

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082522\
 Data File : VL039590.D
 Acq On : 25 Aug 2022 23:04
 Operator : SY/AP
 Sample : N4351-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Aug 26 06:27:21 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.20	49	1073626	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2757809	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2506777	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1837597	9.72	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.20%

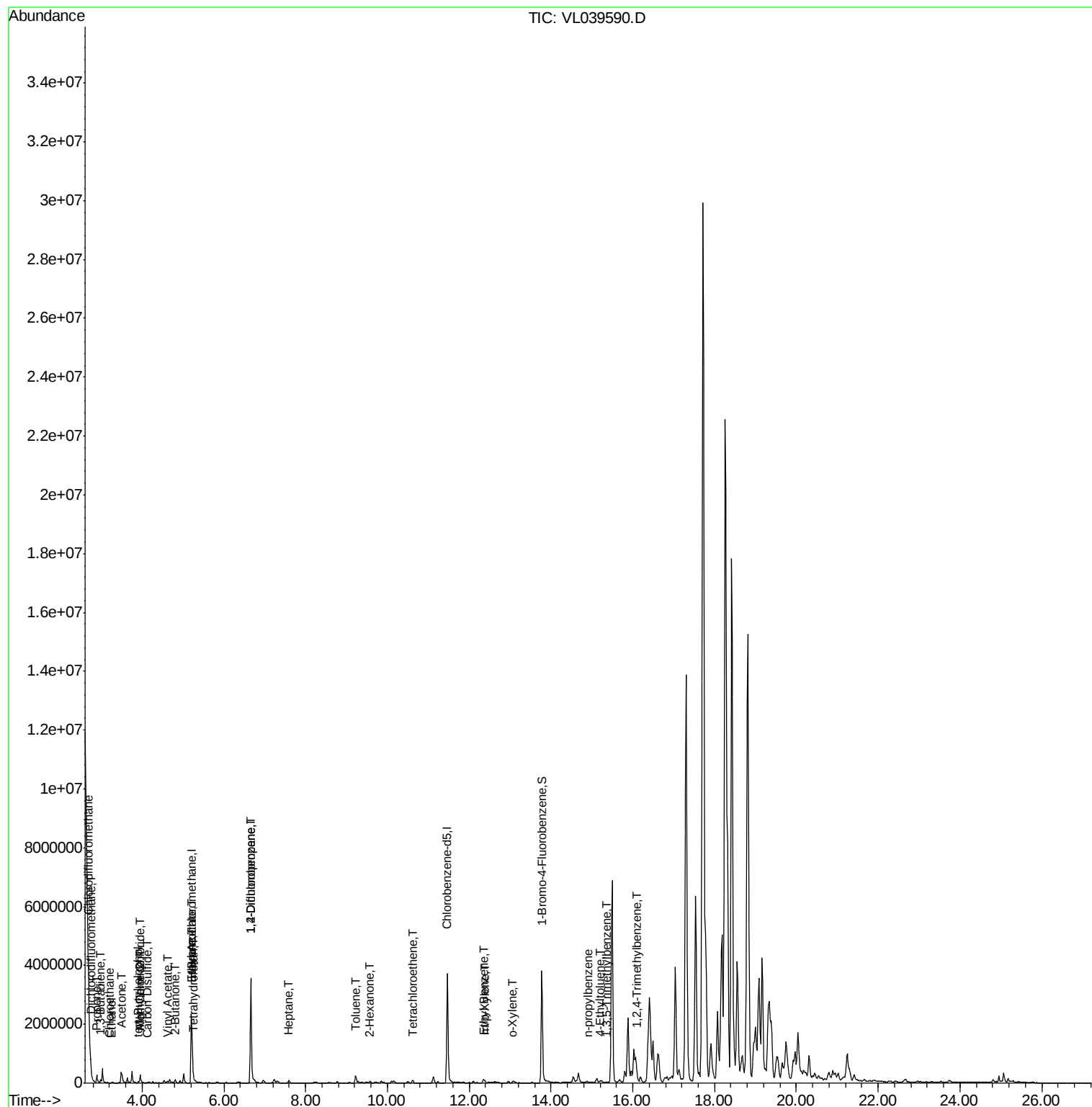
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	233563	1.635 ppbv	100
3) Chlorodifluoromethane	2.69	51	1201249	9.391 ppbv	95
7) Chloroethane	3.21	64	903	0.039 ppbv #	70
9) Propene	2.89	41	62879	1.074 ppbv	84
10) Heptane	7.58	43	33417	0.247 ppbv	91
13) Ethanol	3.26	45	19199	4.564 ppbv	77
15) Acetone	3.49	43	423934	3.525 ppbv	97
16) 1,3-Butadiene	2.98	39	23132	0.369 ppbv #	17
17) tert-Butyl alcohol	3.91	59	12793	0.125 ppbv #	71
20) Methylene Chloride	3.95	84	90758	1.858 ppbv	93
21) Allyl Chloride	3.95	41	2473	0.032 ppbv #	50
23) Vinyl Acetate	4.64	43	29197	0.511 ppbv #	54
25) Ethyl Acetate	5.23	43	253039	0.983 ppbv #	78
26) Hexane	5.22	57	341966	3.256 ppbv #	37
27) Carbon Disulfide	4.14	76	15587	0.139 ppbv #	47
34) 2-Butanone	4.81	43	148429	1.083 ppbv	98
39) 1,2-Dichloropropane	6.66	63	660475	8.356 ppbv #	25
41) Tetrahydrofuran	5.27	42	5499	0.067 ppbv #	37
51) 2-Hexanone	9.57	43	23002	0.146 ppbv #	29
52) Tetrachloroethene	10.62	164	13428	0.169 ppbv #	85
53) Toluene	9.22	91	198429	0.843 ppbv	96
58) Ethyl Benzene	12.35	91	56477	0.196 ppbv	94
59) m/p-Xylene	12.38	91	31674	0.123 ppbv #	32
60) o-Xylene	13.06	91	8947	0.036 ppbv #	1
64) n-propylbenzene	14.92	120	3472	0.036 ppbv #	8
72) 4-Ethyltoluene	15.19	105	22771	0.079 ppbv #	48
73) 1,3,5-Trimethylbenzene	15.35	105	11467	0.043 ppbv	93
74) 1,2,4-Trimethylbenzene	16.11	105	107634	0.364 ppbv #	68

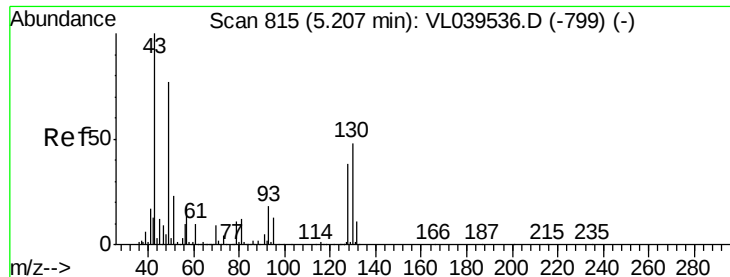
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 06:05:16 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

Acq: 25 Aug 2022 23:04

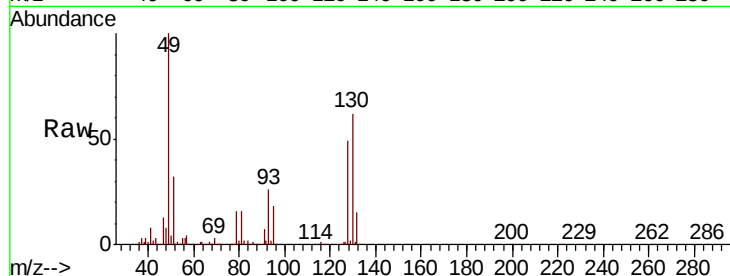
Tot Ion: 49 Resp: 1073626

Ion Ratio Lower Upper

49 100

128 48.9 26.7 80.0

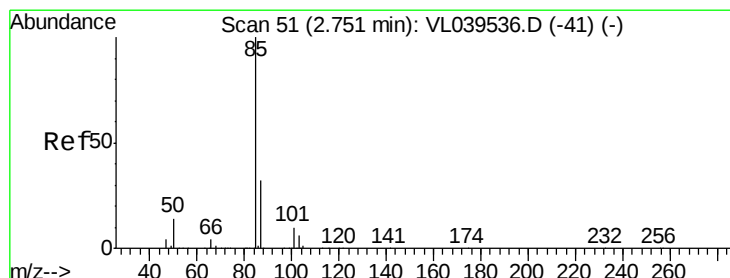
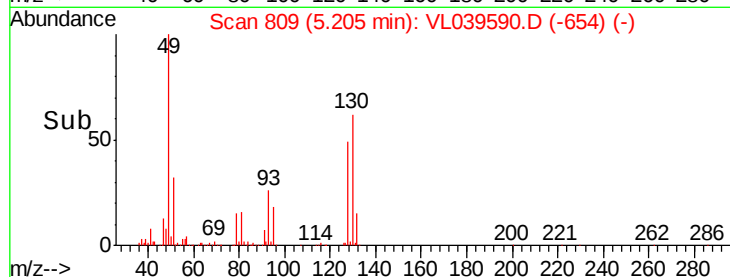
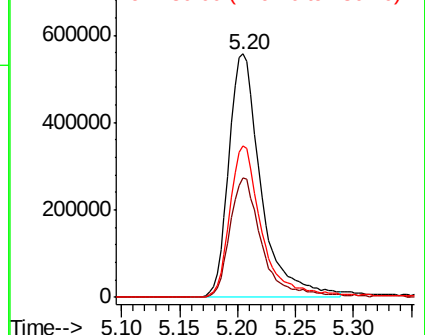
130 62.7 34.3 102.8



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: 1.635 ppbv

RT: 2.75 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL039590.D

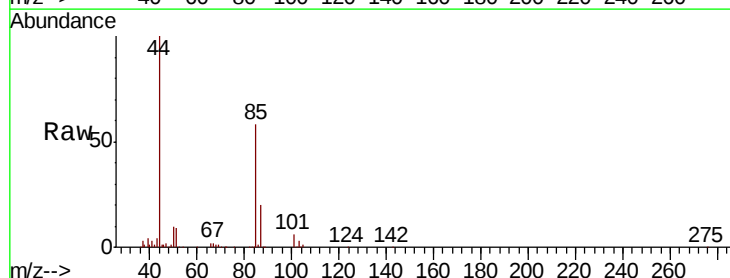
Acq: 25 Aug 2022 23:04

Tgt Ion: 85 Resp: 233563

Ion Ratio Lower Upper

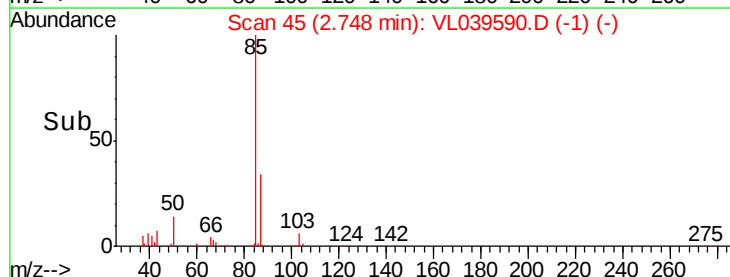
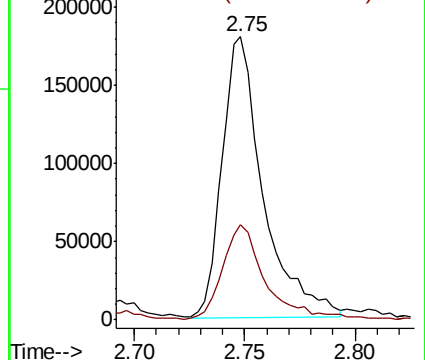
85 100

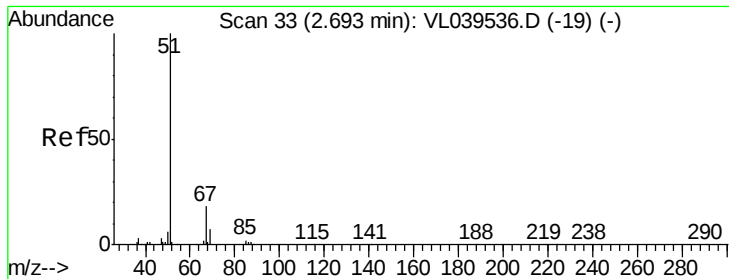
87 33.4 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.391 ppbv

RT: 2.69 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SV1

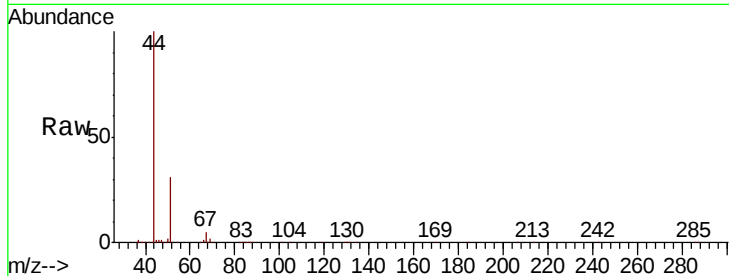
Acq: 25 Aug 2022 23:04

Tot Ion: 51 Resp: 1201249

Ion Ratio Lower Upper

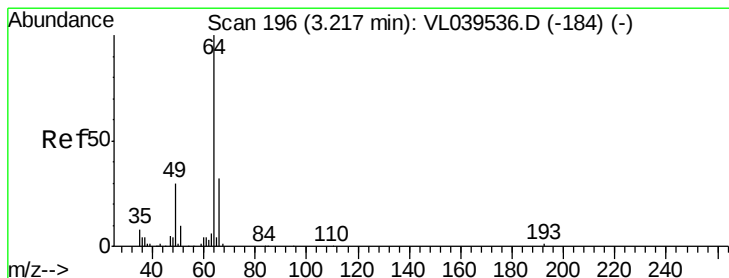
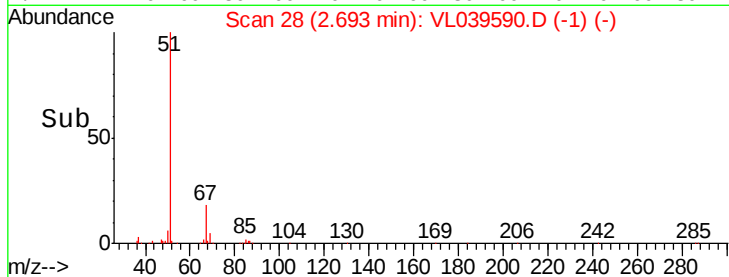
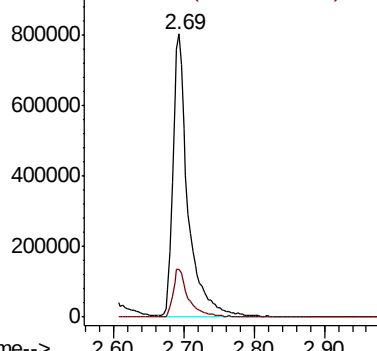
51 100

67 17.4 15.7 23.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.039 ppbv

RT: 3.21 min Scan# 188

Delta R.T. -0.01 min

Lab File: VL039590.D

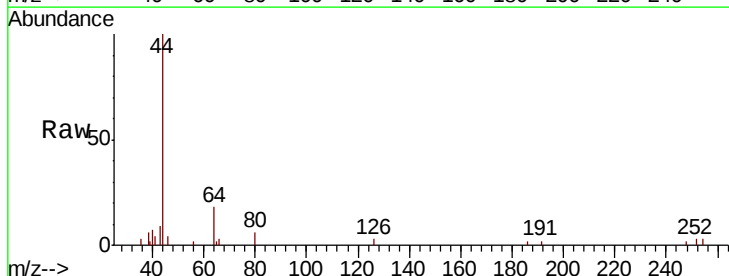
Acq: 25 Aug 2022 23:04

Tgt Ion: 64 Resp: 903

Ion Ratio Lower Upper

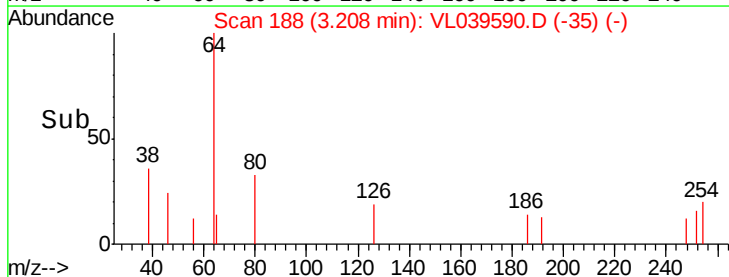
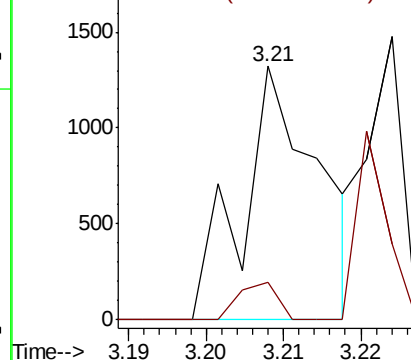
64 100

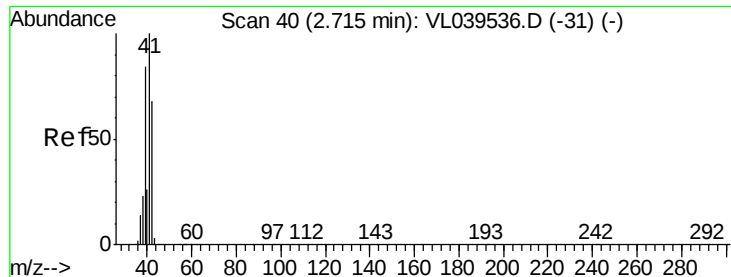
66 14.7 24.7 37.1#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 1.074 ppbv

RT: 2.89 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

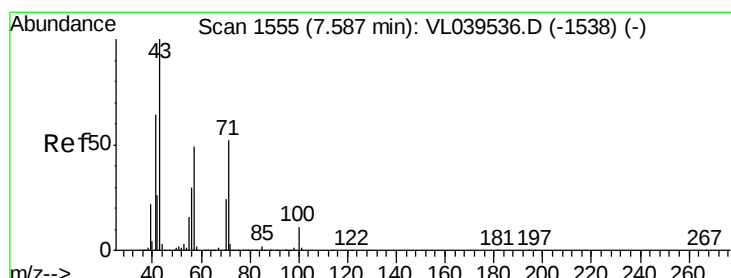
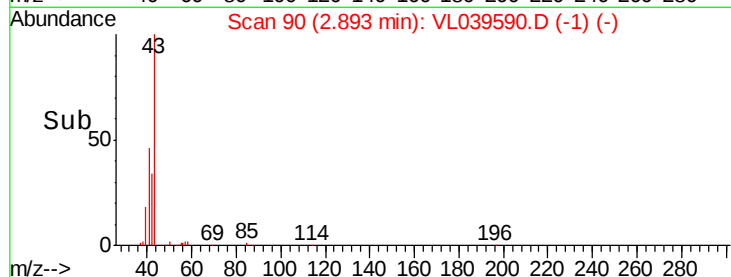
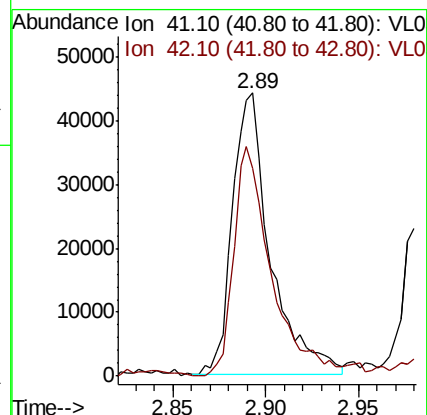
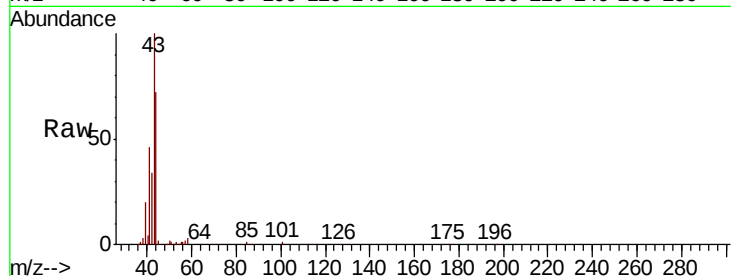
Acq: 25 Aug 2022 23:04

Tot Ion: 41 Resp: 62879

Ion Ratio Lower Upper

41 100

42 82.2 55.2 82.8



#10

Heptane

Concen: 0.247 ppbv

RT: 7.58 min Scan# 1549

Delta R.T. -0.00 min

Lab File: VL039590.D

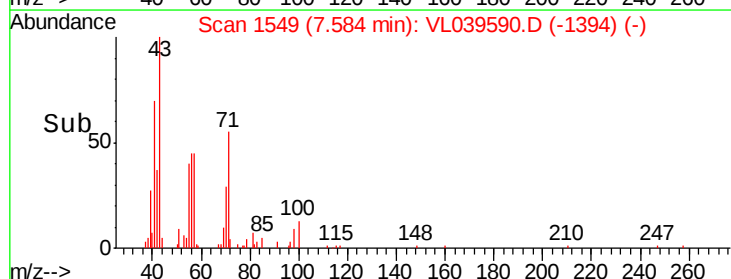
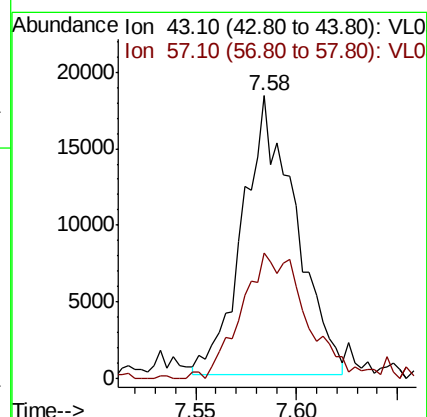
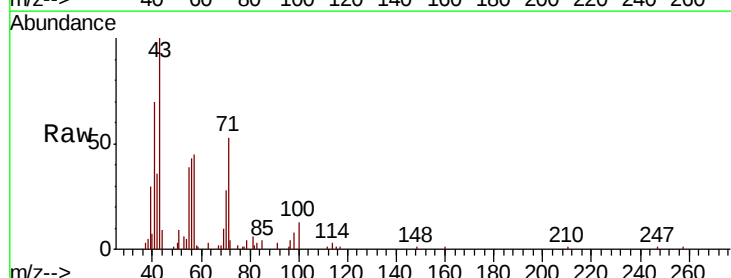
Acq: 25 Aug 2022 23:04

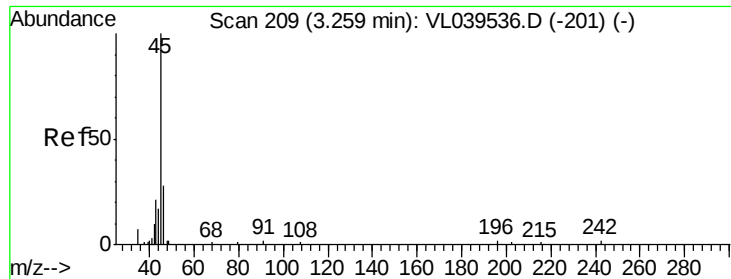
Tgt Ion: 43 Resp: 33417

Ion Ratio Lower Upper

43 100

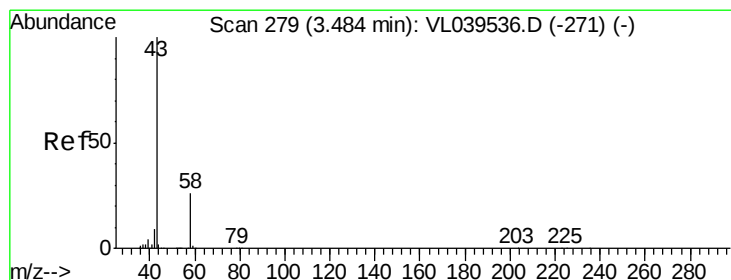
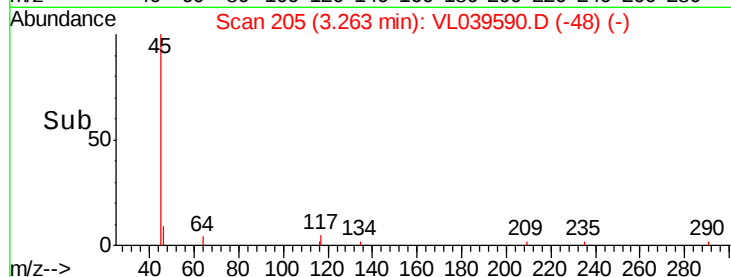
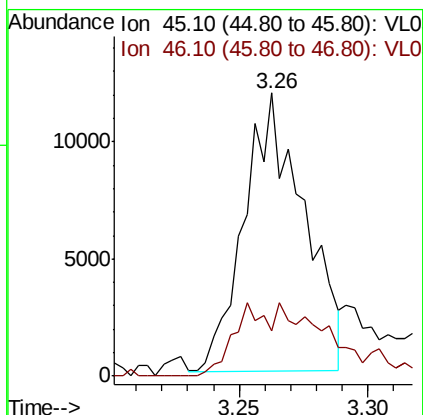
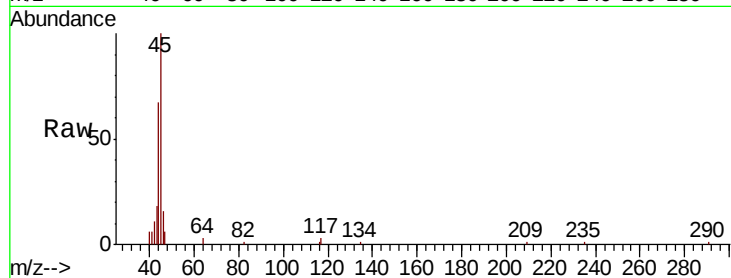
57 56.7 40.5 60.7





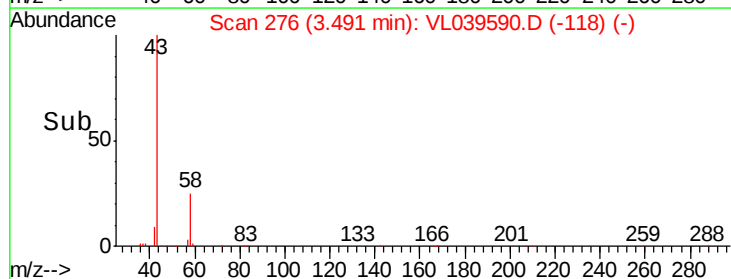
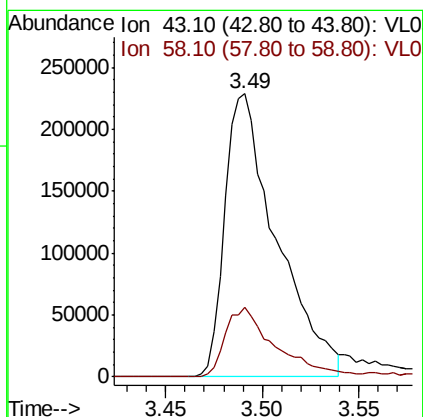
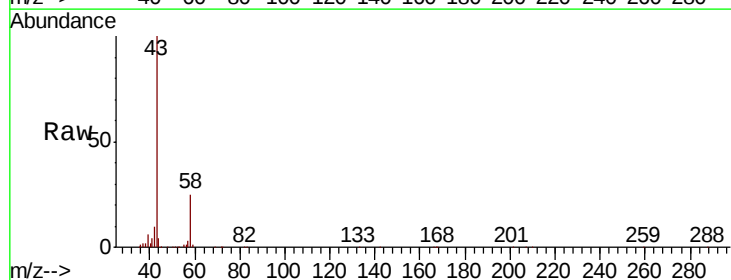
#13
Ethanol
Concen: 4.564 ppbv
RT: 3.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 25 Aug 2022 23:04

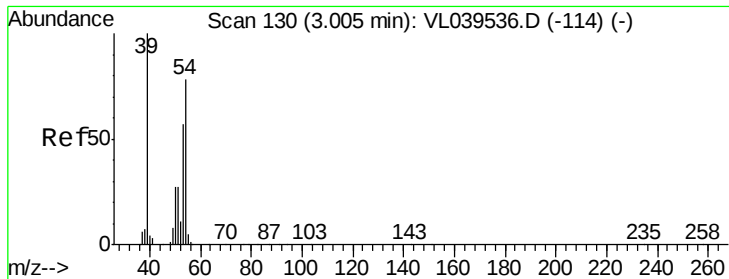
Tot Ion: 45 Resp: 19199
Ion Ratio Lower Upper
45 100
46 40.0 22.8 91.2



#15
Acetone
Concen: 3.525 ppbv
RT: 3.49 min Scan# 276
Delta R.T. 0.01 min
Lab File: VL039590.D
Acq: 25 Aug 2022 23:04

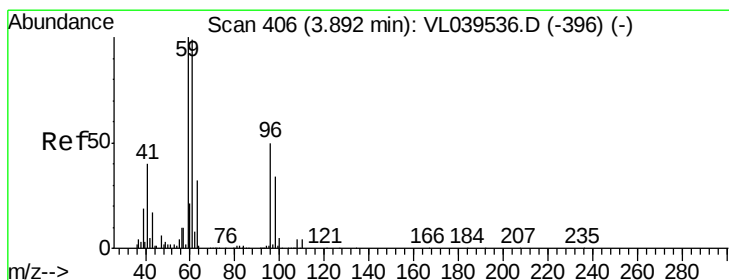
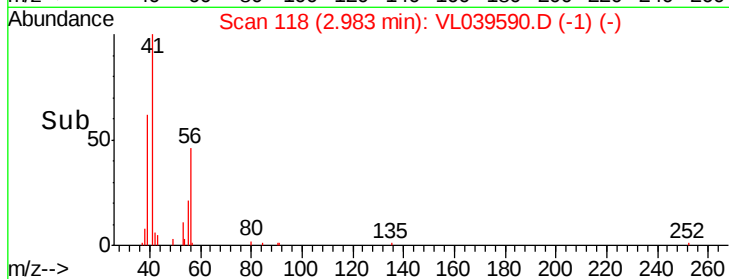
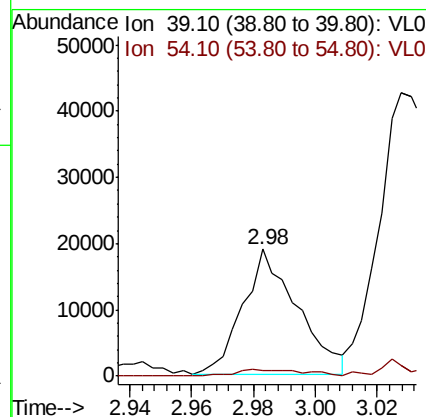
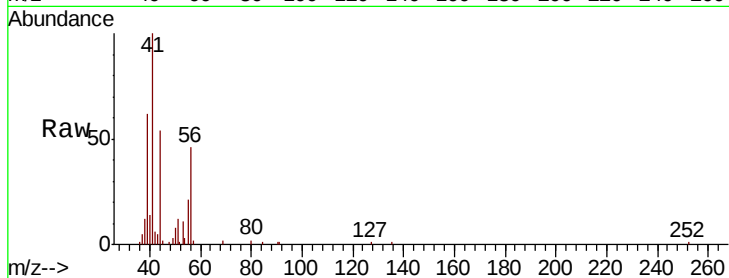
Tgt Ion: 43 Resp: 423934
Ion Ratio Lower Upper
43 100
58 24.8 21.0 31.6





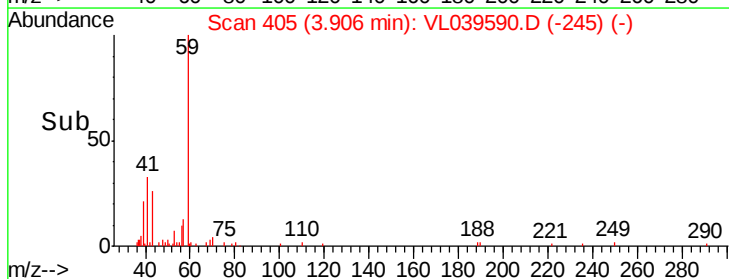
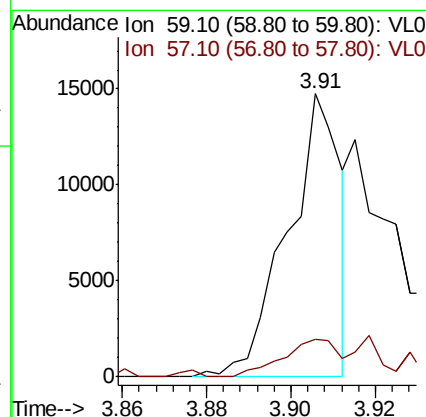
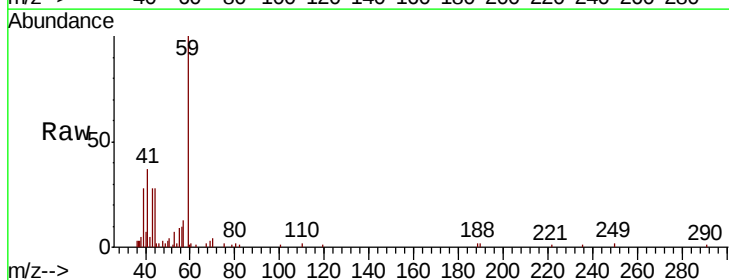
#16
 1,3-Butadiene
 Concen: 0.369 ppbv
 RT: 2.98
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 SV1
 Acq: 25 Aug 2022 23:04

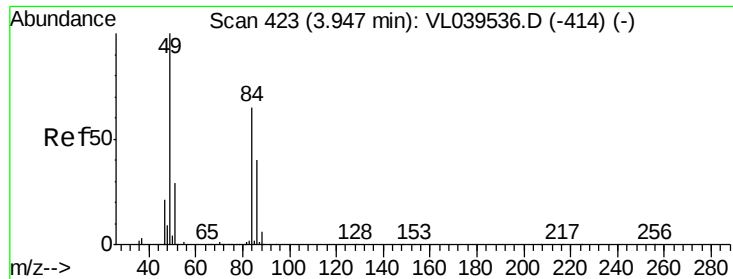
Tot Ion: 39 Resp: 23132
 Ion Ratio Lower Upper
 39 100
 54 6.4 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.125 ppbv
 RT: 3.91 min Scan# 405
 Delta R.T. 0.01 min
 Lab File: VL039590.D
 Acq: 25 Aug 2022 23:04

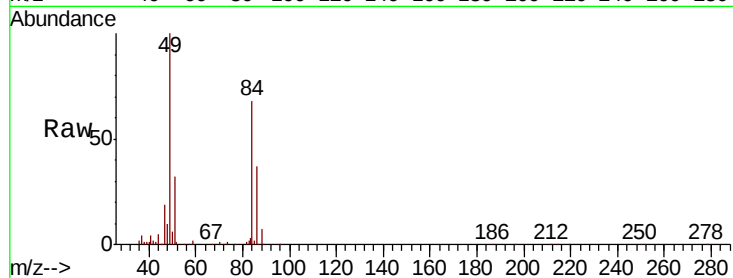
Tgt Ion: 59 Resp: 12793
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.7 13.1#



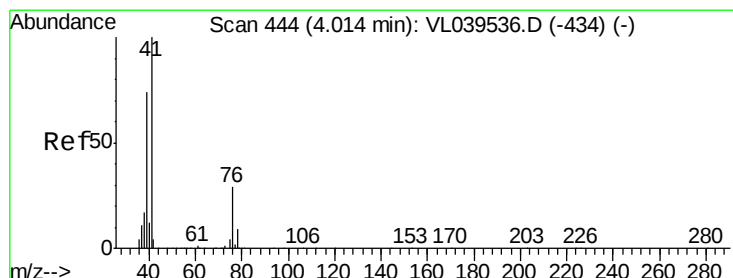
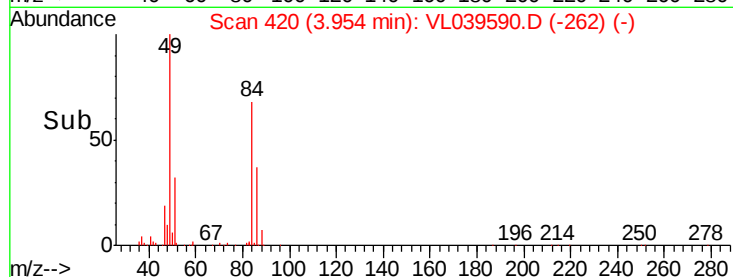
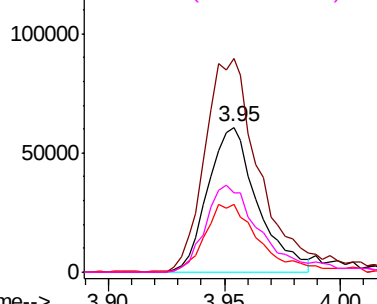


#20
Methvlene Chloride
Concen: 1.858 ppbv
RT: 3.95 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV1
Acq: 25 Aug 2022 23:04

Tot Ion:	84	Resp:	90758
Ion	Ratio	Lower	Upper
84	100		
49	147.2	123.1	184.7
51	45.7	34.4	51.6
86	54.8	51.1	76.7

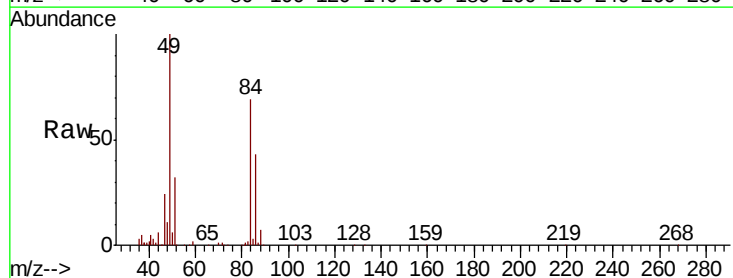


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

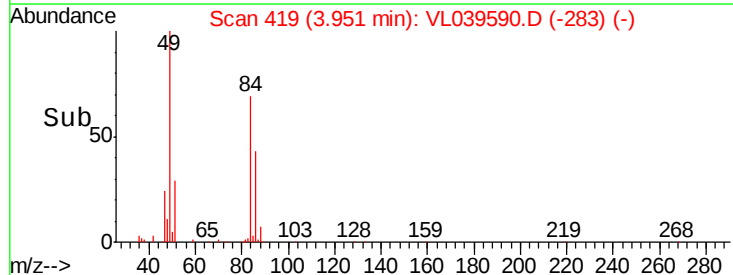
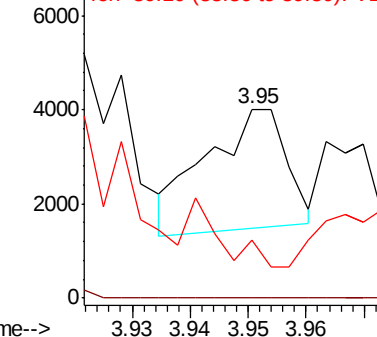


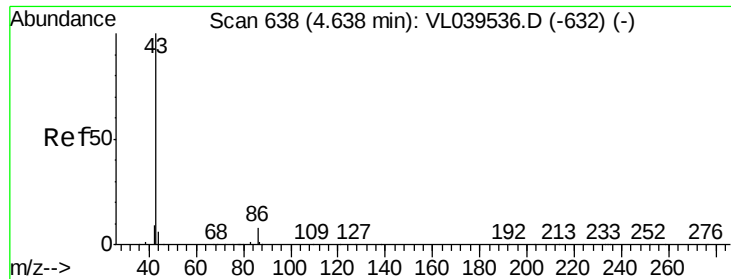
#21
Allyl Chloride
Concen: 0.032 ppbv
RT: 3.95 min Scan# 419
Delta R.T. -0.06 min
Lab File: VL039590.D
Acq: 25 Aug 2022 23:04

Tgt Ion:	41	Resp:	2473
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	121.5	63.5	95.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.511 ppbv

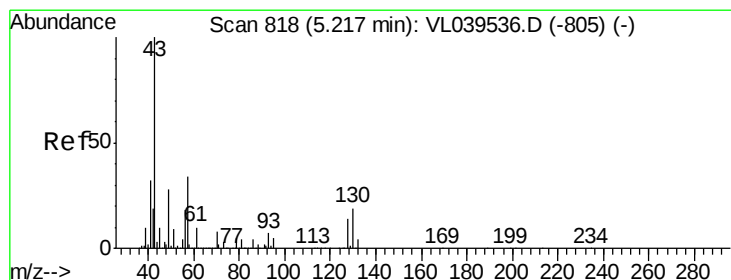
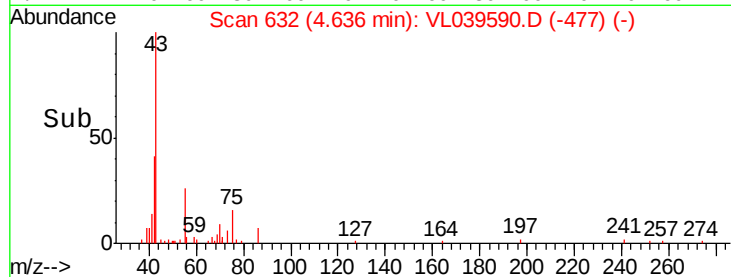
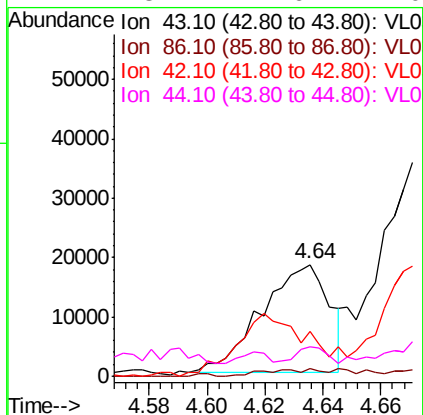
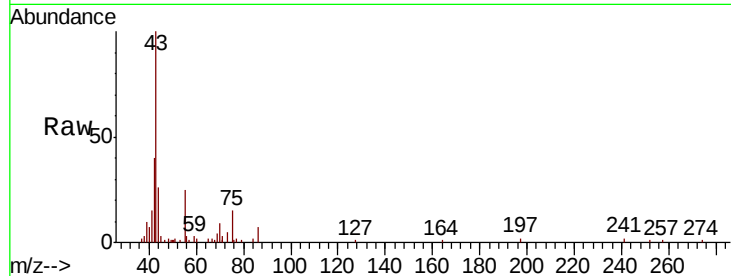
RT: 4.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 23:04

Tot Ion:	43	Resp:	29197
Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.0	7.6#
42	38.8	7.7	11.5#
44	18.4	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.983 ppbv

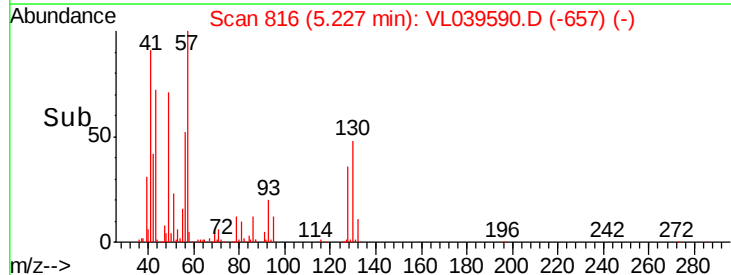
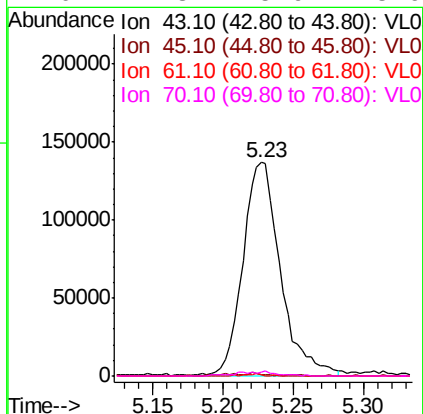
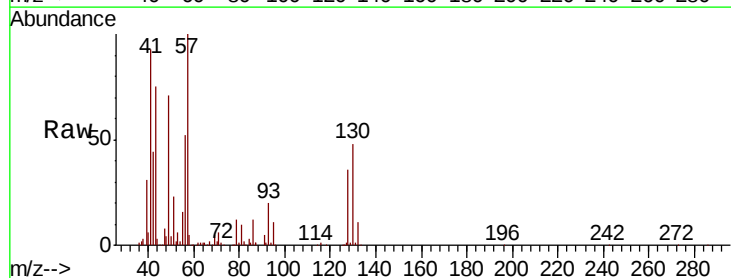
RT: 5.23 min Scan# 816

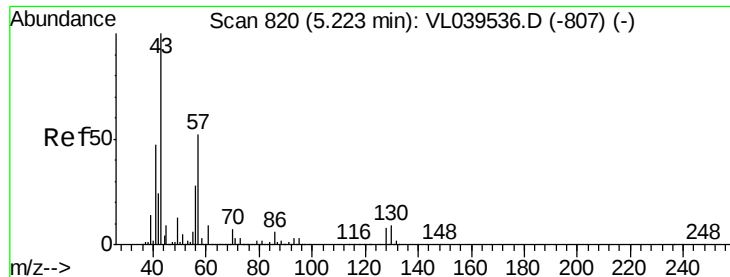
Delta R.T. 0.01 min

Lab File: VL039590.D

Acq: 25 Aug 2022 23:04

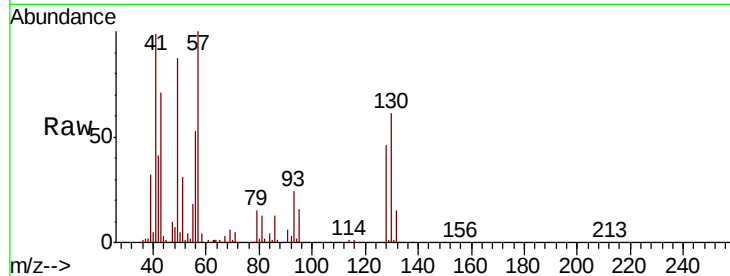
Tgt Ion:	43	Resp:	253039
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.2	12.4#
61	0.5	8.3	12.5#
70	2.3	5.9	8.9#



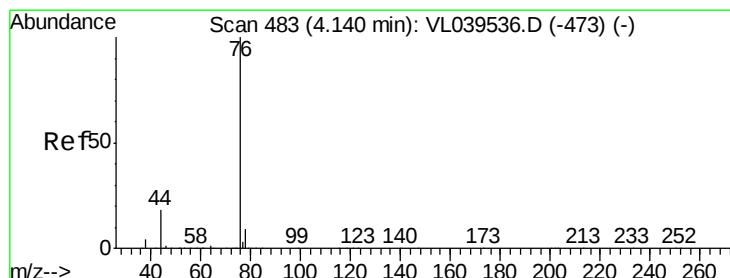
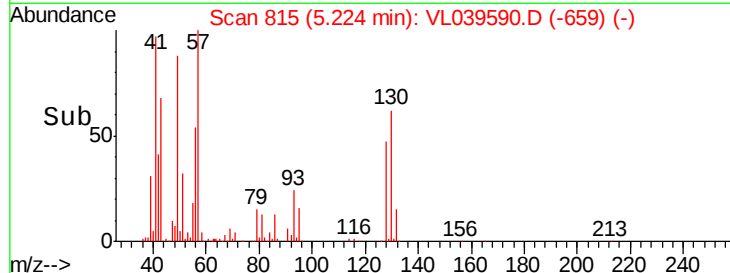
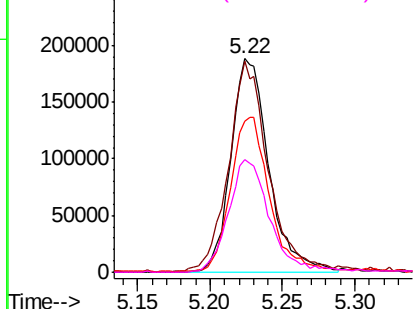


#26
Hexane
Concen: 3.256 ppbv
RT: 5.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 25 Aug 2022 23:04

Tot Ion:	57	Resp:	341966
Ion	Ratio	Lower	Upper
57	100		
41	107.2	76.9	115.3
43	75.7	191.0	286.6#
56	58.8	43.2	64.8

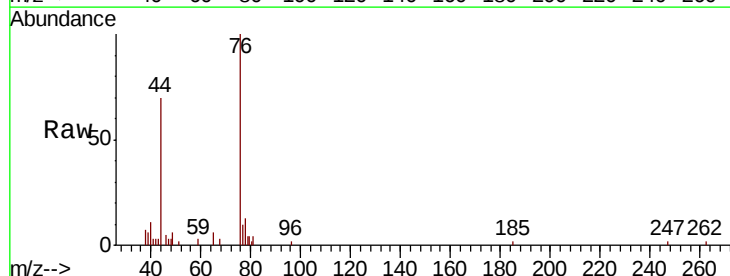


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

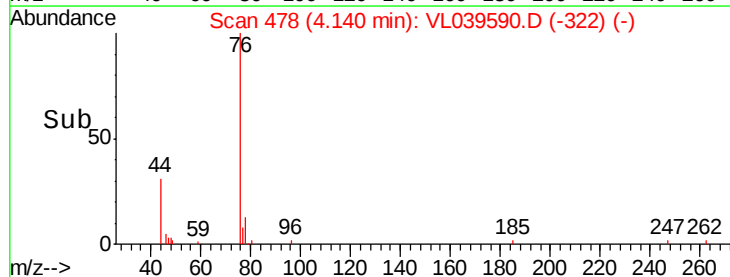
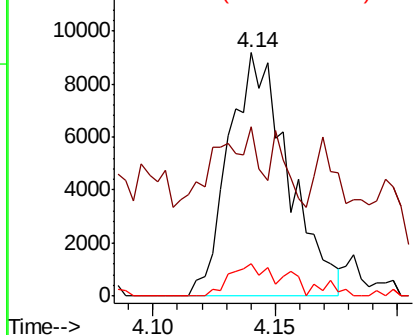


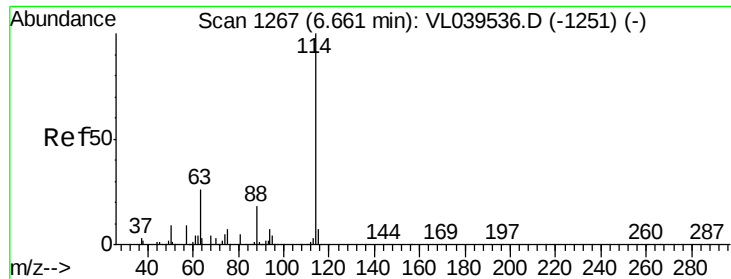
#27
Carbon Disulfide
Concen: 0.139 ppbv
RT: 4.14 min Scan# 478
Delta R.T. 0.00 min
Lab File: VL039590.D
Acq: 25 Aug 2022 23:04

Tgt Ion:	76	Resp:	15587
Ion	Ratio	Lower	Upper
76	100		
44	51.1	14.6	21.8#
78	14.6	7.8	11.6#



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

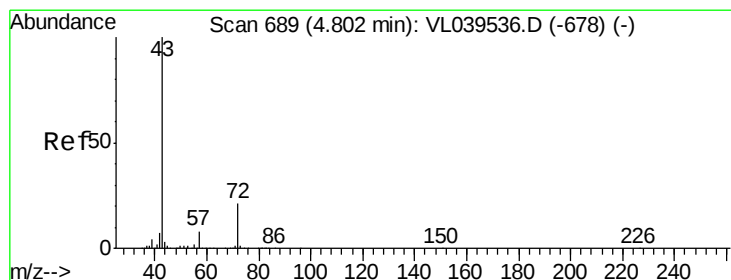
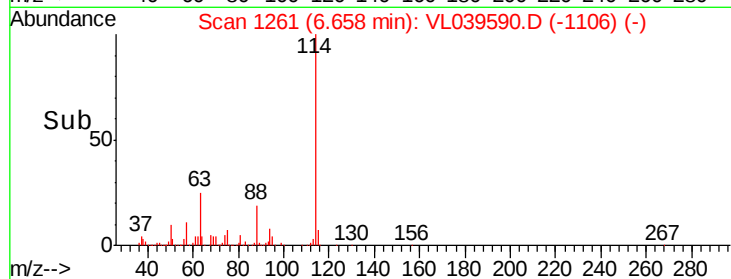
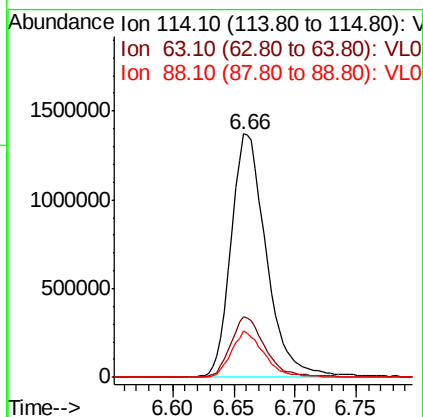
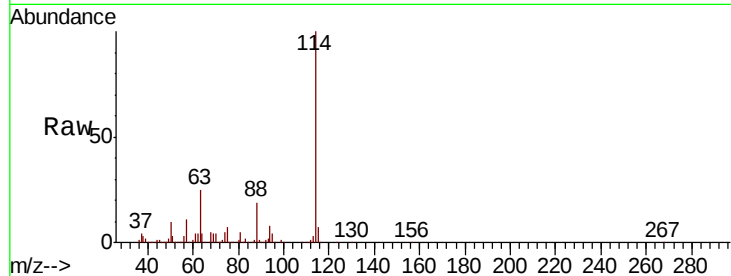




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.66
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 SV1
 Acq: 25 Aug 2022 23:04

Tot Ion:114 Resp: 2757809

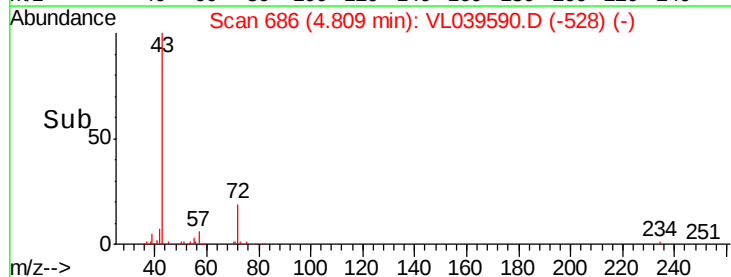
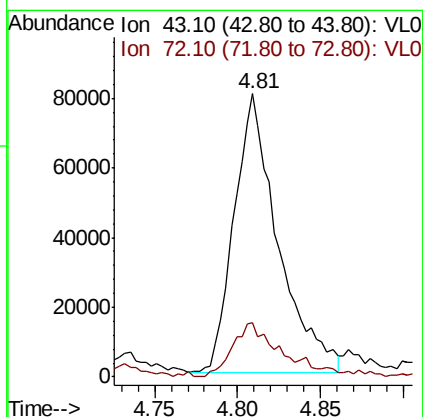
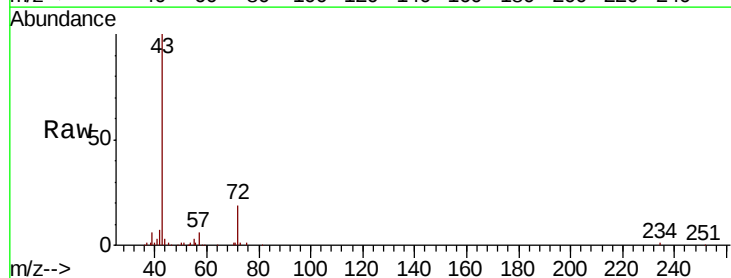
Ion	Ratio	Lower	Upper
114	100		
63	24.5	20.2	30.4
88	17.9	14.5	21.7

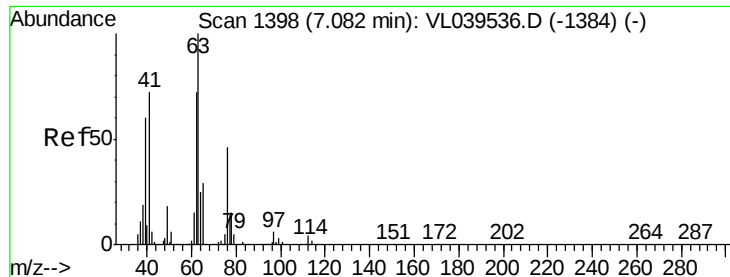


#34
 2-Butanone
 Concen: 1.083 ppbv
 RT: 4.81 min Scan# 686
 Delta R.T.: 0.01 min
 Lab File: VL039590.D
 Acq: 25 Aug 2022 23:04

Tgt Ion: 43 Resp: 148429

Ion	Ratio	Lower	Upper
43	100		
72	23.5	17.9	26.9





#39

1,2-Dichloropropane

Concen: 8.356 ppbv

RT: 6.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Aug 2022 23:04 SV1

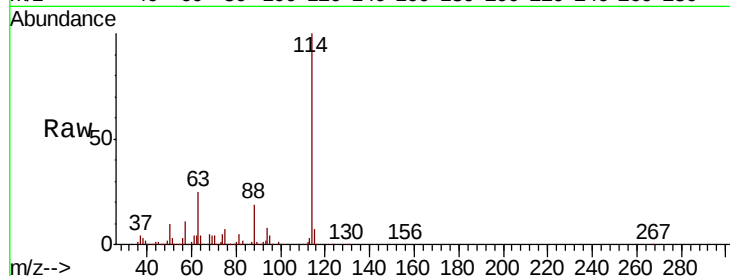
Tot Ion: 63 Resp: 660475

Ion Ratio Lower Upper

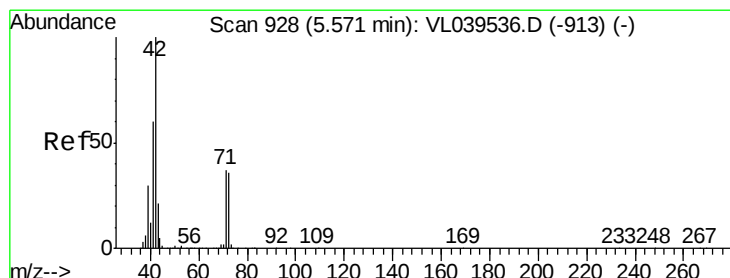
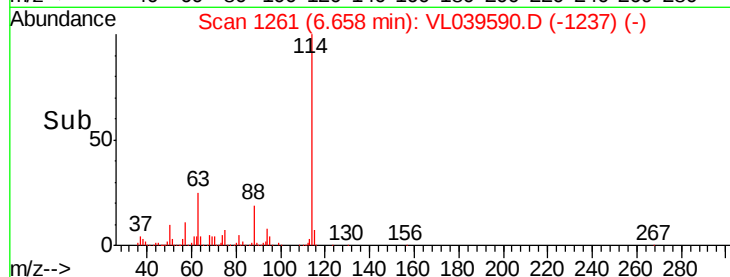
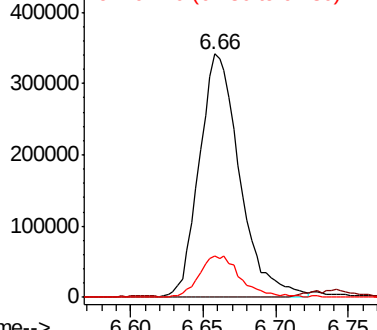
63 100

41 0.0 59.6 89.4#

62 17.1 51.4 77.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.067 ppbv

RT: 5.27 min Scan# 829

Delta R.T. -0.30 min

Lab File: VL039590.D

Acq: 25 Aug 2022 23:04

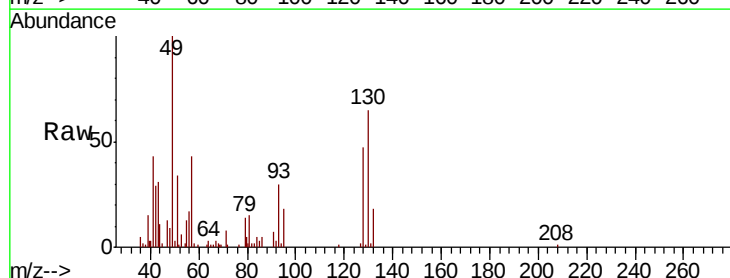
Tgt Ion: 42 Resp: 5499

Ion Ratio Lower Upper

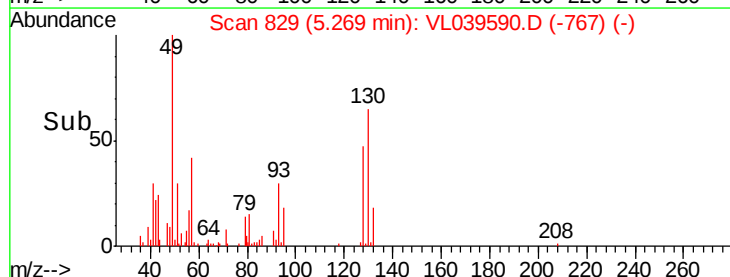
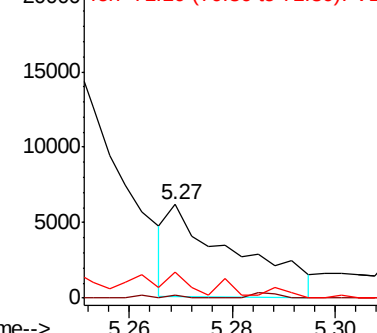
42 100

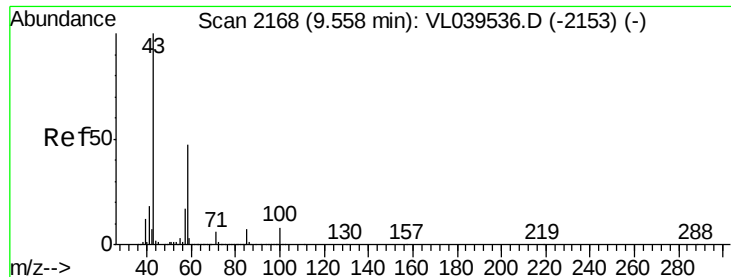
72 1.8 31.8 47.8#

71 0.0 31.8 47.8#



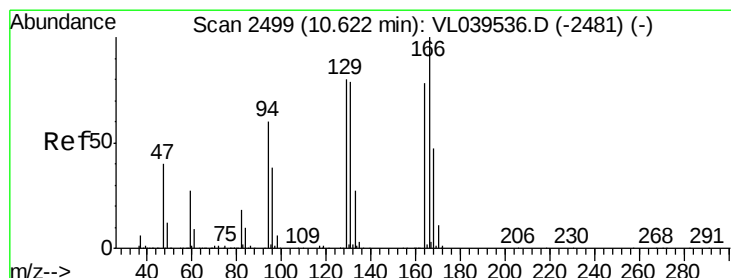
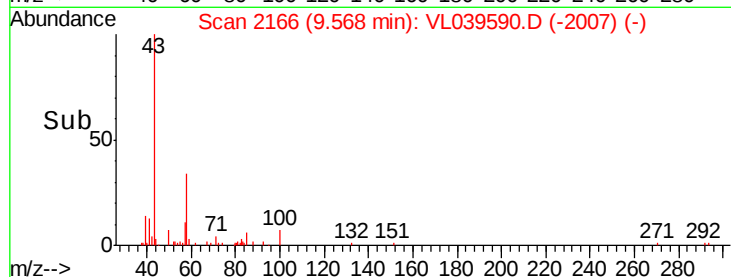
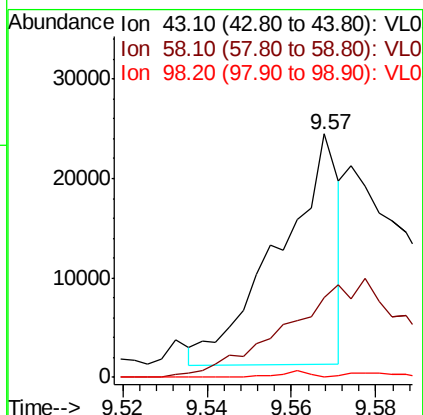
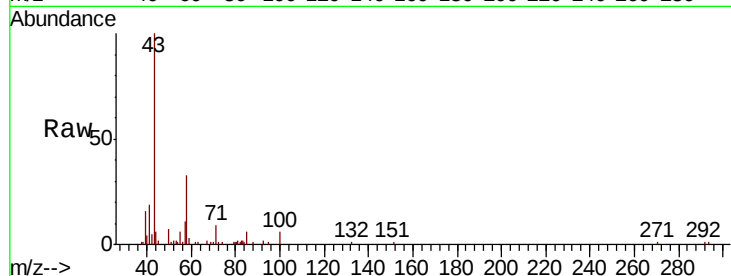
Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





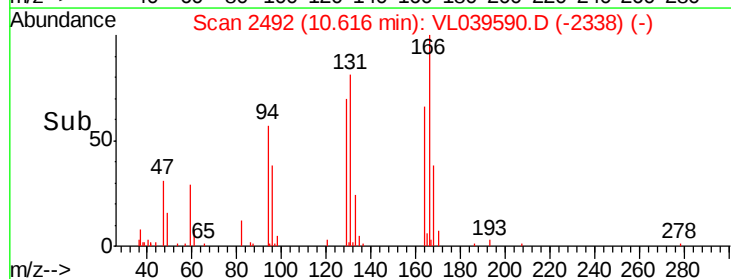
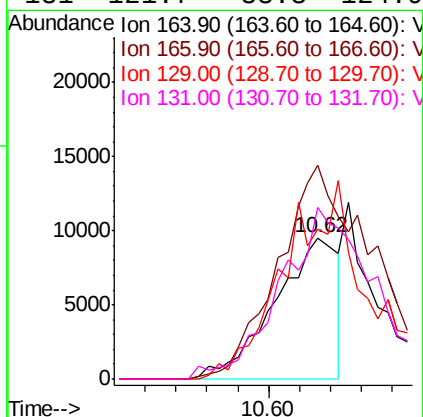
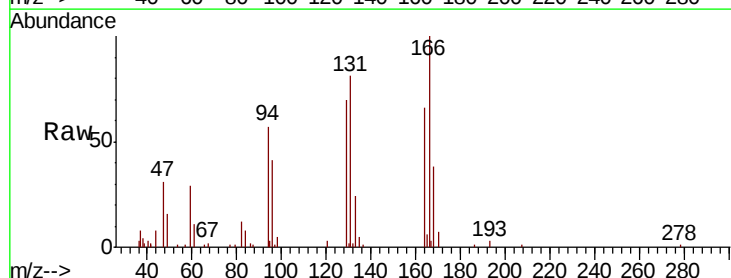
#51
2-Hexanone
Concen: 0.146 ppbv
RT: 9.57
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV1
Acq: 25 Aug 2022 23:04

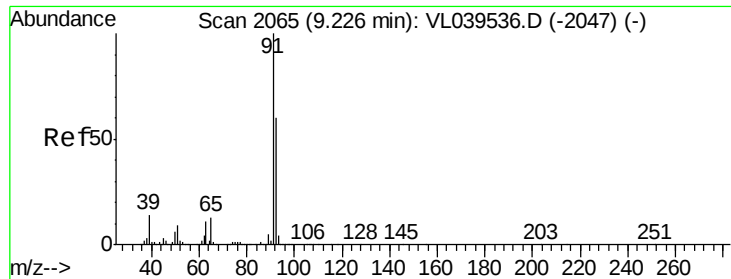
Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.4	57.6#
98	3.3	0.3	0.5#



#52
Tetrachloroethene
Concen: 0.169 ppbv
RT: 10.62 min Scan# 2492
Delta R.T. -0.01 min
Lab File: VL039590.D
Acq: 25 Aug 2022 23:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	155.7	102.2	153.2#
129	106.1	85.8	128.8
131	121.7	83.3	124.9





#53

Toluene

Concen: 0.843 ppbv

RT: 9.22 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV1

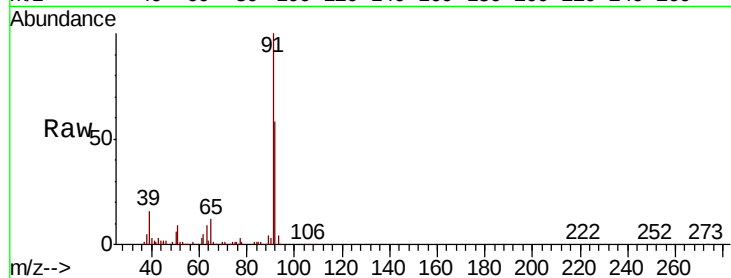
Acq: 25 Aug 2022 23:04

Tot Ion: 91 Resp: 198429

Ion Ratio Lower Upper

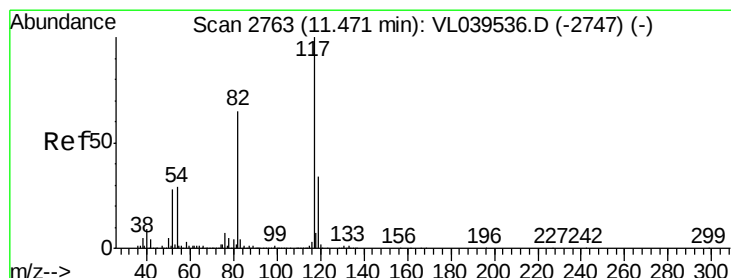
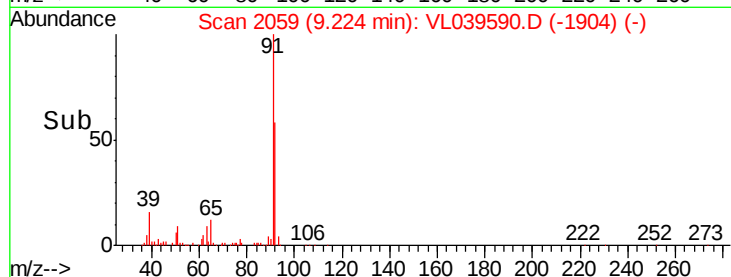
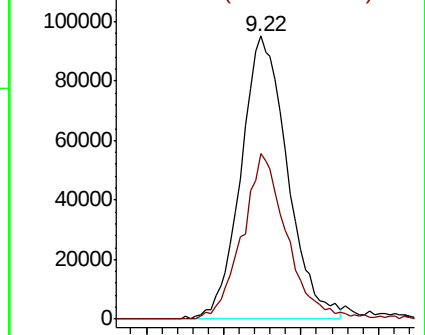
91 100

92 57.0 48.2 72.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VL039590.D

Acq: 25 Aug 2022 23:04

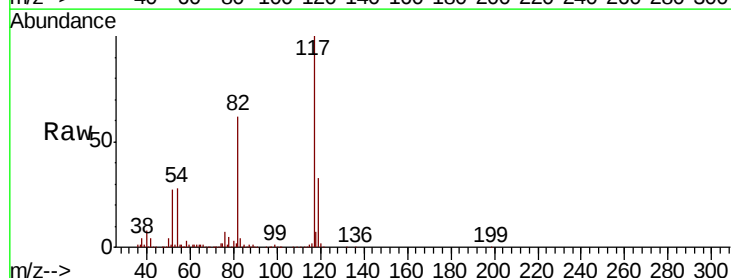
Tgt Ion: 117 Resp: 2506777

Ion Ratio Lower Upper

117 100

82 63.5 50.8 76.2

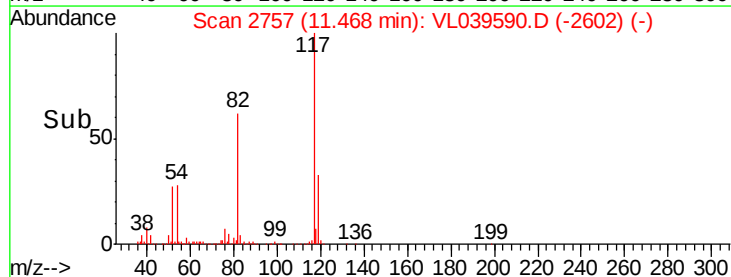
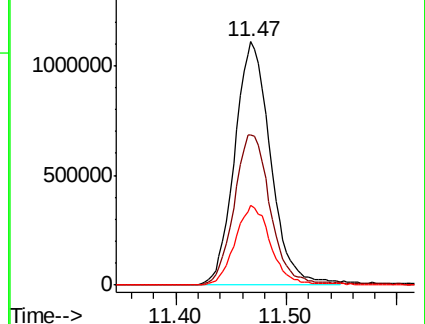
119 33.0 24.1 36.1

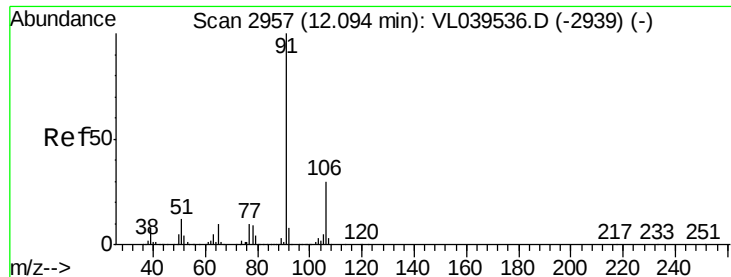


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.196 ppbv

RT: 12.35

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

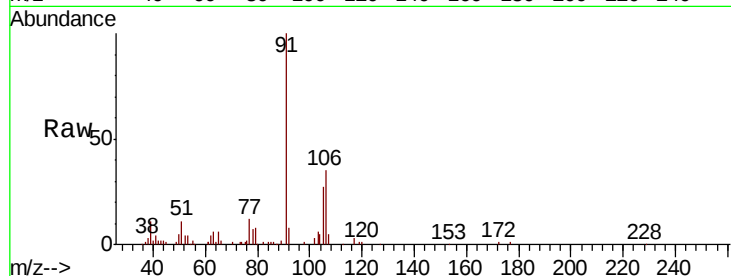
Acq: 25 Aug 2022 23:04

Tot Ion: 91 Resp: 56477

Ion Ratio Lower Upper

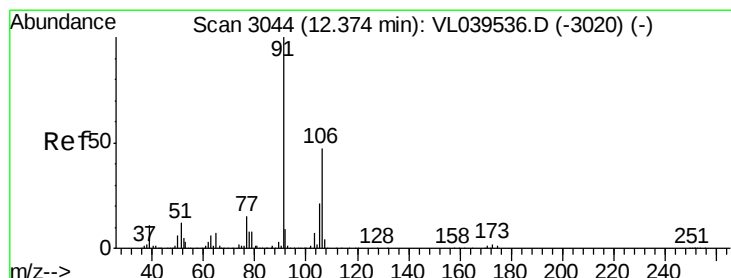
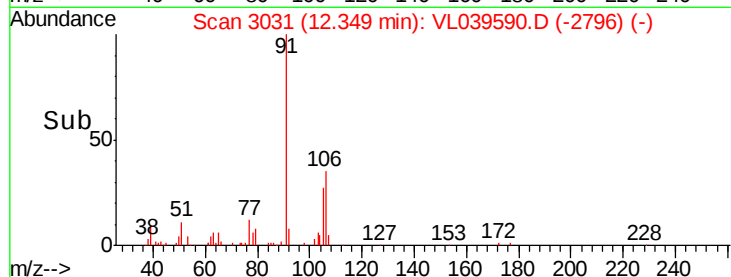
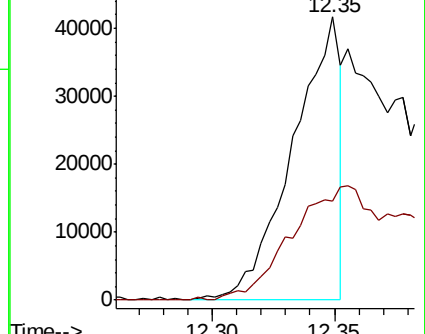
91 100

106 34.8 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.123 ppbv

RT: 12.38 min Scan# 3040

Delta R.T. 0.00 min

Lab File: VL039590.D

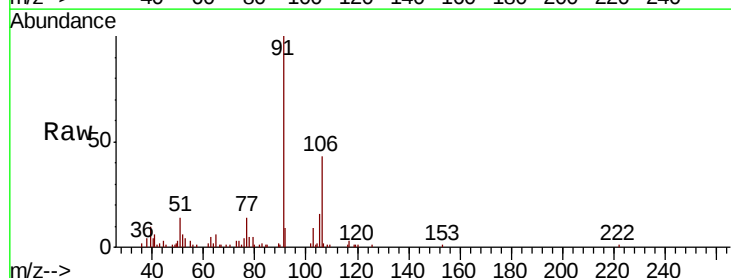
Acq: 25 Aug 2022 23:04

Tgt Ion: 91 Resp: 31674

Ion Ratio Lower Upper

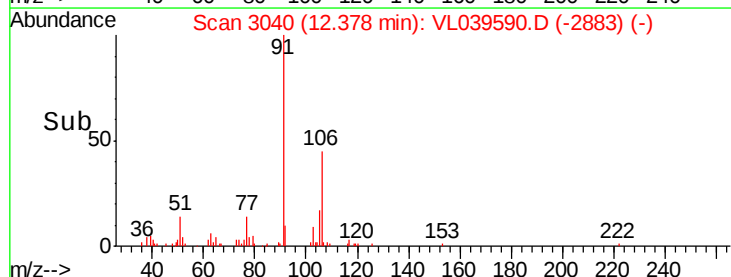
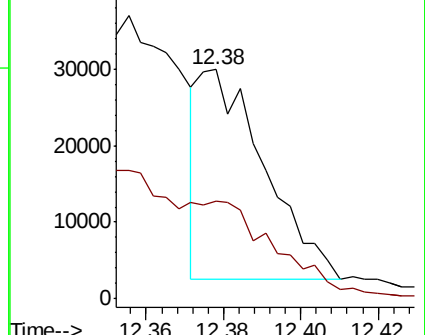
91 100

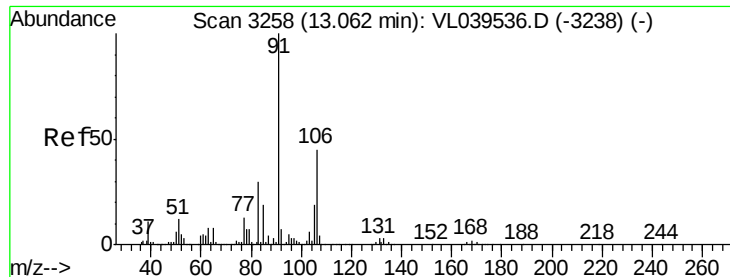
106 0.0 35.4 53.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

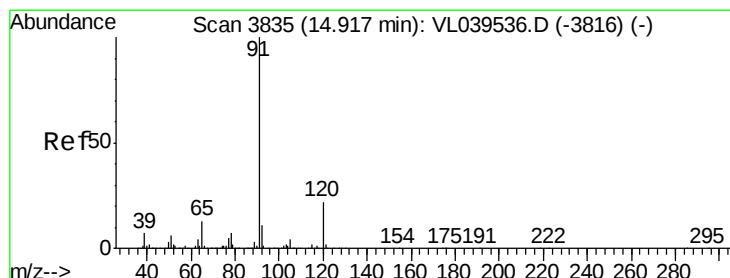
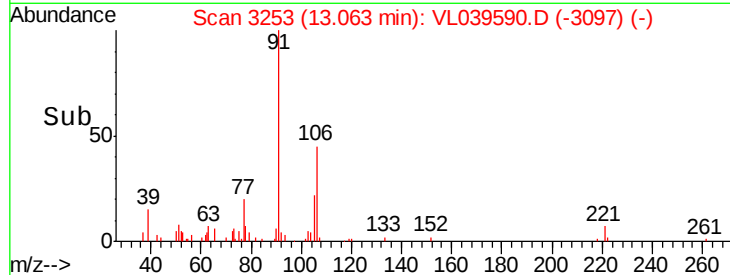
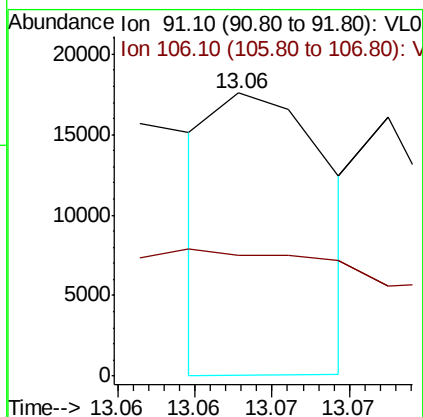
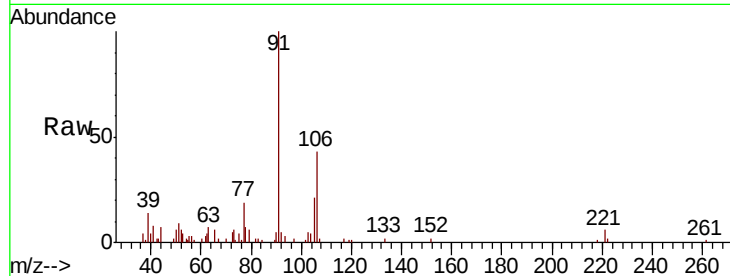
Ion 106.10 (105.80 to 106.80): V





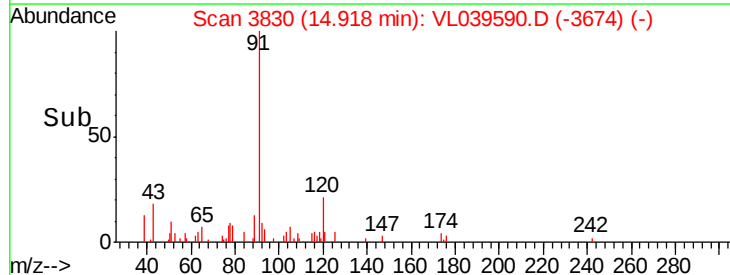
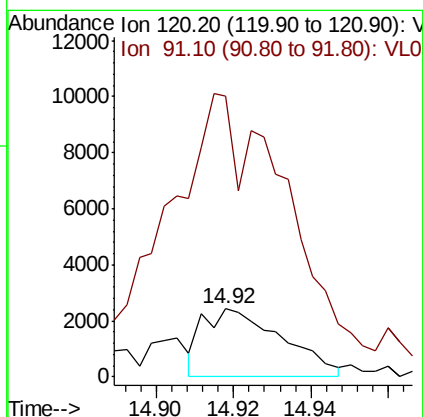
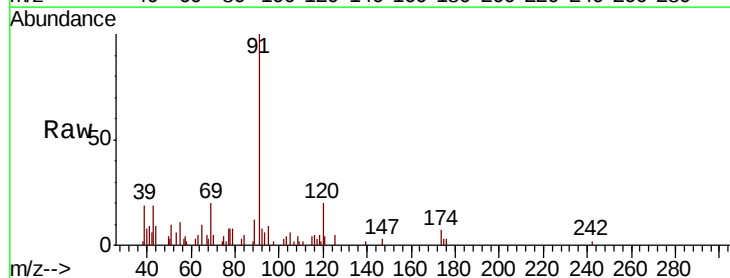
#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.06 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Aug 2022 23:04

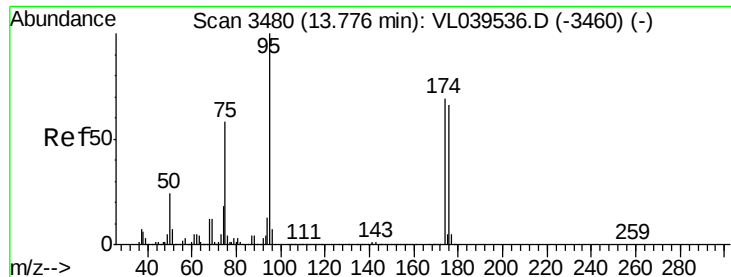
Tot Ion: 91 Resp: 8947
Ion Ratio Lower Upper
91 100
106 217.7 22.4 67.3#



#64
n-propylbenzene
Concen: 0.036 ppbv
RT: 14.92 min Scan# 3830
Delta R.T. 0.00 min
Lab File: VL039590.D
Acq: 25 Aug 2022 23:04

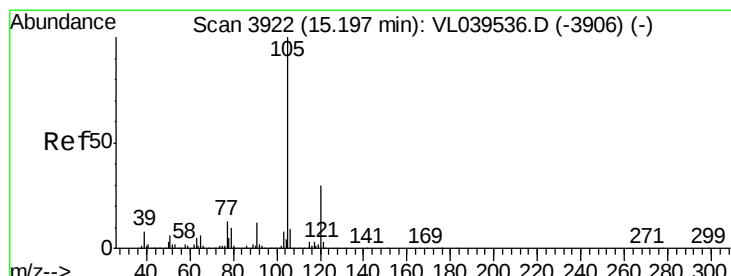
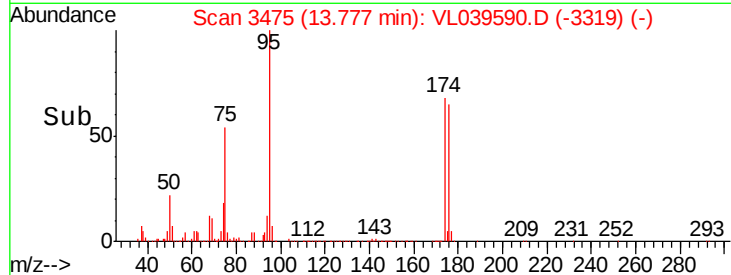
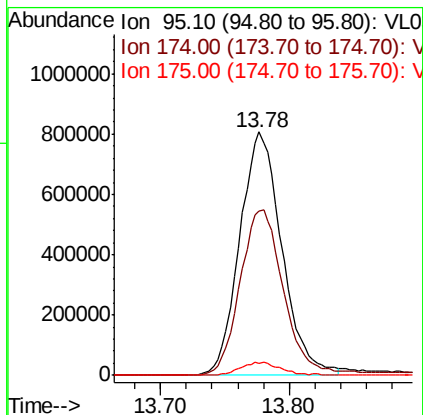
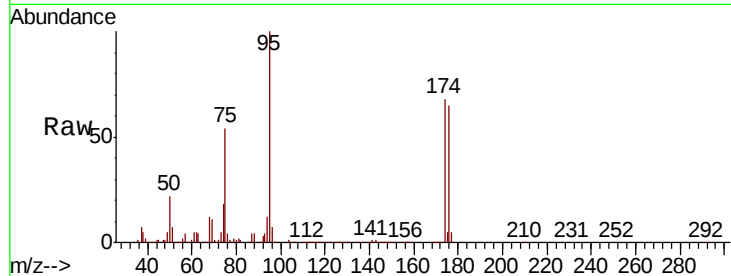
Tgt Ion:120 Resp: 3472
Ion Ratio Lower Upper
120 100
91 698.4 367.2 550.8#





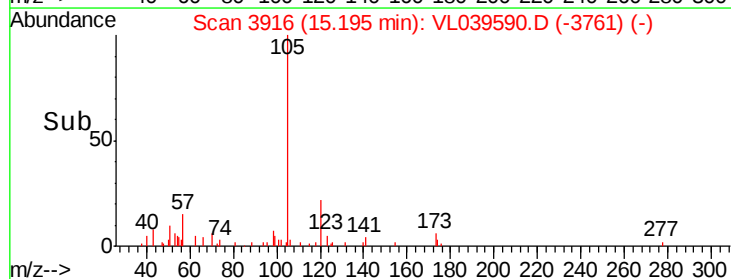
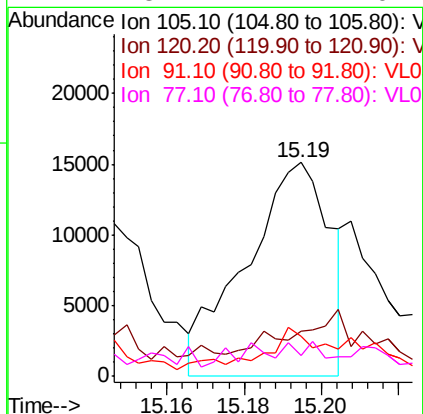
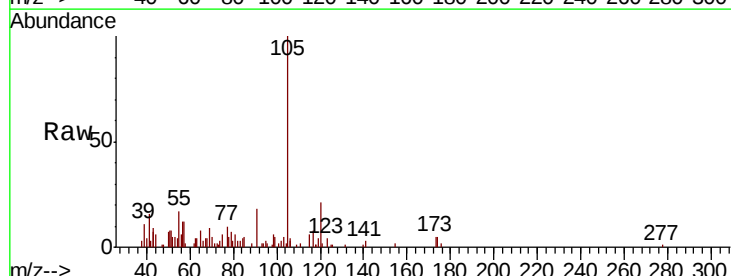
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.717 ppbv
 RT: 13.78 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 25 Aug 2022 23:04

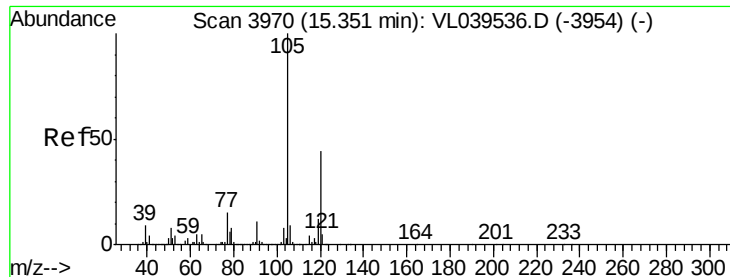
Tot Ion: 95 Resp: 1837597
 Ion Ratio Lower Upper
 95 100
 174 73.2 55.9 83.9
 175 5.4 4.2 6.4



#72
 4-Ethyltoluene
 Concen: 0.079 ppbv
 RT: 15.19 min Scan# 3916
 Delta R.T. -0.00 min
 Lab File: VL039590.D
 Acq: 25 Aug 2022 23:04

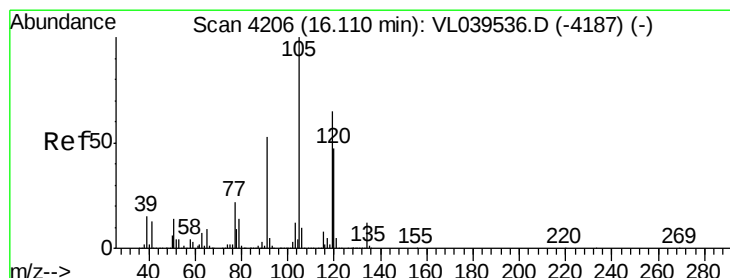
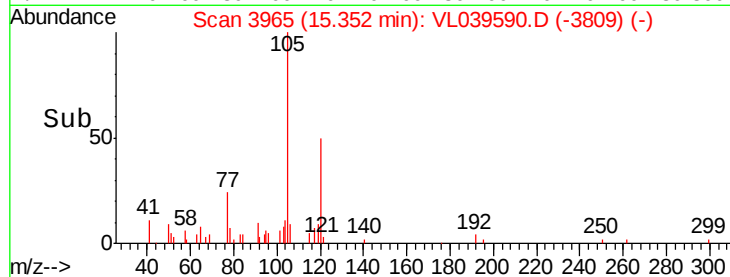
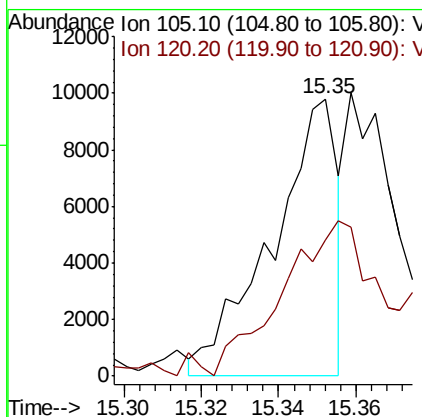
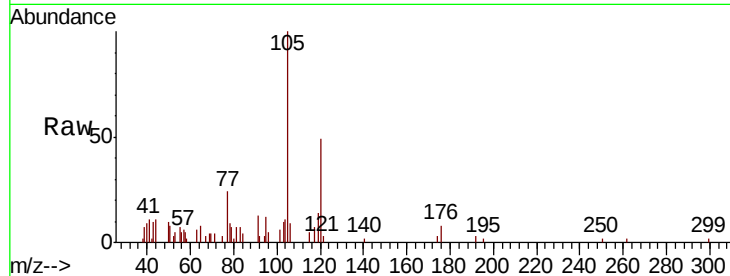
Tgt Ion: 105 Resp: 22771
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.2 36.2#
 91 36.5 10.2 15.4#
 77 28.1 11.1 16.7#





#73
 1,3,5-Trimethylbenzene
 Concen: 0.043 ppbv
 RT: 15.35 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV1
 Acq: 25 Aug 2022 23:04

Tot Ion:105 Resp: 11467
 Ion Ratio Lower Upper
 105 100
 120 43.2 38.2 57.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.364 ppbv
 RT: 16.11 min Scan# 4201
 Delta R.T. 0.00 min
 Lab File: VL039590.D
 Acq: 25 Aug 2022 23:04

Tgt Ion:105 Resp: 107634
 Ion Ratio Lower Upper
 105 100
 120 41.1 39.5 59.3
 91 9.6 39.2 58.8#
 77 12.9 17.2 25.8#

