

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071322\
 Data File : VL039475.D
 Acq On : 13 Jul 2022 22:04
 Operator : SY/AP
 Sample : N3660-05DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Quant Time: Jul 14 01:23:57 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	5.67	49	1155466	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	3220296	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	2922864	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2195876	10.13	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

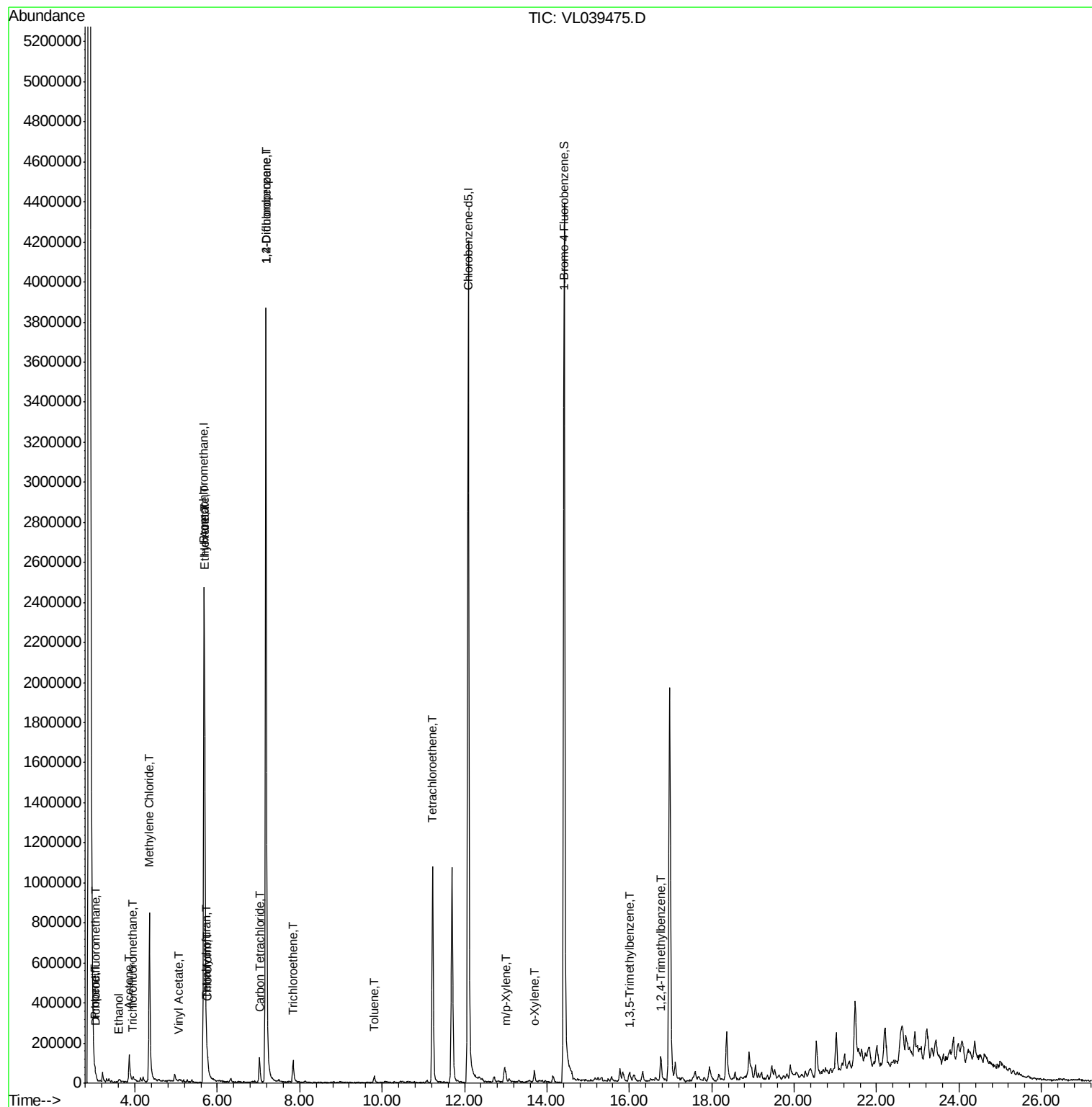
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	17518	0.11	ppbv	93
9) Propene	3.03	41	10445	0.16	ppbv	91
11) Trichlorofluoromethane	3.96	101	9115	0.05	ppbv	89
13) Ethanol	3.62	45	15030	3.91	ppbv	93
15) Acetone	3.86	43	175113	1.28	ppbv #	89
20) Methylene Chloride	4.35	84	340924	6.26	ppbv	96
23) Vinyl Acetate	5.07	43	7132	0.08	ppbv #	86
25) Ethyl Acetate	5.69	43	366933	1.31	ppbv #	75
26) Hexane	5.69	57	530641	4.70	ppbv #	39
29) Chloroform	5.76	83	46423	0.24	ppbv	92
35) Carbon Tetrachloride	7.02	117	42191	0.21	ppbv	92
38) Trichloroethene	7.84	130	22202	0.16	ppbv	95
39) 1,2-Dichloropropane	7.18	63	786137	8.44	ppbv #	25
41) Tetrahydrofuran	5.75	42	3664	0.04	ppbv #	45
52) Tetrachloroethene	11.22	164	284175	2.83	ppbv	94
53) Toluene	9.81	91	19135	0.07	ppbv #	81
59) m/p-Xylene	13.00	91	25861	0.08	ppbv #	78
60) o-Xylene	13.69	91	37771	0.12	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	16163	0.05	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	66343	0.18	ppbv #	69

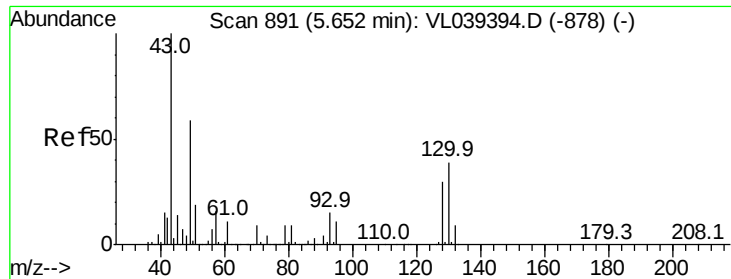
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Jul 2022 22:04

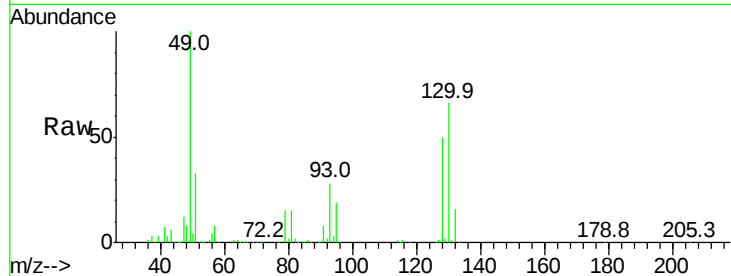
Tgt Ion: 49 Resp: 1155466

Ion Ratio Lower Upper

49 100

128 53.5 26.7 80.0

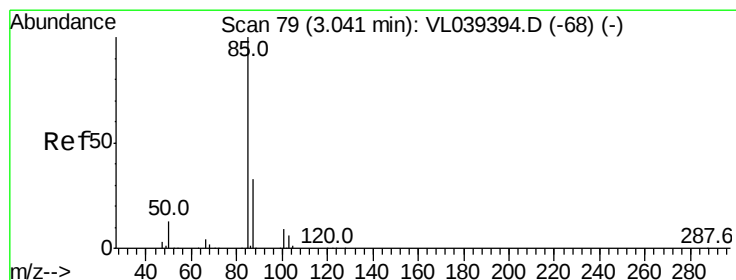
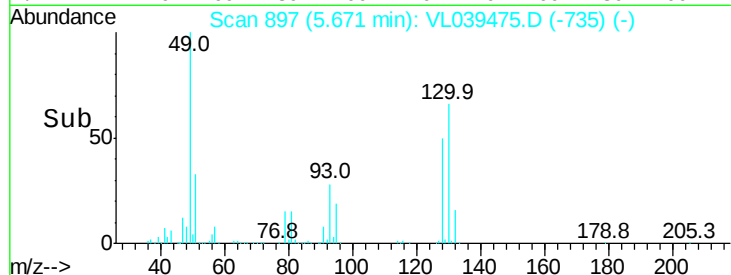
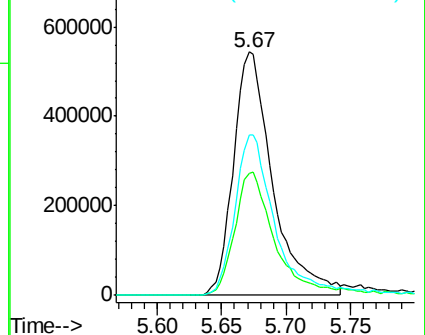
130 69.0 34.3 102.8



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: 0.11 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL039475.D

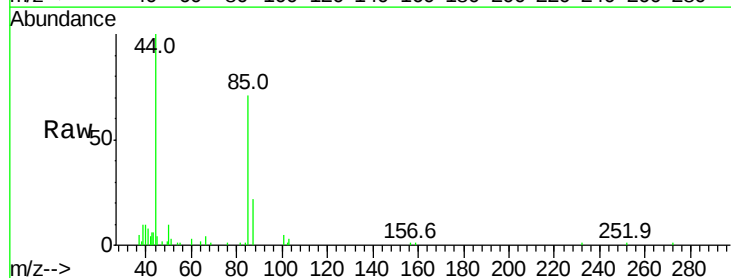
Acq: 13 Jul 2022 22:04

Tgt Ion: 85 Resp: 17518

Ion Ratio Lower Upper

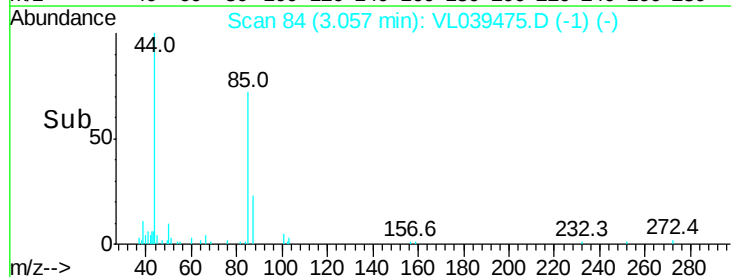
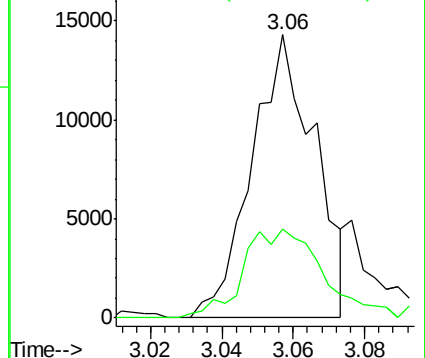
85 100

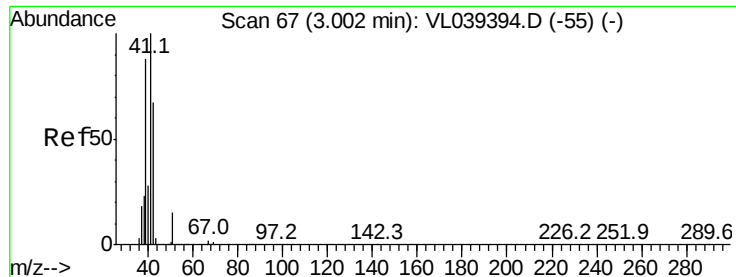
87 29.6 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.16 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

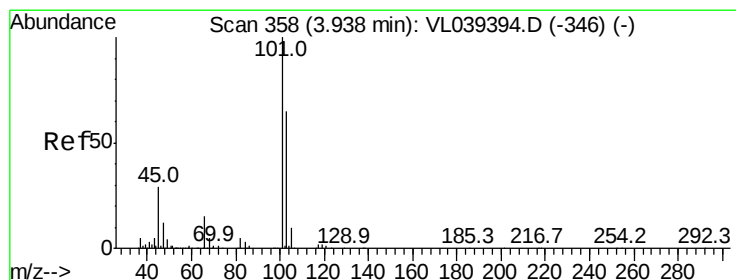
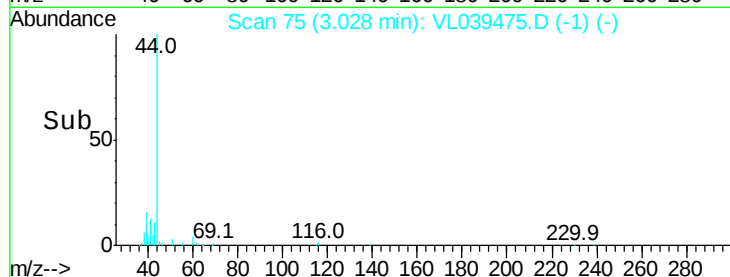
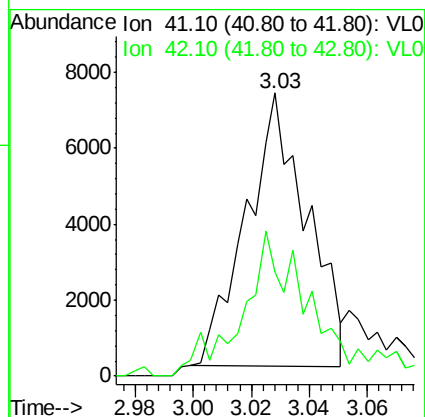
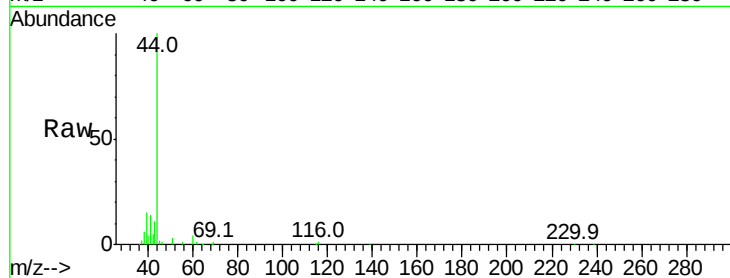
Acq: 13 Jul 2022 22:04

Tgt Ion: 41 Resp: 10445

Ion Ratio Lower Upper

41 100

42 61.9 55.2 82.8



#11

Trichlorofluoromethane

Concen: 0.05 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL039475.D

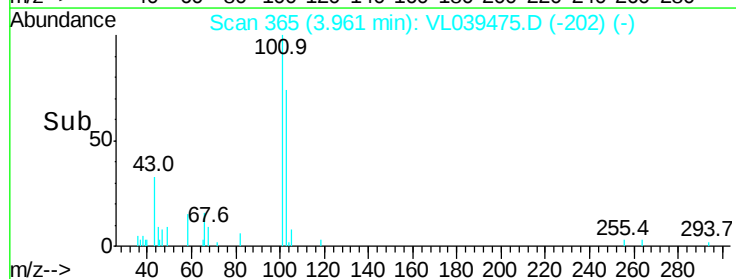
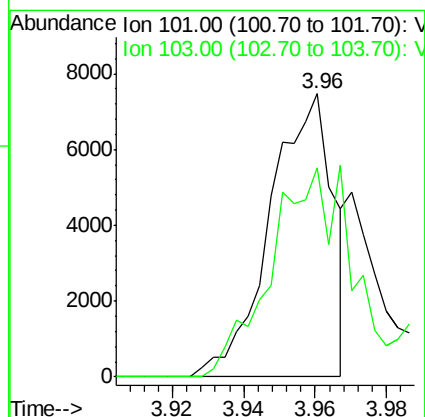
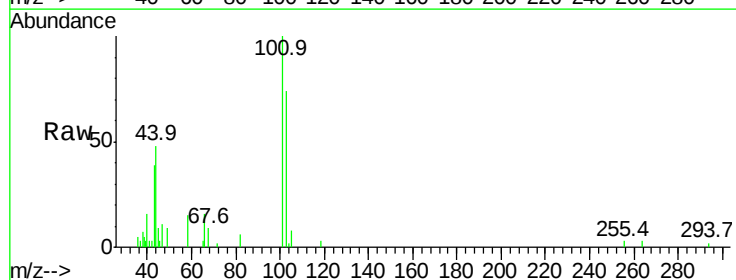
Acq: 13 Jul 2022 22:04

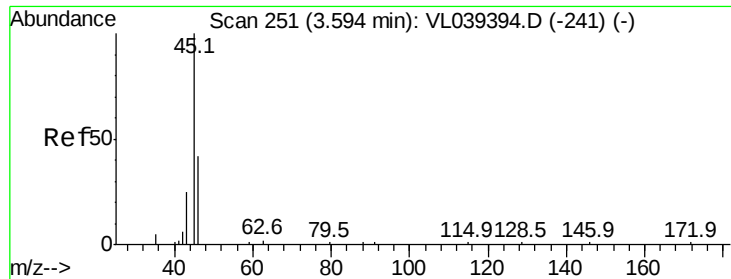
Tgt Ion: 101 Resp: 9115

Ion Ratio Lower Upper

101 100

103 73.8 51.8 77.8





#13

Ethanol

Concen: 3.91 ppbv

RT: 3.62 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SG-4DL

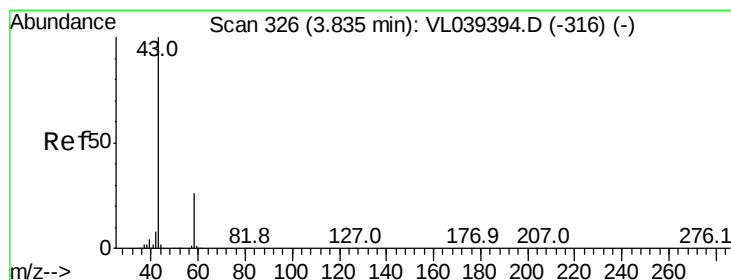
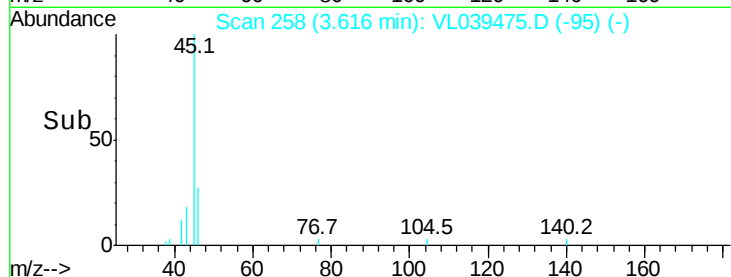
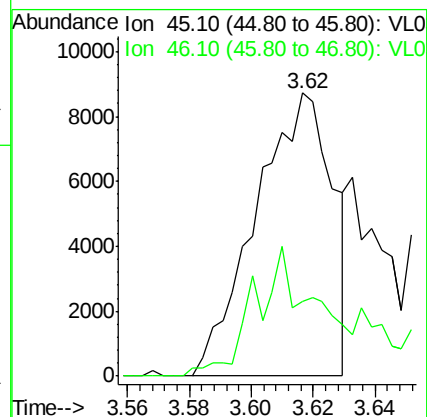
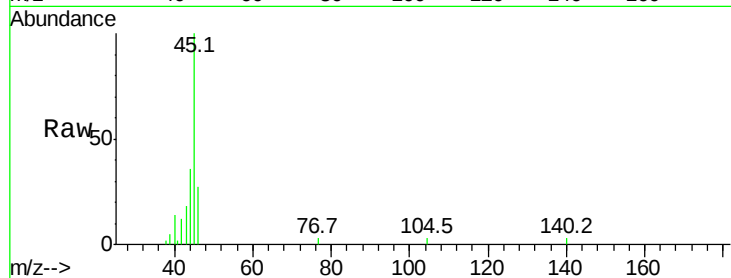
Acq: 13 Jul 2022 22:04

Tgt Ion: 45 Resp: 15030

Ion Ratio Lower Upper

45 100

46 62.5 22.8 91.2



#15

Acetone

Concen: 1.28 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL039475.D

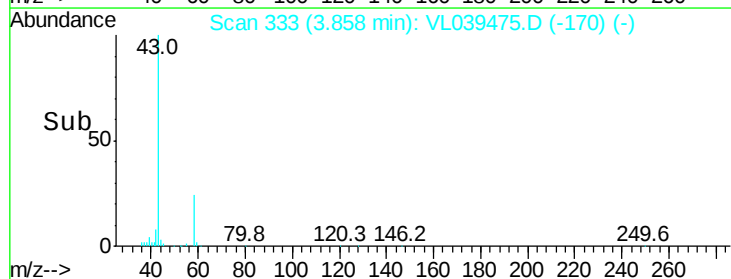
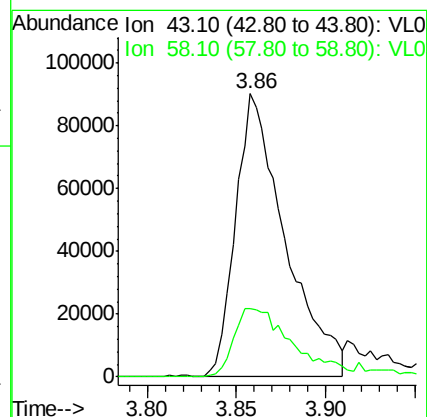
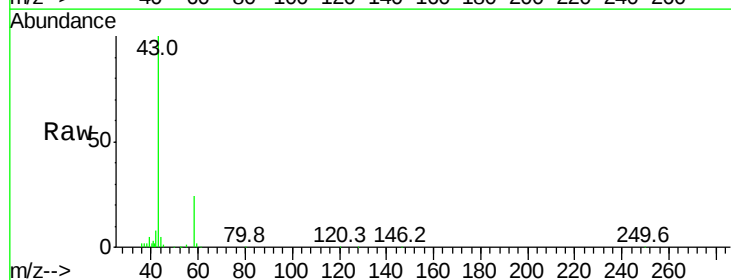
Acq: 13 Jul 2022 22:04

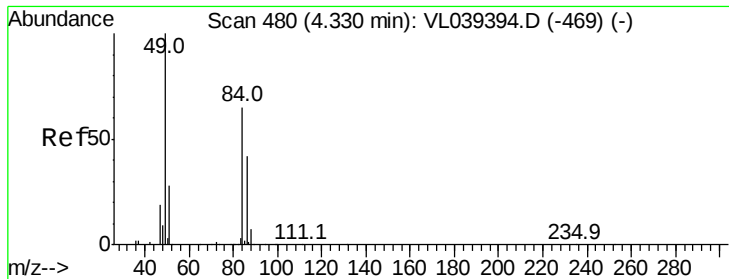
Tgt Ion: 43 Resp: 175113

Ion Ratio Lower Upper

43 100

58 31.8 21.0 31.6#





#20

Methylene Chloride

Concen: 6.26 ppbv

RT: 4.35

Instrument: MSVOA_1

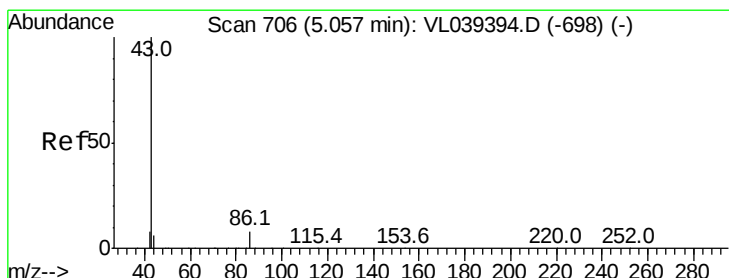
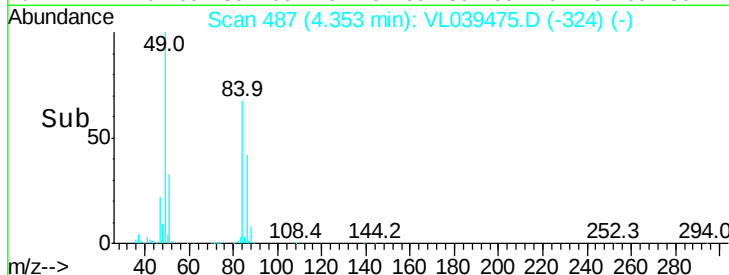
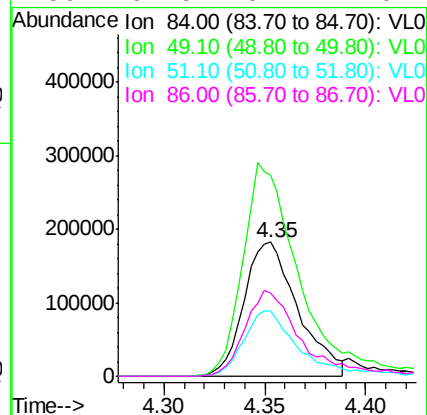
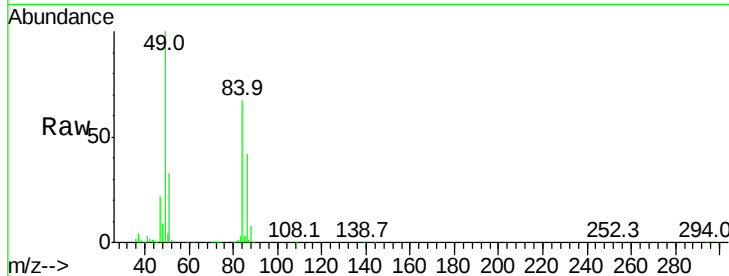
Delta R.T.:

Client Sample Id:

Lab File: SG-4DL

Acq: 13 Jul 2022 22:04

Tgt Ion:	84	Resp:	340924
Ion	Ratio	Lower	Upper
84	100		
49	149.6	123.1	184.7
51	49.0	34.4	51.6
86	62.5	51.1	76.7



#23

Vinyl Acetate

Concen: 0.08 ppbv

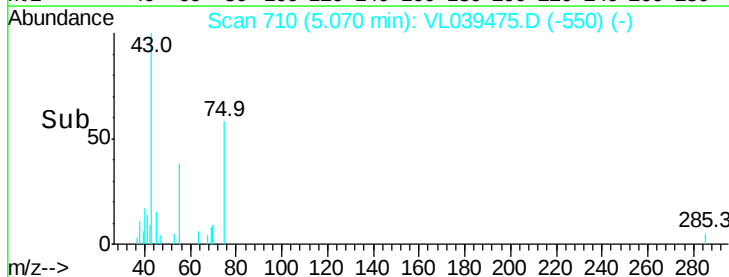
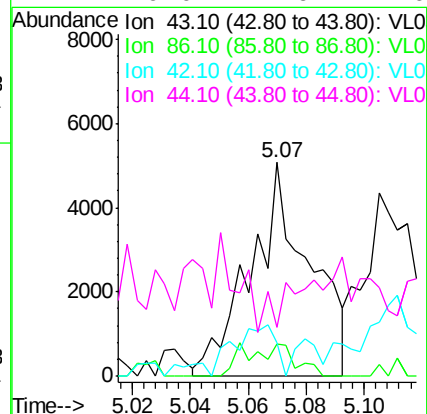
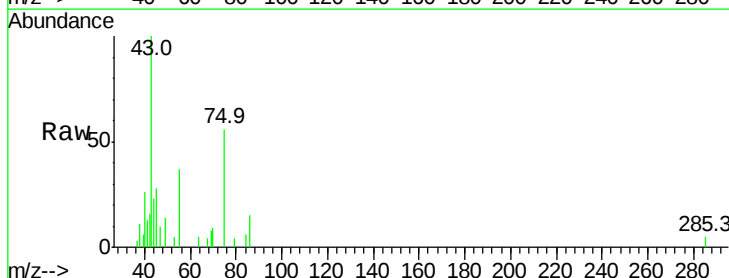
RT: 5.07 min Scan# 710

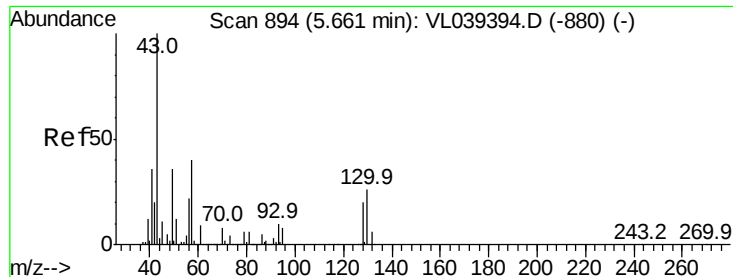
Delta R.T. 0.01 min

Lab File: VL039475.D

Acq: 13 Jul 2022 22:04

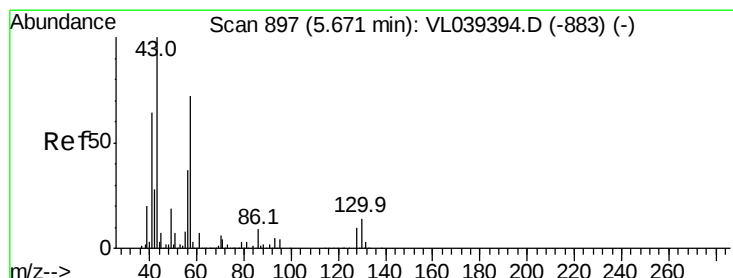
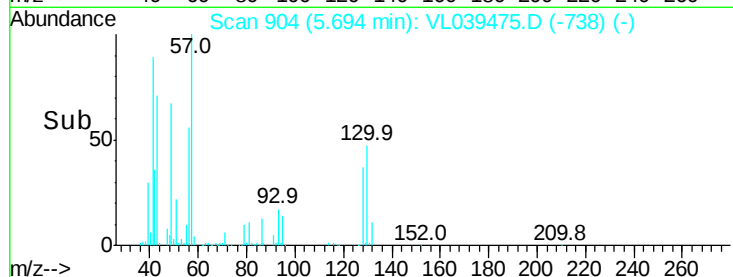
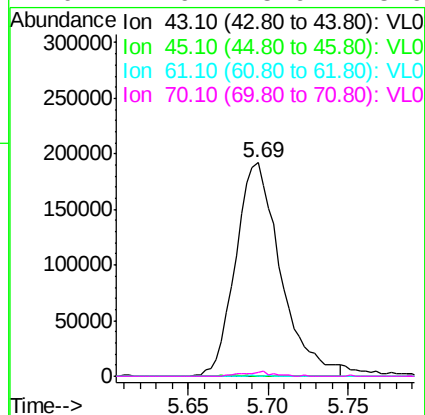
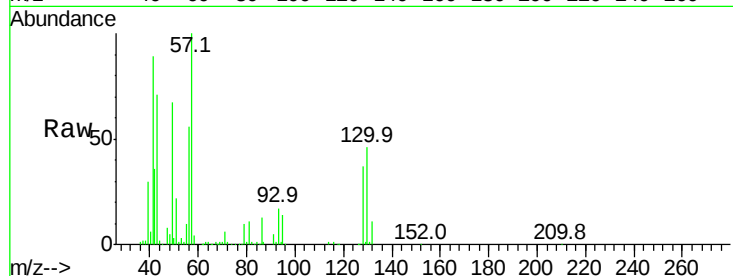
Tgt Ion:	43	Resp:	7132
Ion	Ratio	Lower	Upper
43	100		
86	15.9	5.0	7.6#
42	10.4	7.7	11.5
44	0.0	4.6	7.0#





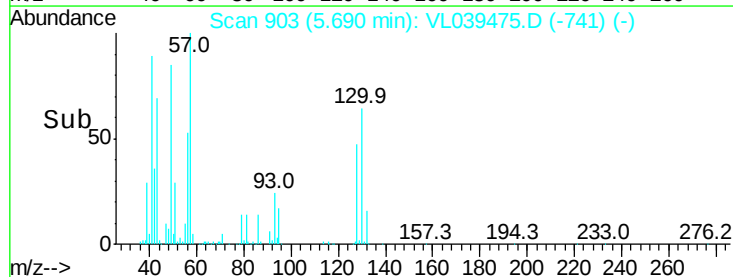
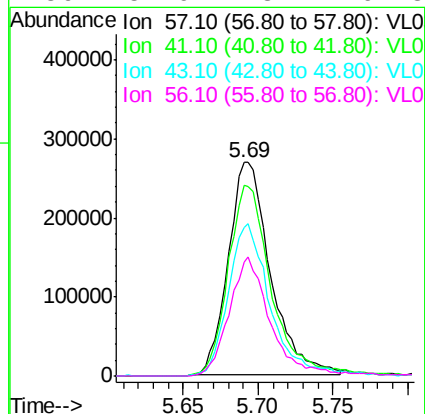
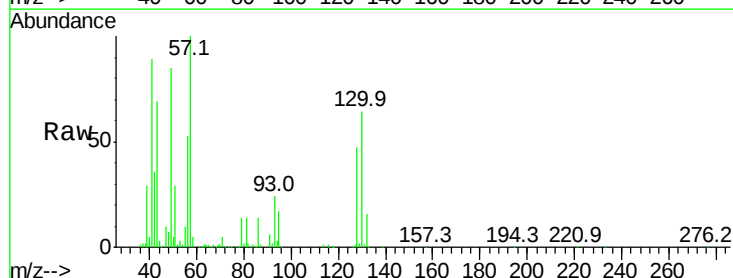
#25
Ethyl Acetate
Concen: 1.31 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jul 2022 22:04

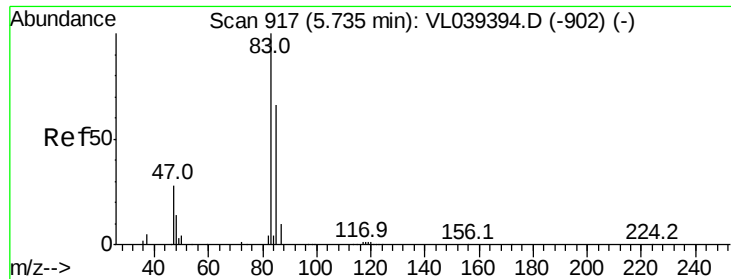
Tgt Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.2	8.3	12.5#
70	1.6	5.9	8.9#



#26
Hexane
Concen: 4.70 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.02 min
Lab File: VL039475.D
Acq: 13 Jul 2022 22:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.4	76.9	115.3
43	72.0	191.0	286.6#
56	54.9	43.2	64.8





#29

Chloroform

Concen: 0.24 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

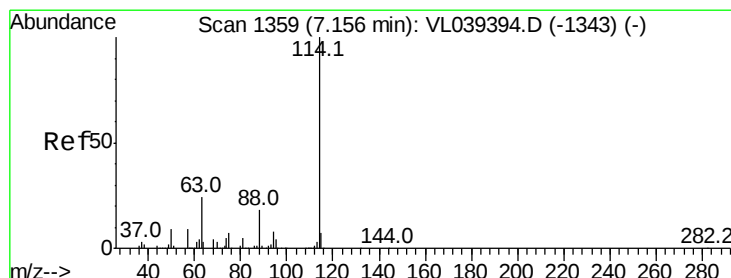
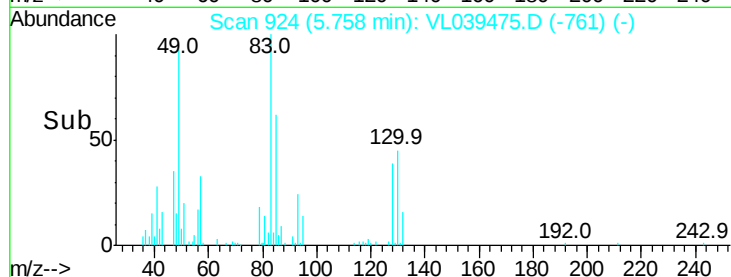
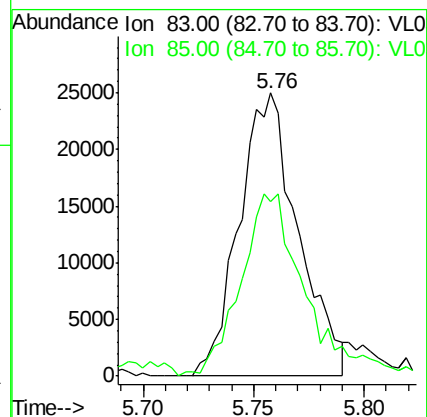
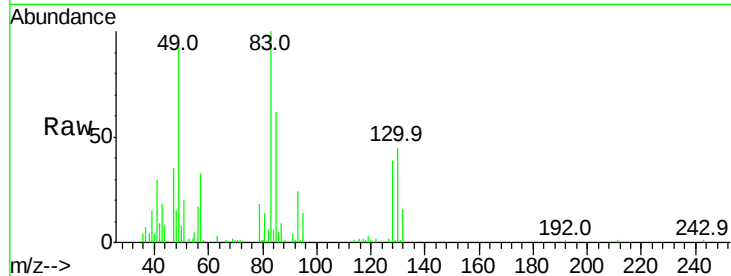
Acq: 13 Jul 2022 22:04

Tgt Ion: 83 Resp: 46423

Ion Ratio Lower Upper

83 100

85 59.9 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.02 min

Lab File: VL039475.D

Acq: 13 Jul 2022 22:04

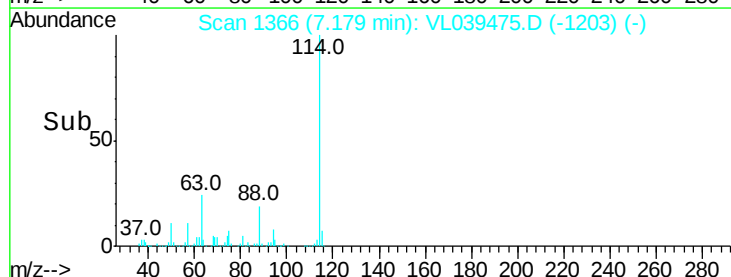
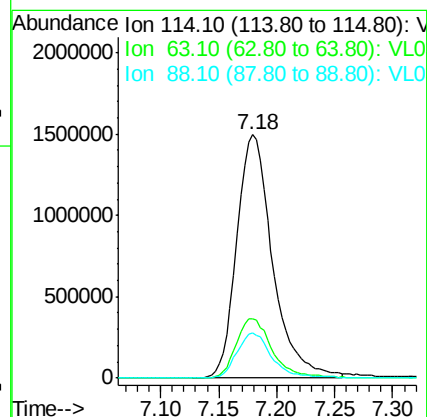
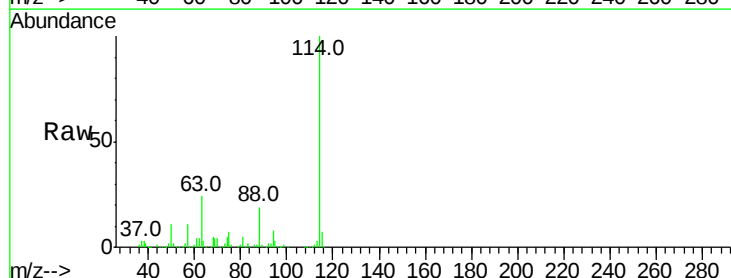
Tgt Ion: 114 Resp: 3220296

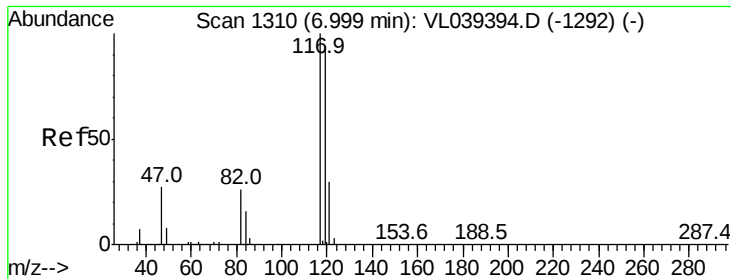
Ion Ratio Lower Upper

114 100

63 24.9 20.2 30.4

88 18.3 14.5 21.7





#35

Carbon Tetrachloride

Concen: 0.21 ppbv

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Jul 2022 22:04

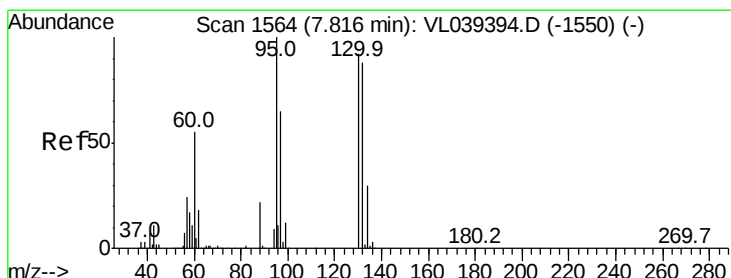
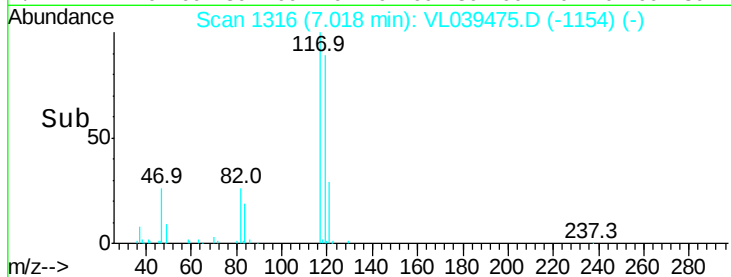
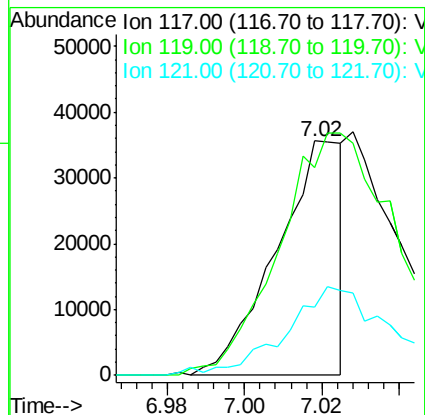
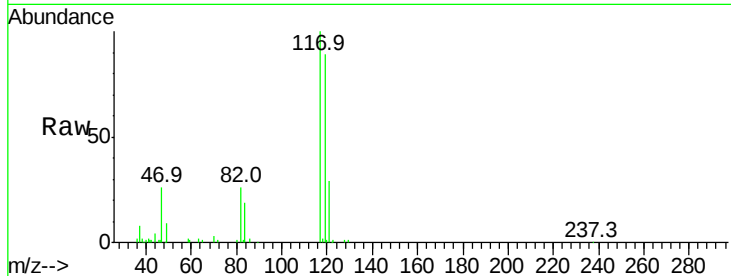
Tgt Ion:117 Resp: 42191

Ion Ratio Lower Upper

117 100

119 86.0 75.4 113.2

121 25.8 24.2 36.2



#38

Trichloroethene

Concen: 0.16 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. 0.02 min

Lab File: VL039475.D

Acq: 13 Jul 2022 22:04

Tgt Ion:130 Resp: 22202

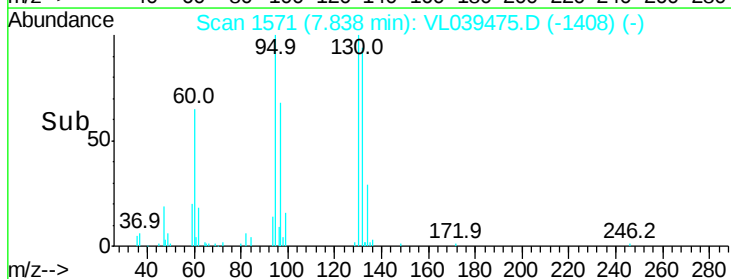
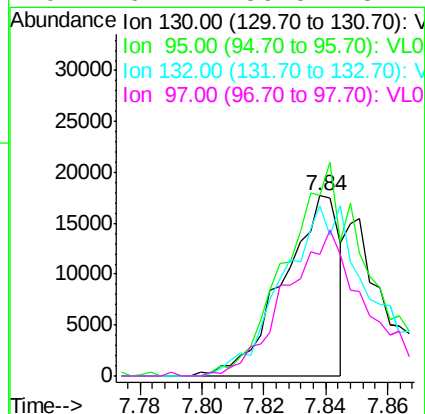
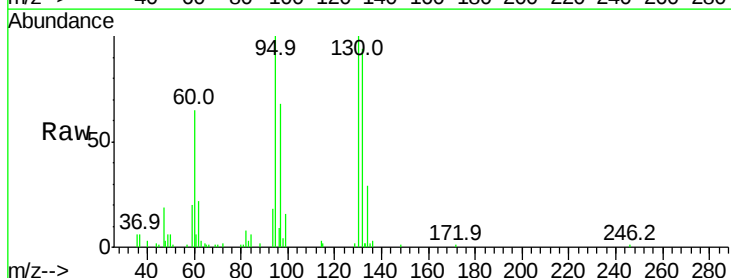
Ion Ratio Lower Upper

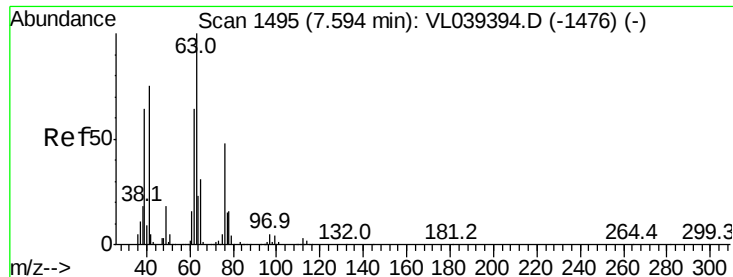
130 100

95 100.0 87.3 130.9

132 94.4 76.7 115.1

97 67.7 56.5 84.7





#39

1,2-Dichloropropane

Concen: 8.44 ppbv

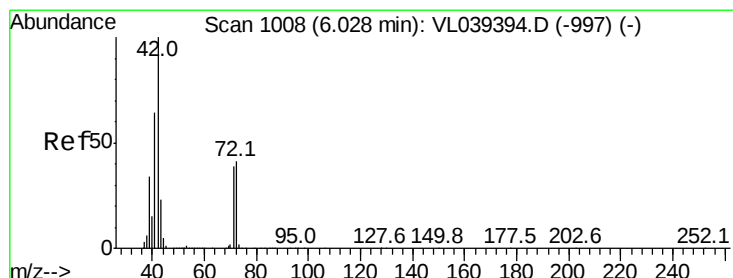
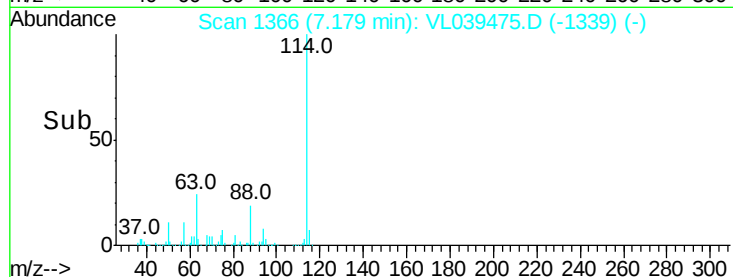
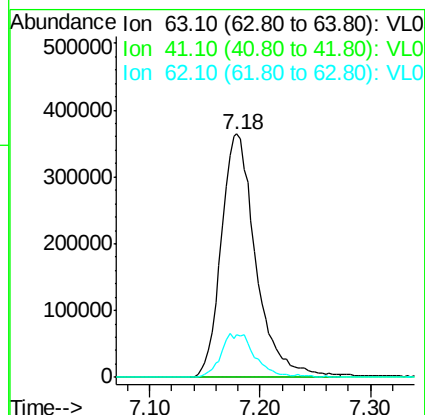
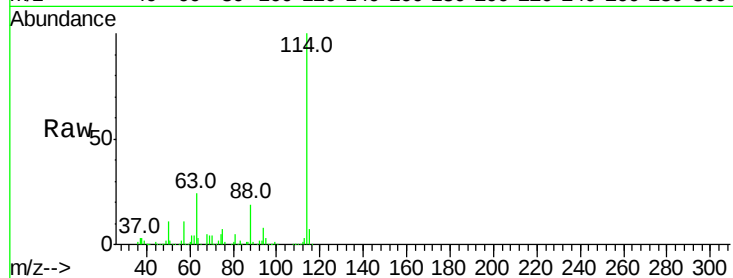
RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 13 Jul 2022 22:04

Tgt Ion:	63	Resp:	786137
Ion Ratio	Lower	Upper	
63	100		
41	0.0	59.6	89.4#
62	17.3	51.4	77.0#



#41

Tetrahydrofuran

Concen: 0.04 ppbv

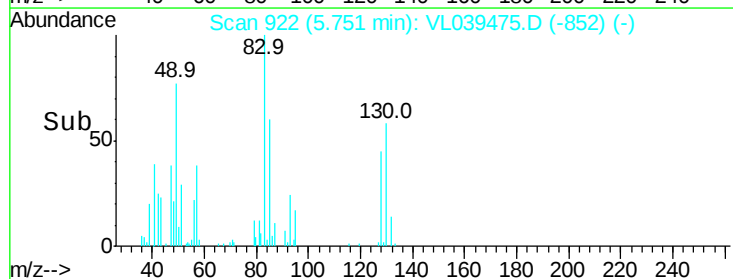
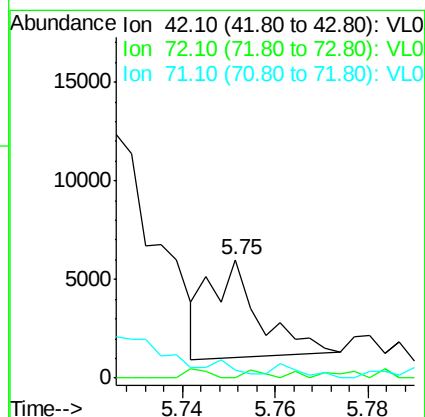
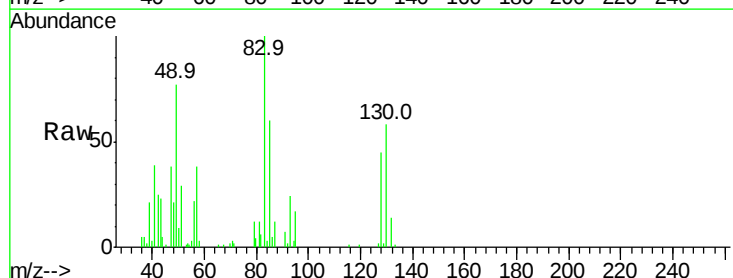
RT: 5.75 min Scan# 922

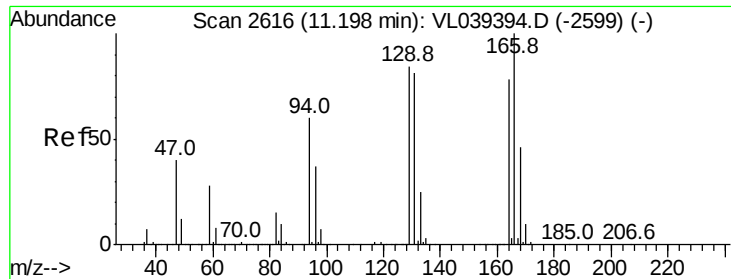
Delta R.T. -0.28 min

Lab File: VL039475.D

Acq: 13 Jul 2022 22:04

Tgt Ion:	42	Resp:	3664
Ion Ratio	Lower	Upper	
42	100		
72	11.9	31.8	47.8#
71	0.0	31.8	47.8#





#52

Tetrachloroethene

Concen: 2.83 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File:

Acq: 13 Jul 2022 22:04

Tgt Ion: 164 Resp: 284175

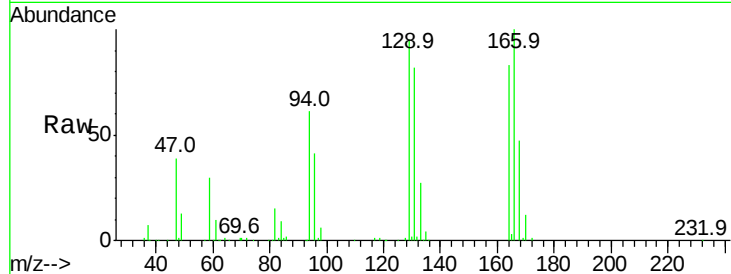
Ion Ratio Lower Upper

164 100

166 119.6 102.2 153.2

129 113.7 85.8 128.8

131 97.8 83.3 124.9



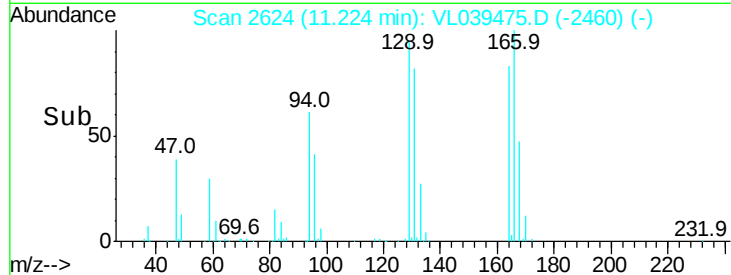
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

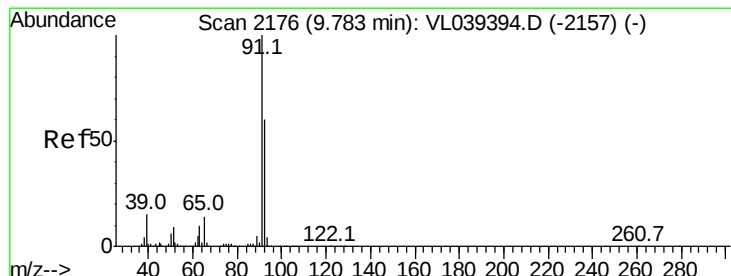
Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



Time-->



#53

Toluene

Concen: 0.07 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL039475.D

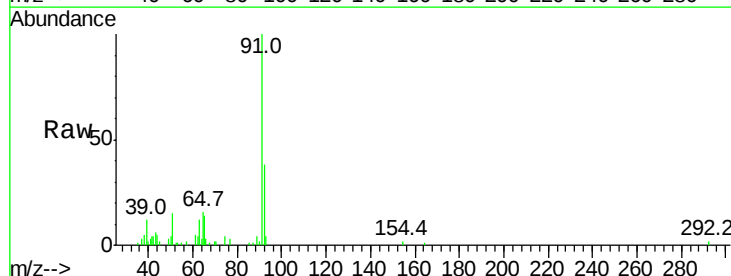
Acq: 13 Jul 2022 22:04

Tgt Ion: 91 Resp: 19135

Ion Ratio Lower Upper

91 100

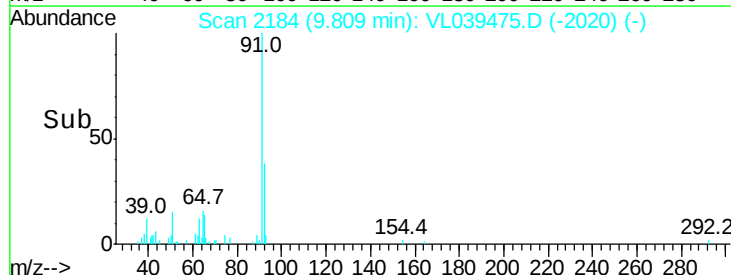
92 74.6 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->



Time-->

Time-->

Time-->

Time-->

Time-->

Time-->

Time-->

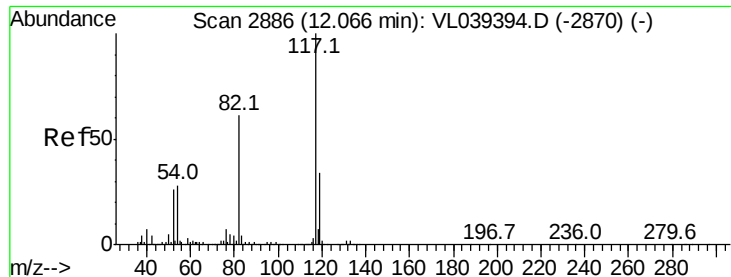
Time-->

Time-->

Time-->

Time-->

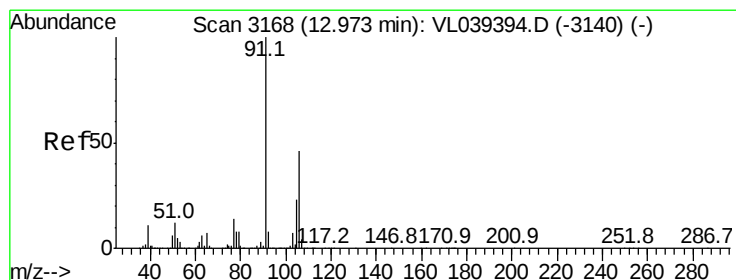
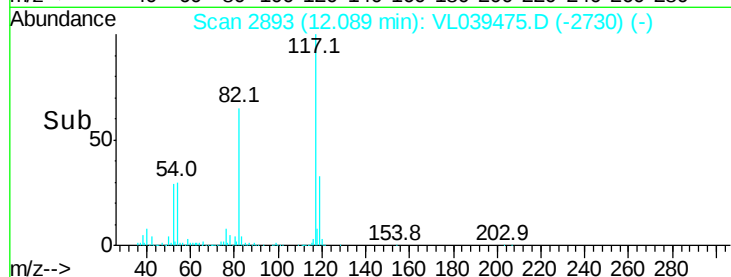
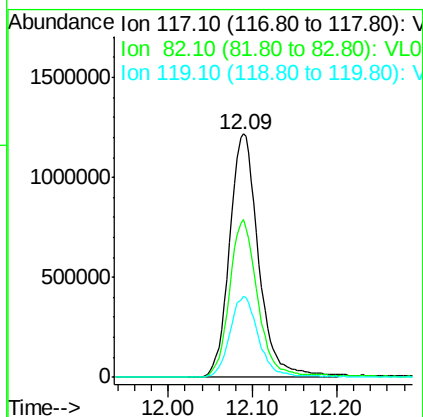
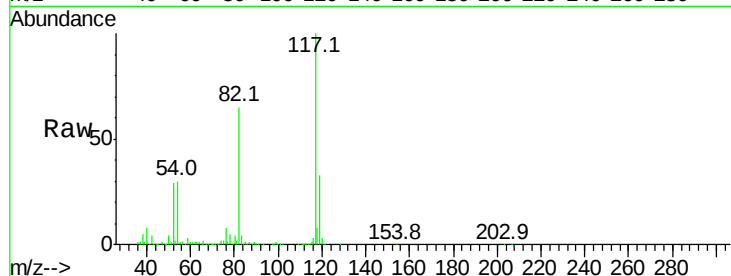
Time-->



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.: 0.03 min
Lab File: VL039475.D
Client Sample ID: SG-4DL
Acq: 13 Jul 2022 22:04

Tgt Ion: 117 Resp: 2922864

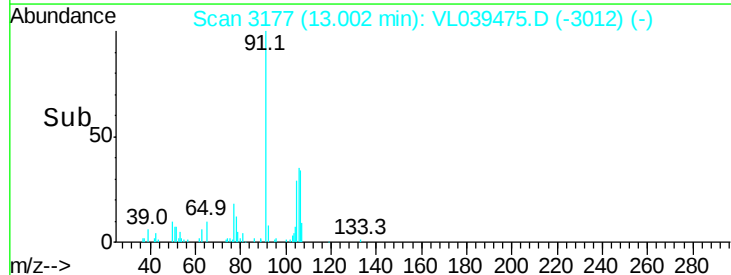
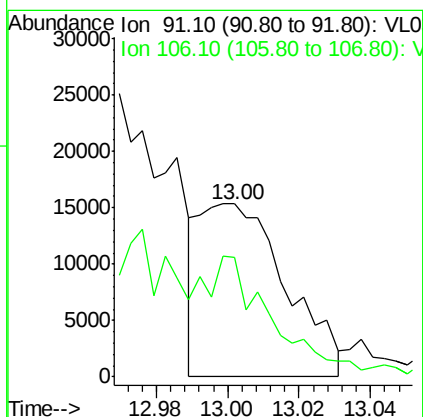
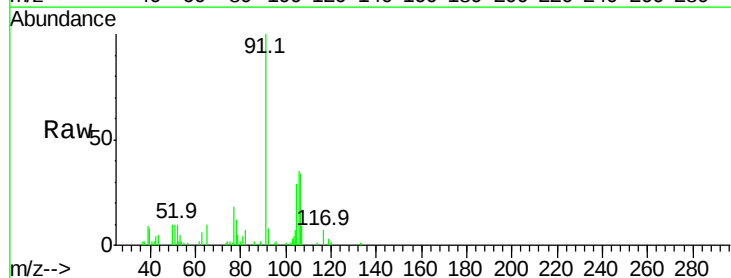
Ion	Ratio	Lower	Upper
117	100		
82	63.9	50.8	76.2
119	33.1	24.1	36.1

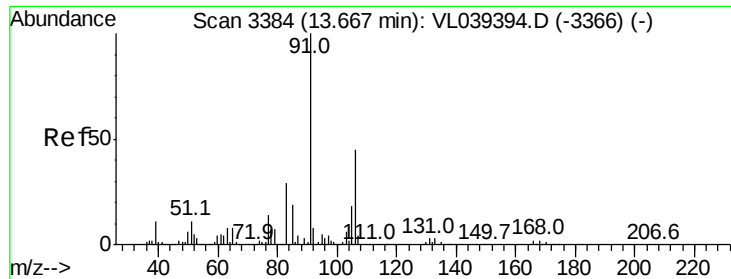


#59
m/p-Xylene
Concen: 0.08 ppbv
RT: 13.00 min Scan# 3177
Delta R.T.: 0.03 min
Lab File: VL039475.D
Acq: 13 Jul 2022 22:04

Tgt Ion: 91 Resp: 25861

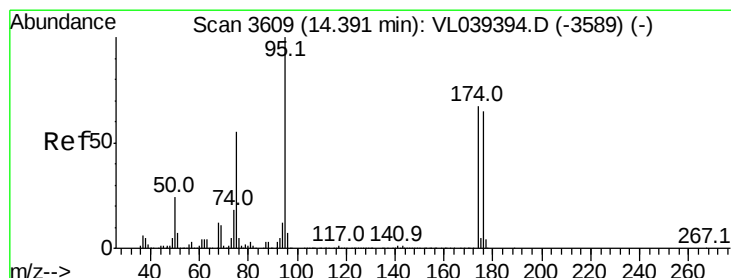
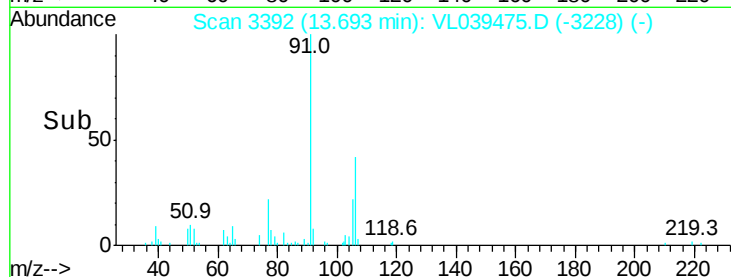
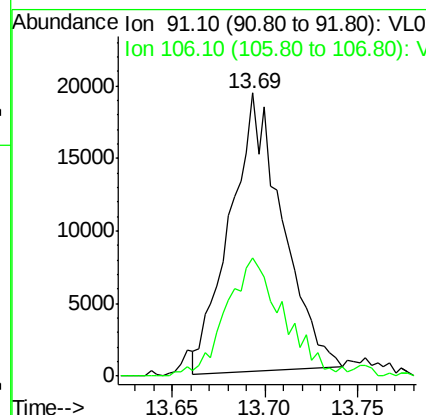
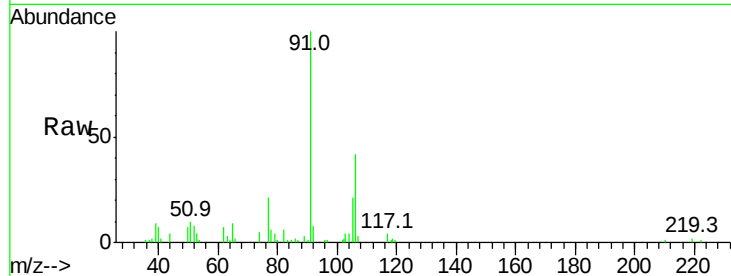
Ion	Ratio	Lower	Upper
91	100		
106	58.7	35.4	53.2





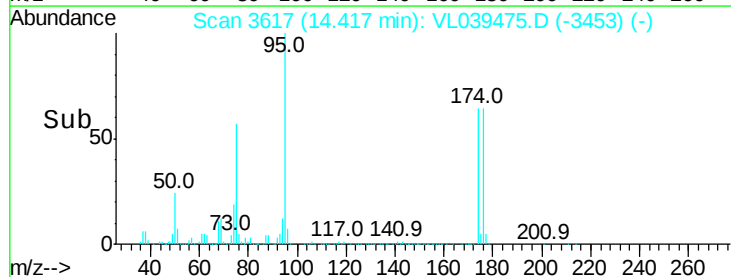
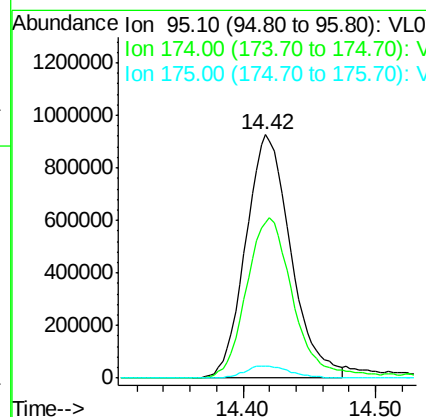
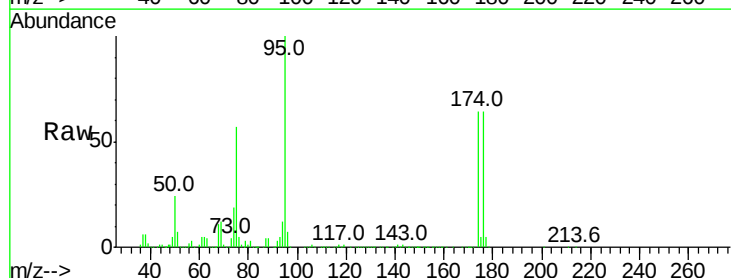
#60
o-Xylene
Concen: 0.12 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Jul 2022 22:04

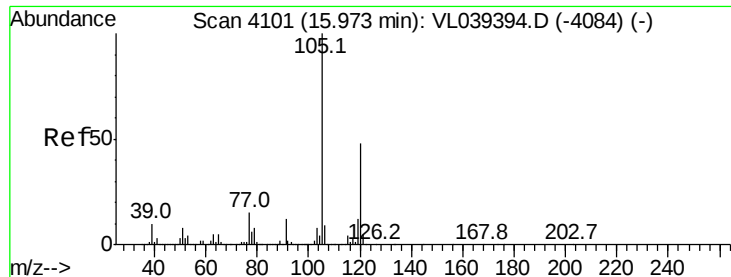
Tgt Ion: 91 Resp: 37771
Ion Ratio Lower Upper
91 100
106 47.7 22.4 67.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.13 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.03 min
Lab File: VL039475.D
Acq: 13 Jul 2022 22:04

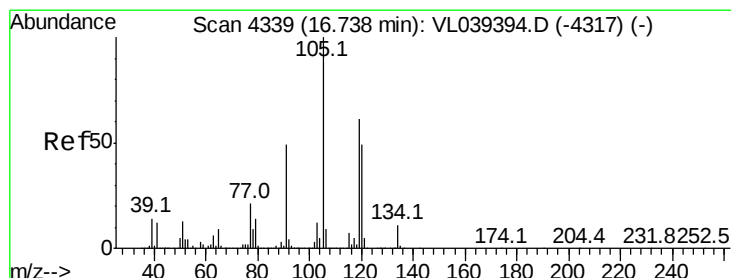
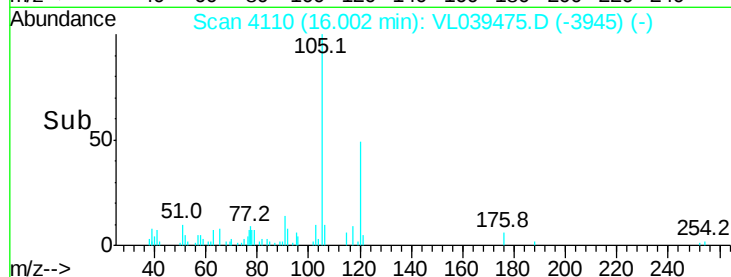
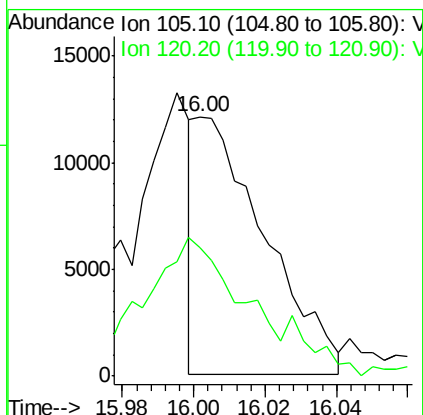
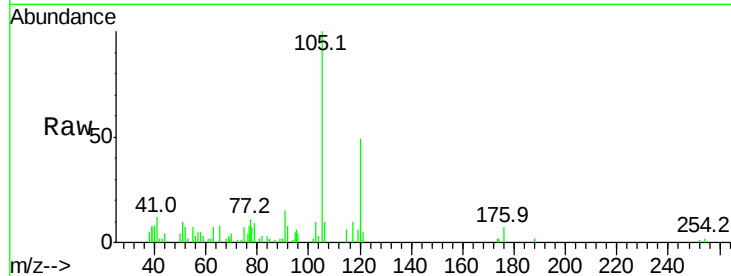
Tgt Ion: 95 Resp: 2195876
Ion Ratio Lower Upper
95 100
174 69.5 55.9 83.9
175 5.2 4.2 6.4





#73
 1,3,5-Trimethylbenzene
 Concen: 0.05 ppbv
 RT: 16.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Jul 2022 22:04

Tgt Ion:105 Resp: 16163
 Ion Ratio Lower Upper
 105 100
 120 49.0 38.2 57.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.18 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.03 min
 Lab File: VL039475.D
 Acq: 13 Jul 2022 22:04

Tgt Ion:105 Resp: 66343
 Ion Ratio Lower Upper
 105 100
 120 40.2 39.5 59.3
 91 8.3 39.2 58.8#
 77 18.3 17.2 25.8

