

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039260.D
 Acq On : 13 Jun 2022 20:35
 Operator : SY/AP
 Sample : N3330-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OTC-SG-2DL

Quant Time: Jun 14 01:32:44 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1594078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3746060	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3103562	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2591428	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

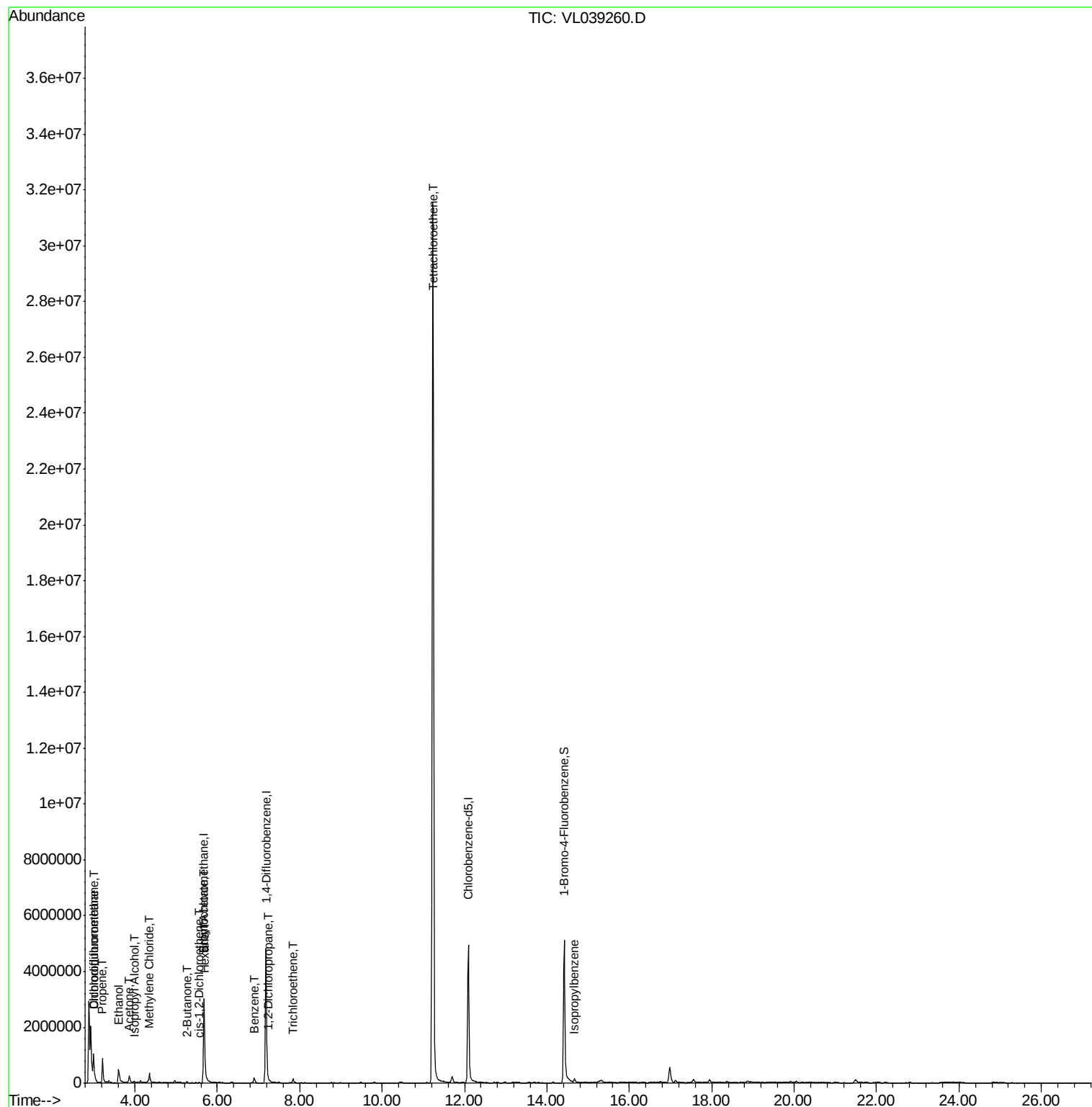
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	18667	0.067	ppbv	96
3) Chlorodifluoromethane	3.00	51	1280952	6.316	ppbv	95
9) Propene	3.21	41	319065	3.608	ppbv	98
13) Ethanol	3.60	45	636368	131.940	ppbv #	100
15) Acetone	3.86	43	311164	1.874	ppbv	95
19) Isopropyl Alcohol	3.98	45	53635	0.689	ppbv #	1
20) Methylene Chloride	4.35	84	136828	1.955	ppbv	96
25) Ethyl Acetate	5.68	43	222505	0.595	ppbv	98
26) Hexane	5.69	57	121948	0.741	ppbv	88
31) cis-1,2-Dichloroethene	5.55	61	7589	0.045	ppbv	87
34) 2-Butanone	5.25	43	45175	0.222	ppbv #	83
36) Benzene	6.90	78	143608	0.472	ppbv	95
38) Trichloroethene	7.84	130	34923	0.250	ppbv #	77
39) 1,2-Dichloropropane	7.23	63	11826	0.098	ppbv #	21
52) Tetrachloroethene	11.23	164	9079508	76.463	ppbv	98
62) Isopropylbenzene	14.66	105	57409	0.109	ppbv #	50

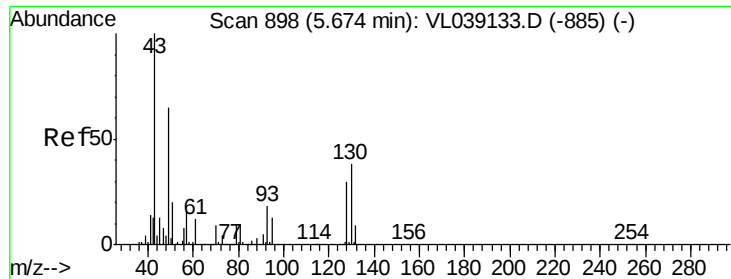
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Jun 2022 20:35

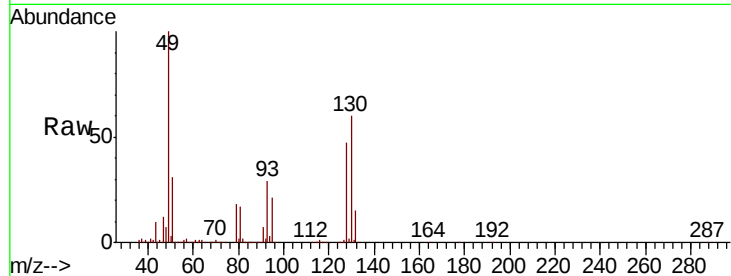
Tot Ion: 49 Resp: 1594078

Ion Ratio Lower Upper

49 100

128 48.4 24.7 74.1

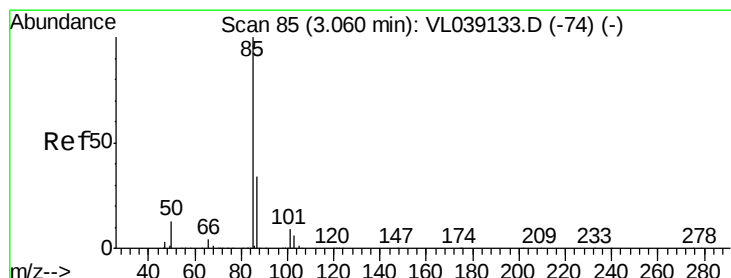
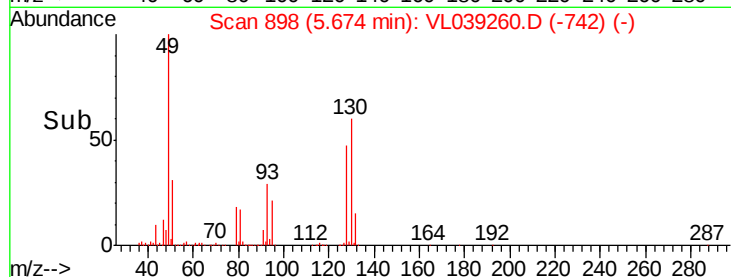
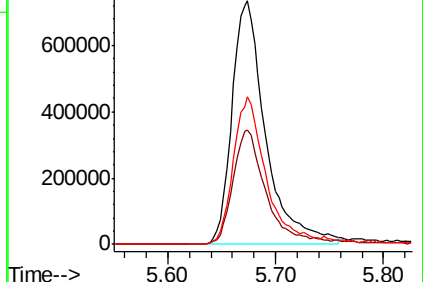
130 61.5 31.4 94.0



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: 0.067 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.06 min

Lab File: VL039260.D

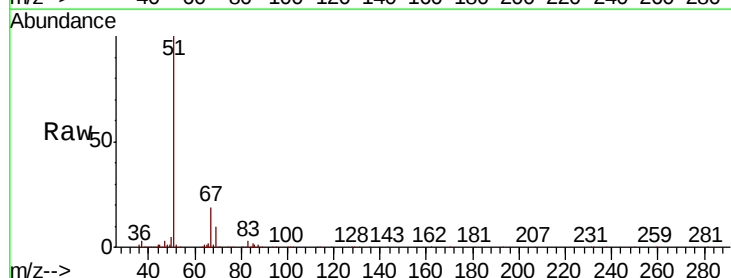
Acq: 13 Jun 2022 20:35

Tgt Ion: 85 Resp: 18667

Ion Ratio Lower Upper

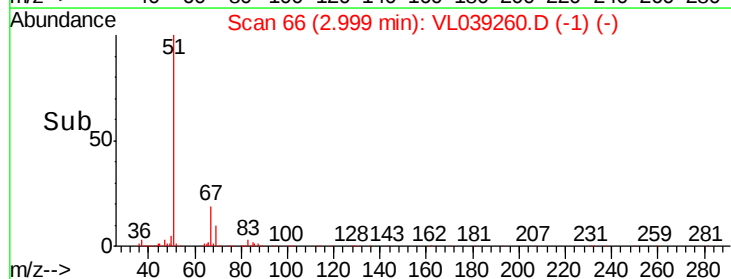
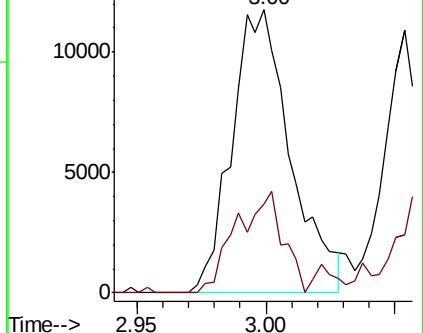
85 100

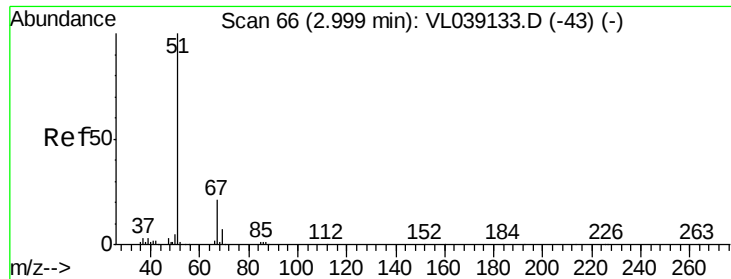
87 31.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

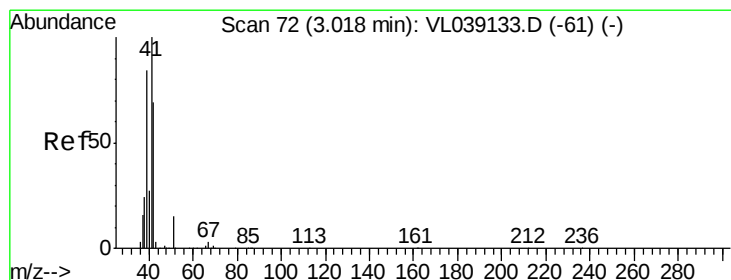
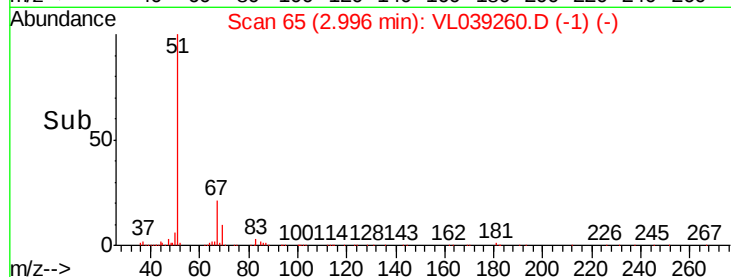
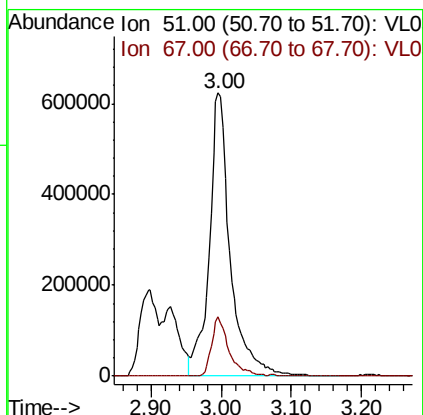
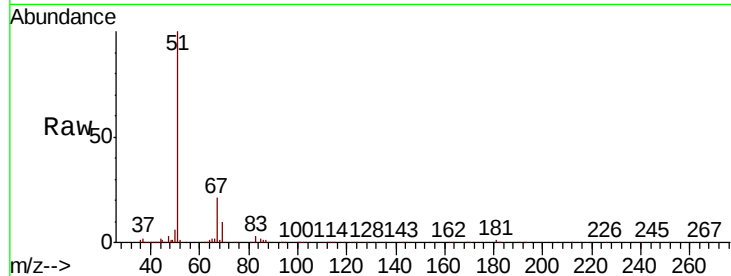
Ion 87.00 (86.70 to 87.70): VL0





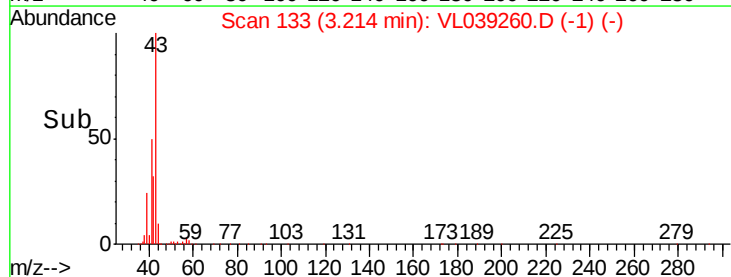
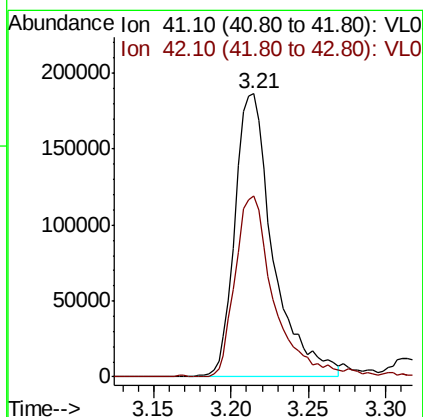
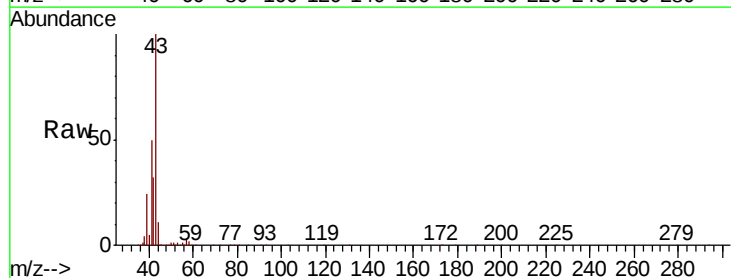
#3
 Chlorodifluoromethane
 Concen: 6.316 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jun 2022 20:35

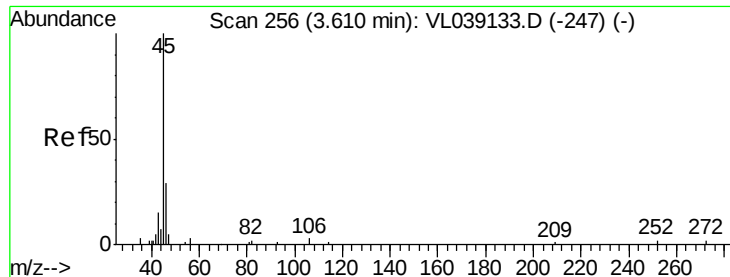
Tot Ion: 51 Resp: 1280952
 Ion Ratio Lower Upper
 51 100
 67 17.8 16.2 24.4



#9
 Propene
 Concen: 3.608 ppbv
 RT: 3.21 min Scan# 133
 Delta R.T. 0.20 min
 Lab File: VL039260.D
 Acq: 13 Jun 2022 20:35

Tgt Ion: 41 Resp: 319065
 Ion Ratio Lower Upper
 41 100
 42 67.5 55.4 83.2





#13

Ethanol

Concen: 131.940 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

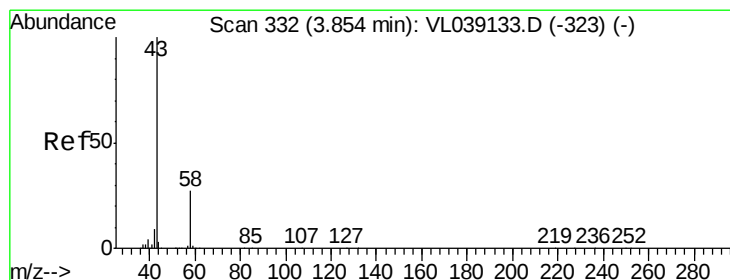
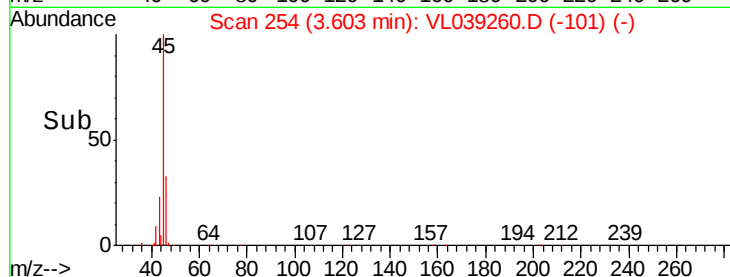
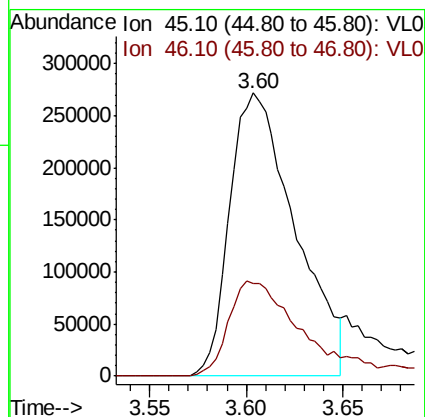
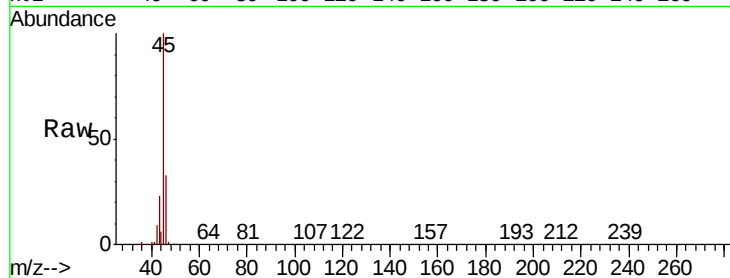
Acq: 13 Jun 2022 20:35

Tot Ion: 45 Resp: 636368

Ion Ratio Lower Upper

45 100

46 42.8 0.0 0.0#



#15

Acetone

Concen: 1.874 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL039260.D

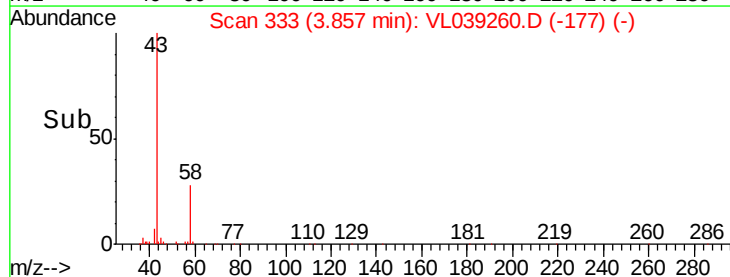
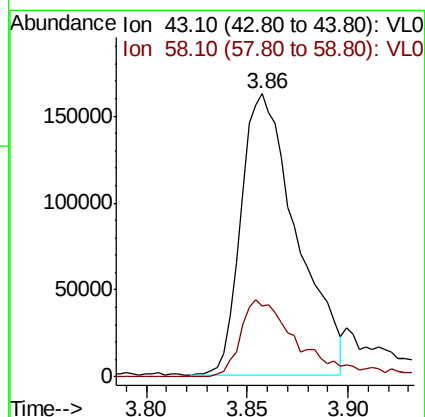
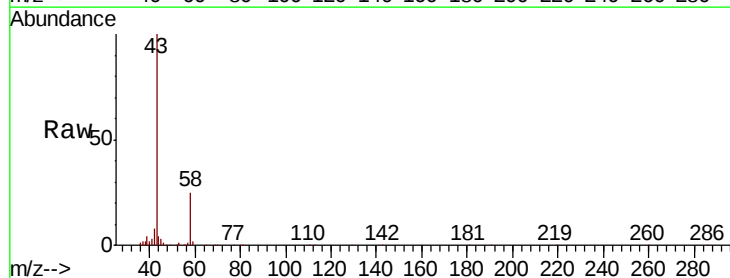
Acq: 13 Jun 2022 20:35

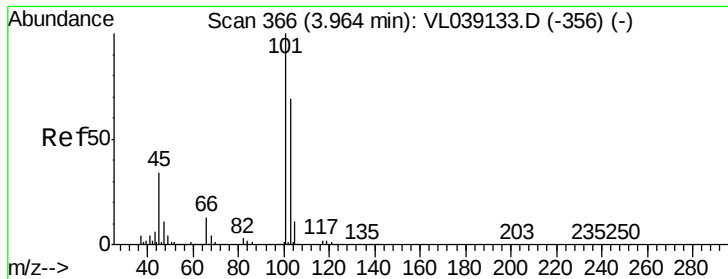
Tgt Ion: 43 Resp: 311164

Ion Ratio Lower Upper

43 100

58 30.5 22.5 33.7





#19

Isopropyl Alcohol

Concen: 0.689 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

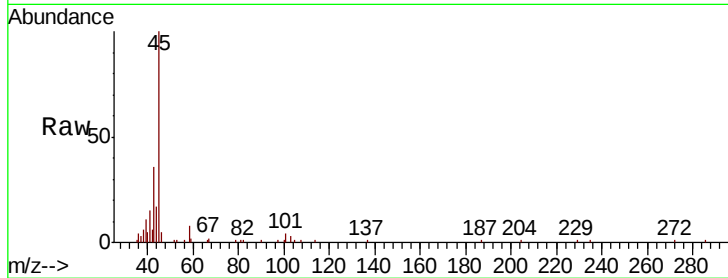
Acq: 13 Jun 2022 20:35

Tot Ion: 45 Resp: 53635

Ion Ratio Lower Upper

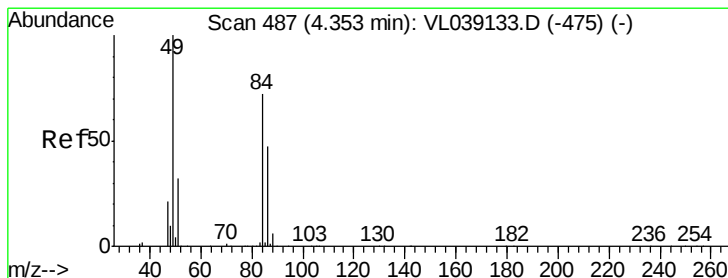
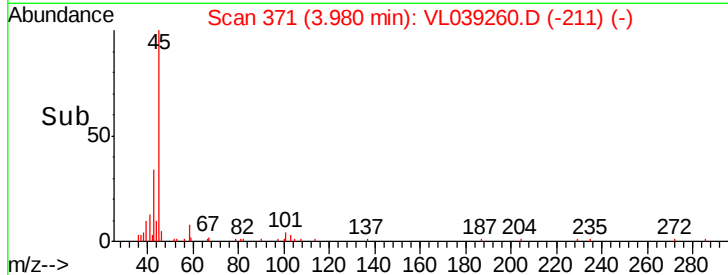
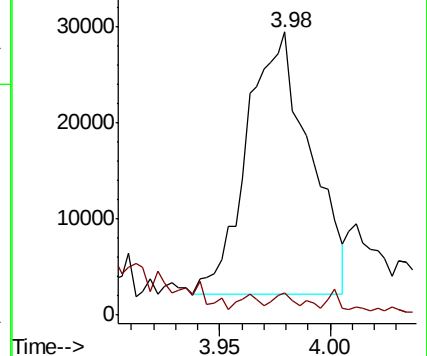
45 100

58 174.3 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.955 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL039260.D

Acq: 13 Jun 2022 20:35

Tgt Ion: 84 Resp: 136828

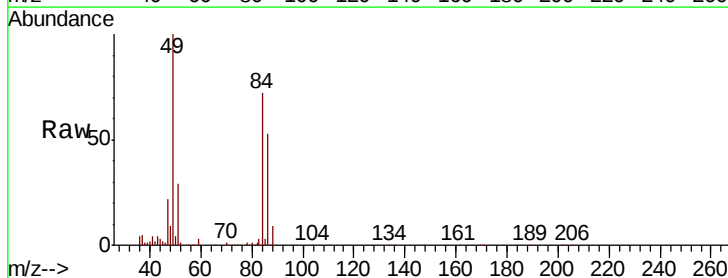
Ion Ratio Lower Upper

84 100

49 139.8 111.1 166.7

51 40.2 35.3 52.9

86 73.7 51.9 77.9

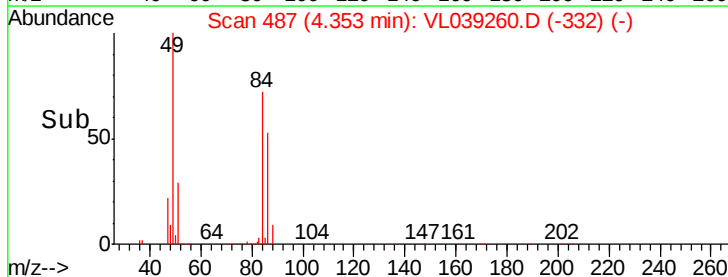
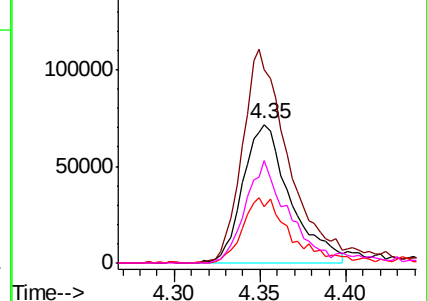


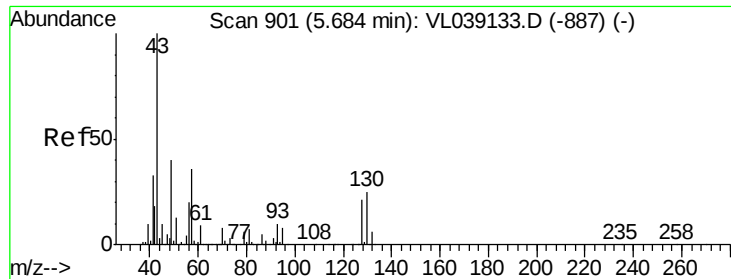
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

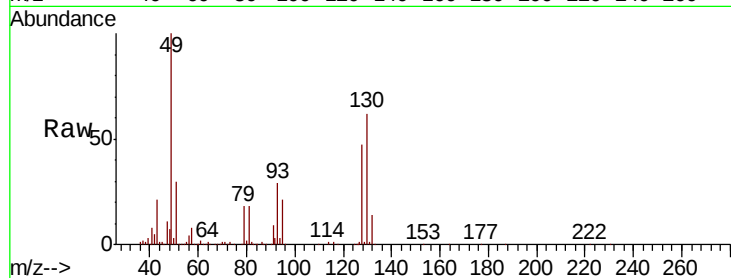
Ion 86.00 (85.70 to 86.70): VL0



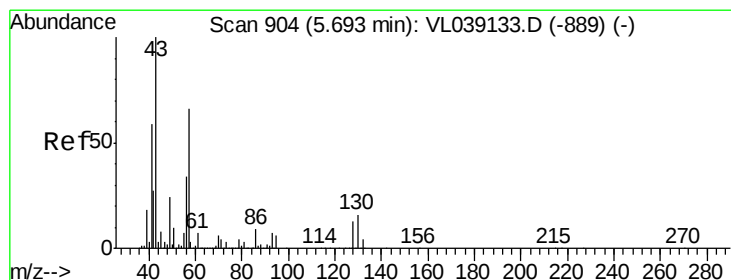
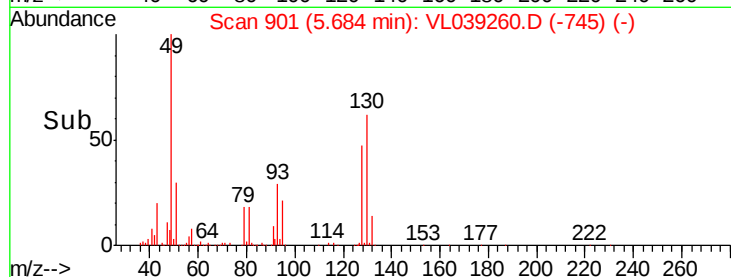
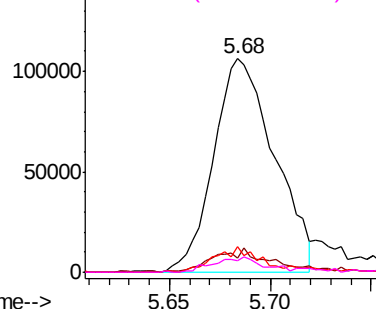


#25
Ethyl Acetate
Concen: 0.595 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jun 2022 20:35

Tot Ion:	43	Resp:	222505
Ion	Ratio	Lower	Upper
43	100		
45	12.0	8.2	12.2
61	10.4	8.4	12.6
70	7.7	5.6	8.4

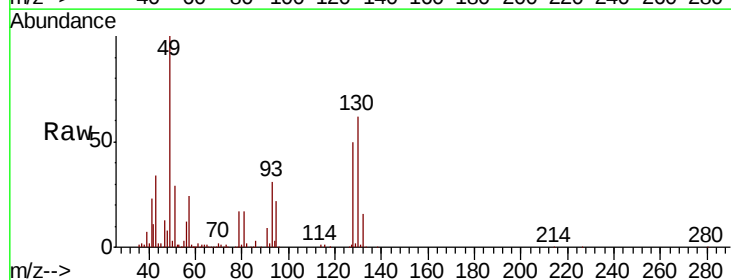


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

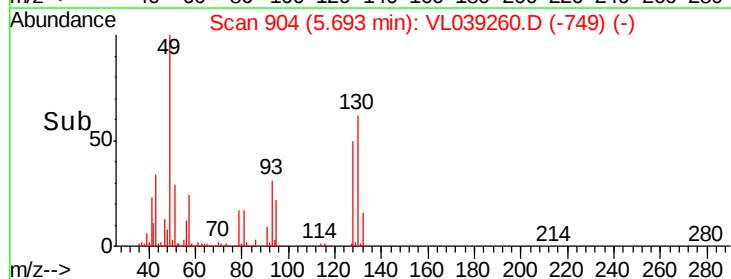
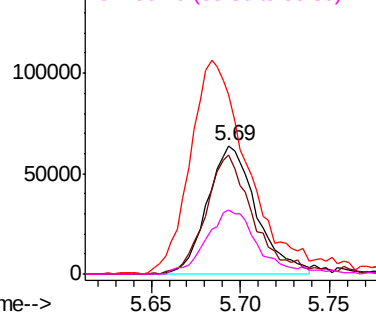


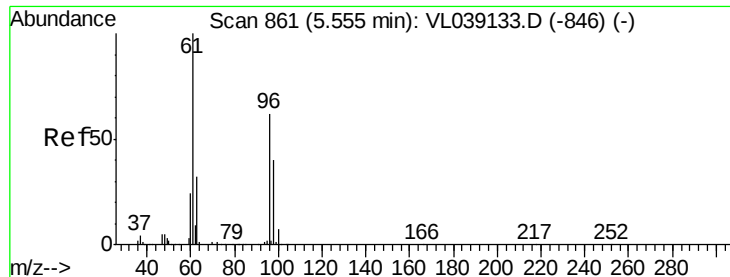
#26
Hexane
Concen: 0.741 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL039260.D
Acq: 13 Jun 2022 20:35

Tgt Ion:	57	Resp:	121948
Ion	Ratio	Lower	Upper
57	100		
41	94.4	72.4	108.6
43	204.3	187.0	280.6
56	54.4	41.8	62.6



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





#31

cis-1,2-Dichloroethene

Concen: 0.045 ppbv

RT: 5.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OTC-SG-2DL

Acq: 13 Jun 2022 20:35

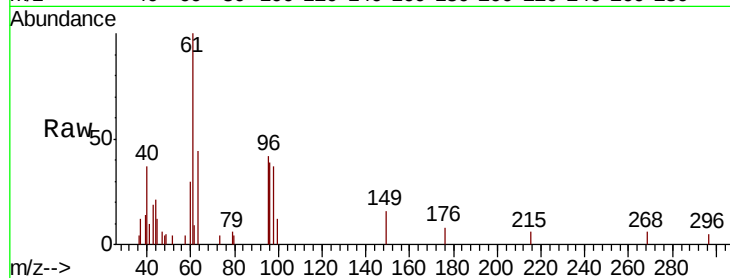
Tot Ion: 61 Resp: 7589

Ion Ratio Lower Upper

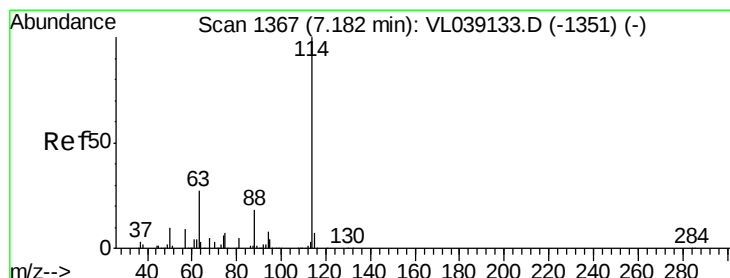
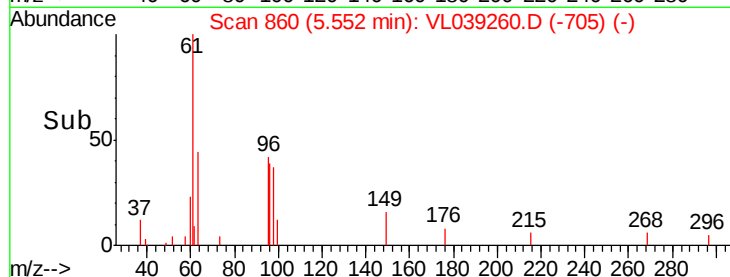
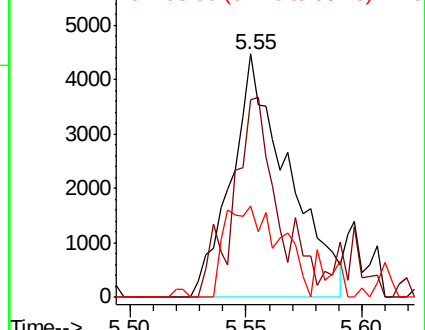
61 100

96 74.0 49.9 74.9

98 34.3 32.0 48.0



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: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.00 min

Lab File: VL039260.D

Acq: 13 Jun 2022 20:35

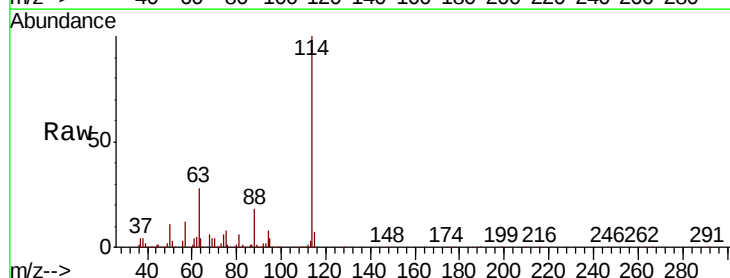
Tgt Ion: 114 Resp: 3746060

Ion Ratio Lower Upper

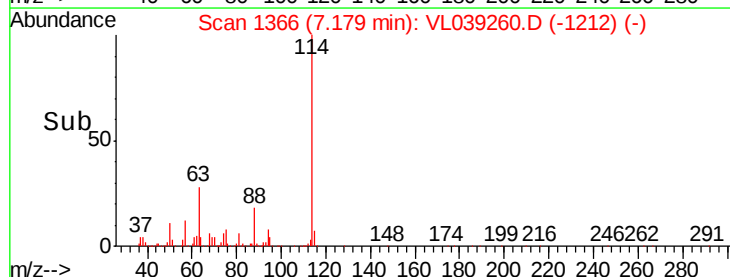
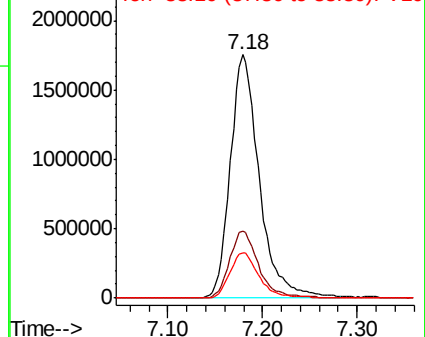
114 100

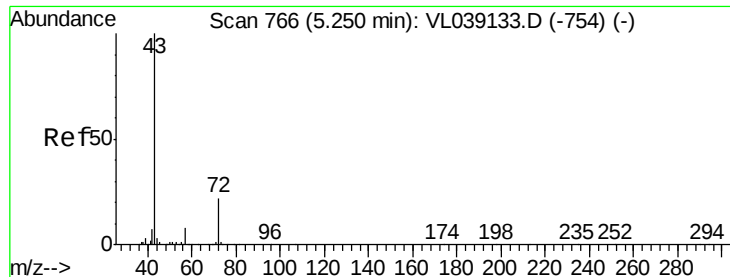
63 28.0 21.7 32.5

88 19.2 14.8 22.2



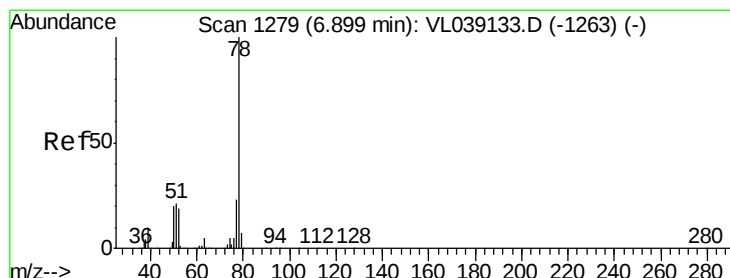
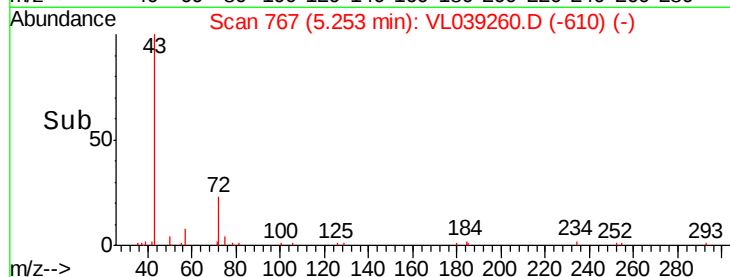
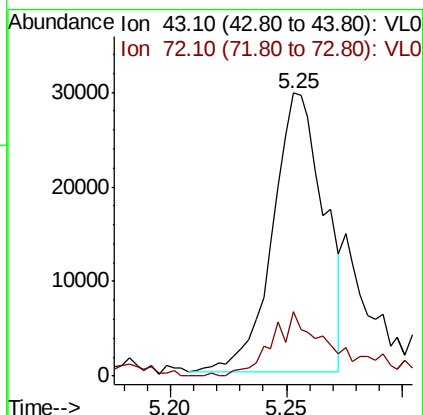
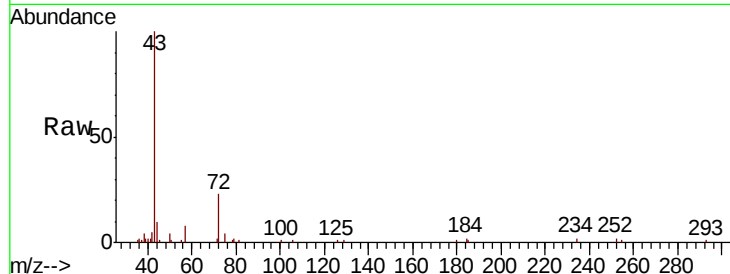
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





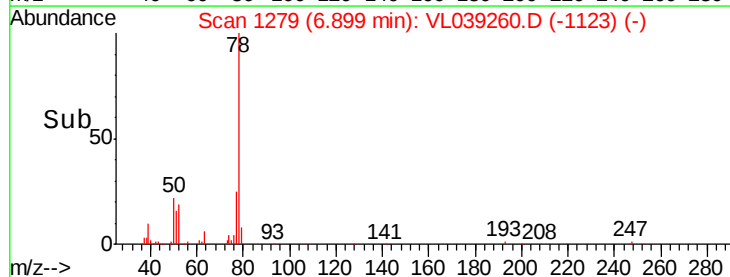
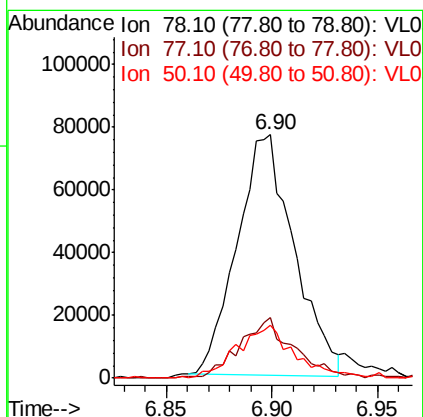
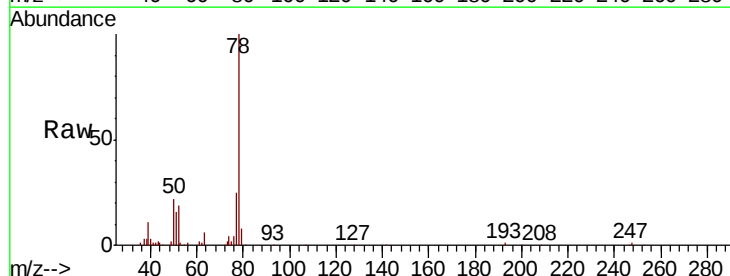
#34
 2-Butanone
 Concen: 0.222 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jun 2022 20:35

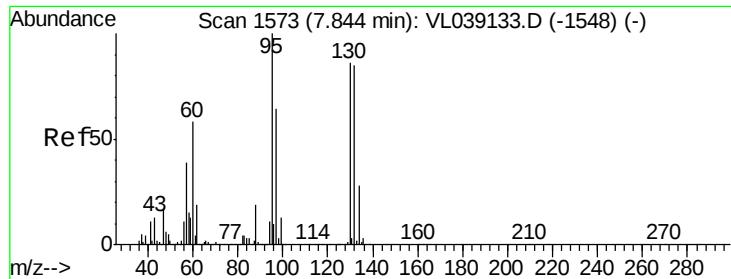
Tot Ion: 43 Resp: 45175
 Ion Ratio Lower Upper
 43 100
 72 30.8 18.2 27.2#



#36
 Benzene
 Concen: 0.472 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. -0.00 min
 Lab File: VL039260.D
 Acq: 13 Jun 2022 20:35

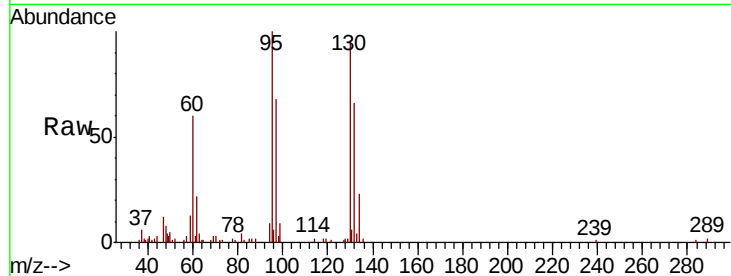
Tgt Ion: 78 Resp: 143608
 Ion Ratio Lower Upper
 78 100
 77 25.1 18.6 27.8
 50 22.2 15.8 23.8





#38
 Trichloroethene
 Concen: 0.250 ppbv
 RT: 7.84
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jun 2022 20:35

Tot Ion:130	Resp:	34923
Ion Ratio	Lower	Upper
130 100		
95 97.7	93.3	139.9
132 57.3	79.0	118.4#
97 68.1	59.4	89.2

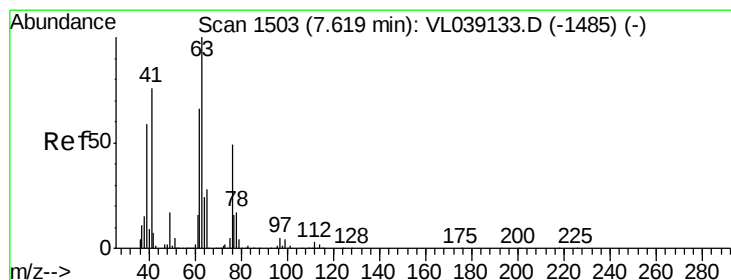
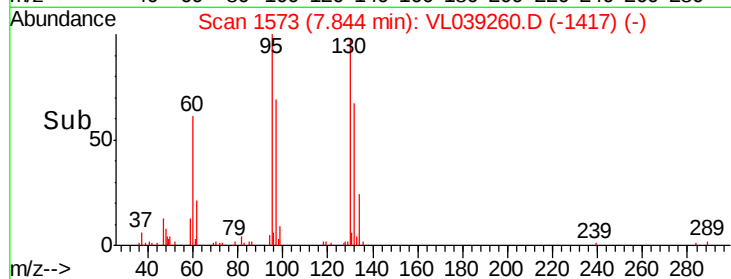
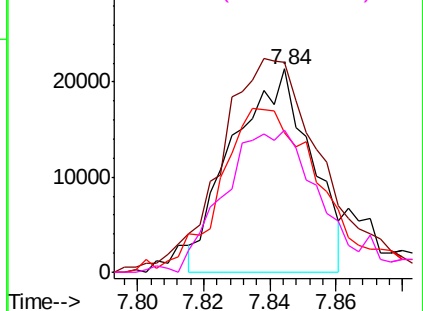


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

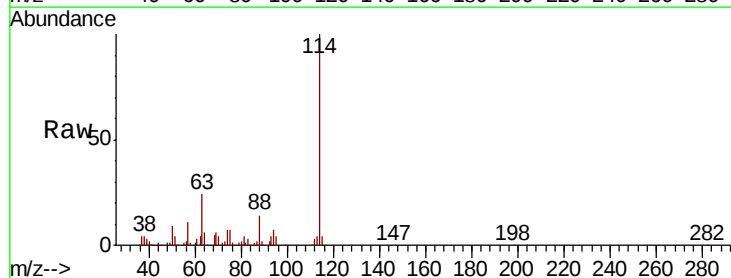
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39
 1,2-Dichloropropane
 Concen: 0.098 ppbv
 RT: 7.23 min Scan# 1383
 Delta R.T. -0.39 min
 Lab File: VL039260.D
 Acq: 13 Jun 2022 20:35

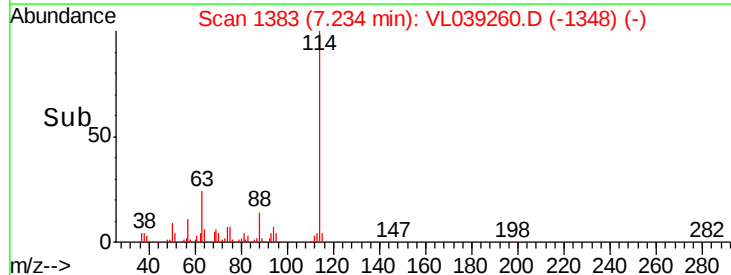
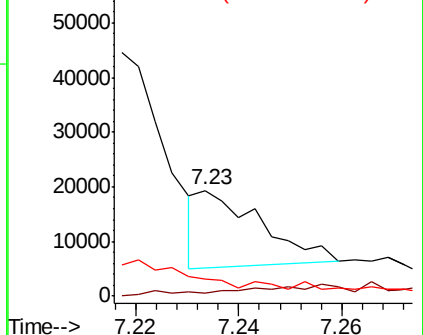
Tgt Ion: 63	Resp: 11826
Ion Ratio	Lower Upper
63 100	
41 0.0	60.8 91.2#
62 12.6	52.9 79.3#

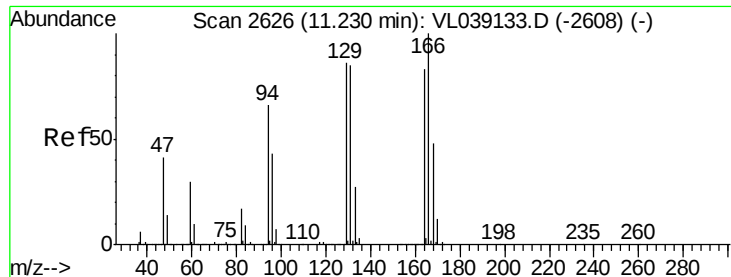


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 76.463 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 13 Jun 2022 20:35

Tot Ion:164 Resp: 9079508

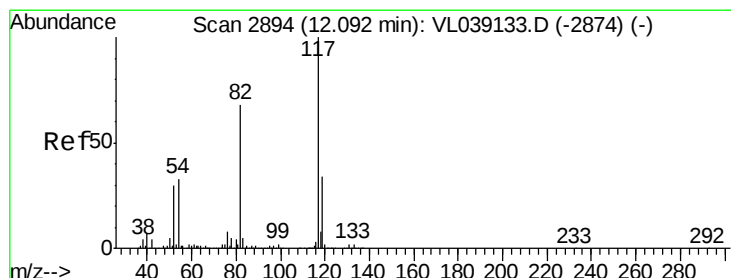
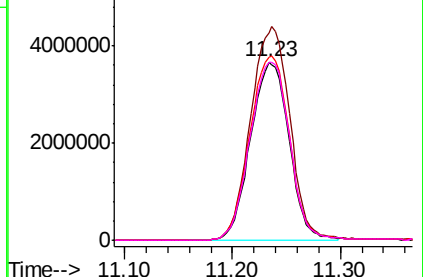
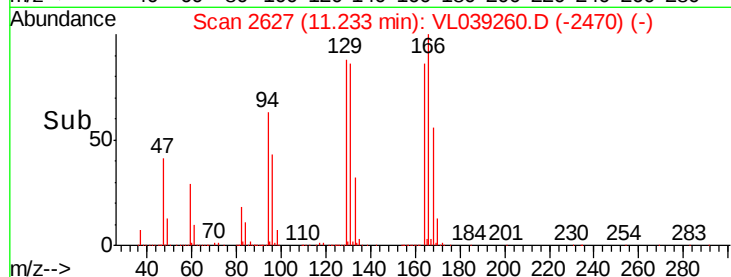
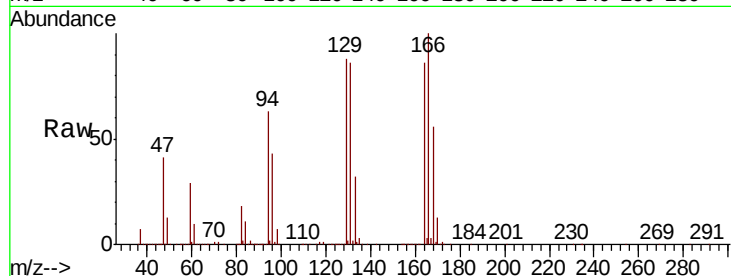
Ion Ratio Lower Upper

164 100

166 116.4 96.3 144.5

129 102.4 82.5 123.7

131 99.9 82.1 123.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL039260.D

Acq: 13 Jun 2022 20:35

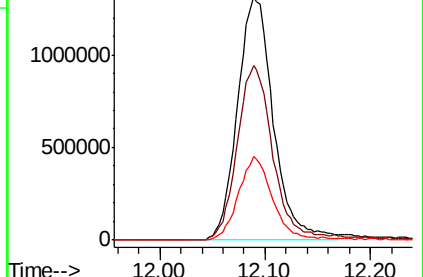
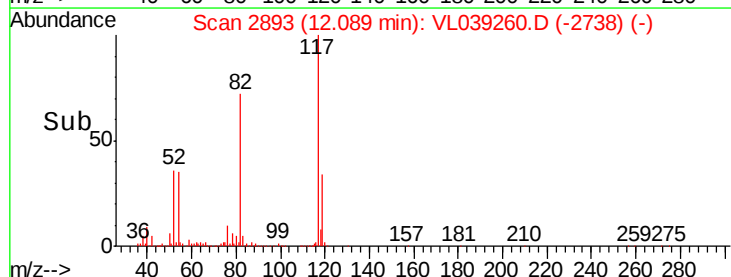
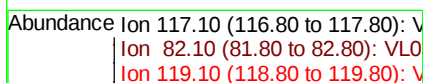
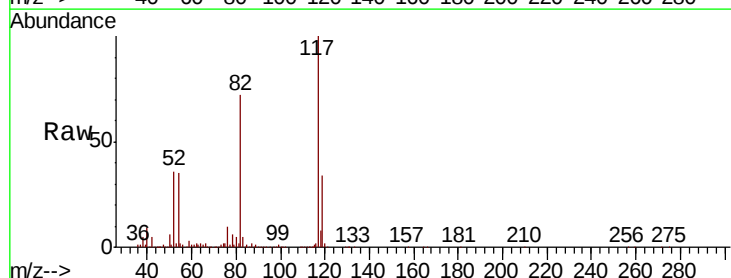
Tgt Ion:117 Resp: 3103562

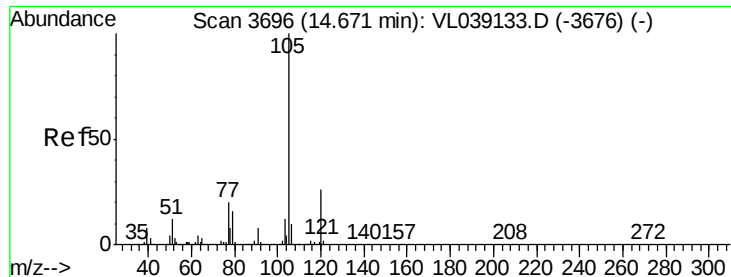
Ion Ratio Lower Upper

117 100

82 72.6 55.1 82.7

119 33.0 24.7 37.1





#62

Isopropylbenzene

Concen: 0.109 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

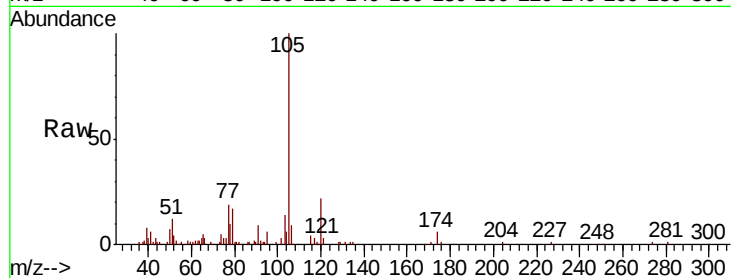
Acq: 13 Jun 2022 20:35

Tot Ion: 105 Resp: 57409

Ion Ratio Lower Upper

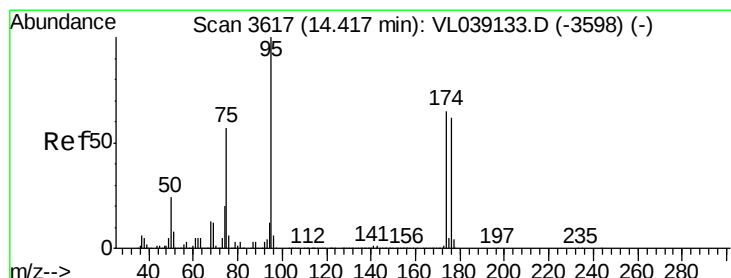
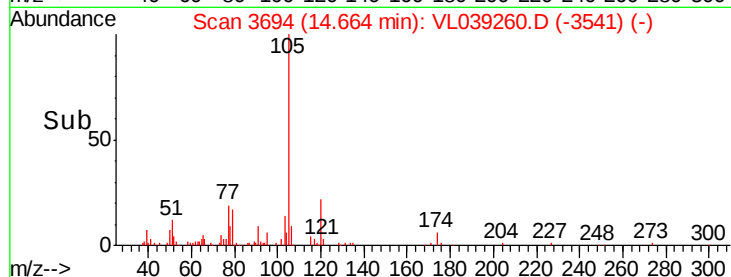
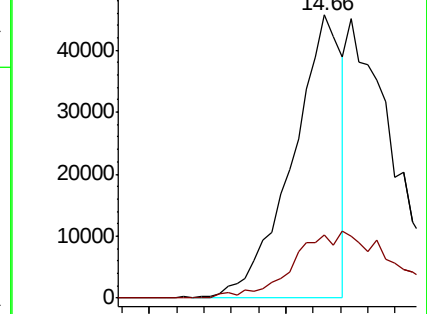
105 100

120 0.0 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.100 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.00 min

Lab File: VL039260.D

Acq: 13 Jun 2022 20:35

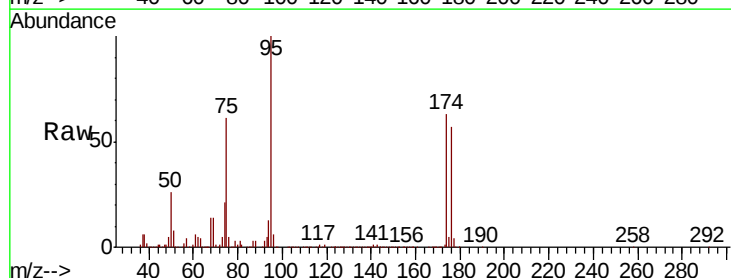
Tgt Ion: 95 Resp: 2591428

Ion Ratio Lower Upper

95 100

174 63.0 53.8 80.8

175 4.6 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

