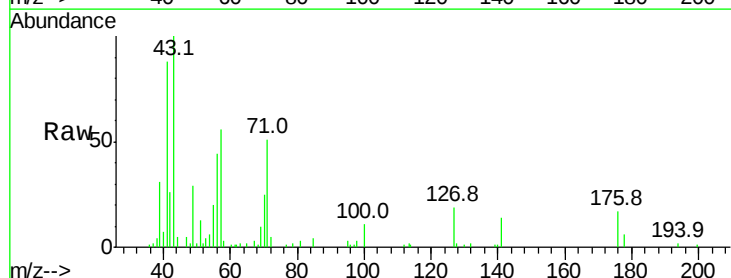
Acq: 14 Feb 2022 15:02

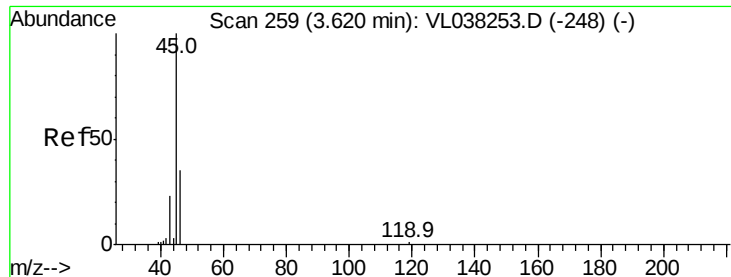
Tgt Ion: 43 Resp: 37684

Ion Ratio Lower Upper

43 100

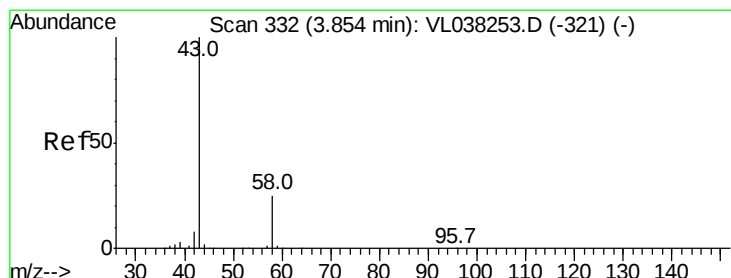
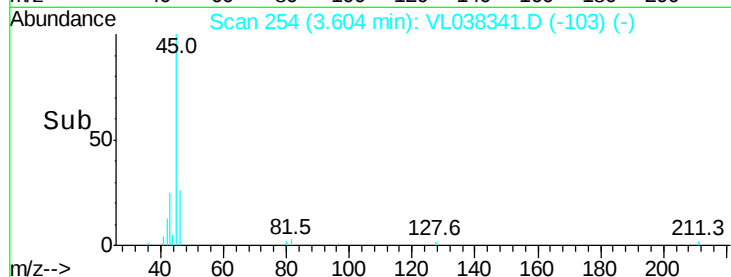
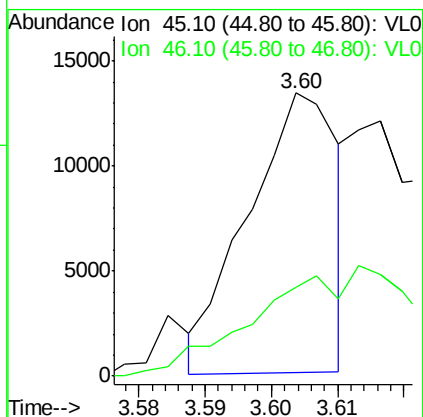
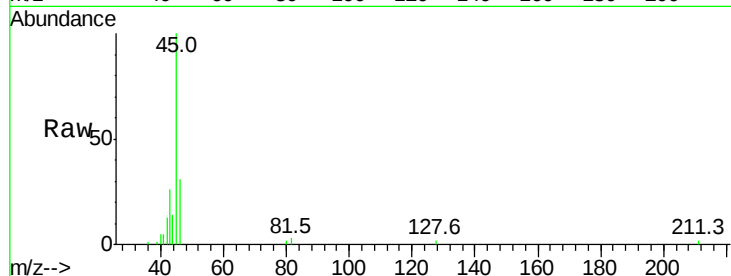
57 57.2 39.5 59.3





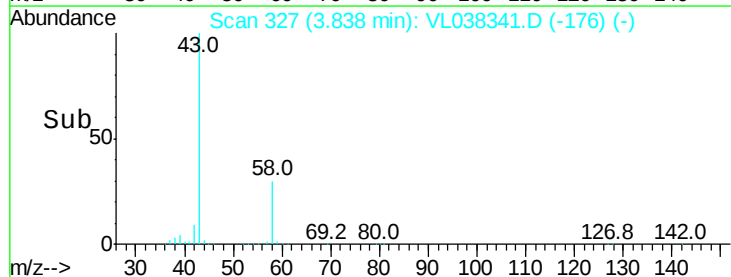
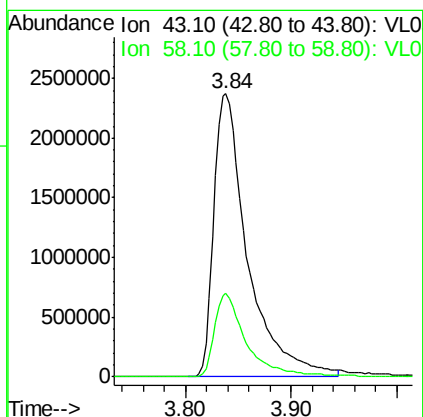
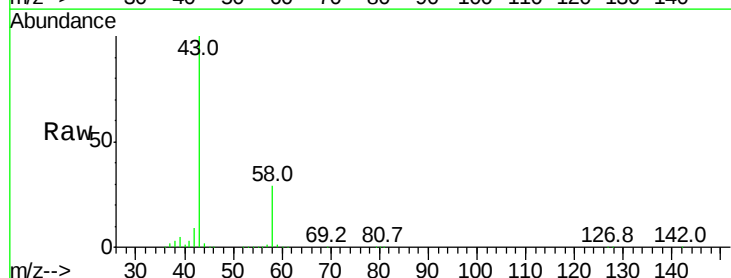
#13
Ethanol
Concen: 1.84 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 14 Feb 2022 15:02

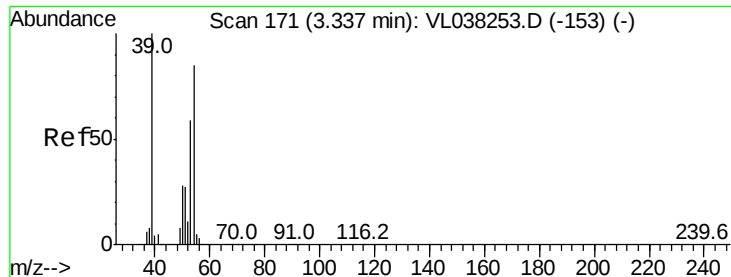
Tgt Ion: 45 Resp: 12520
Ion Ratio Lower Upper
45 100
46 0.0 15.4 61.6#



#15
Acetone
Concen: 61.22 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.02 min
Lab File: VL038341.D
Acq: 14 Feb 2022 15:02

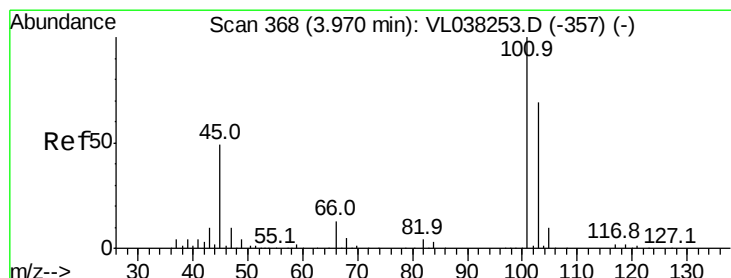
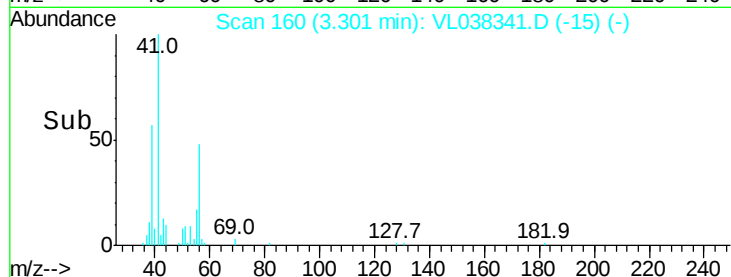
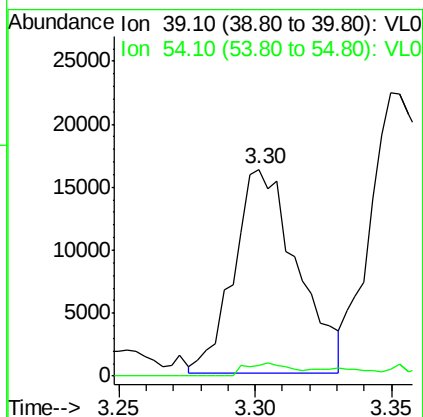
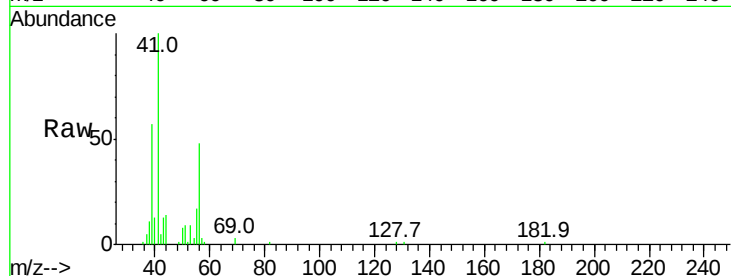
Tgt Ion: 43 Resp: 5284107
Ion Ratio Lower Upper
43 100
58 28.4 21.5 32.3





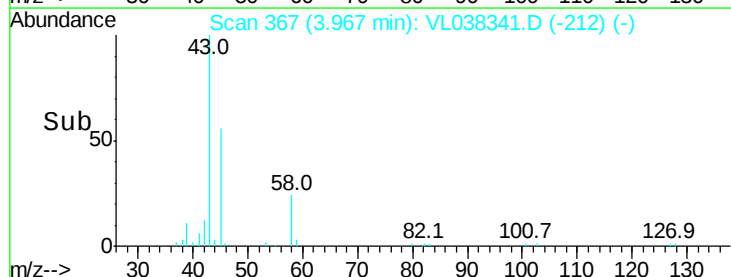
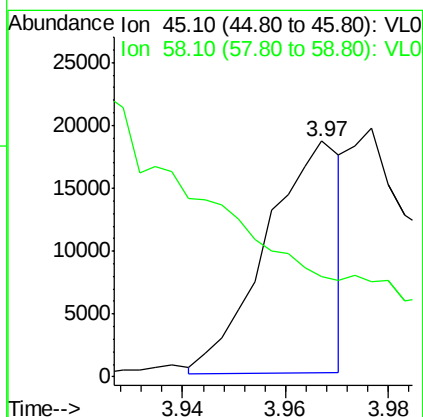
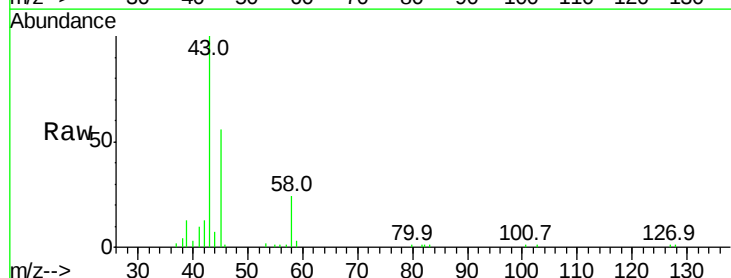
#16
 1,3-Butadiene
 Concen: 0.42 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 14 Feb 2022 15:02

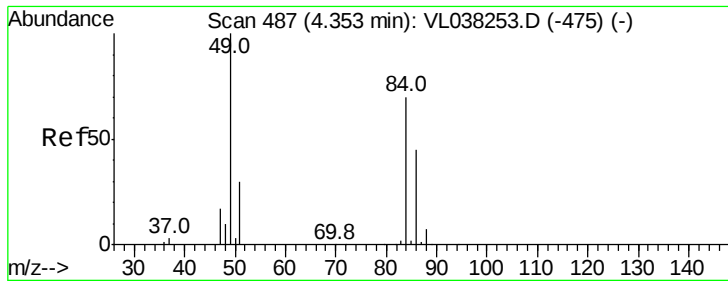
Tgt Ion: 39 Resp: 26080
 Ion Ratio Lower Upper
 39 100
 54 11.2 62.6 94.0#



#19
 Isopropyl Alcohol
 Concen: 0.34 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL038341.D
 Acq: 14 Feb 2022 15:02

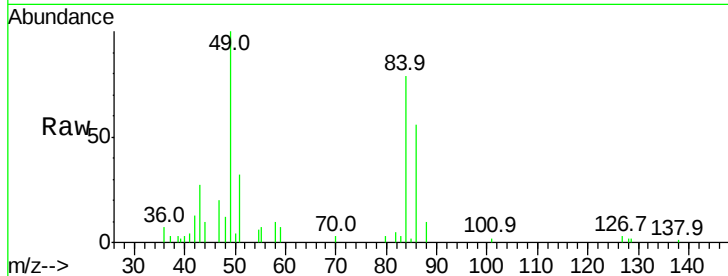
Tgt Ion: 45 Resp: 18518
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#



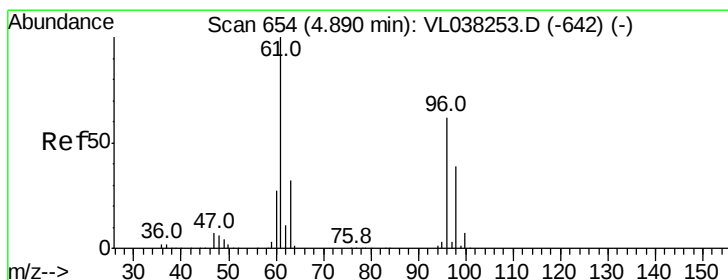
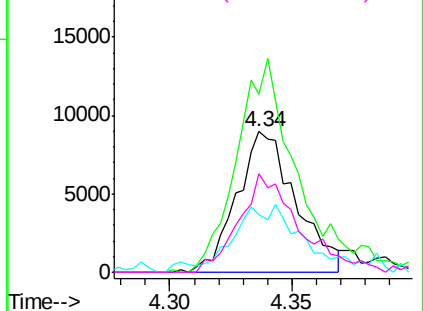
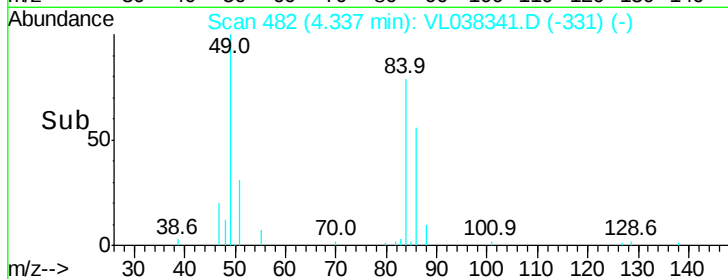


#20
Methylene Chloride
Concen: 0.30 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 14 Feb 2022 15:02

Tgt Ion: 84 Resp: 15010
Ion Ratio Lower Upper
84 100
49 126.5 115.0 172.6
51 35.9 35.0 52.6
86 70.3 51.4 77.0

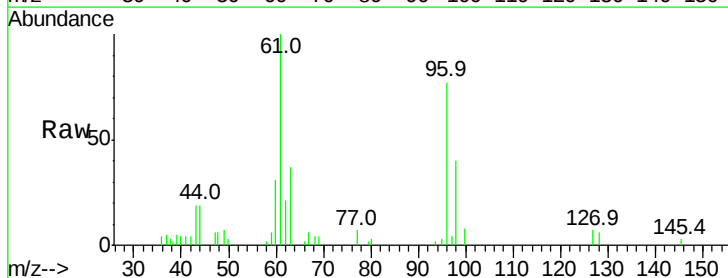


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

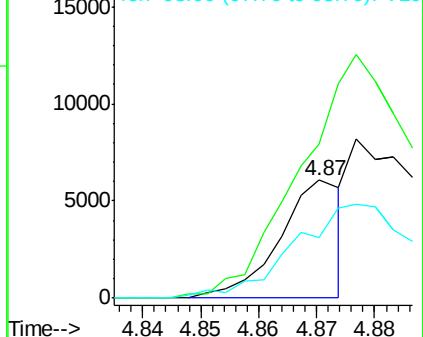
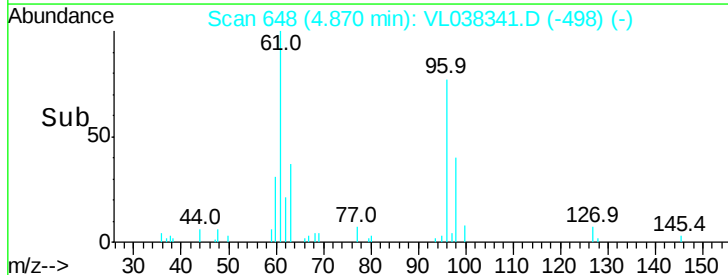


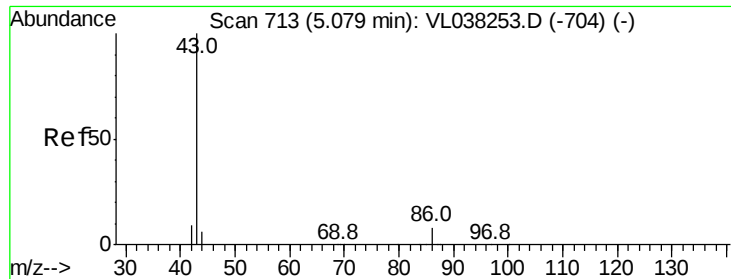
#22
trans-1,2-Dichloroethene
Concen: 0.08 ppbv
RT: 4.87 min Scan# 648
Delta R.T. -0.02 min
Lab File: VL038341.D
Acq: 14 Feb 2022 15:02

Tgt Ion: 96 Resp: 4559
Ion Ratio Lower Upper
96 100
61 126.1 128.8 193.2#
98 48.9 49.8 74.8#



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: 0.73 ppbv

RT: 5.06 Instrument:

Delta R.T. MSVOA_L

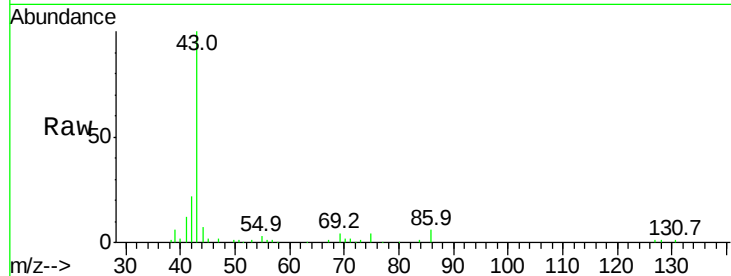
Lab File: ClientSampleId:

Acq: 14 Feb 2022 15:02 SV1

Tgt Ion: 43 Resp: 91433

Ion Ratio Lower Upper

43	100		
86	5.8	5.7	8.5
42	21.7	7.7	11.5#
44	4.5	4.2	6.4

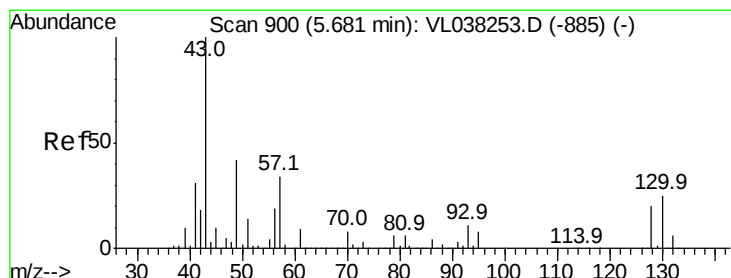
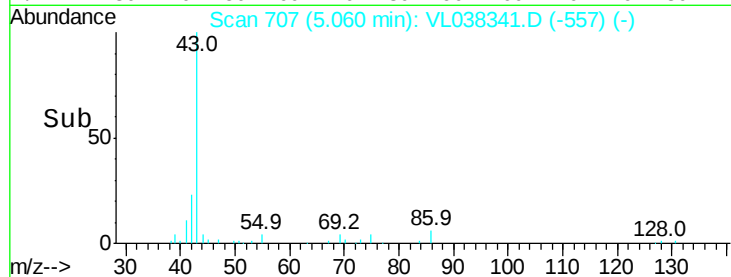
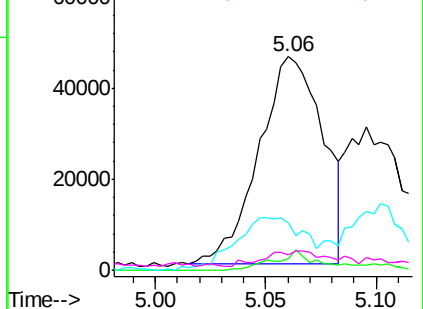


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.36 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

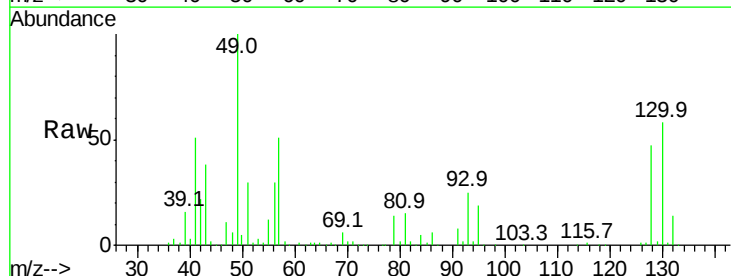
Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

Tgt Ion: 43 Resp: 86837

Ion Ratio Lower Upper

43	100		
45	2.7	7.9	11.9#
61	0.0	7.8	11.8#
70	6.5	5.4	8.0

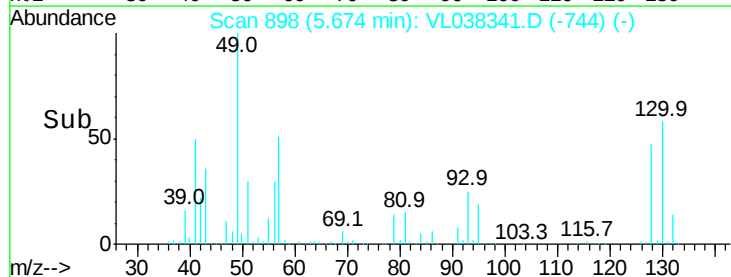
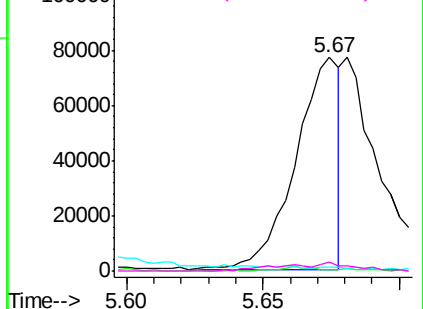


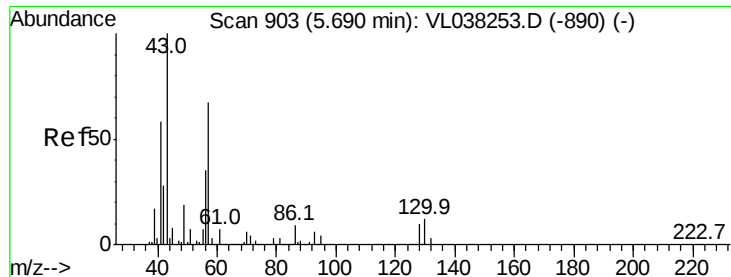
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.81 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 15:02 SV1

Tgt Ion: 57 Resp: 203112

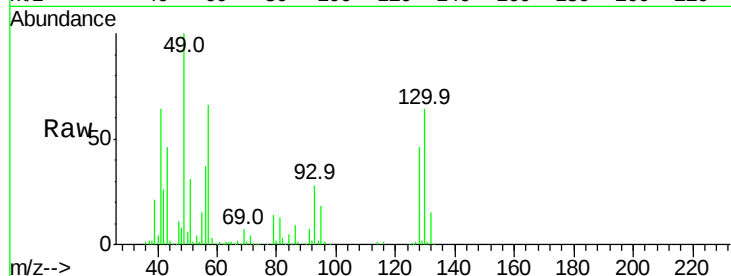
Ion Ratio Lower Upper

57 100

41 126.6 72.8 109.2#

43 81.0 177.0 265.6#

56 64.1 43.3 64.9

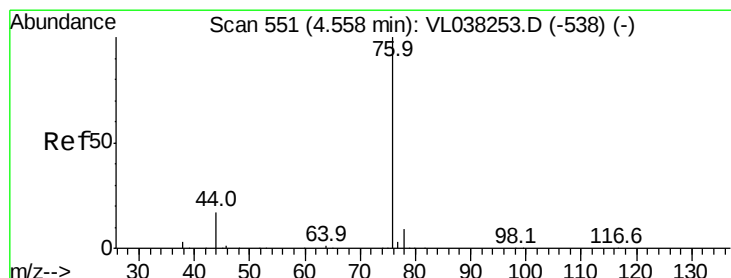
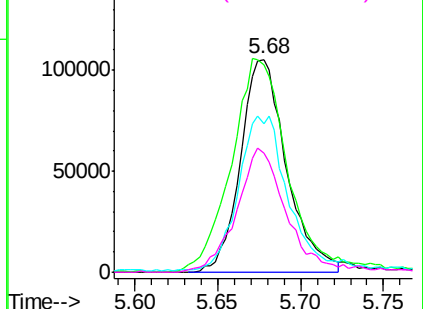
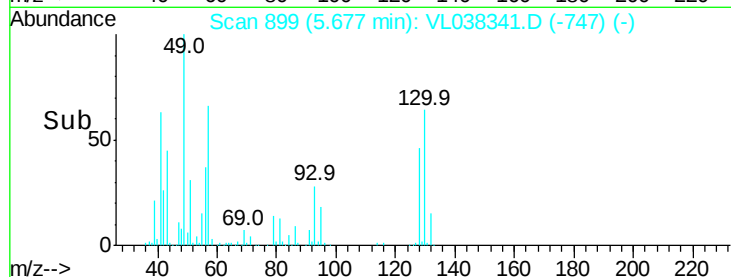


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.05 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.01 min

Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

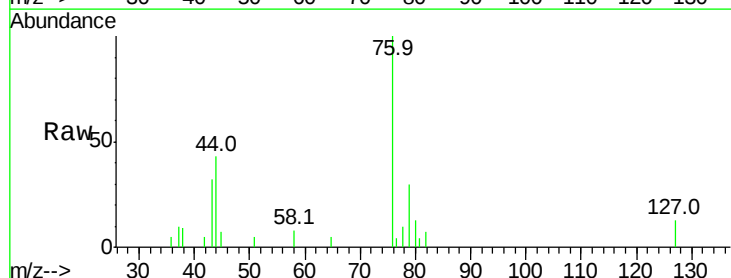
Tgt Ion: 76 Resp: 6682

Ion Ratio Lower Upper

76 100

44 19.7 14.8 22.2

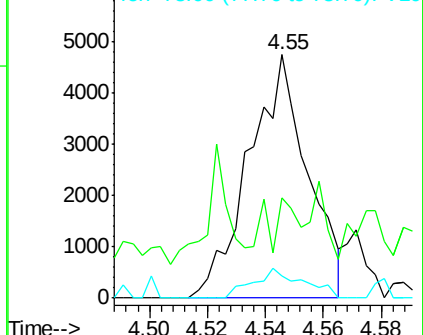
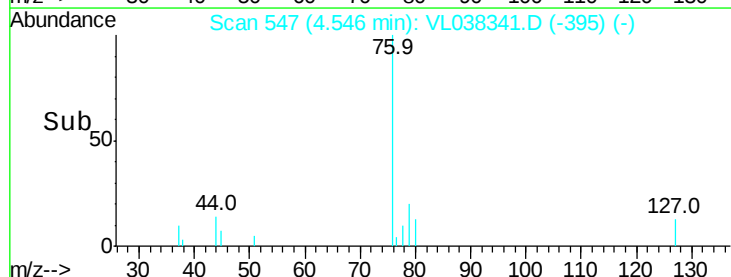
78 10.3 7.9 11.9

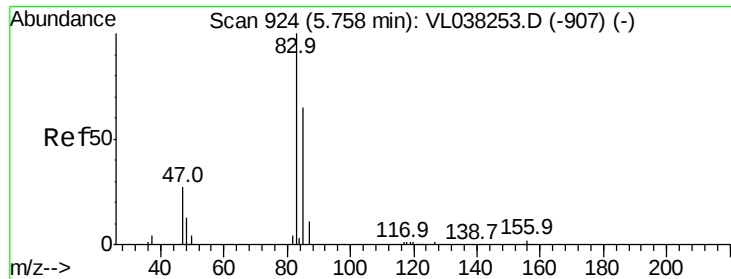


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





#29

Chloroform

Concen: 1.65 ppbv

RT: 5.74 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

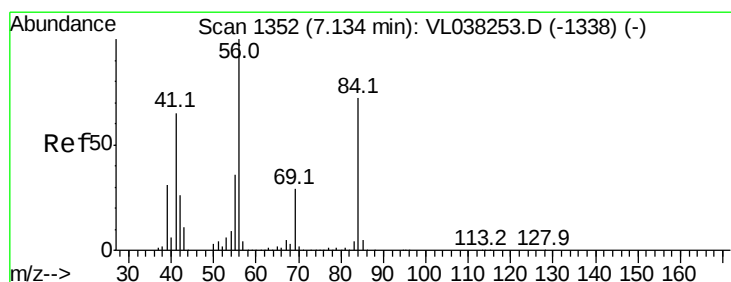
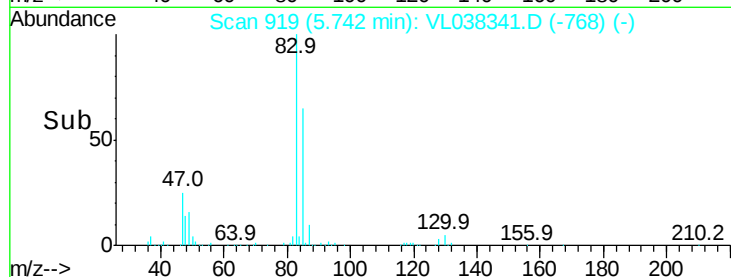
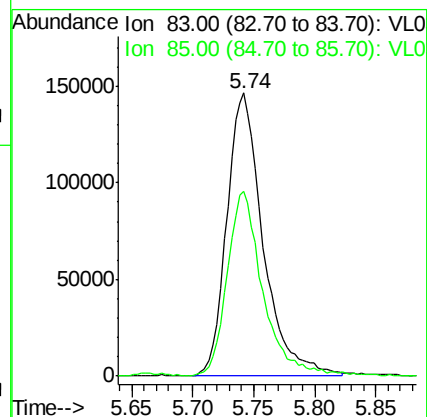
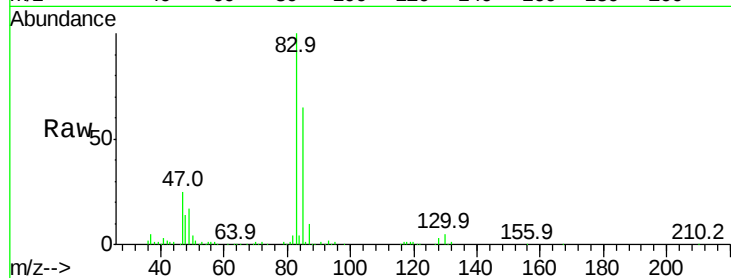
Acq: 14 Feb 2022 15:02

Tgt Ion: 83 Resp: 302762

Ion Ratio Lower Upper

83 100

85 65.4 51.9 77.9



#30

Cyclohexane

Concen: 0.04 ppbv

RT: 7.11 min Scan# 1346

Delta R.T. -0.02 min

Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

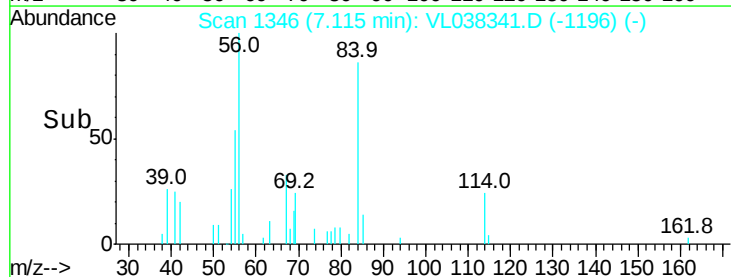
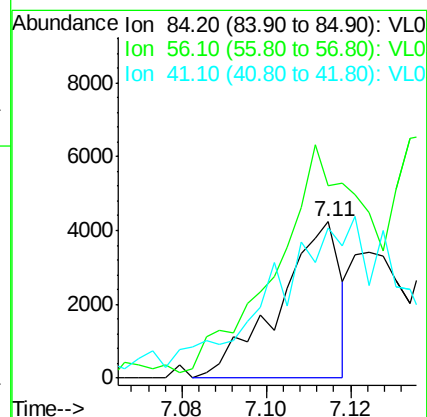
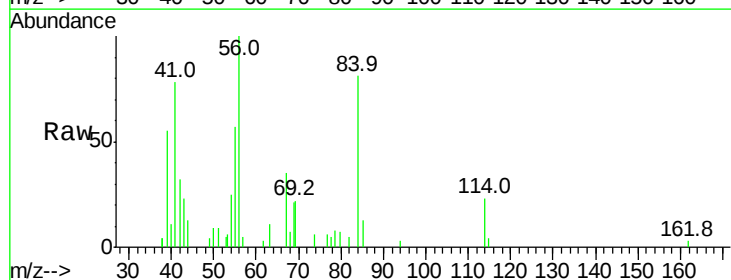
Tgt Ion: 84 Resp: 4260

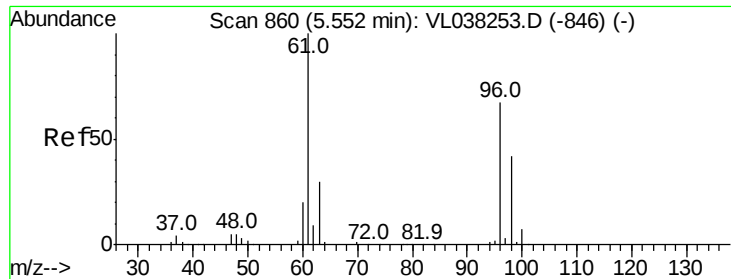
Ion Ratio Lower Upper

84 100

56 0.0 112.7 169.1#

41 0.0 71.1 106.7#





#31

cis-1,2-Dichloroethene

Concen: 1.88 ppbv

RT: 5.54 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1

Acq: 14 Feb 2022 15:02

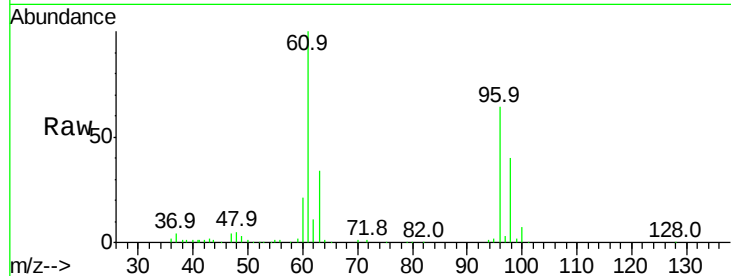
Tgt Ion: 61 Resp: 184598

Ion Ratio Lower Upper

61 100

96 63.6 53.3 79.9

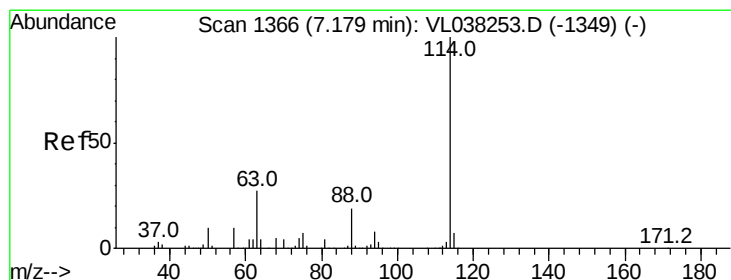
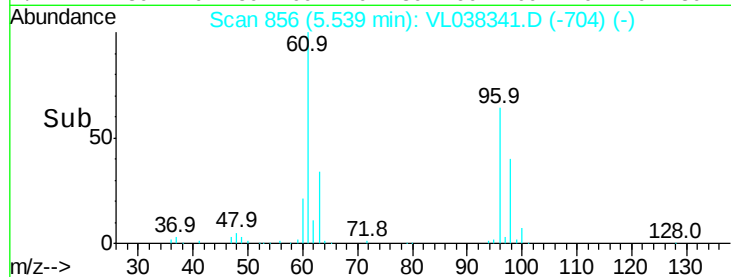
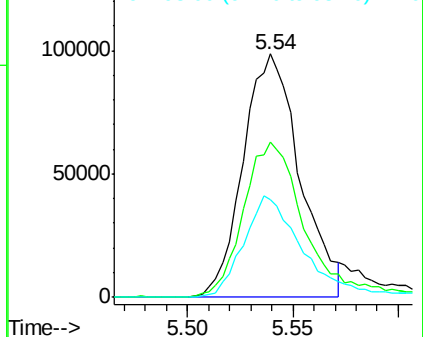
98 39.8 33.7 50.5



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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.02 min

Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

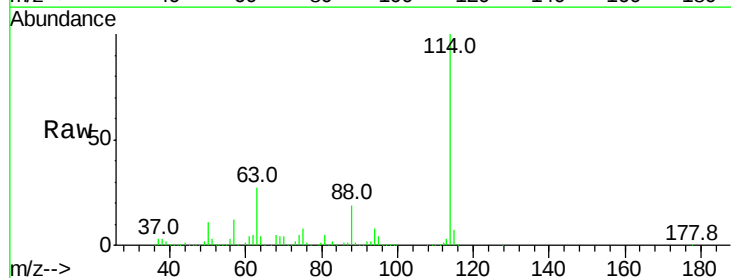
Tgt Ion: 114 Resp: 2487705

Ion Ratio Lower Upper

114 100

63 27.3 22.0 33.0

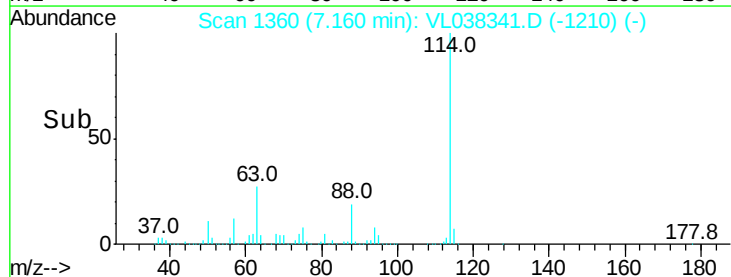
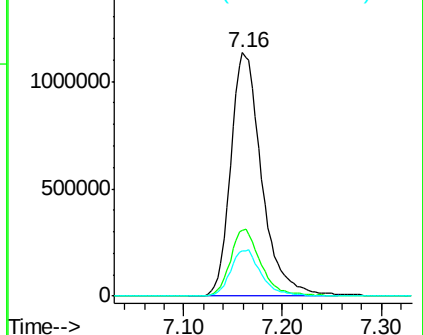
88 19.0 15.0 22.6

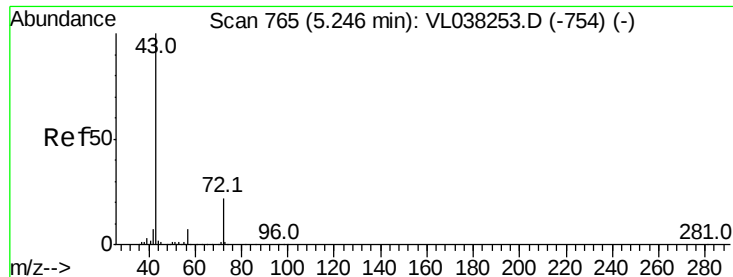


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 2.65 ppbv

RT: 5.24

Delta R.T. MSVOA_L

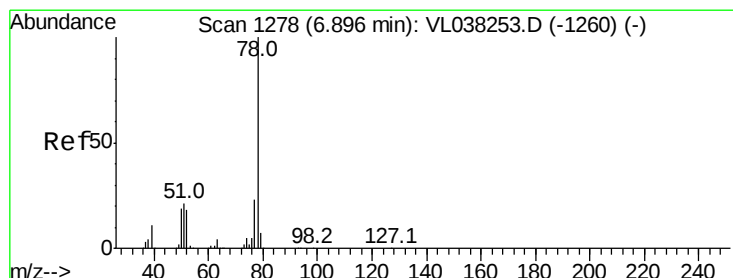
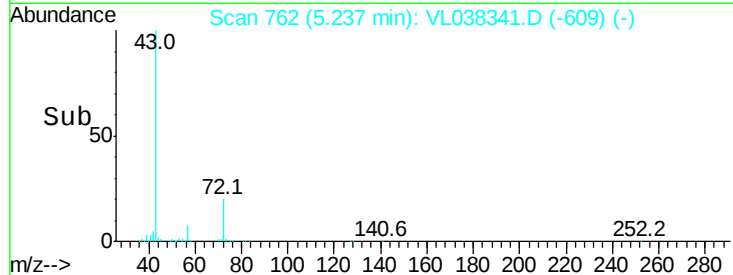
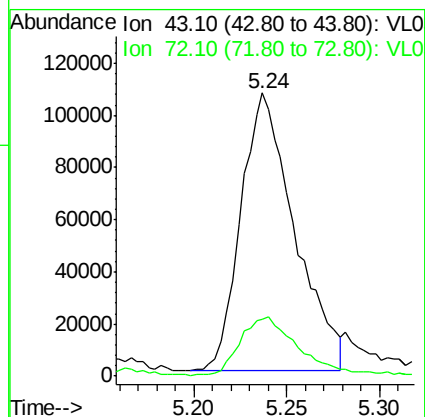
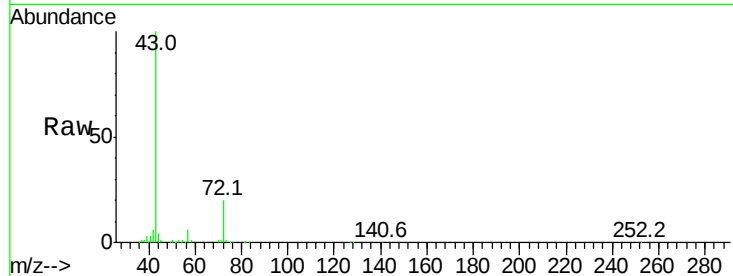
Lab File: ClientSampleId :

SV1

Acq: 14 Feb 2022 15:02

Tgt Ion: 43 Resp: 215353

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.1	27.1



#36

Benzene

Concen: 0.06 ppbv

RT: 6.88 min Scan# 1273

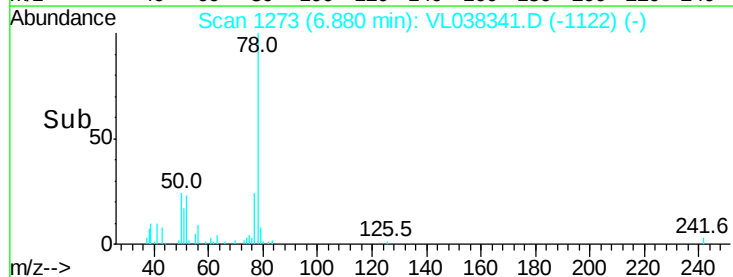
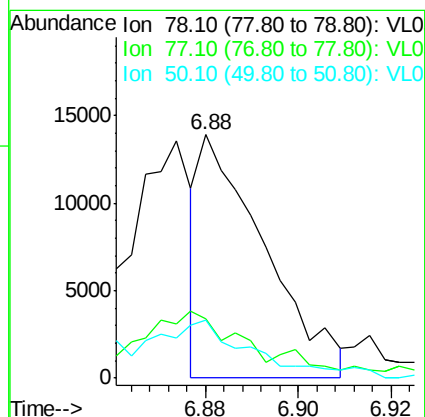
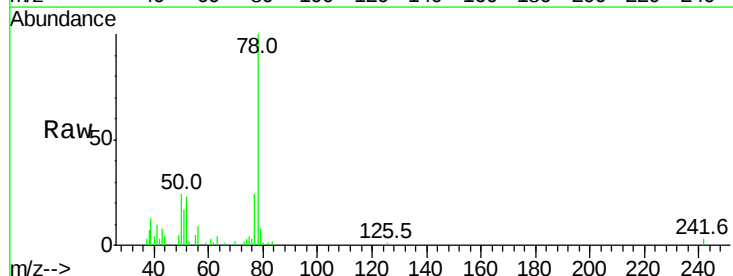
Delta R.T. -0.02 min

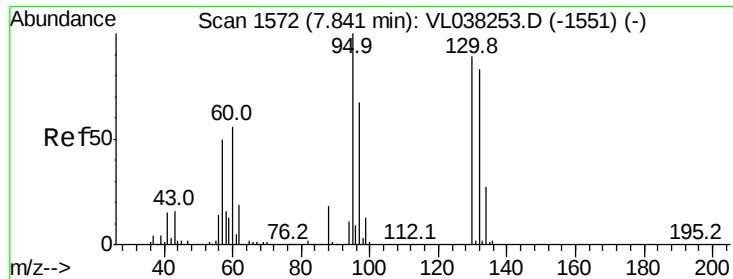
Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

Tgt Ion: 78 Resp: 13514

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.2	27.2
50	23.0	15.1	22.7#





#38

Trichloroethene

Concen: 4.89 ppbv

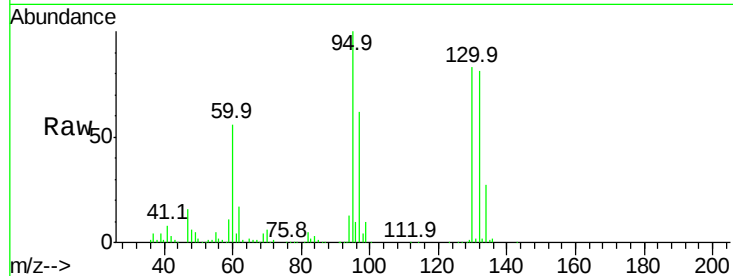
RT: 7.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Feb 2022 15:02 SV1

Tgt Ion:	130	Resp:	400619
Ion Ratio	Lower	Upper	
130	100		
95	120.3	89.4	134.2
132	96.9	74.6	111.8
97	75.1	59.6	89.4

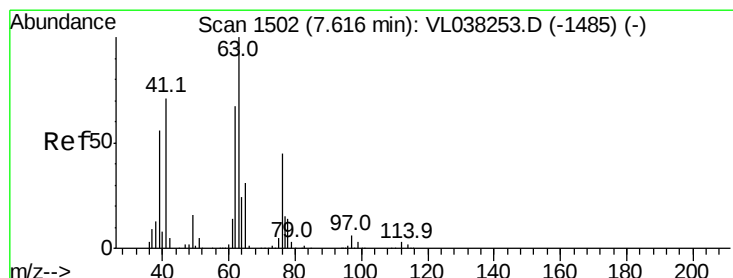
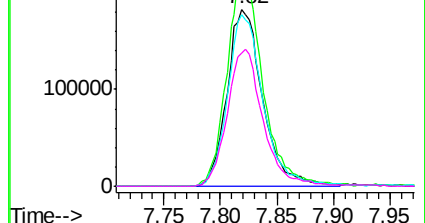
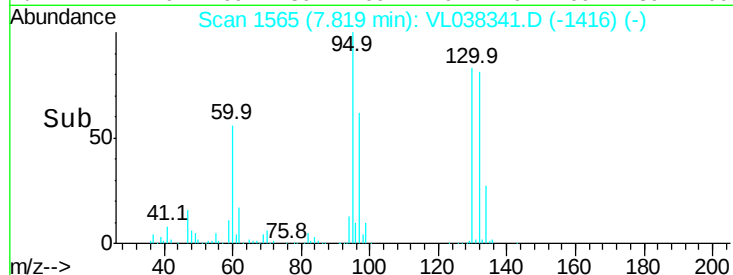


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.43 ppbv

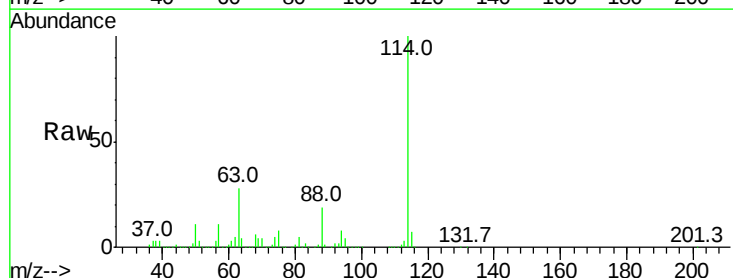
RT: 7.16 min Scan# 1361

Delta R.T. -0.45 min

Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

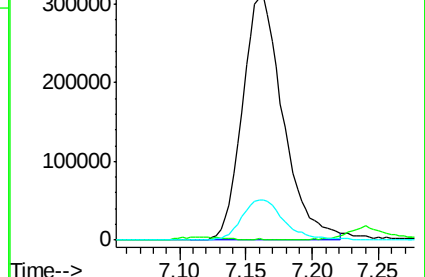
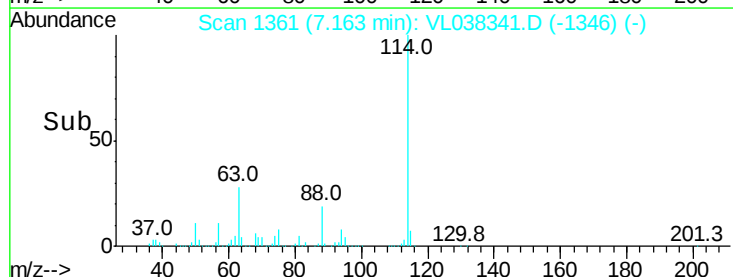
Tgt Ion:	63	Resp:	662856
Ion Ratio	Lower	Upper	
63	100		
41	0.0	56.6	85.0#
62	16.3	53.9	80.9#

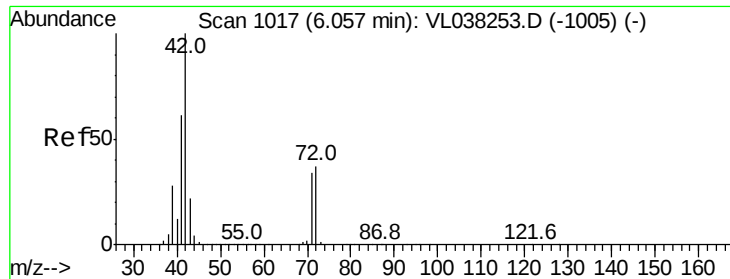


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

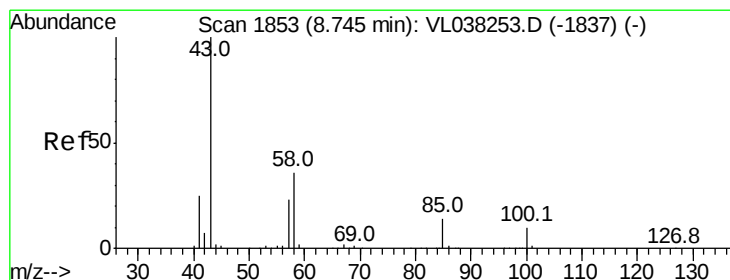
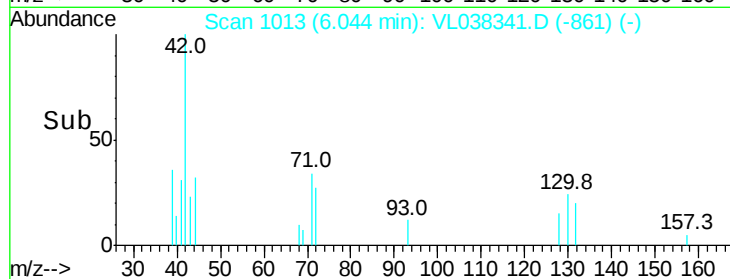
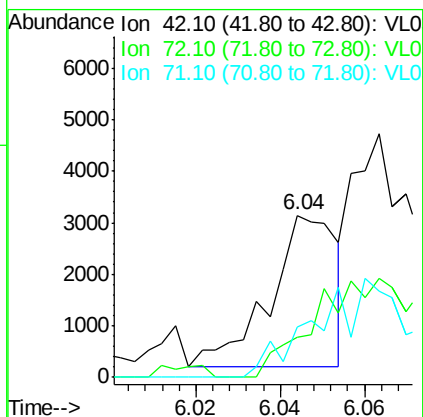
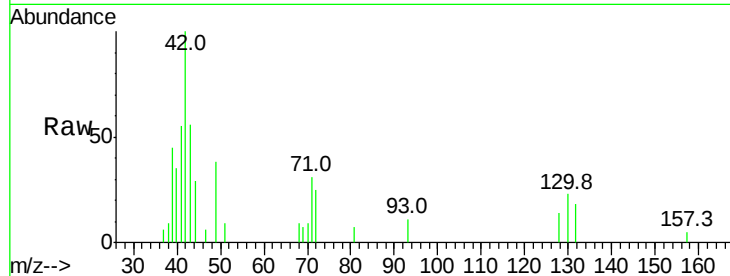
Ion 62.10 (61.80 to 62.80): VL0





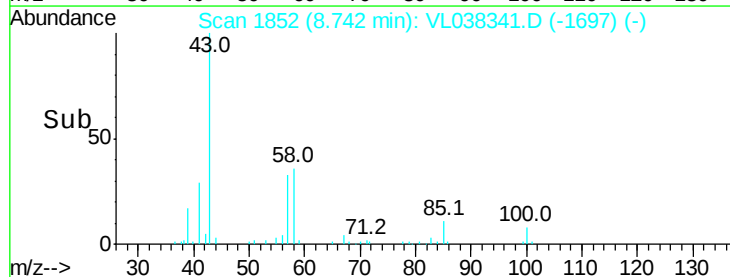
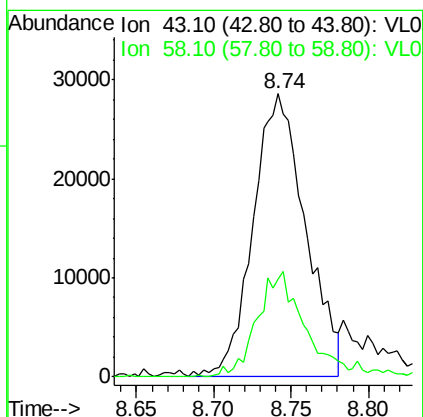
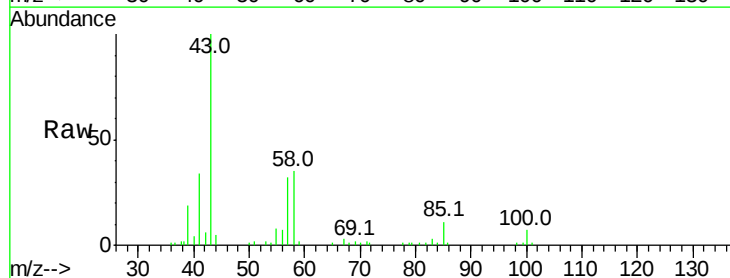
#41
Tetrahydrofuran
Concen: 0.06 ppbv
RT: 6.04
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV1
Acq: 14 Feb 2022 15:02

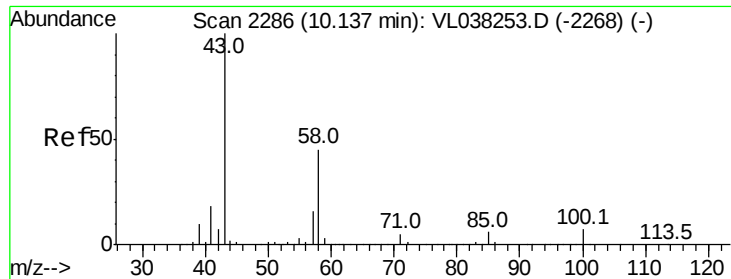
Tgt Ion: 42 Resp: 3234
Ion Ratio Lower Upper
42 100
72 0.0 29.7 44.5#
71 0.0 29.4 44.2#



#50
4-Methyl-2-Pentanone
Concen: 0.46 ppbv
RT: 8.74 min Scan# 1852
Delta R.T. -0.00 min
Lab File: VL038341.D
Acq: 14 Feb 2022 15:02

Tgt Ion: 43 Resp: 67424
Ion Ratio Lower Upper
43 100
58 35.5 28.2 42.4





#51

2-Hexanone

Concen: 1.20 ppbv

RT: 10.13

Delta R.T. MSVOA_L

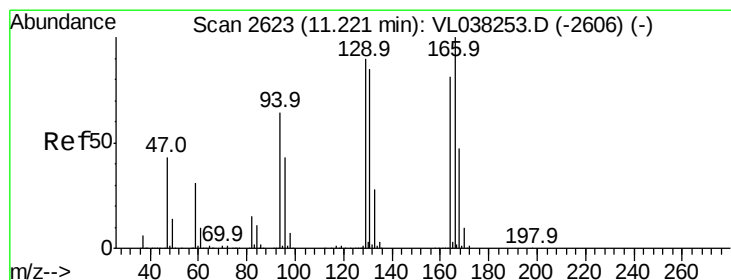
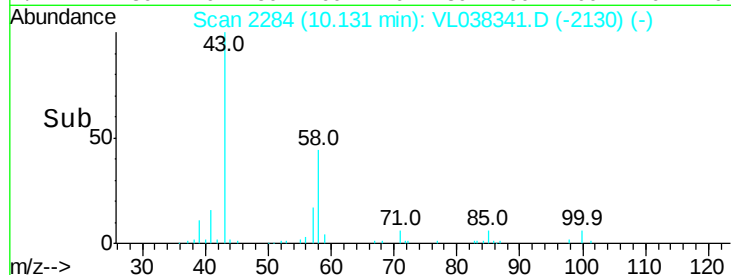
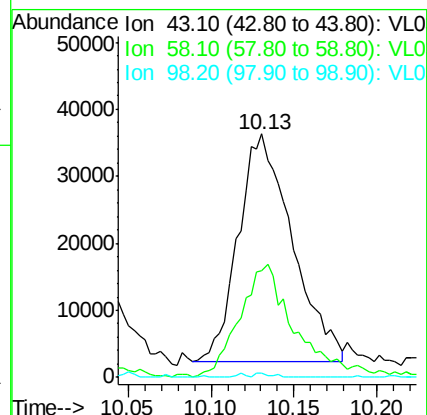
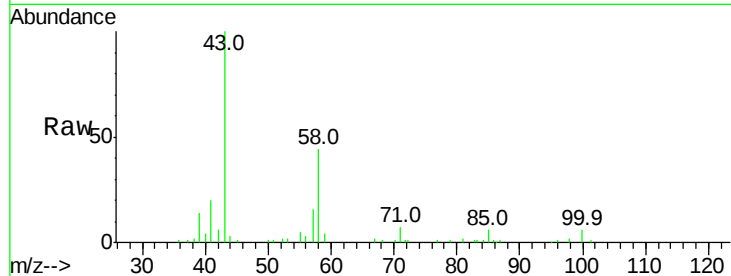
Lab File: ClientSampleId :

Acq: 14 Feb 2022 15:02

Tgt Ion: 43 Resp: 76506

Ion Ratio Lower Upper

43	100		
58	51.2	37.0	55.4
98	0.8	0.2	0.2#



#52

Tetrachloroethene

Concen: 250.03 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. 0.04 min

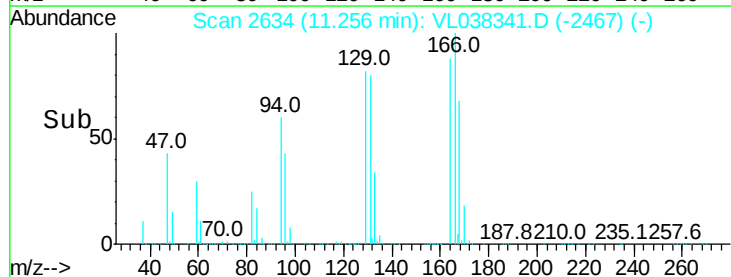
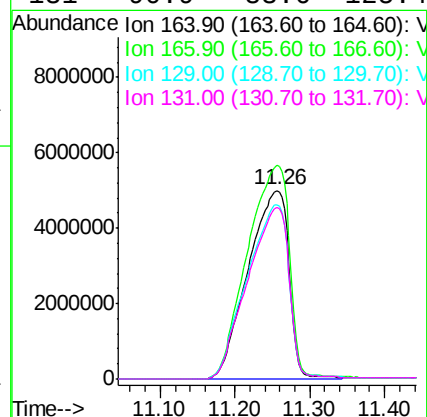
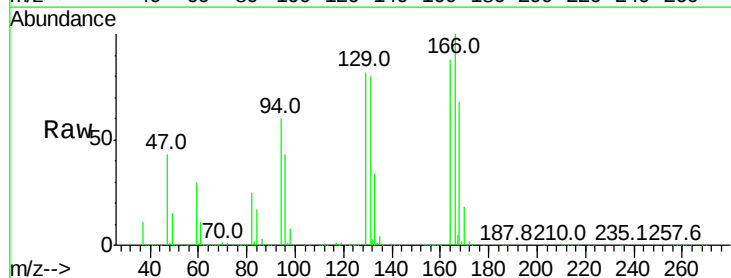
Lab File: VL038341.D

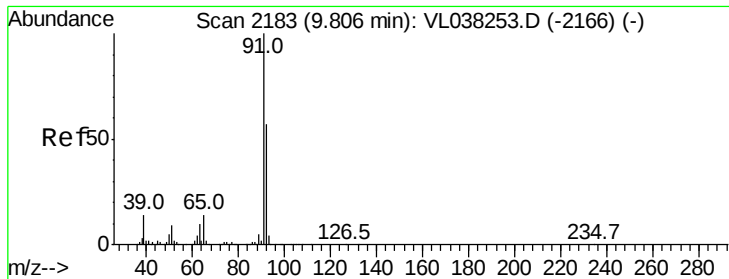
Acq: 14 Feb 2022 15:02

Tgt Ion: 164 Resp: 18962127

Ion Ratio Lower Upper

164	100		
166	113.3	98.8	148.2
129	92.4	89.2	133.8
131	90.9	83.6	125.4





#53

Toluene

Concen: 0.10 ppbv

RT: 9.78 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

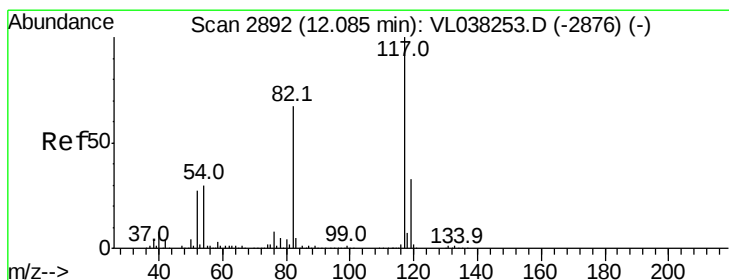
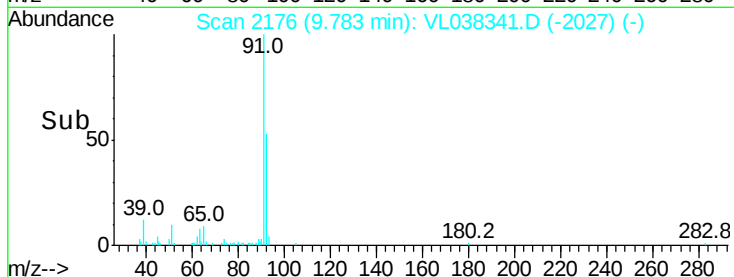
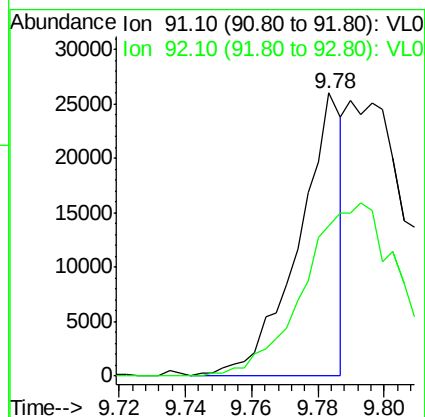
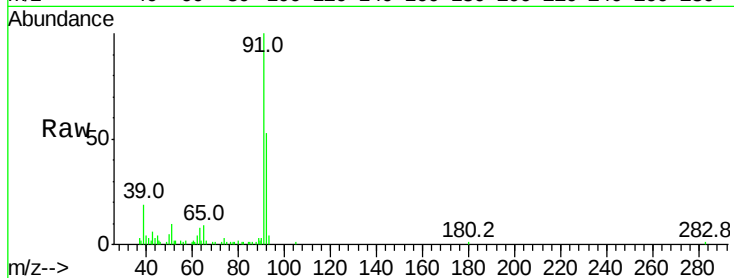
Acq: 14 Feb 2022 15:02

Tgt Ion: 91 Resp: 23892

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.0#



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL038341.D

Acq: 14 Feb 2022 15:02

Tgt Ion: 117 Resp: 2253537

Ion Ratio Lower Upper

117 100

82 67.6 54.4 81.6

119 33.1 45.9 68.9#

