

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071922\
 Data File : VL039498.D
 Acq On : 20 Jul 2022 2:24
 Operator : SY/AP
 Sample : N3750-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: Jul 20 05:41:21 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 06 02:15:38 2022
 QLast Update : Wed Jul 06 02:15:38 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1069251	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3032346	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	2707327	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2066213	10.29	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

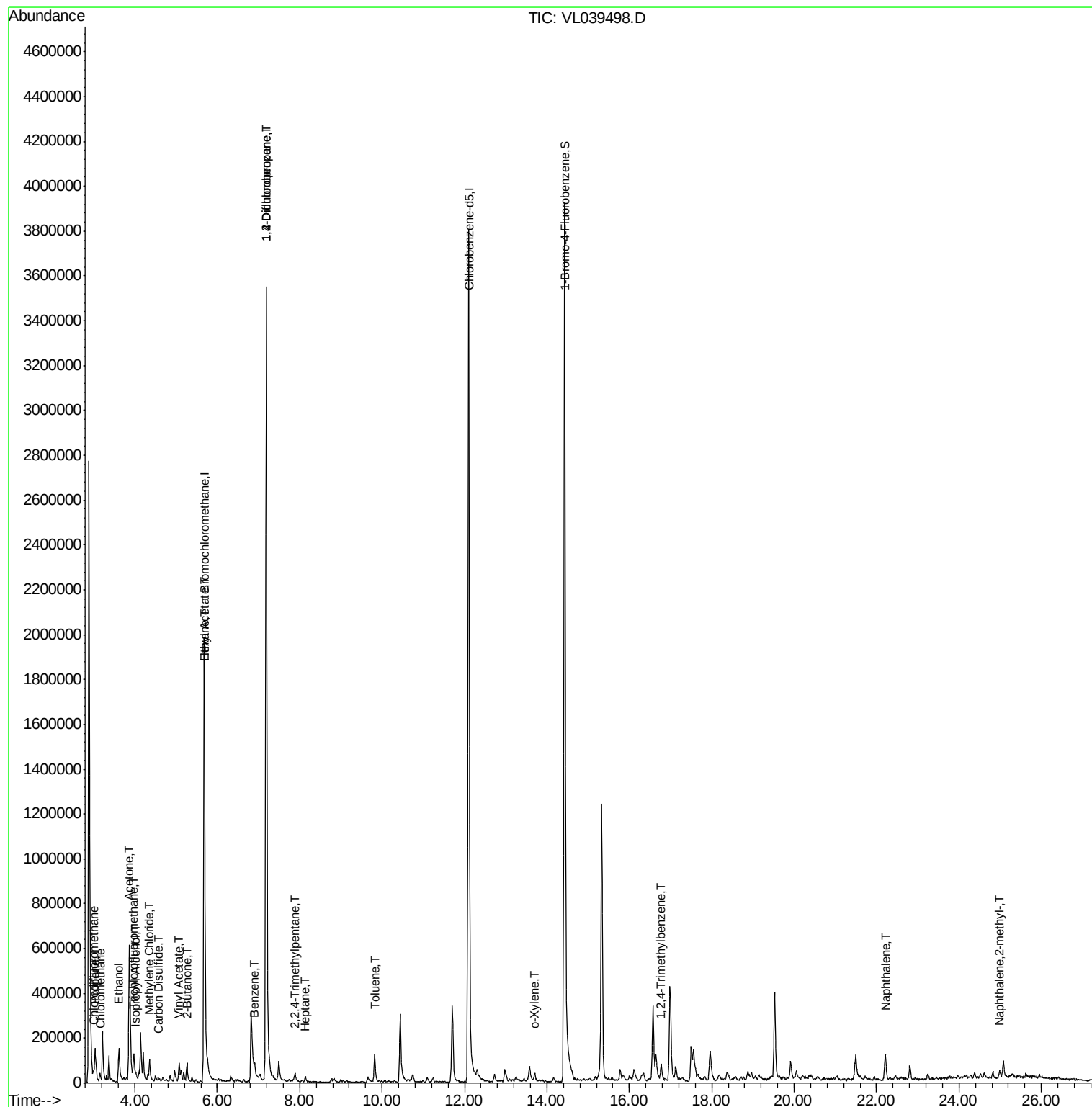
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.00	51	60855	0.449	ppbv #	84
4) Chloromethane	3.15	50	37097	0.500	ppbv	100
9) Propene	3.03	41	40657	0.664	ppbv	85
10) Heptane	8.14	43	6524	0.045	ppbv #	32
11) Trichlorofluoromethane	3.96	101	37095	0.216	ppbv	98
13) Ethanol	3.61	45	191474	53.871	ppbv	77
15) Acetone	3.85	43	851630	6.732	ppbv	94
19) Isopropyl Alcohol	4.01	45	6230	0.092	ppbv #	88
20) Methylene Chloride	4.35	84	33538	0.665	ppbv	95
23) Vinyl Acetate	5.08	43	65686	0.777	ppbv #	75
25) Ethyl Acetate	5.70	43	30611	0.118	ppbv #	83
26) Hexane	5.70	57	22078	0.211	ppbv #	54
27) Carbon Disulfide	4.56	76	4761	0.038	ppbv #	51
34) 2-Butanone	5.26	43	100781	0.660	ppbv	96
36) Benzene	6.91	78	13516	0.058	ppbv #	69
39) 1,2-Dichloropropane	7.19	63	723779	8.255	ppbv #	25
44) 2,2,4-Trimethylpentane	7.89	57	15890	0.040	ppbv #	14
53) Toluene	9.82	91	43236	0.160	ppbv #	1
60) o-Xylene	13.70	91	11190	0.038	ppbv #	8
74) 1,2,4-Trimethylbenzene	16.77	105	32776	0.094	ppbv #	60
79) Naphthalene	22.22	128	60504	0.252	ppbv #	92
80) Naphthalene,2-methyl-	24.98	142	10475	0.128	ppbv #	85

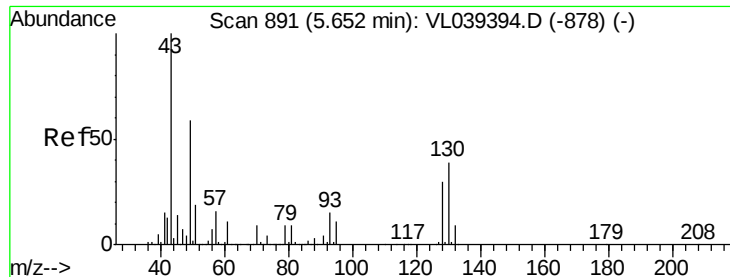
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Jul 2022 2:24

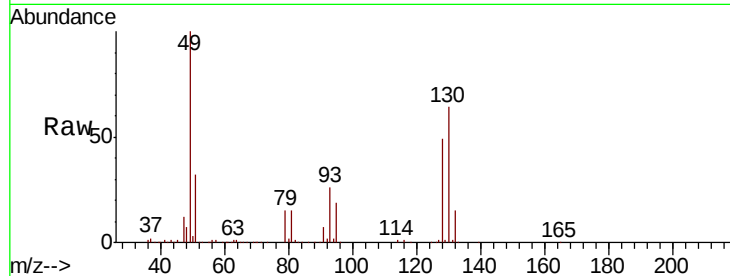
Tot Ion: 49 Resp: 1069251

Ion Ratio Lower Upper

49 100

128 52.8 26.7 80.0

130 68.5 34.3 102.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.68

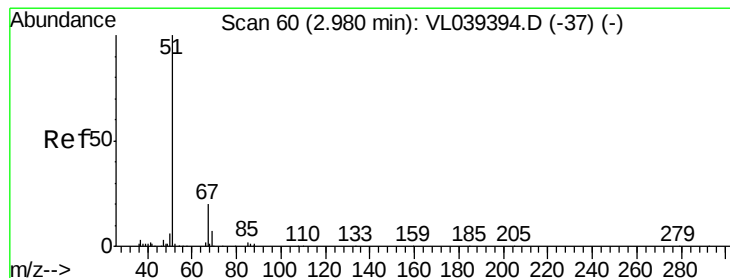
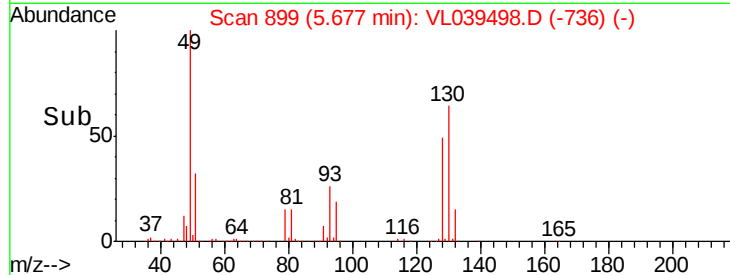
600000

400000

200000

0

Time-->



#3

Chlorodifluoromethane

Concen: 0.449 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.02 min

Lab File: VL039498.D

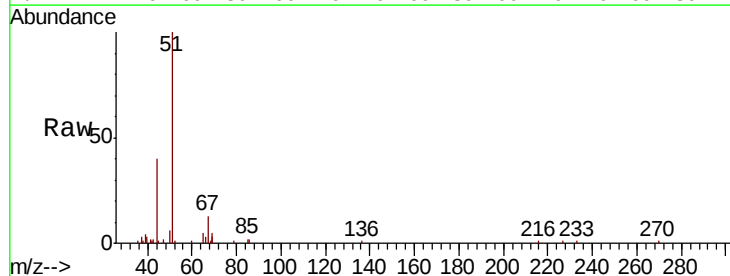
Acq: 20 Jul 2022 2:24

Tgt Ion: 51 Resp: 60855

Ion Ratio Lower Upper

51 100

67 12.5 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

30000

25000

20000

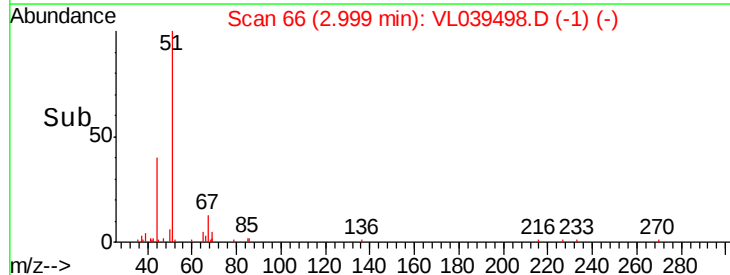
15000

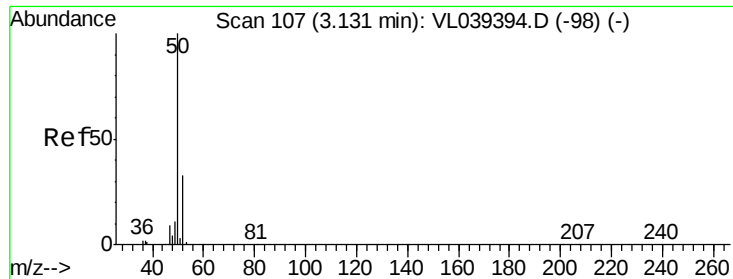
10000

5000

0

Time-->





#4

Chloromethane

Concen: 0.500 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

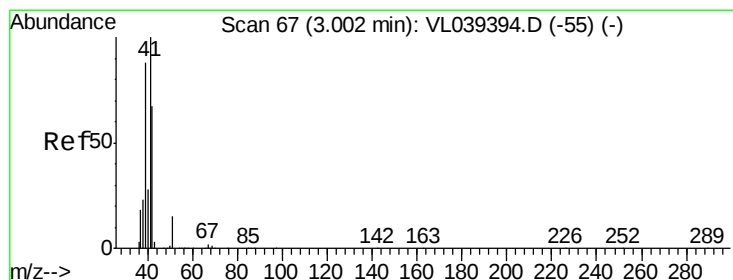
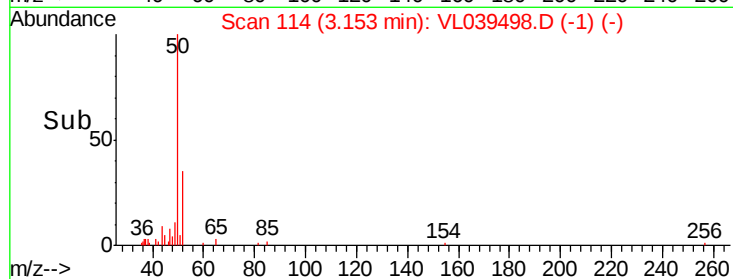
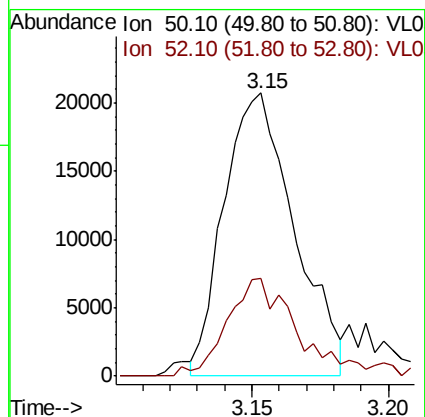
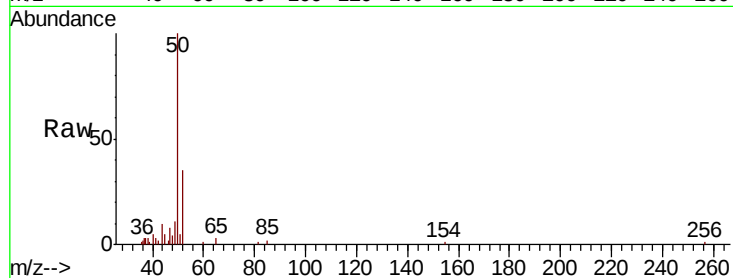
Acq: 20 Jul 2022 2:24

Tot Ion: 50 Resp: 37097

Ion Ratio Lower Upper

50 100

52 33.0 26.5 39.7



#9

Propene

Concen: 0.664 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.03 min

Lab File: VL039498.D

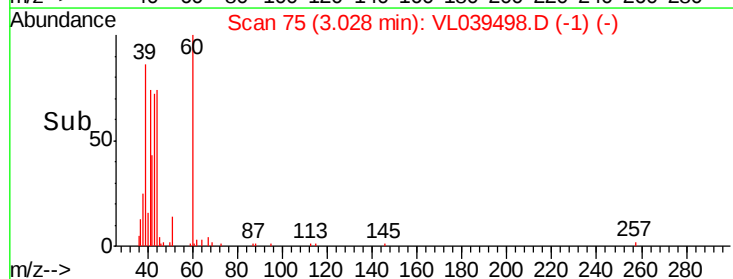
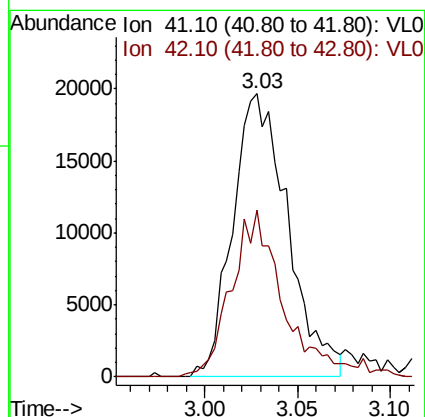
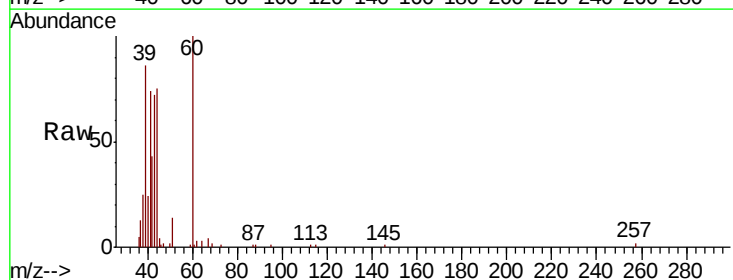
Acq: 20 Jul 2022 2:24

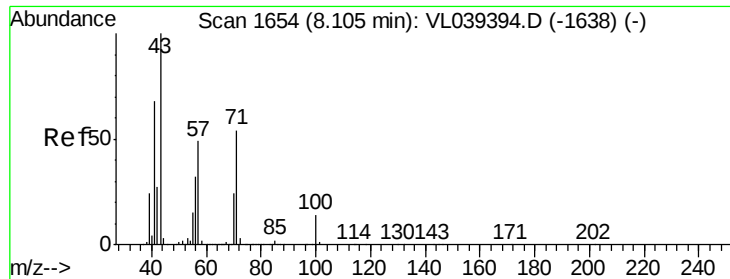
Tgt Ion: 41 Resp: 40657

Ion Ratio Lower Upper

41 100

42 56.5 55.2 82.8





#10

Heptane

Concen: 0.045 ppbv

RT: 8.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

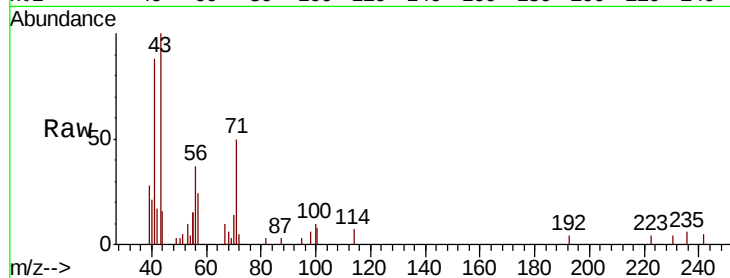
Acq: 20 Jul 2022 2:24

Tot Ion: 43 Resp: 6524

Ion Ratio Lower Upper

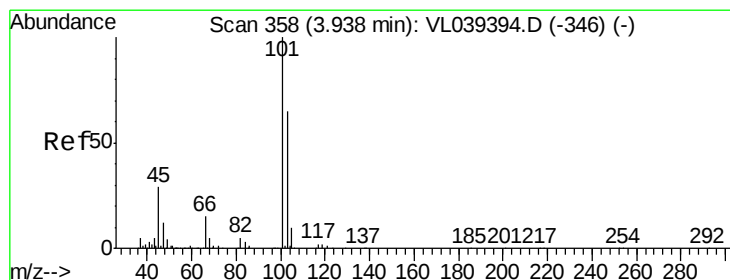
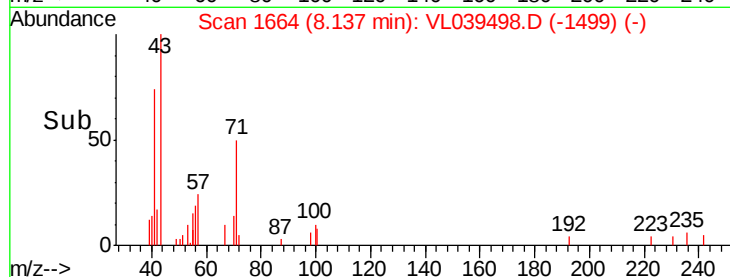
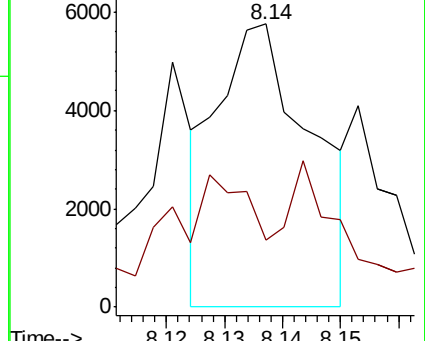
43 100

57 97.9 40.5 60.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.216 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL039498.D

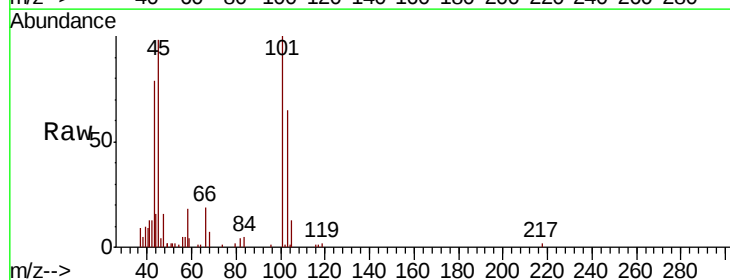
Acq: 20 Jul 2022 2:24

Tgt Ion: 101 Resp: 37095

Ion Ratio Lower Upper

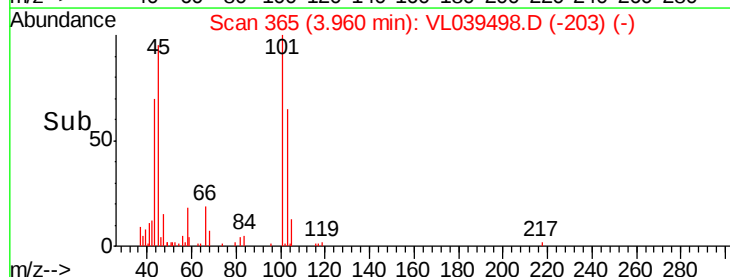
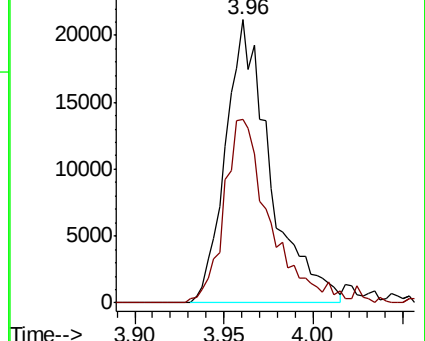
101 100

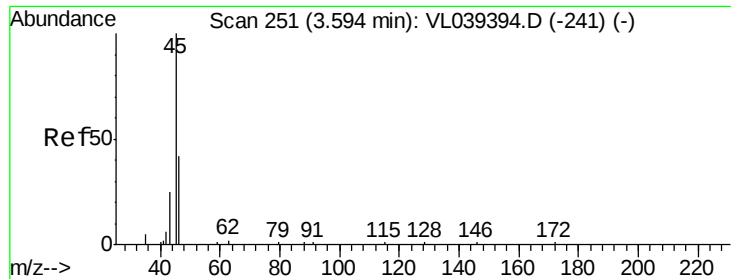
103 63.3 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

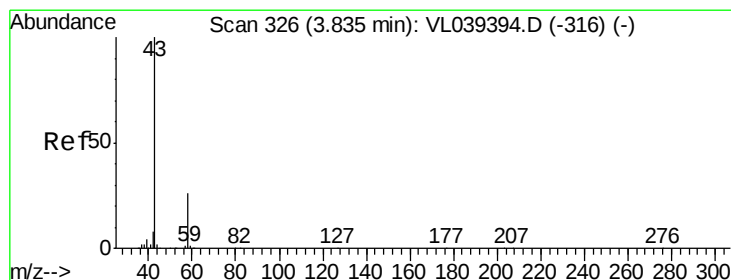
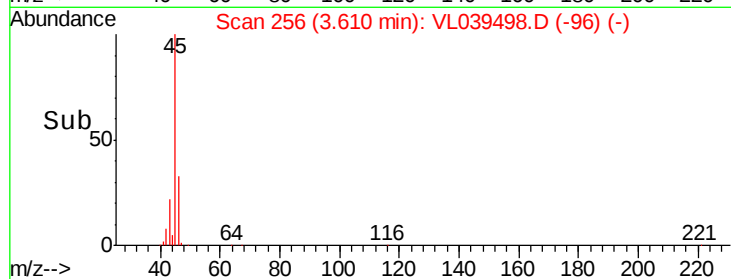
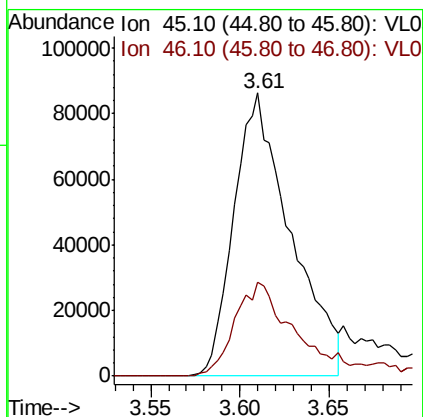
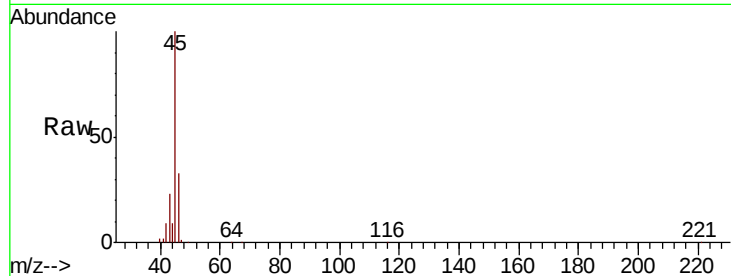
Ion 103.00 (102.70 to 103.70): V





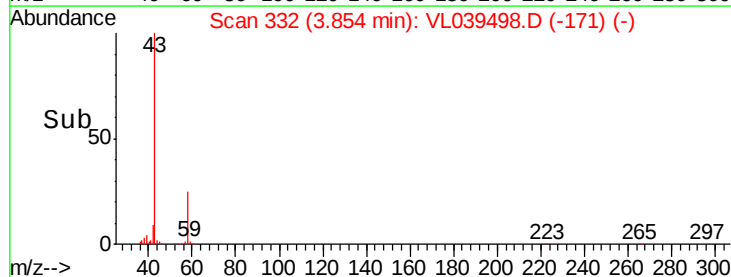
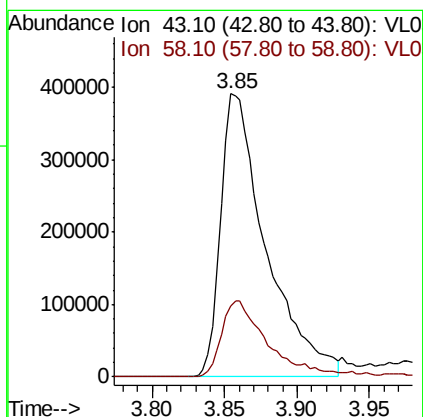
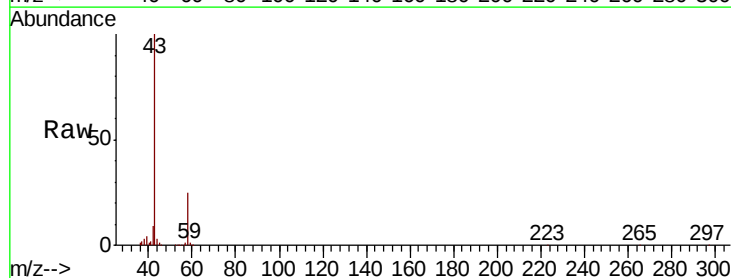
#13
 Ethanol
 Concen: 53.871 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 2:24

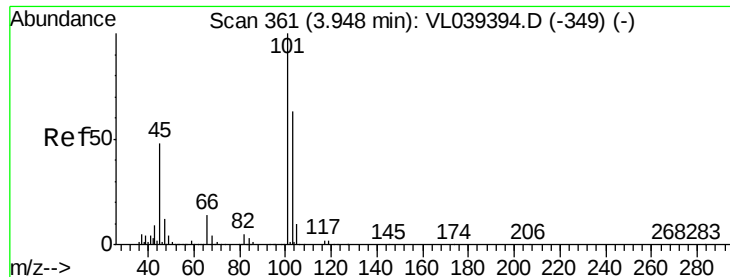
Tot Ion: 45 Resp: 191474
 Ion Ratio Lower Upper
 45 100
 46 40.2 22.8 91.2



#15
 Acetone
 Concen: 6.732 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.02 min
 Lab File: VL039498.D
 Acq: 20 Jul 2022 2:24

Tgt Ion: 43 Resp: 851630
 Ion Ratio Lower Upper
 43 100
 58 29.3 21.0 31.6





#19

Isopropyl Alcohol

Concen: 0.092 ppbv

RT: 4.01 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

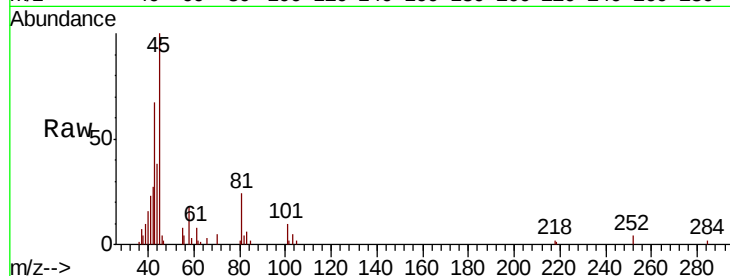
Acq: 20 Jul 2022 2:24

Tot Ion: 45 Resp: 6230

Ion Ratio Lower Upper

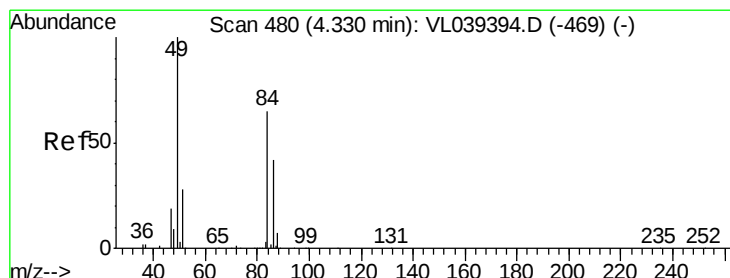
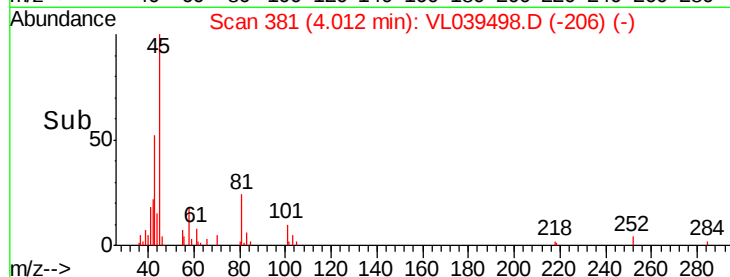
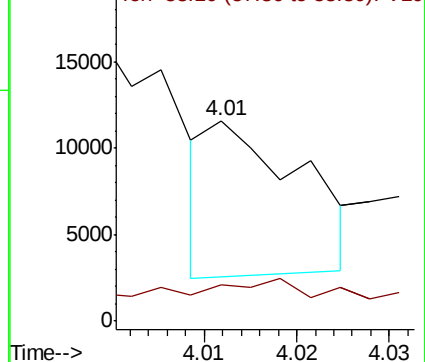
45 100

58 0.0 3.2 4.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.665 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL039498.D

Acq: 20 Jul 2022 2:24

Tgt Ion: 84 Resp: 33538

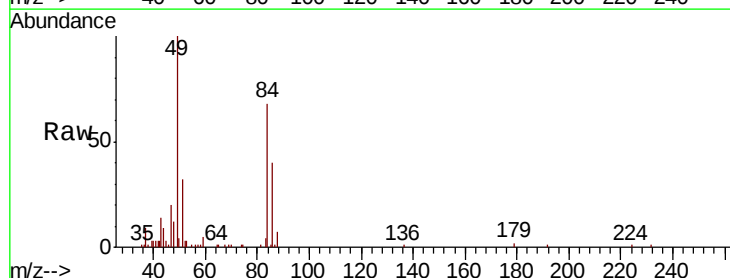
Ion Ratio Lower Upper

84 100

49 146.6 123.1 184.7

51 44.6 34.4 51.6

86 58.7 51.1 76.7

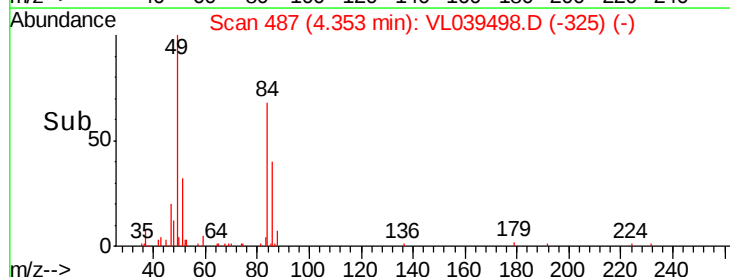
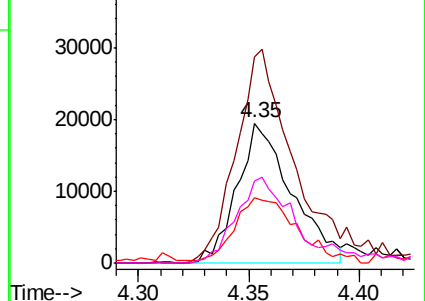


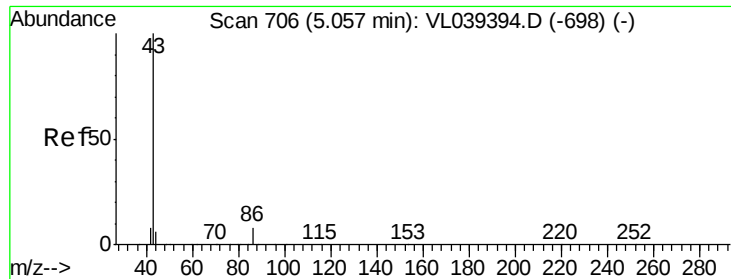
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#23

Vinyl Acetate

Concen: 0.777 ppbv

RT: 5.08 Instrument:

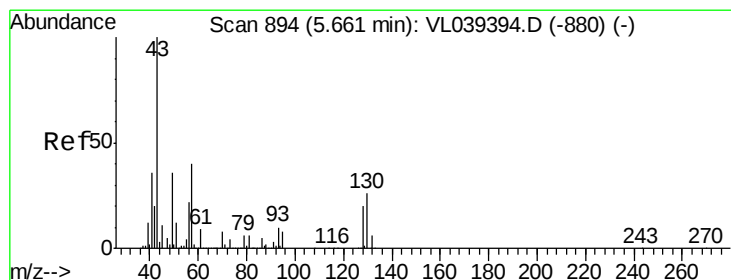
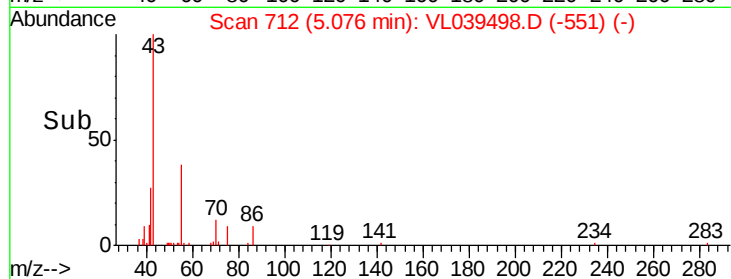
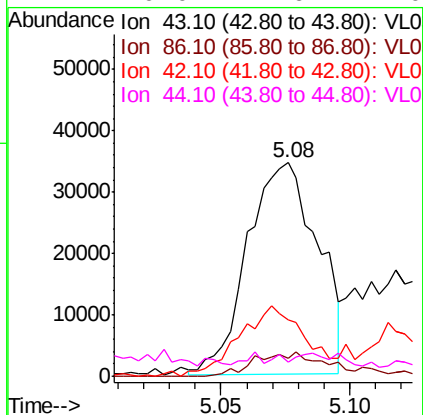
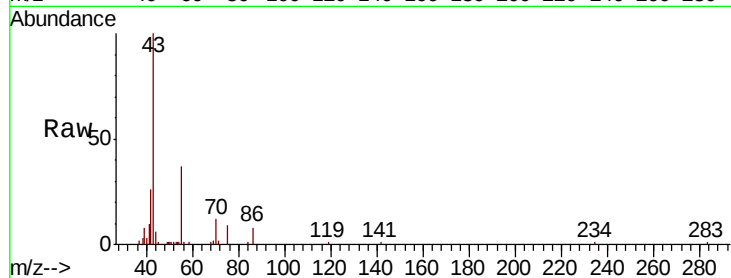
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Jul 2022 2:24

Tot Ion: 43 Resp: 65686

Ion	Ratio	Lower	Upper
43	100		
86	8.7	5.0	7.6#
42	24.5	7.7	11.5#
44	0.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.118 ppbv

RT: 5.70 min Scan# 905

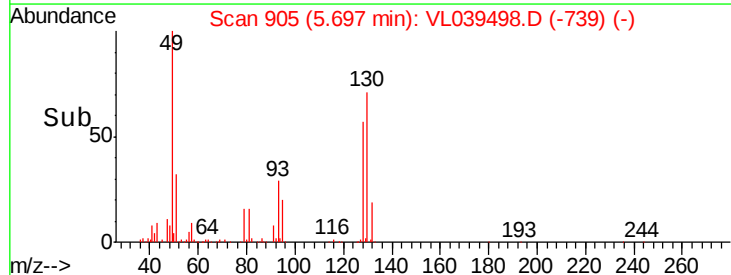
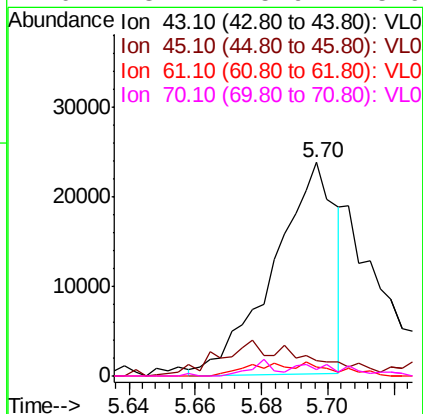
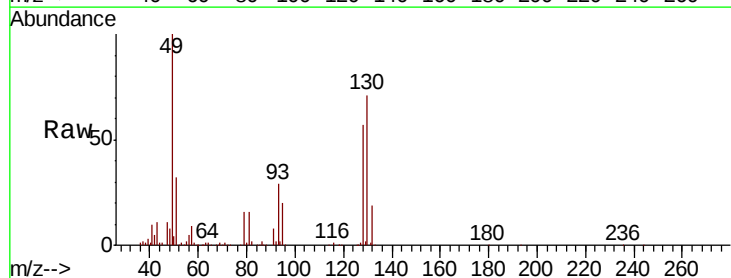
Delta R.T. 0.04 min

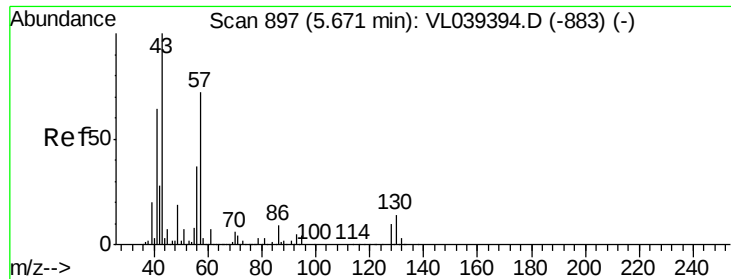
Lab File: VL039498.D

Acq: 20 Jul 2022 2:24

Tgt Ion: 43 Resp: 30611

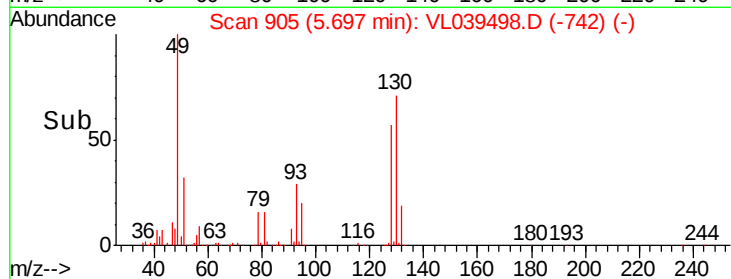
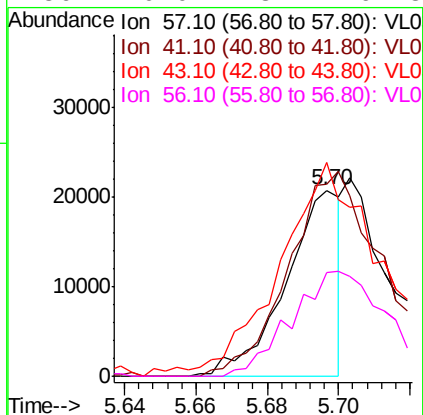
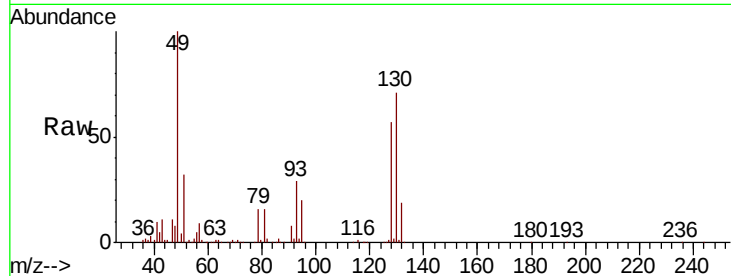
Ion	Ratio	Lower	Upper
43	100		
45	24.7	8.2	12.4#
61	8.6	8.3	12.5
70	8.2	5.9	8.9





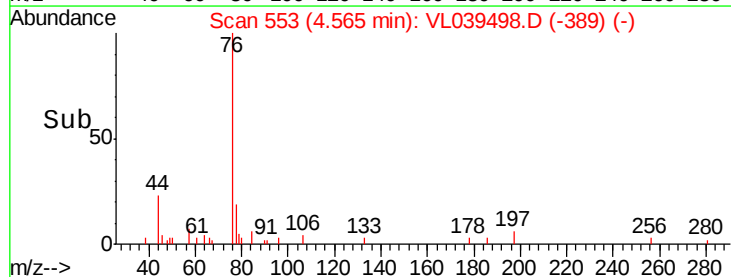
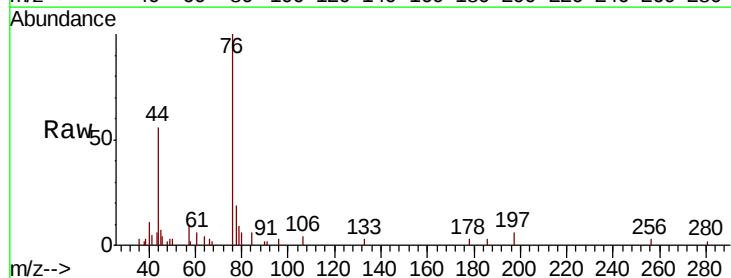
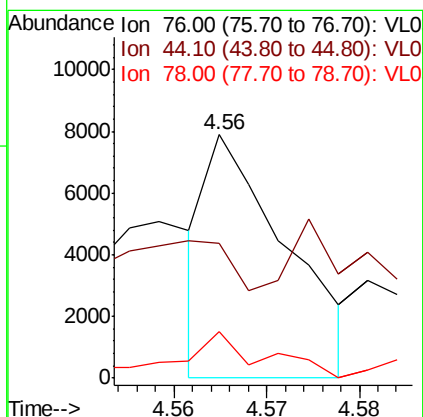
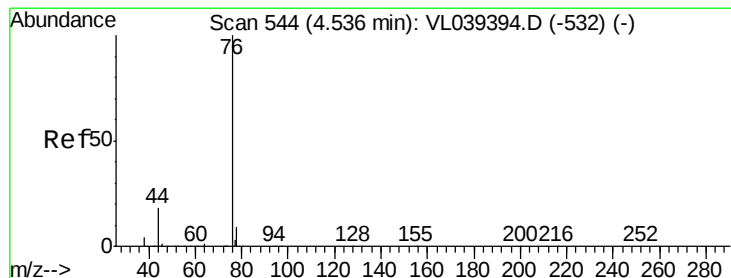
#26
Hexane
Concen: 0.211 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Jul 2022 2:24

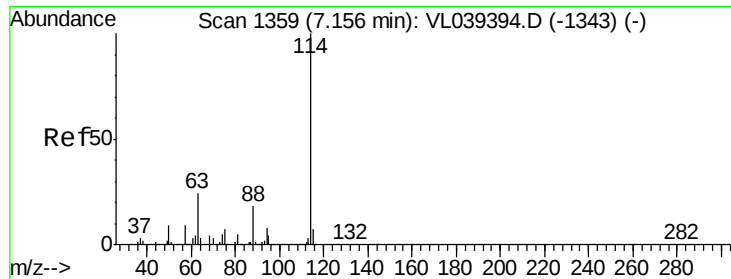
Tot Ion	57	Resp	22078
Ion	Ratio	Lower	Upper
57	100		
41	0.0	76.9	115.3#
43	208.3	191.0	286.6
56	0.0	43.2	64.8#



#27
Carbon Disulfide
Concen: 0.038 ppbv
RT: 4.56 min Scan# 553
Delta R.T. 0.03 min
Lab File: VL039498.D
Acq: 20 Jul 2022 2:24

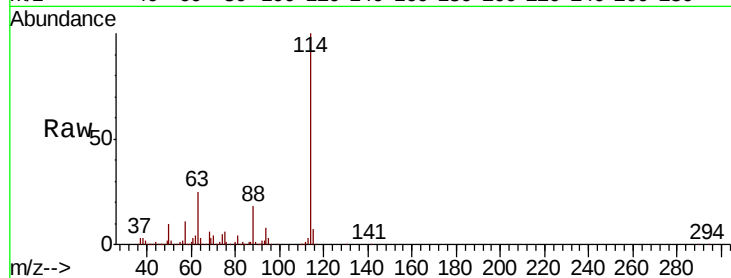
Tgt Ion	76	Resp	4761
Ion	Ratio	Lower	Upper
76	100		
44	0.0	14.6	21.8#
78	33.4	7.8	11.6#



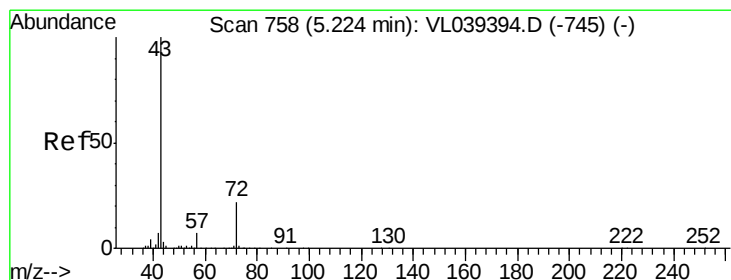
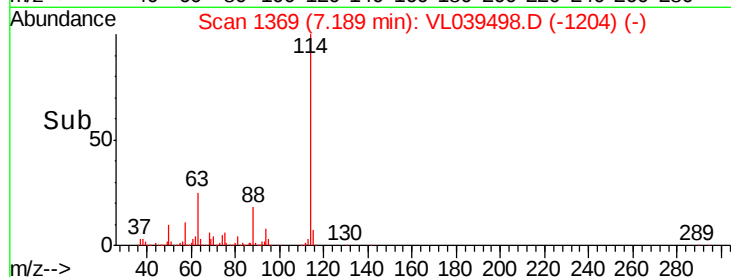
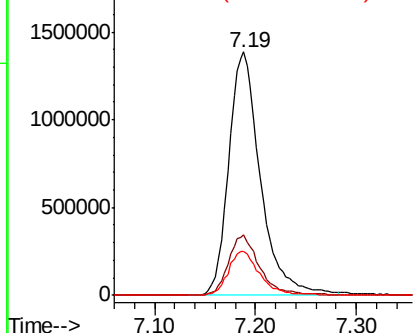


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 2:24

Tot Ion:114 Resp: 3032346
 Ion Ratio Lower Upper
 114 100
 63 24.5 20.2 30.4
 88 18.4 14.5 21.7

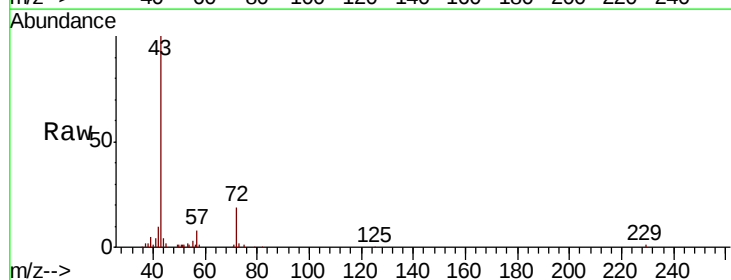


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

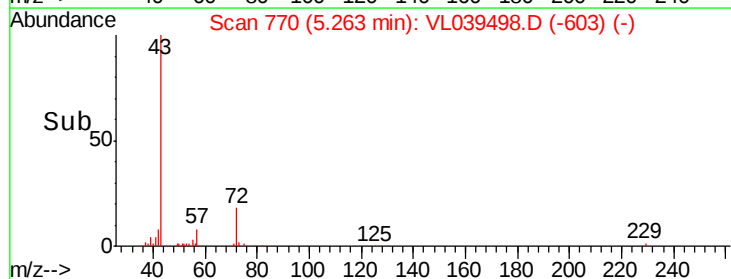
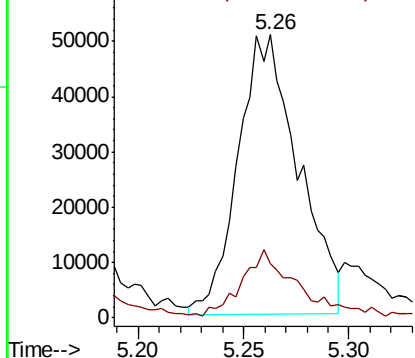


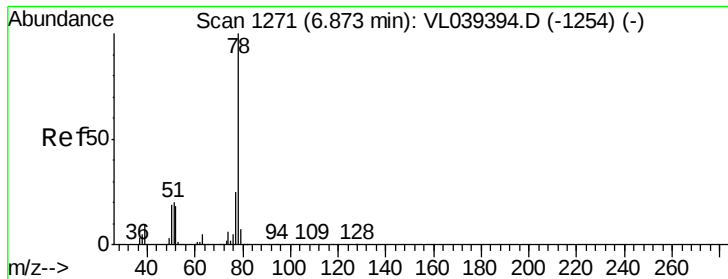
#34
 2-Butanone
 Concen: 0.660 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T.: 0.04 min
 Lab File: VL039498.D
 Acq: 20 Jul 2022 2:24

Tgt Ion: 43 Resp: 100781
 Ion Ratio Lower Upper
 43 100
 72 24.4 17.9 26.9



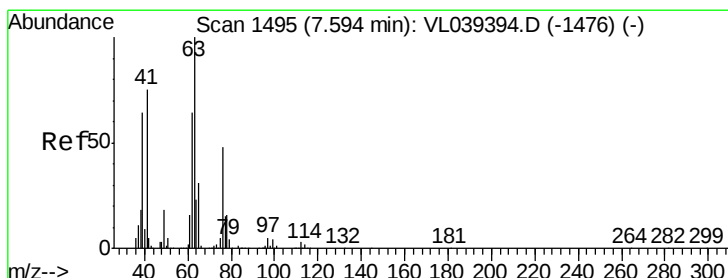
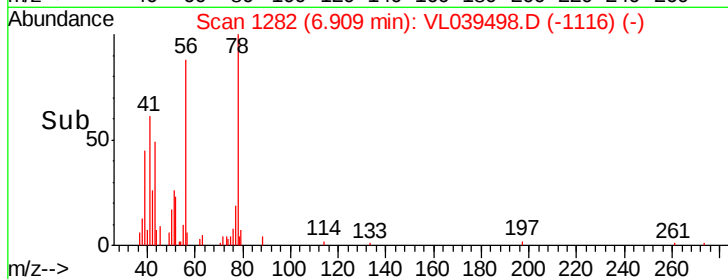
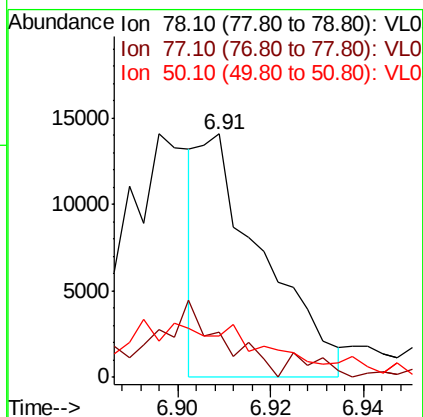
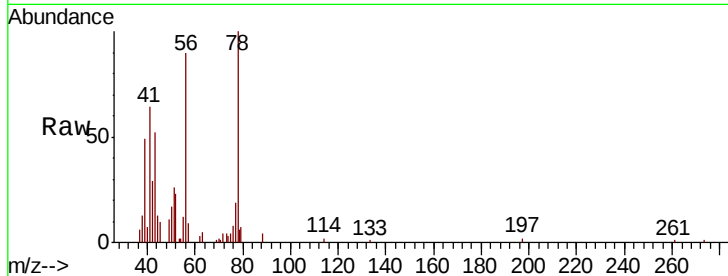
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





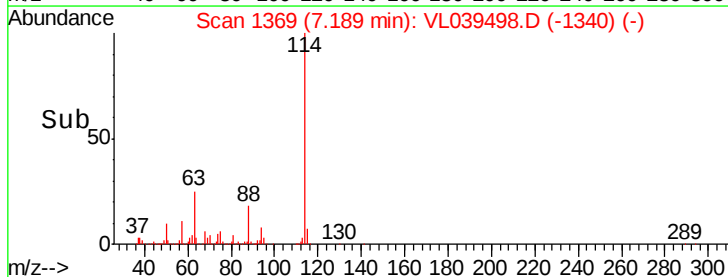
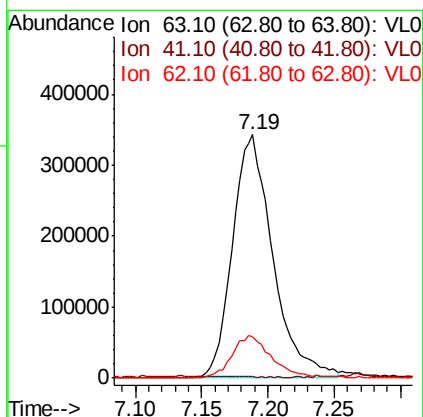
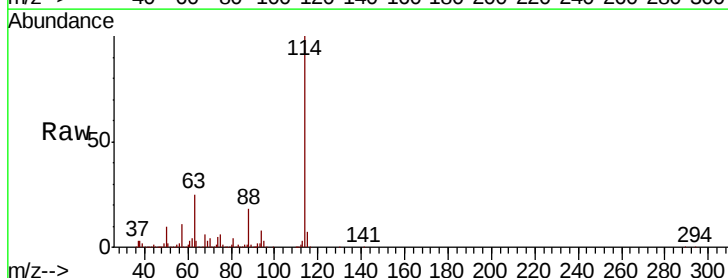
#36
Benzene
Concen: 0.058 ppbv
RT: 6.91
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Jul 2022 2:24

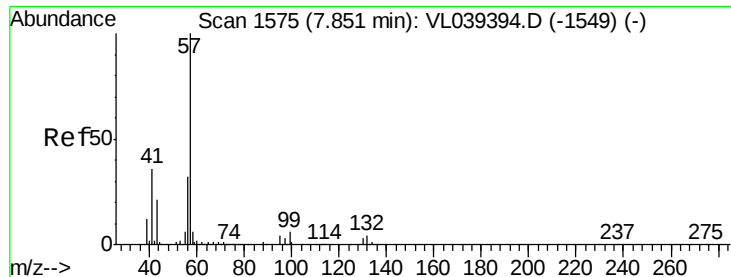
Tot Ion	Ratio	Lower	Upper
78	100		
77	3.4	20.3	30.5#
50	12.6	15.5	23.3#



#39
1,2-Dichloropropane
Concen: 8.255 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.41 min
Lab File: VL039498.D
Acq: 20 Jul 2022 2:24

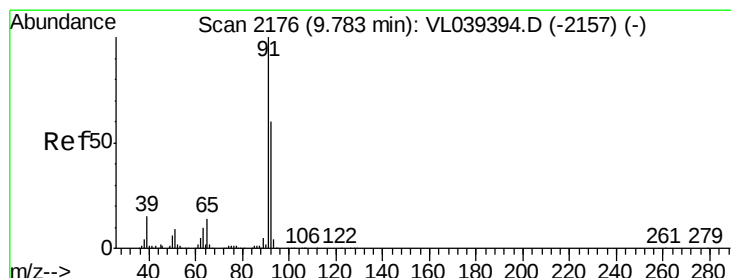
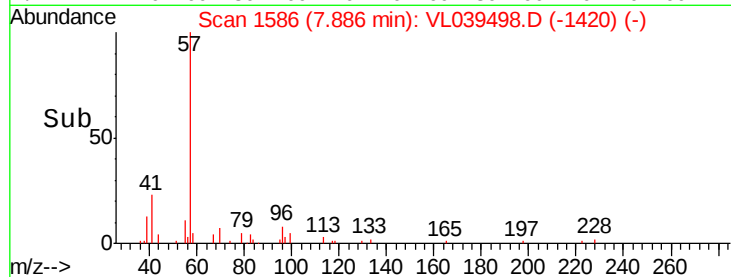
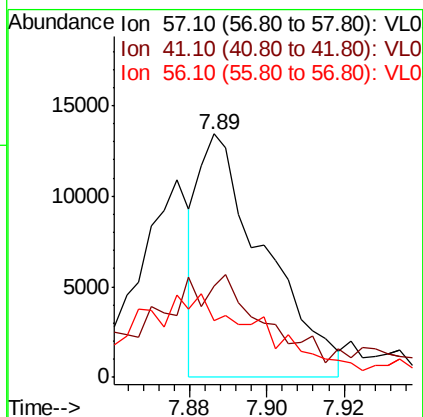
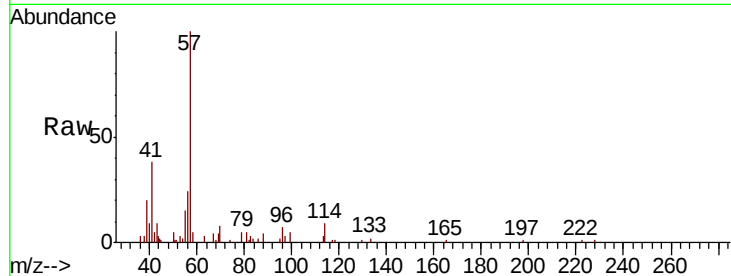
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	17.0	51.4	77.0#





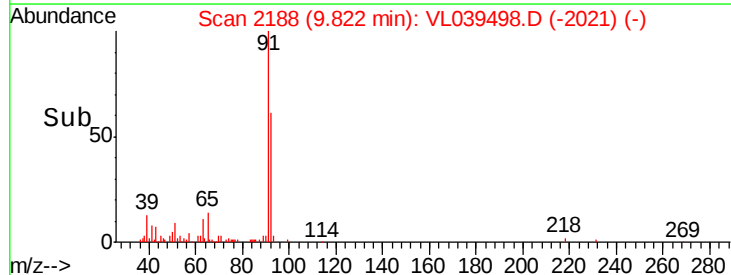
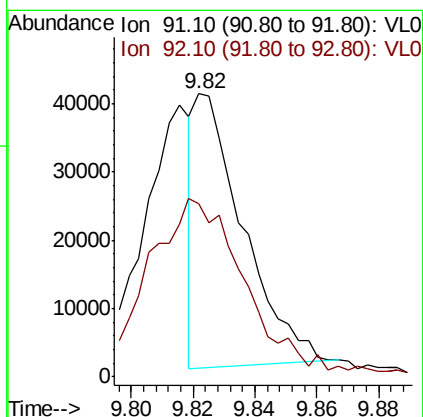
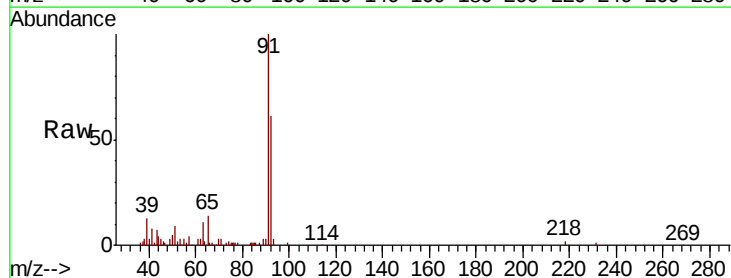
#44
 2,2,4-Trimethylpentane
 Concen: 0.040 ppbv
 RT: 7.89
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 2:24

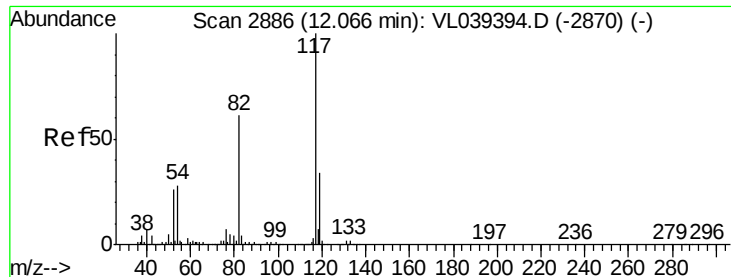
Tot Ion	57	Resp	15890
Ion	Ratio	Lower	Upper
57	100		
41	84.8	27.4	41.2#
56	76.4	24.5	36.7#



#53
 Toluene
 Concen: 0.160 ppbv
 RT: 9.82 min Scan# 2188
 Delta R.T. 0.04 min
 Lab File: VL039498.D
 Acq: 20 Jul 2022 2:24

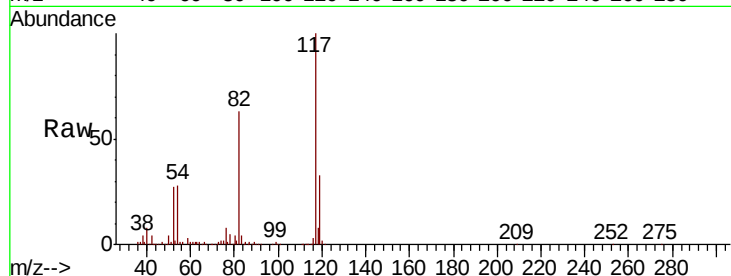
Tgt Ion	91	Resp	43236
Ion	Ratio	Lower	Upper
91	100		
92	140.6	48.2	72.2#



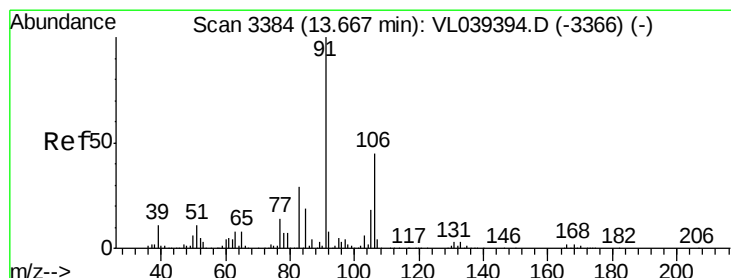
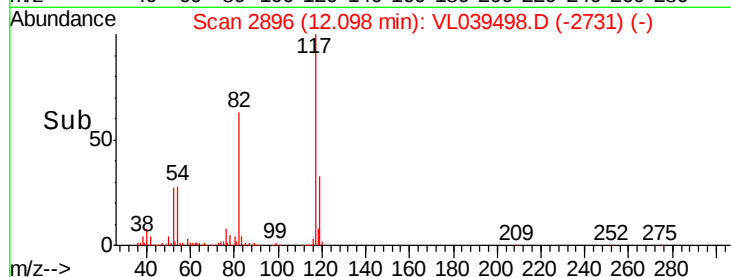
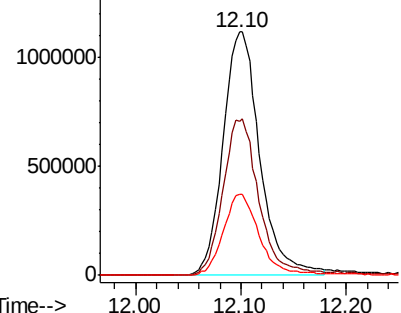


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Jul 2022 2:24

Tot Ion: 117 Resp: 2707327
Ion Ratio Lower Upper
117 100
82 64.9 50.8 76.2
119 33.4 24.1 36.1

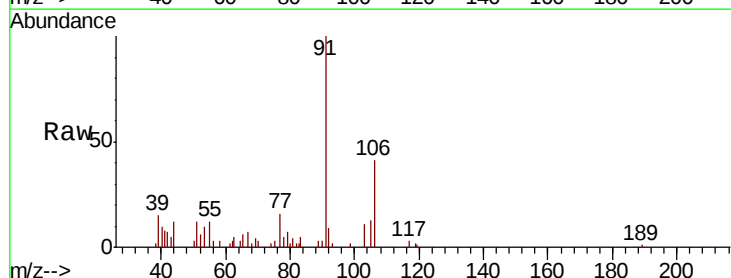


Abundance Ion 117.10 (116.80 to 117.80): V
1500000 Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

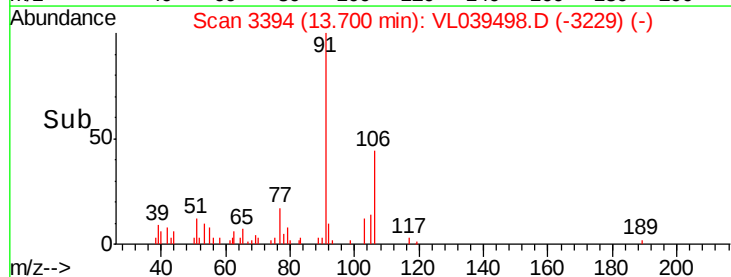
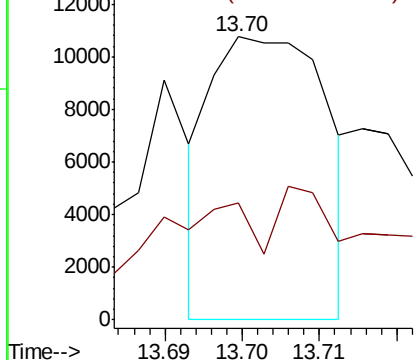


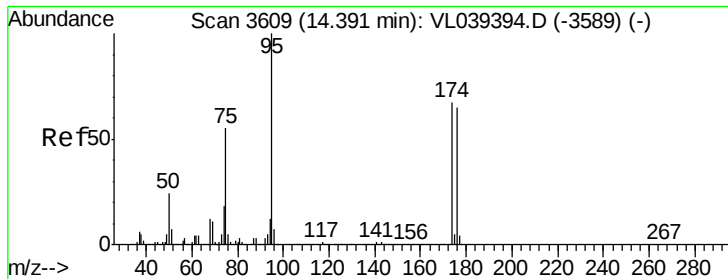
#60
o-Xylene
Concen: 0.038 ppbv
RT: 13.70 min Scan# 3394
Delta R.T. 0.03 min
Lab File: VL039498.D
Acq: 20 Jul 2022 2:24

Tgt Ion: 91 Resp: 11190
Ion Ratio Lower Upper
91 100
106 104.8 22.4 67.3#



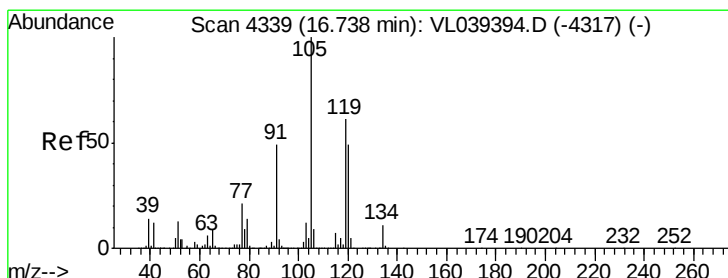
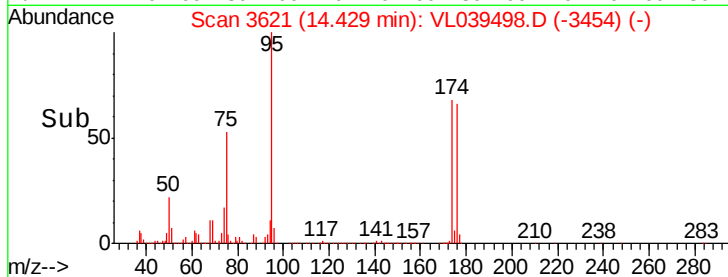
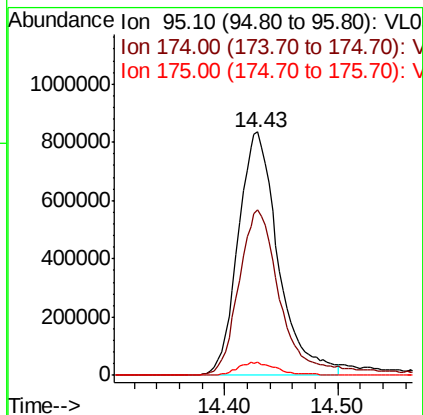
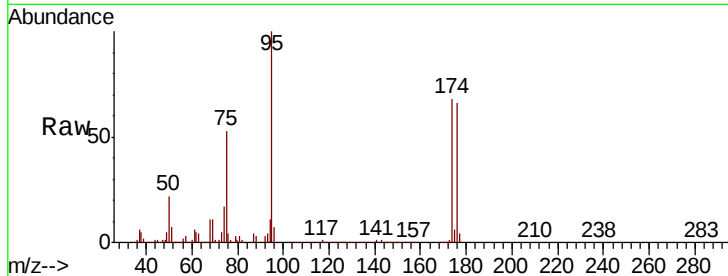
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





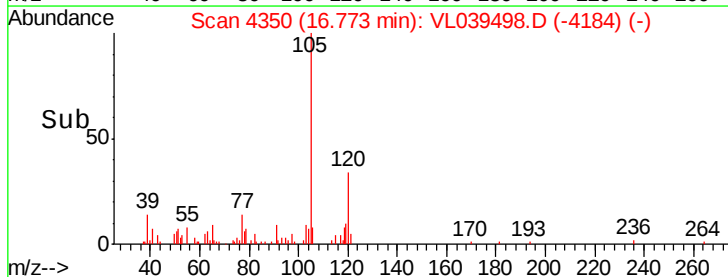
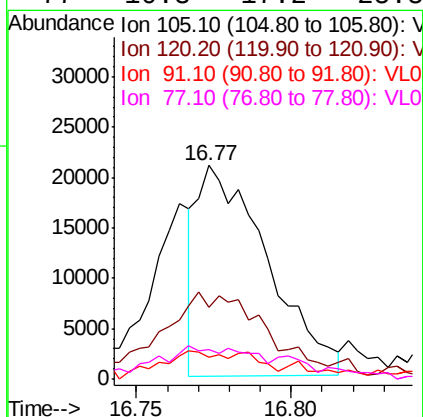
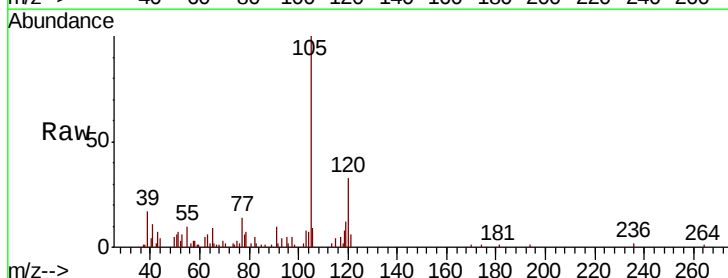
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.288 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 20 Jul 2022 2:24

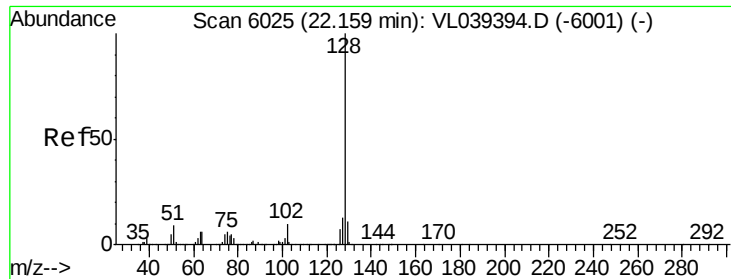
Tot Ion: 95 Resp: 2066213
 Ion Ratio Lower Upper
 95 100
 174 73.0 55.9 83.9
 175 5.3 4.2 6.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.094 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.04 min
 Lab File: VL039498.D
 Acq: 20 Jul 2022 2:24

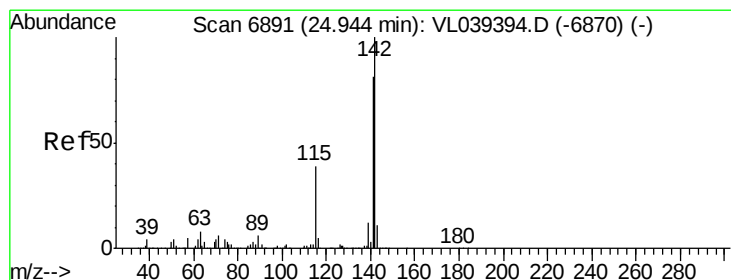
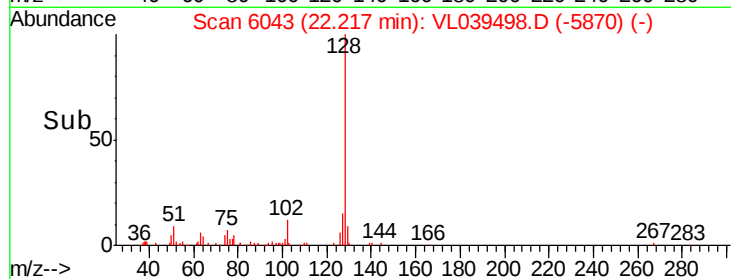
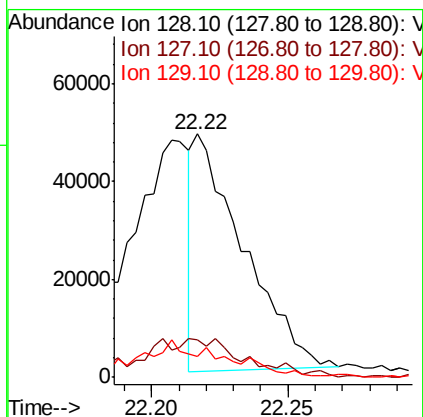
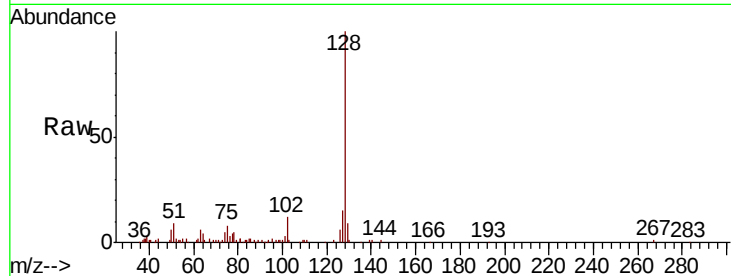
Tgt Ion: 105 Resp: 32776
 Ion Ratio Lower Upper
 105 100
 120 29.0 39.5 59.3#
 91 10.1 39.2 58.8#
 77 10.3 17.2 25.8#





#79
Naphthalene
Concen: 0.252 ppbv
RT: 22.22 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Jul 2022 2:24

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.0	10.6	15.8#
129	7.4	8.8	13.2#



#80
Naphthalene, 2-methyl-
Concen: 0.128 ppbv
RT: 24.98 min Scan# 6901
Delta R.T. 0.03 min
Lab File: VL039498.D
Acq: 20 Jul 2022 2:24

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.5	68.9	103.3
115	52.5	30.0	45.0#

