

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032822\
 Data File : VL038779.D
 Acq On : 28 Mar 2022 20:19
 Operator : SY/AP
 Sample : N2078-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-4

Quant Time: Mar 29 06:12:02 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	765989	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1984024	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1644261	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1296325	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

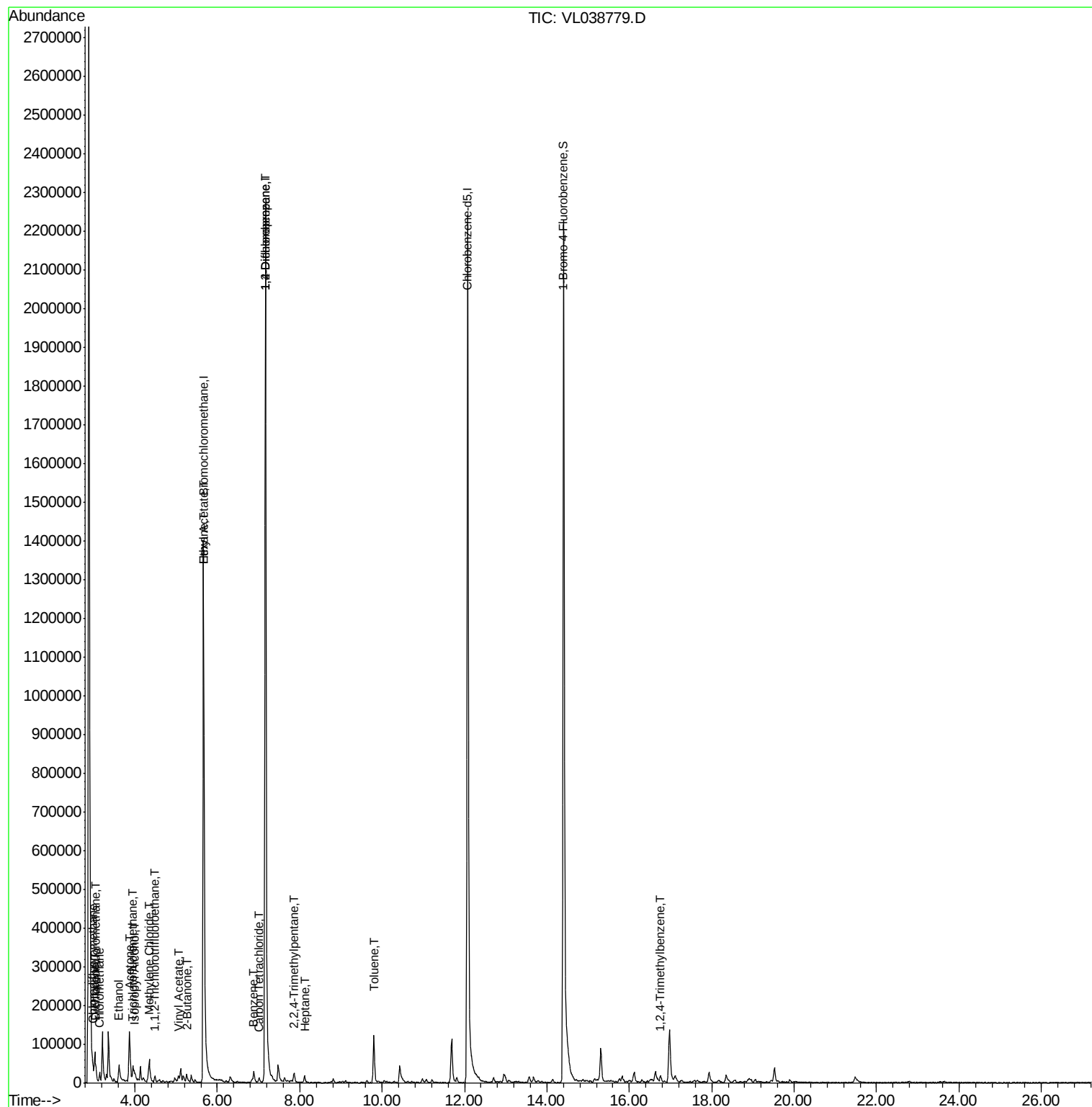
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	26508	0.257	ppbv	97
3) Chlorodifluoromethane	2.99	51	30348	0.375	ppbv	94
4) Chloromethane	3.15	50	24736	0.557	ppbv	98
9) Propene	3.02	41	6619	0.169	ppbv #	15
10) Heptane	8.11	43	5126	0.055	ppbv #	65
11) Trichlorofluoromethane	3.95	101	25605	0.282	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2387	0.034	ppbv #	1
13) Ethanol	3.61	45	61122	14.187	ppbv	87
15) Acetone	3.86	43	163292	2.471	ppbv	99
19) Isopropyl Alcohol	3.98	45	14649	0.400	ppbv #	29
20) Methylene Chloride	4.34	84	22881	0.822	ppbv	97
23) Vinyl Acetate	5.07	43	1979	0.031	ppbv #	1
25) Ethyl Acetate	5.68	43	32477	0.195	ppbv #	77
26) Hexane	5.68	57	13248	0.178	ppbv #	40
34) 2-Butanone	5.25	43	26659	0.339	ppbv #	86
35) Carbon Tetrachloride	7.02	117	3904	0.034	ppbv #	69
36) Benzene	6.89	78	6401	0.042	ppbv #	74
39) 1,2-Dichloropropane	7.17	63	463959	7.751	ppbv #	30
44) 2,2,4-Trimethylpentane	7.86	57	11347	0.044	ppbv #	15
53) Toluene	9.80	91	102659	0.624	ppbv	99
74) 1,2,4-Trimethylbenzene	16.75	105	5984	0.032	ppbv #	76

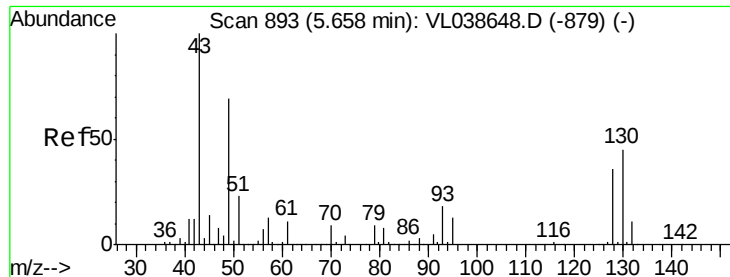
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Mar 2022 20:19

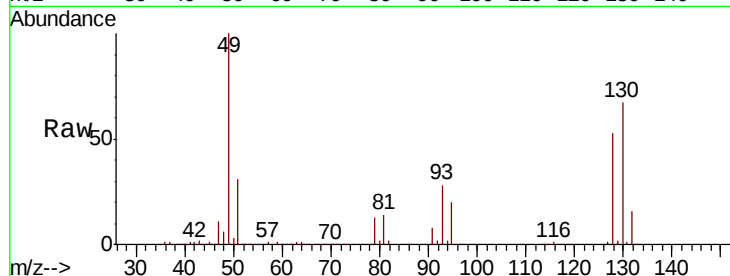
Tot Ion: 49 Resp: 765989

Ion Ratio Lower Upper

49 100

128 56.0 26.2 78.6

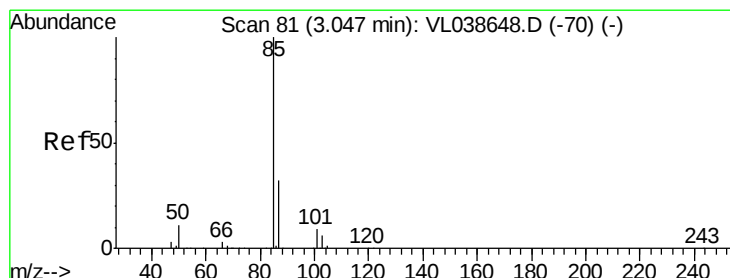
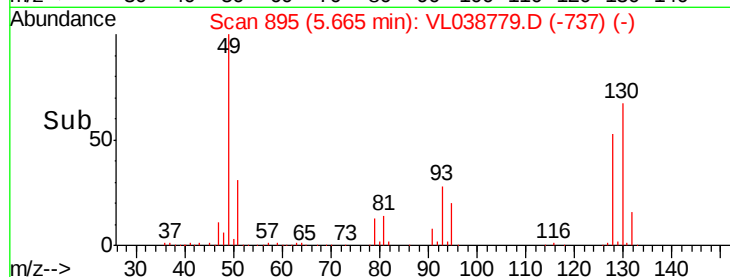
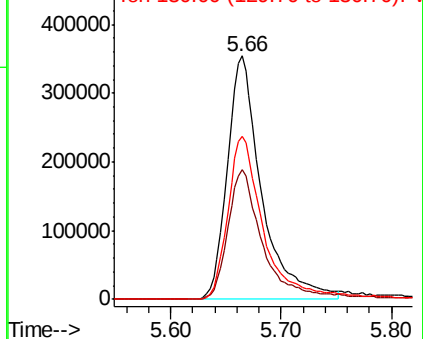
130 71.3 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.257 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038779.D

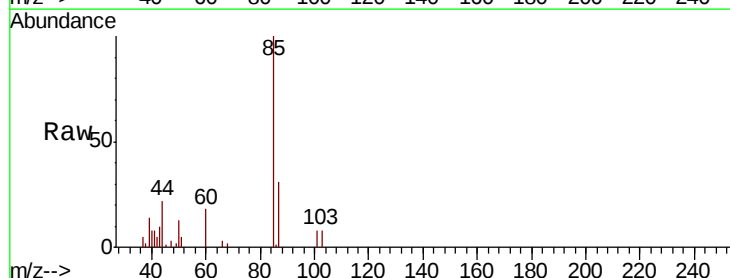
Acq: 28 Mar 2022 20:19

Tgt Ion: 85 Resp: 26508

Ion Ratio Lower Upper

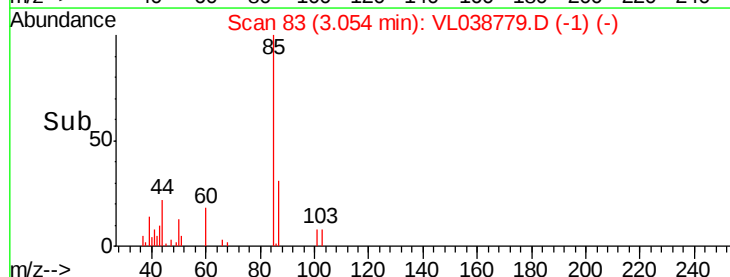
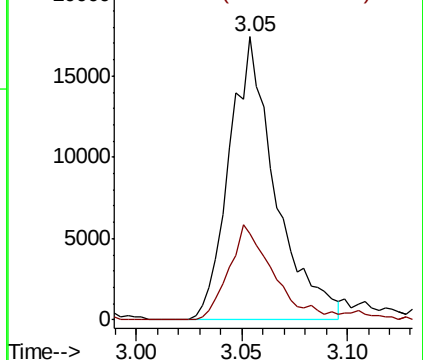
85 100

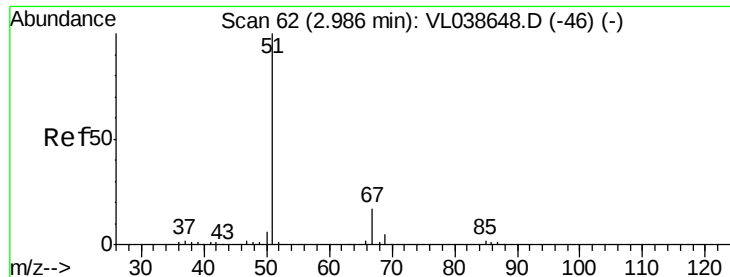
87 30.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.375 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: V-4

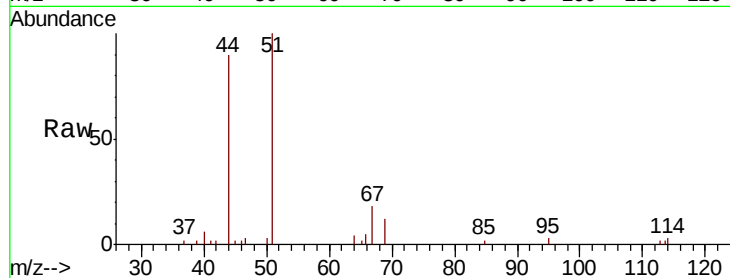
Acq: 28 Mar 2022 20:19

Tot Ion: 51 Resp: 30348

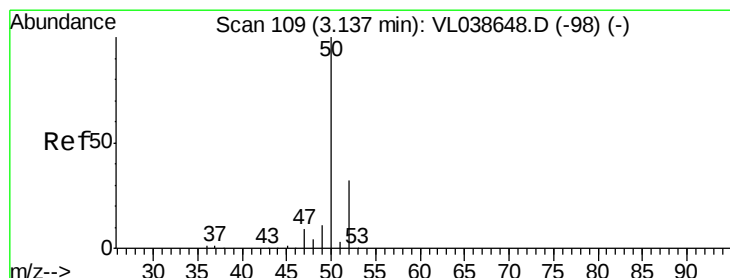
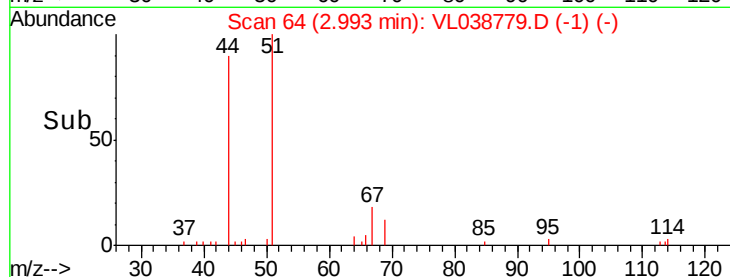
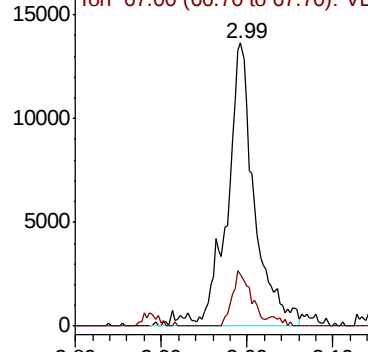
Ion Ratio Lower Upper

51 100

67 15.1 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.557 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL038779.D

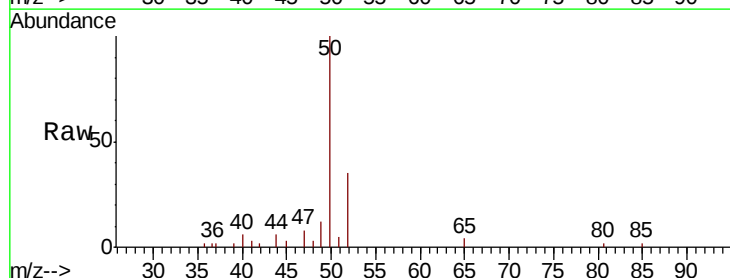
Acq: 28 Mar 2022 20:19

Tgt Ion: 50 Resp: 24736

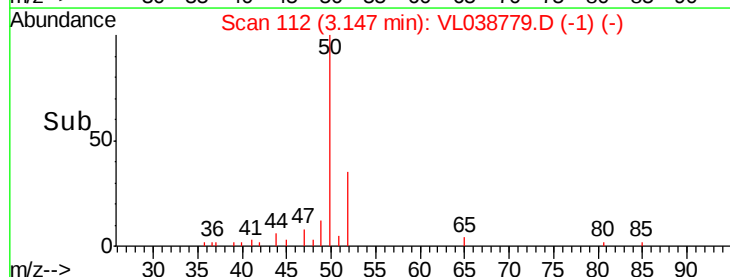
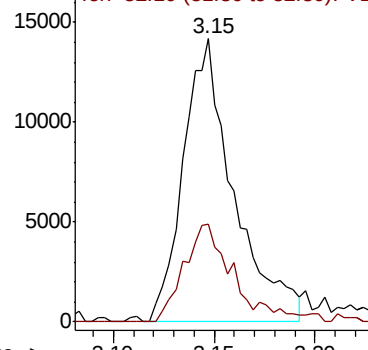
Ion Ratio Lower Upper

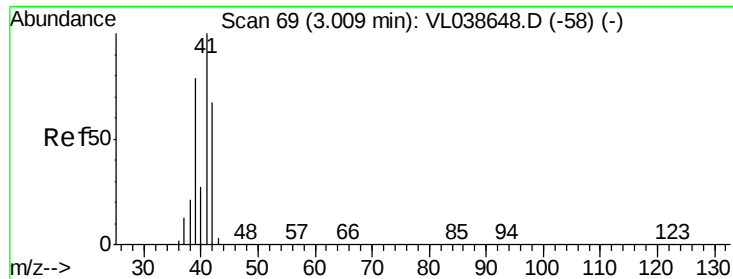
50 100

52 33.0 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.169 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

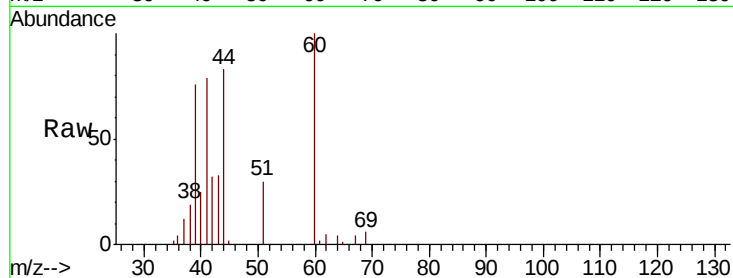
Acq: 28 Mar 2022 20:19

Tot Ion: 41 Resp: 6619

Ion Ratio Lower Upper

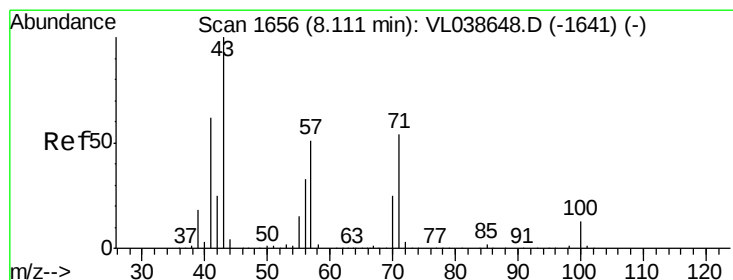
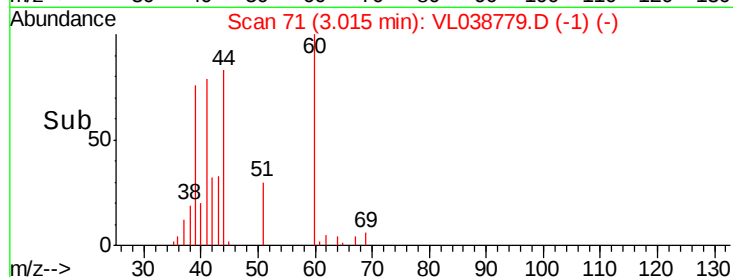
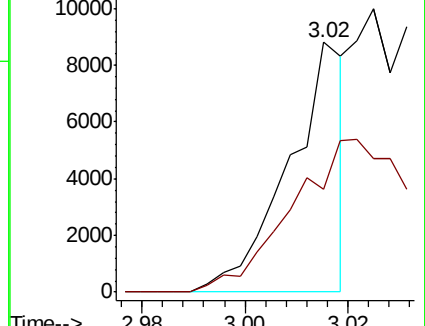
41 100

42 0.0 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.055 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VL038779.D

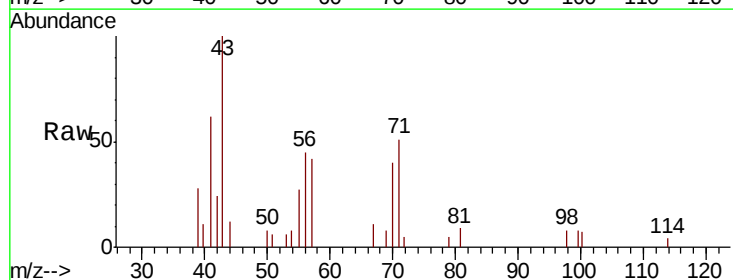
Acq: 28 Mar 2022 20:19

Tgt Ion: 43 Resp: 5126

Ion Ratio Lower Upper

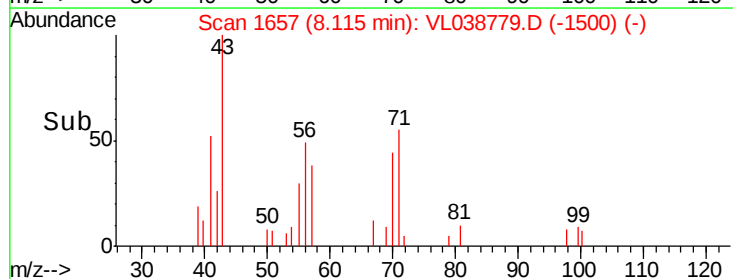
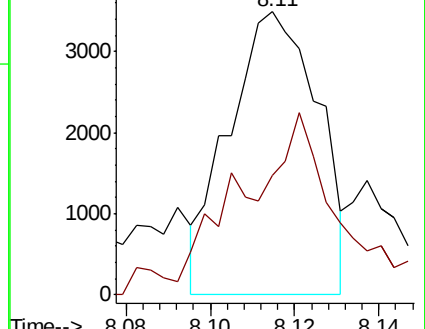
43 100

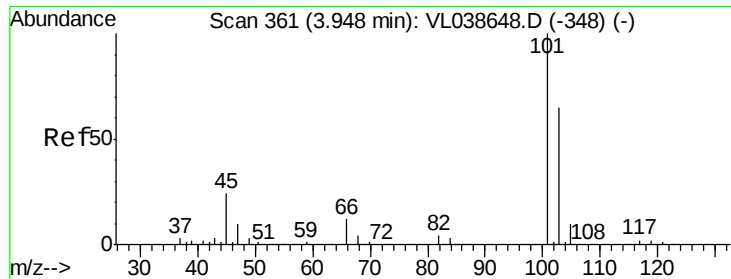
57 76.6 41.4 62.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

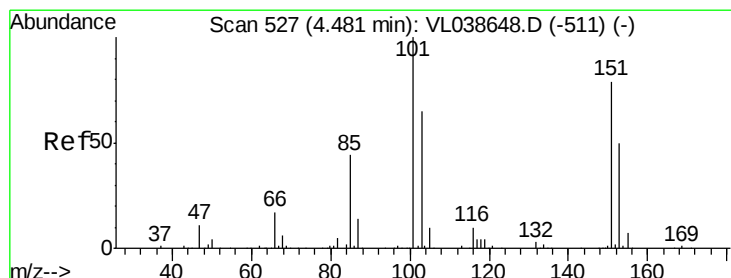
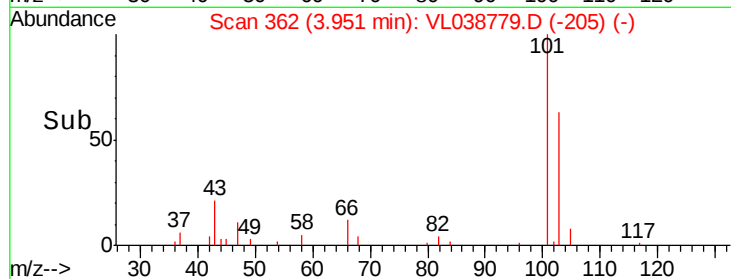
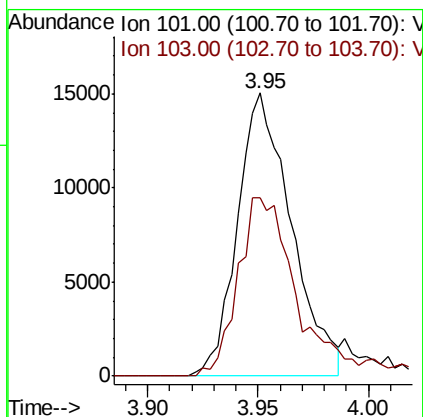
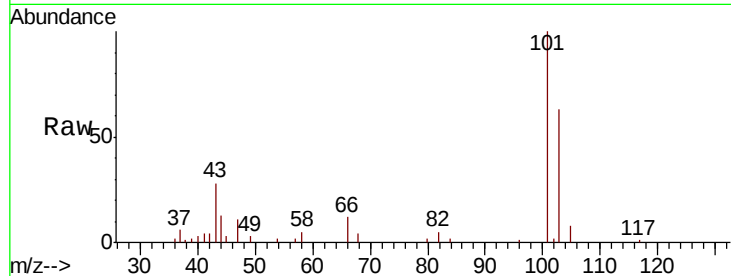
Ion 57.10 (56.80 to 57.80): VL0





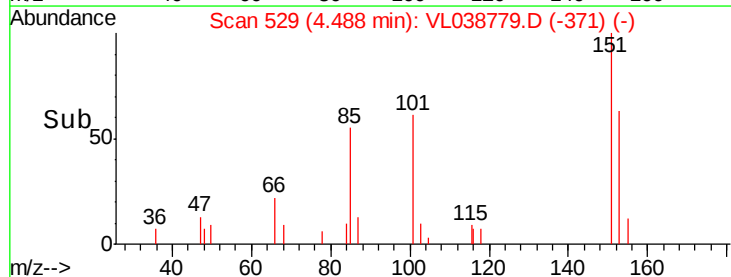
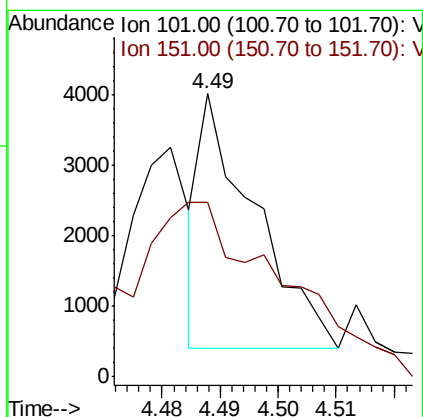
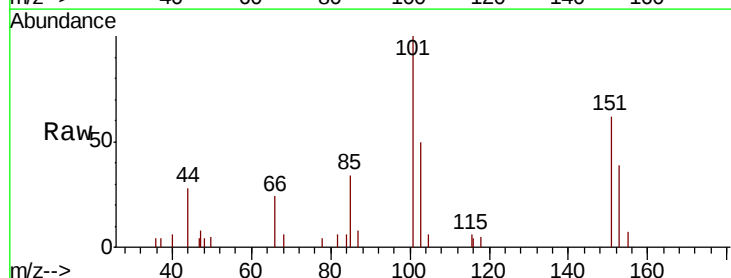
#11
 Trichlorofluoromethane
 Concen: 0.282 ppbv
 RT: 3.95
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 V-4
 Acq: 28 Mar 2022 20:19

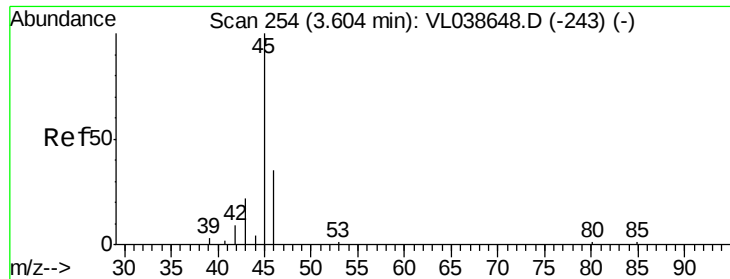
Tot Ion:101 Resp: 25605
 Ion Ratio Lower Upper
 101 100
 103 63.2 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.034 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T.: 0.01 min
 Lab File: VL038779.D
 Acq: 28 Mar 2022 20:19

Tgt Ion:101 Resp: 2387
 Ion Ratio Lower Upper
 101 100
 151 202.1 62.9 94.3#





#13

Ethanol

Concen: 14.187 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

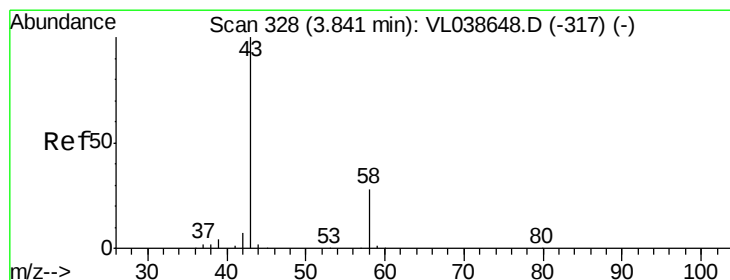
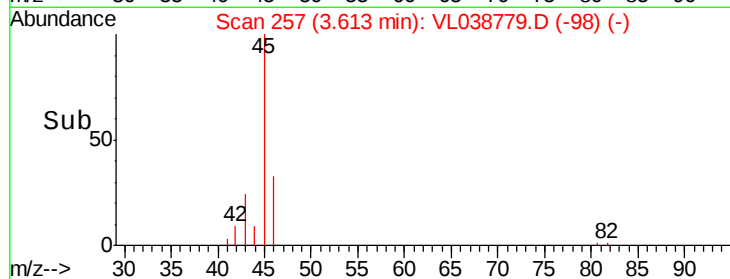
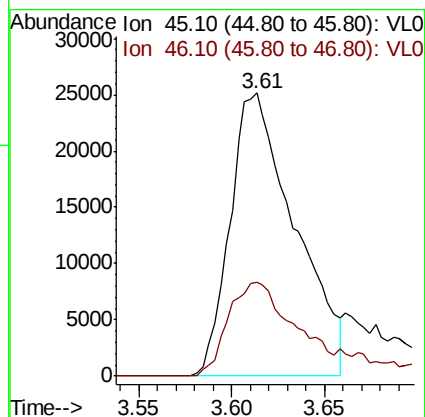
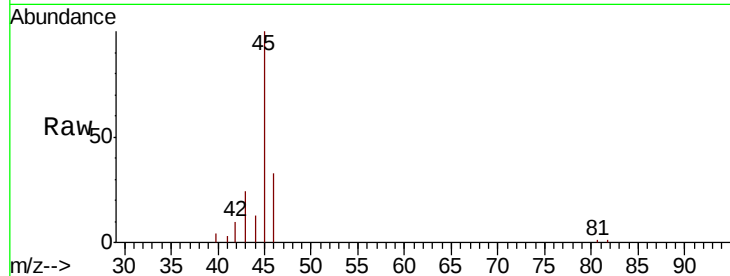
Acq: 28 Mar 2022 20:19

Tot Ion: 45 Resp: 61122

Ion Ratio Lower Upper

45 100

46 45.8 15.1 60.5



#15

Acetone

Concen: 2.471 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL038779.D

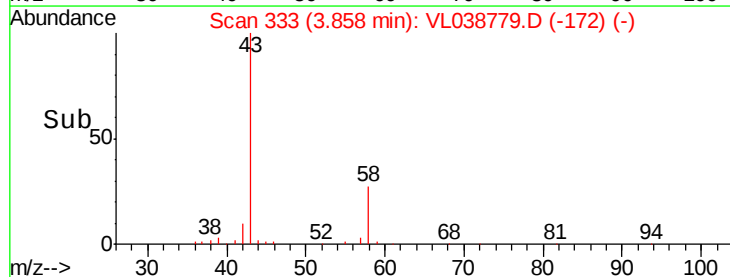
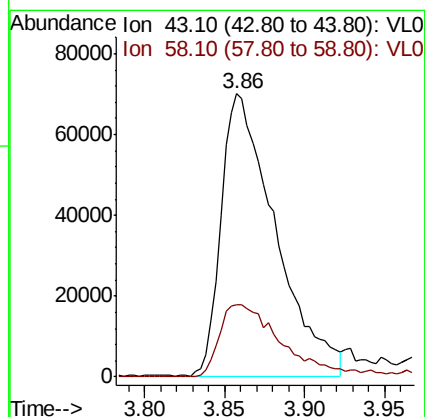
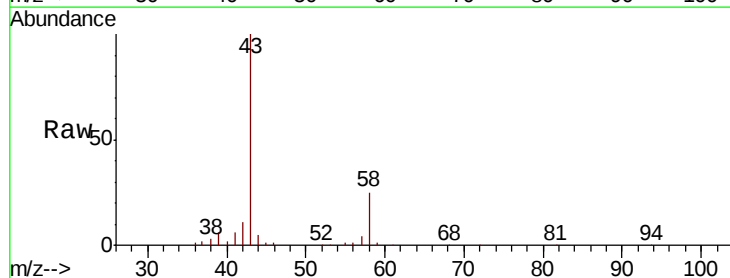
Acq: 28 Mar 2022 20:19

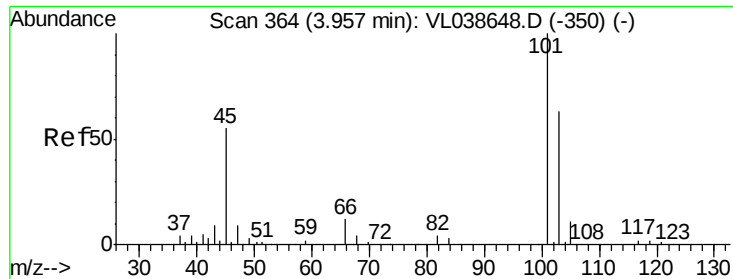
Tgt Ion: 43 Resp: 163292

Ion Ratio Lower Upper

43 100

58 29.5 23.3 34.9





#19

Isopropyl Alcohol

Concen: 0.400 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

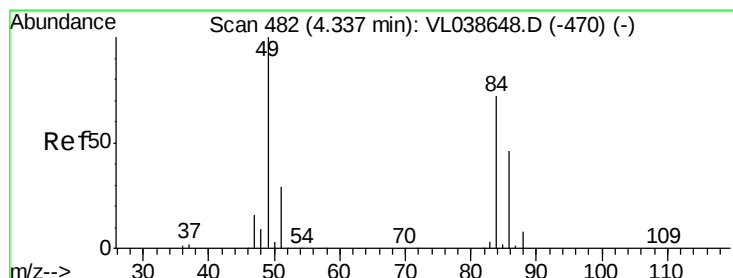
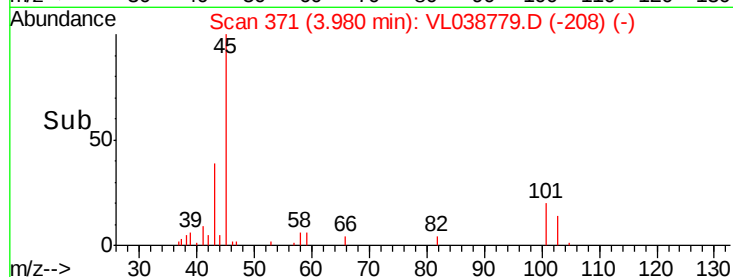
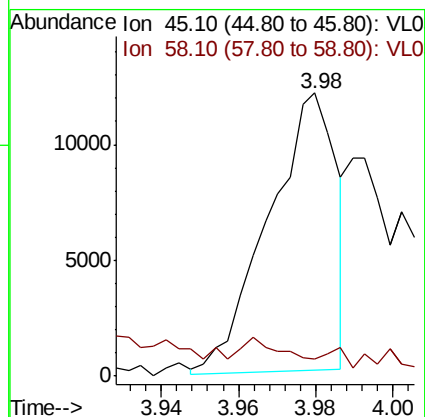
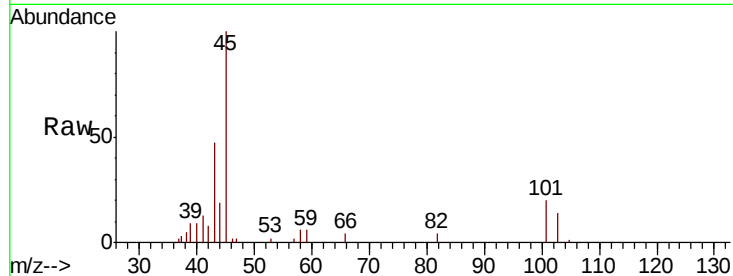
Acq: 28 Mar 2022 20:19

Tot Ion: 45 Resp: 14649

Ion Ratio Lower Upper

45 100

58 26.6 2.3 3.5#



#20

Methylene Chloride

Concen: 0.822 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.01 min

Lab File: VL038779.D

Acq: 28 Mar 2022 20:19

Tgt Ion: 84 Resp: 22881

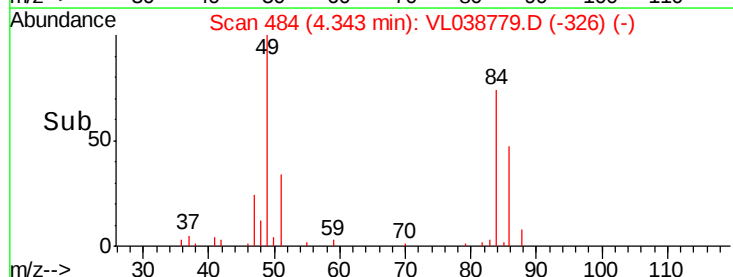
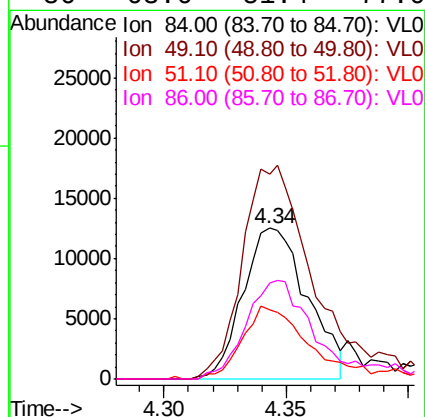
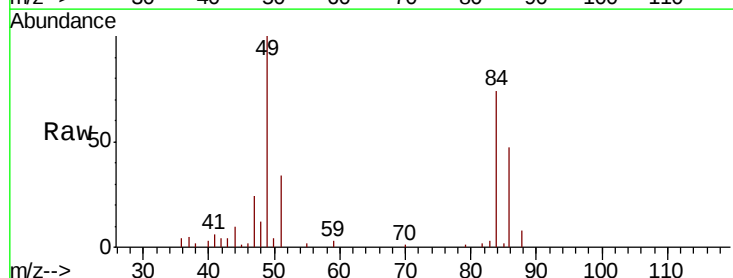
Ion Ratio Lower Upper

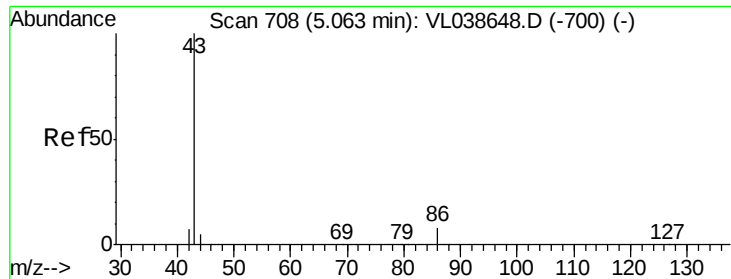
84 100

49 134.5 111.2 166.8

51 44.5 32.8 49.2

86 63.6 51.4 77.0





#23

Vinyl Acetate

Concen: 0.031 ppbv

RT: 5.07 Instrument:

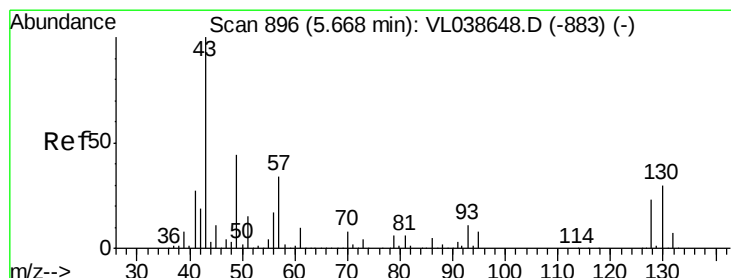
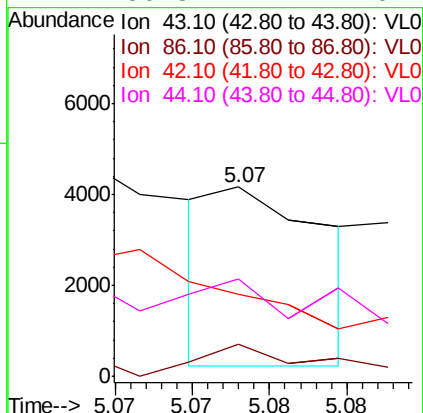
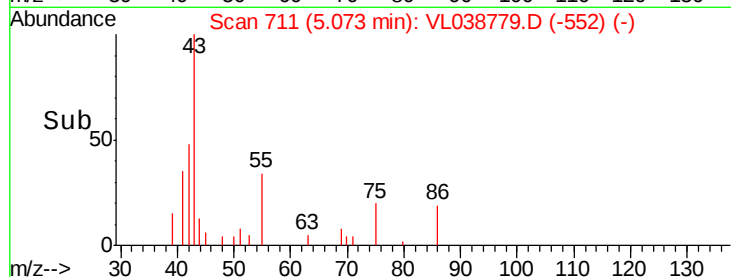
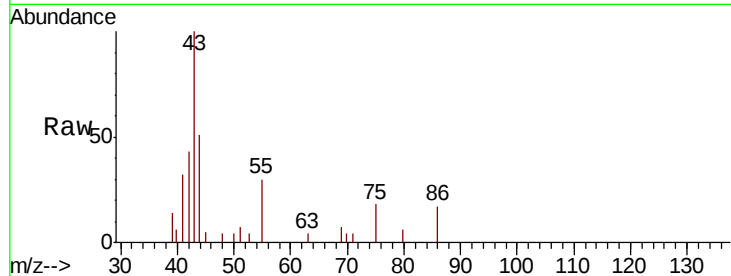
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Mar 2022 20:19

Tot Ion: 43 Resp: 1979

Ion	Ratio	Lower	Upper
43	100		
86	46.9	5.6	8.4#
42	88.6	6.8	10.2#
44	36.8	4.2	6.2#



#25

Ethyl Acetate

Concen: 0.195 ppbv

RT: 5.68 min Scan# 900

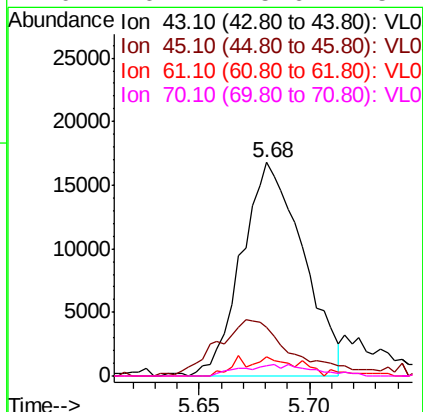
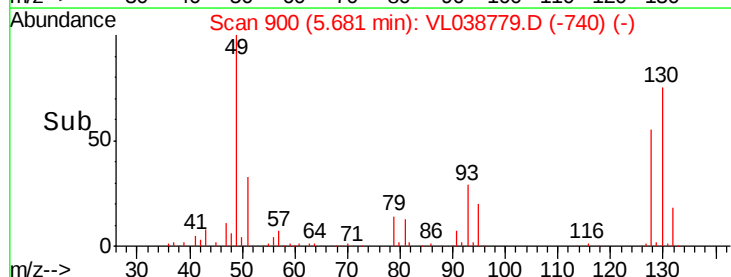
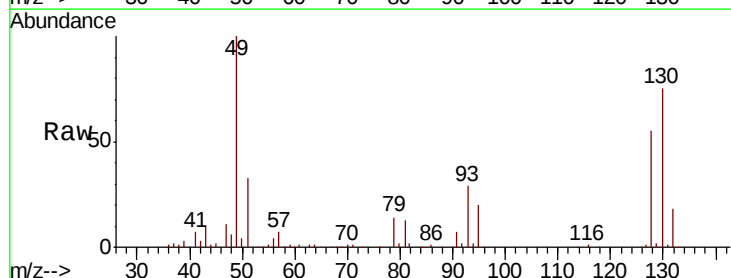
Delta R.T. 0.01 min

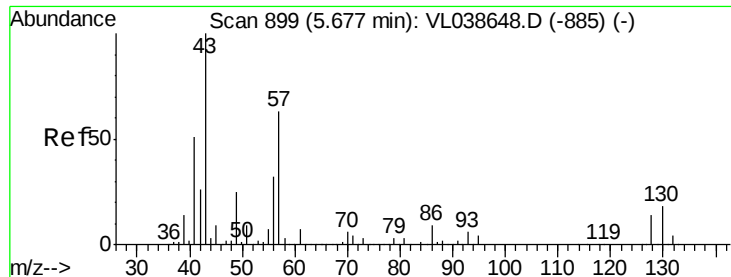
Lab File: VL038779.D

Acq: 28 Mar 2022 20:19

Tgt Ion: 43 Resp: 32477

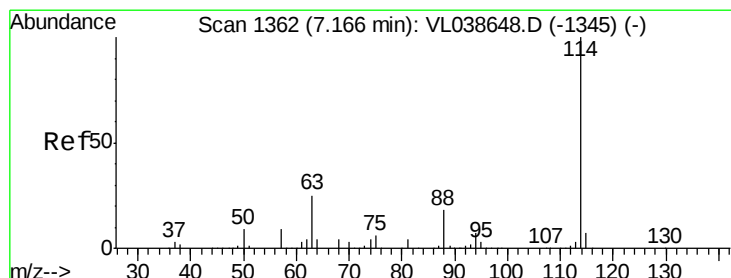
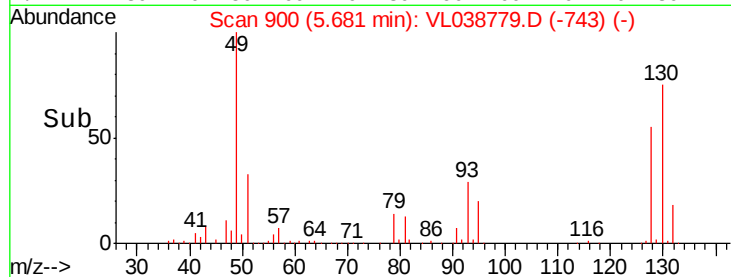
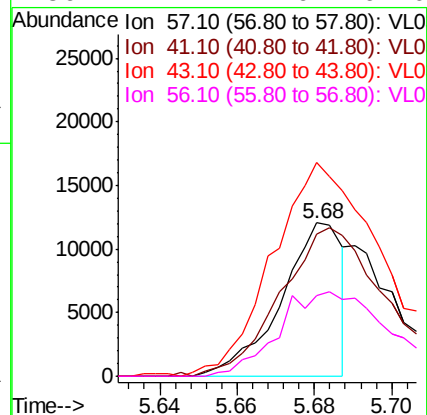
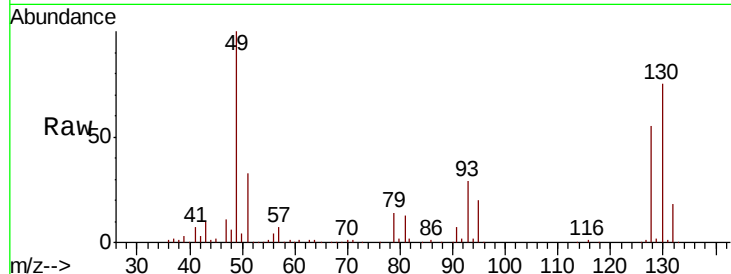
Ion	Ratio	Lower	Upper
43	100		
45	32.7	8.2	12.4#
61	9.9	8.3	12.5
70	6.4	5.6	8.4





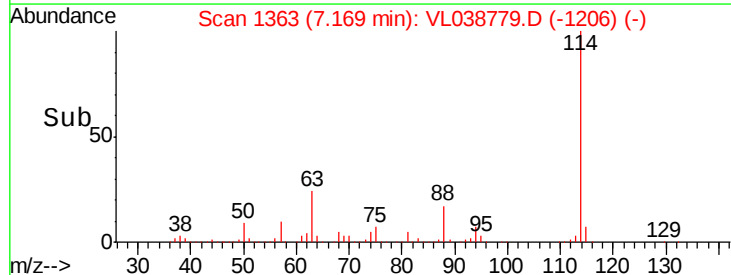
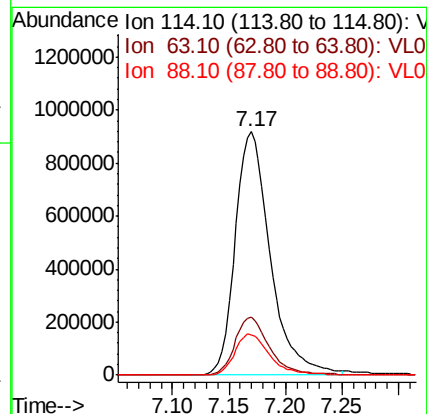
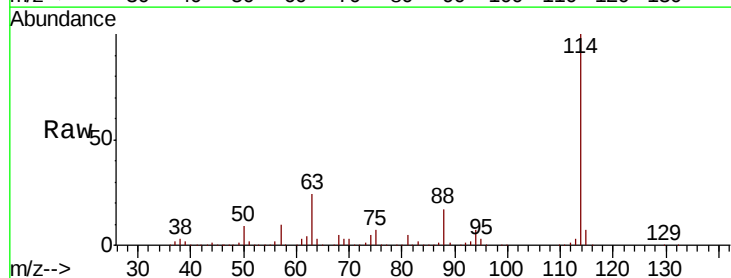
#26
Hexane
Concen: 0.178 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Mar 2022 20:19

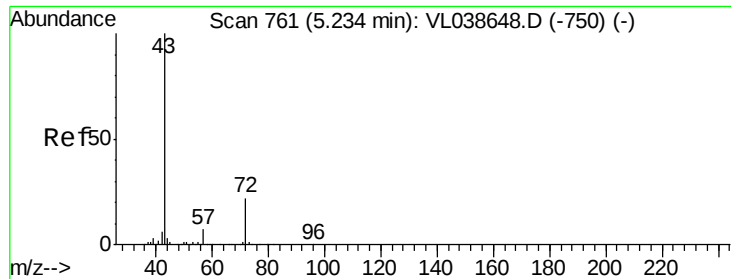
Tot Ion: 57 Resp: 13248
Ion Ratio Lower Upper
57 100
41 179.6 67.0 100.4#
43 293.0 184.2 276.2#
56 111.2 42.6 64.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T.: 0.00 min
Lab File: VL038779.D
Acq: 28 Mar 2022 20:19

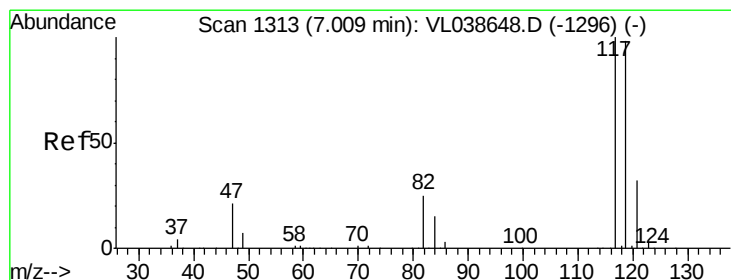
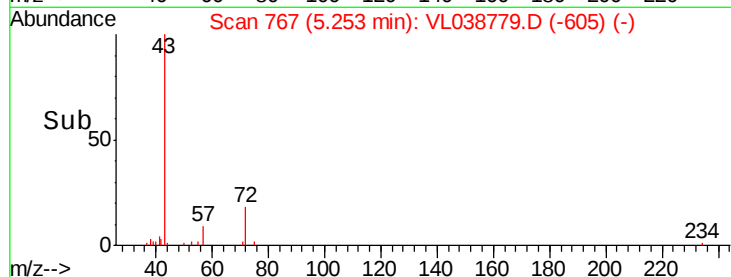
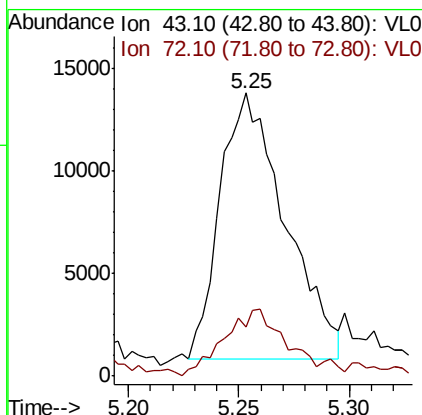
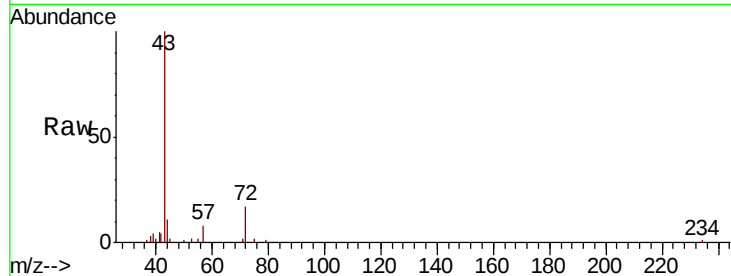
Tgt Ion:114 Resp: 1984024
Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.0
88 17.3 13.9 20.9





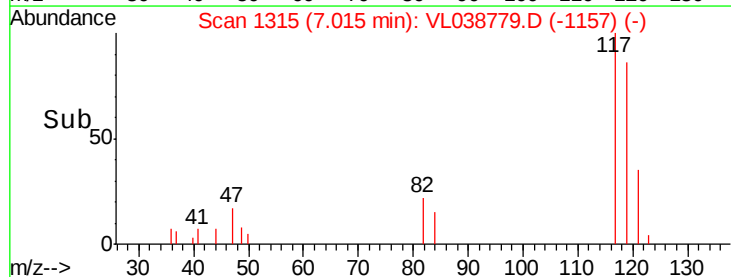
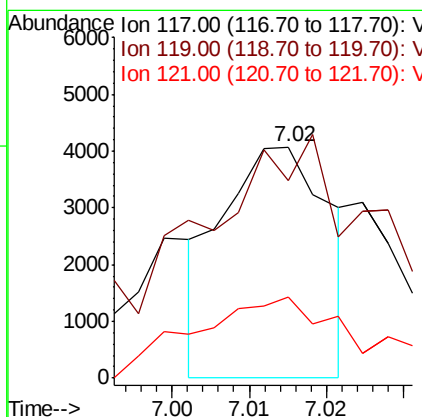
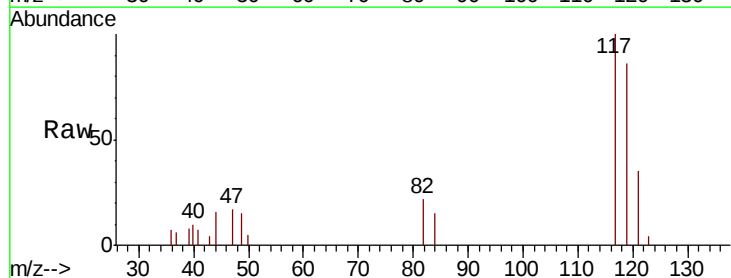
#34
 2-Butanone
 Concen: 0.339 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 28 Mar 2022 20:19

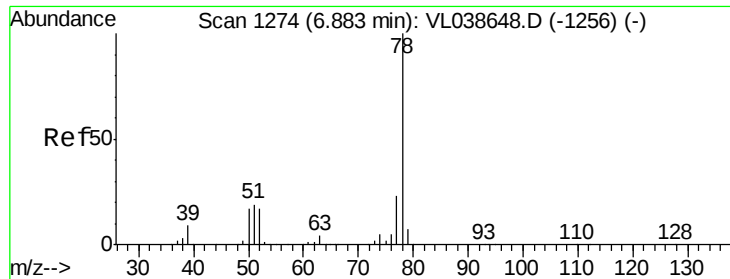
Tot Ion: 43 Resp: 26659
 Ion Ratio Lower Upper
 43 100
 72 29.0 17.8 26.8#



#35
 Carbon Tetrachloride
 Concen: 0.034 ppbv
 RT: 7.02 min Scan# 1315
 Delta R.T. 0.01 min
 Lab File: VL038779.D
 Acq: 28 Mar 2022 20:19

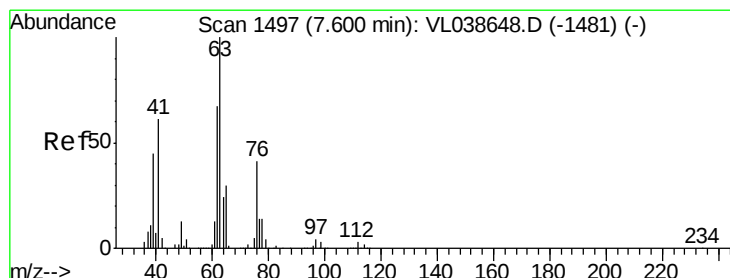
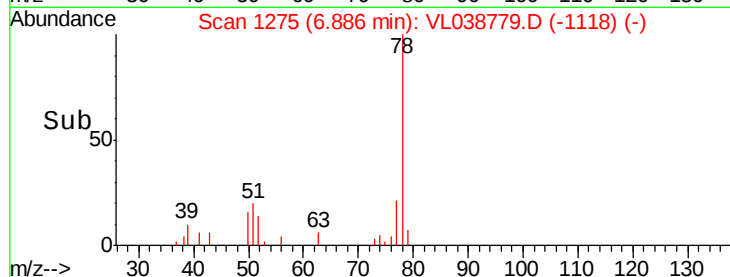
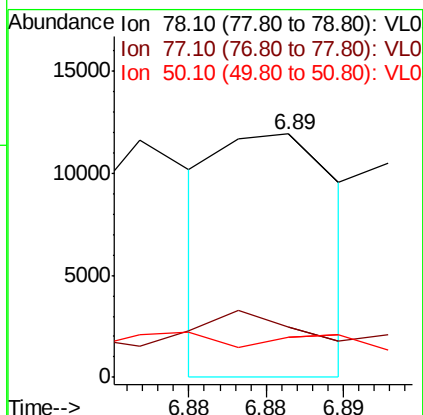
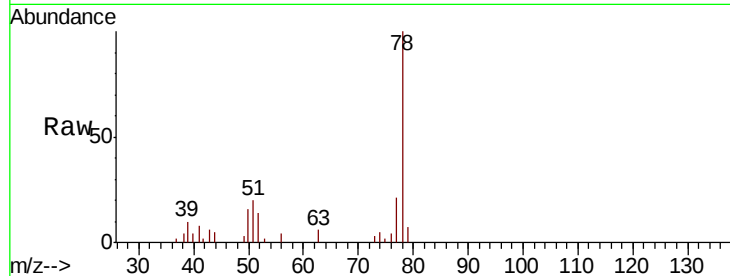
Tgt Ion: 117 Resp: 3904
 Ion Ratio Lower Upper
 117 100
 119 61.8 78.1 117.1#
 121 40.1 25.8 38.6#





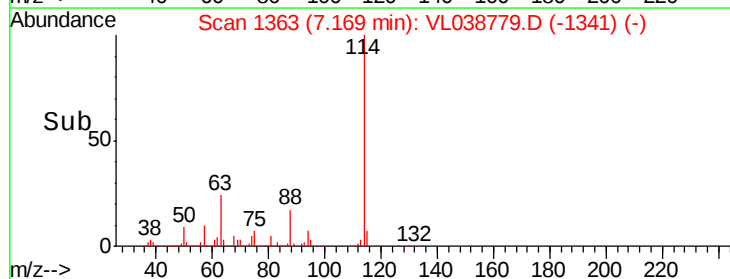
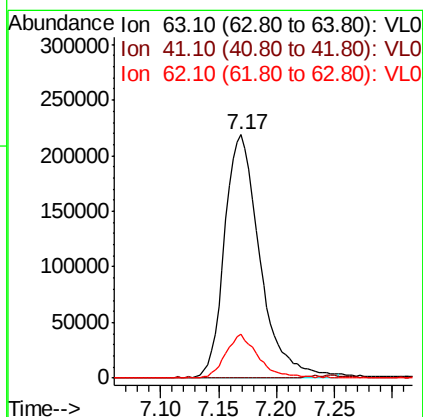
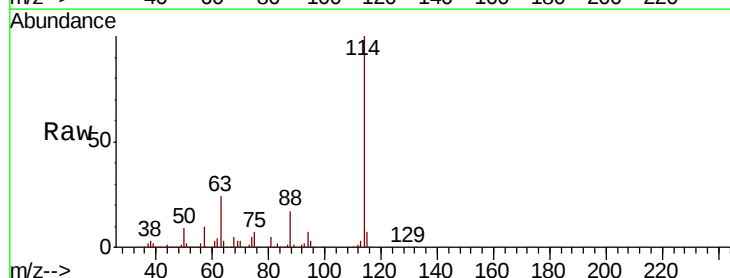
#36
Benzene
Concen: 0.042 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Mar 2022 20:19

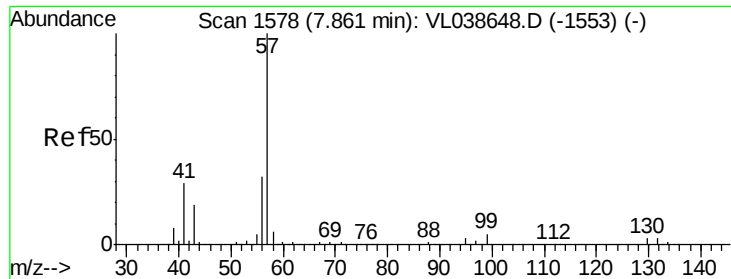
Tot Ion	78	Resp	6401
Ion Ratio	Lower	Upper	
78	100		
77	30.5	18.1	27.1#
50	0.0	13.6	20.4#



#39
1,2-Dichloropropane
Concen: 7.751 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.43 min
Lab File: VL038779.D
Acq: 28 Mar 2022 20:19

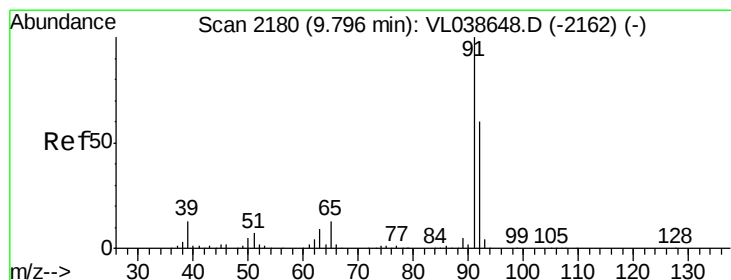
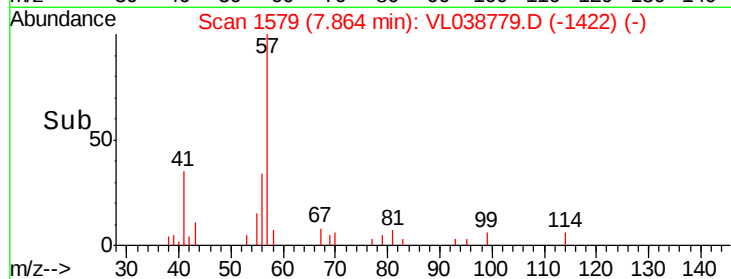
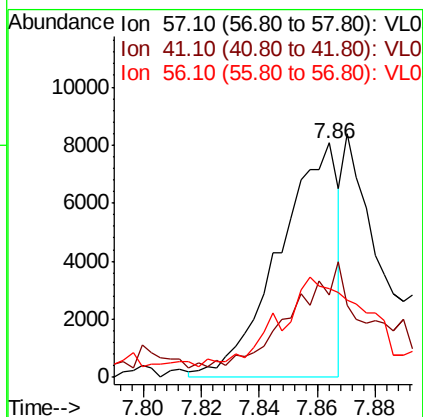
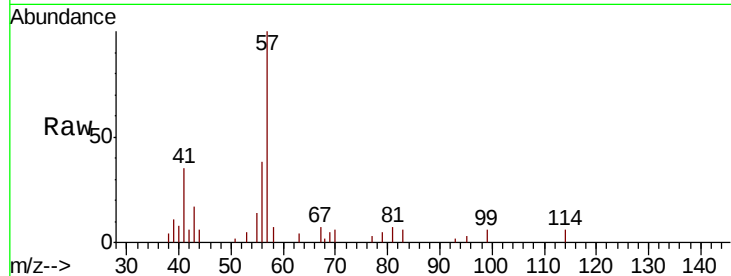
Tgt Ion	63	Resp	463959
Ion Ratio	Lower	Upper	
63	100		
41	0.0	49.0	73.6#
62	17.8	53.9	80.9#





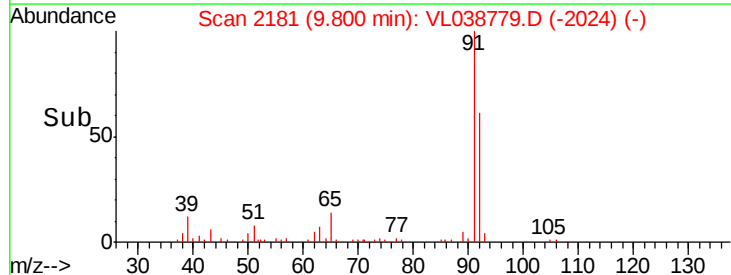
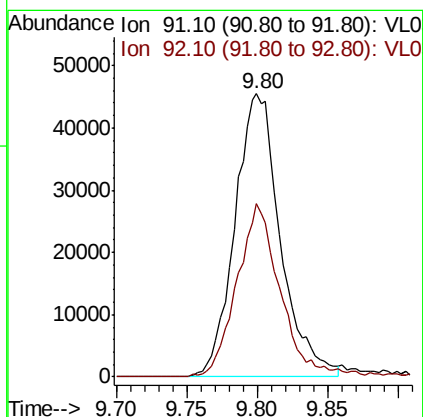
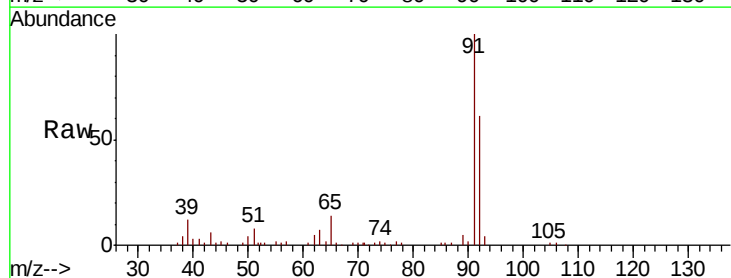
#44
 2,2,4-Trimethylpentane
 Concen: 0.044 ppbv
 RT: 7.86
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Mar 2022 20:19

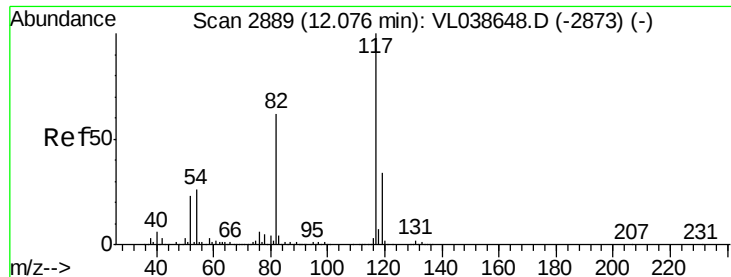
Tot Ion: 57 Resp: 11347
 Ion Ratio Lower Upper
 57 100
 41 0.0 23.0 34.4#
 56 94.6 25.3 37.9#



#53
 Toluene
 Concen: 0.624 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T.: 0.00 min
 Lab File: VL038779.D
 Acq: 28 Mar 2022 20:19

Tgt Ion: 91 Resp: 102659
 Ion Ratio Lower Upper
 91 100
 92 59.8 48.7 73.1

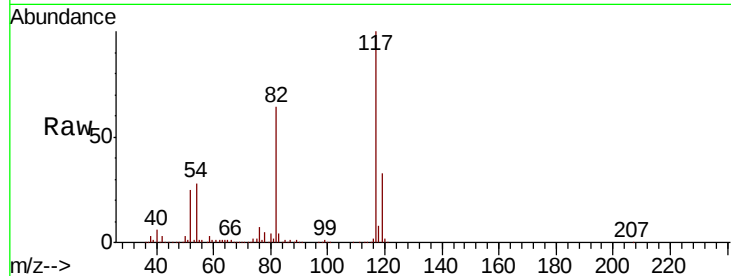




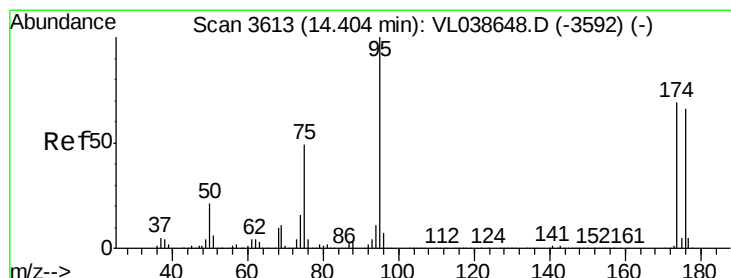
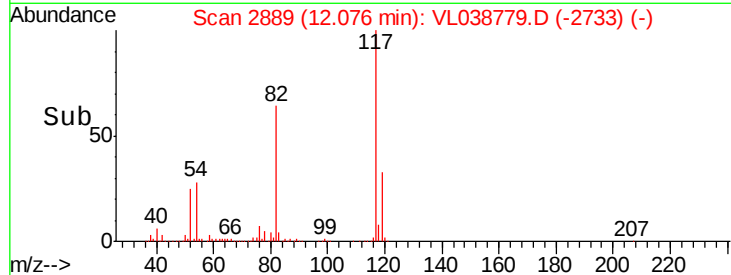
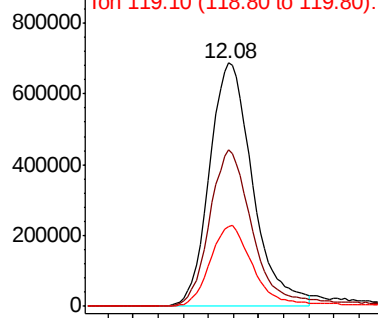
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Mar 2022 20:19

Tot Ion: 117 Resp: 1644261

Ion	Ratio	Lower	Upper
117	100		
82	67.0	51.6	77.4
119	34.5	26.9	40.3



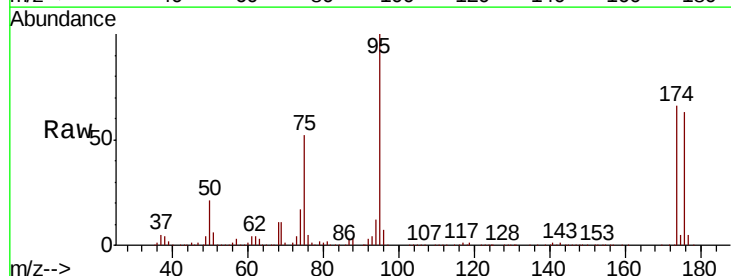
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



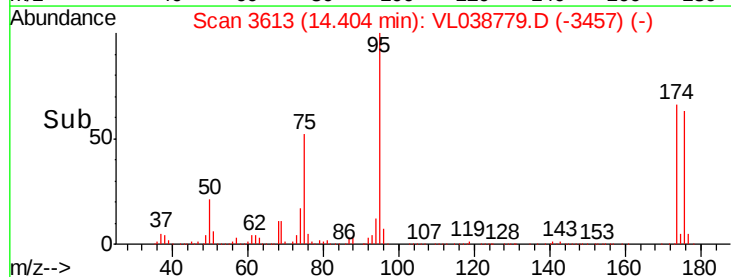
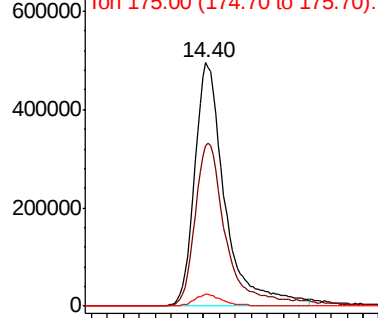
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.283 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T.: 0.00 min
 Lab File: VL038779.D
 Acq: 28 Mar 2022 20:19

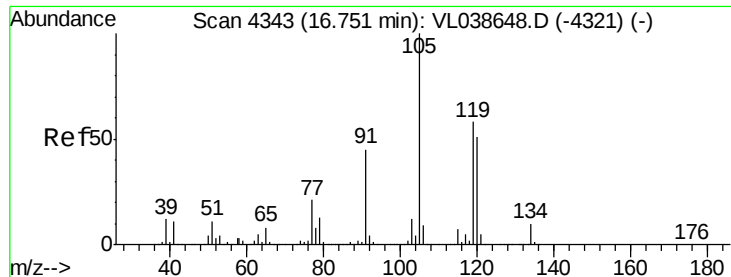
Tgt Ion: 95 Resp: 1296325

Ion	Ratio	Lower	Upper
95	100		
174	70.4	56.1	84.1
175	4.7	4.2	6.2



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





#74
 1,2,4-Trimethylbenzene
 Concen: 0.032 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Mar 2022 20:19

Tot Ion:	105	Resp:	5984
Ion	Ratio	Lower	Upper
105	100		
120	50.6	40.5	60.7
91	10.7	35.9	53.9#
77	12.2	16.6	25.0#

