

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071222\
 Data File : VL039444.D
 Acq On : 12 Jul 2022 11:46
 Operator : SY/AP
 Sample : VL0712ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0712ABS01

Quant Time: Jul 13 01:29:24 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	1380576	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	3895122	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.10	117	3926999	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2918857	10.02	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	1874977	9.42	ppbv	98
3) Chlorodifluoromethane	3.01	51	1503627	8.58	ppbv	100
4) Chloromethane	3.16	50	823899	8.60	ppbv	99
5) Vinyl Chloride	3.27	62	811972	8.60	ppbv	98
6) Bromomethane	3.49	94	347481	8.74	ppbv	94
7) Chloroethane	3.57	64	305052	9.08	ppbv	100
8) Dichlorotetrafluoroethane	3.20	85	1973330	9.07	ppbv	99
9) Propene	3.03	41	673548	8.52	ppbv	98
10) Heptane	8.14	43	1733134	9.35	ppbv	100
11) Trichlorofluoromethane	3.97	101	1961225	8.84	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1443256	8.72	ppbv	99
13) Ethanol	3.61	45	12221	2.66	ppbv #	23
14) Bromoethene	3.76	108	629993	9.06	ppbv	99
15) Acetone	3.86	43	1421971	8.71	ppbv	99
16) 1,3-Butadiene	3.34	39	778724	9.19	ppbv	99
17) tert-Butyl alcohol	4.29	59	1291676	9.32	ppbv	99
18) 1,1-Dichloroethene	4.31	96	648485	8.65	ppbv	96
19) Isopropyl Alcohol	3.97	45	747226	8.58	ppbv #	96
20) Methylene Chloride	4.36	84	549058	8.43	ppbv	96
21) Allyl Chloride	4.43	41	1001048	8.85	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	680882	9.39	ppbv	96
23) Vinyl Acetate	5.09	43	1122401	10.28	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1457621	9.46	ppbv	97
25) Ethyl Acetate	5.69	43	3090945	9.23	ppbv	99
26) Hexane	5.70	57	1331069	9.86	ppbv	99
27) Carbon Disulfide	4.57	76	1613173	9.90	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	1402943	9.72	ppbv	98
29) Chloroform	5.77	83	2072523	8.83	ppbv	98
30) Cyclohexane	7.15	84	1127749	9.18	ppbv	99
31) cis-1,2-Dichloroethene	5.56	61	1311559	9.16	ppbv	99
32) 1,1,1-Trichloroethane	6.53	97	2113927	9.12	ppbv	100
34) 2-Butanone	5.26	43	1813078	9.25	ppbv	99
35) Carbon Tetrachloride	7.03	117	2274921	9.45	ppbv	98
36) Benzene	6.91	78	2741915	9.10	ppbv	98
37) 1,2-Dichloroethane	6.32	62	1575622	8.85	ppbv	100
38) Trichloroethene	7.85	130	1465889	8.99	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1039465	9.23	ppbv	96
40) 1,4-Dioxane	7.85	88	398082	8.87	ppbv #	1
41) Tetrahydrofuran	6.06	42	1072941	9.44	ppbv	99
42) Bromodichloromethane	7.81	83	2312212	9.64	ppbv	97
43) Methyl Methacrylate	8.03	69	1120762	9.78	ppbv	99

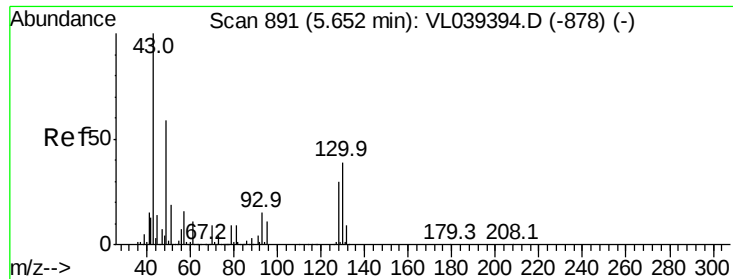
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL071222\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	4593491	8.99	ppbv	99
45) t-1,3-Dichloropropene	9.29	75	1135936	11.13	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	1488771	10.60	ppbv	98
47) 1,1,2-Trichloroethane	9.49	97	1158475	9.17	ppbv	97
48) Dibromochloromethane	10.32	129	2069884	10.31	ppbv	100
49) Bromoform	13.06	173	1746601	10.78	ppbv	100
50) 4-Methyl-2-Pentanone	8.75	43	2862190	9.65	ppbv	100
51) 2-Hexanone	10.15	43	2233717	9.96	ppbv #	98
52) Tetrachloroethene	11.24	164	1100130	9.07	ppbv	98
53) Toluene	9.83	91	3339032	9.60	ppbv	100
54) 1,2-Dibromoethane	10.63	107	1521454	9.68	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.14	131	1507615	8.69	ppbv #	57
57) Chlorobenzene	12.17	112	2531356	8.31	ppbv	98
58) Ethyl Benzene	12.73	91	4435611	8.75	ppbv	98
59) m/p-Xylene	13.01	91	3940368	8.81	ppbv #	34
60) o-Xylene	13.71	91	3598750	8.50	ppbv	98
61) Styrene	13.54	104	2212176	9.65	ppbv	99
62) Isopropylbenzene	14.68	105	5443601	8.44	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	1749792	7.89	ppbv	100
64) n-propylbenzene	15.57	120	1447215	8.86	ppbv	97
65) tert-Butylbenzene	16.76	119	4995126	8.39	ppbv	99
66) Benzyl Chloride	17.00	91	546342	9.65	ppbv	98
67) sec-Butylbenzene	17.31	105	6800903	8.48	ppbv	99
69) p-Isopropyltoluene	17.66	119	5895393	8.66	ppbv	100
70) n-Butylbenzene	18.56	91	5718801	8.65	ppbv	100
71) 2-Chlorotoluene	15.46	91	4002762	8.68	ppbv	100
72) 4-Ethyltoluene	15.85	105	4494812	9.03	ppbv	99
73) 1,3,5-Trimethylbenzene	16.01	105	4038707	8.84	ppbv	98
74) 1,2,4-Trimethylbenzene	16.78	105	4351480	8.61	ppbv	99
75) 1,3-Dichlorobenzene	17.01	146	2610262	8.65	ppbv	100
76) 1,4-Dichlorobenzene	17.15	146	2527512	8.45	ppbv	100
77) 1,2-Dichlorobenzene	17.83	146	2518933	8.42	ppbv	100
78) Hexachloro-1,3-Butadiene	23.39	225	1773873	7.38	ppbv	100
79) Naphthalene	22.21	128	3488534	10.02	ppbv	100
80) Naphthalene,2-methyl-	24.98	142	1212707	10.24	ppbv	96
81) 1,2,4-Trichlorobenzene	21.94	180	2001751	8.83	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VL0712ABS01

Acq: 12 Jul 2022 11:48

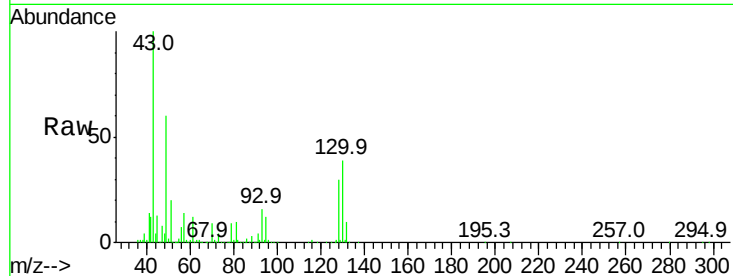
Tgt Ion: 49 Resp: 1380576

Ion Ratio Lower Upper

49 100

128 54.1 26.7 80.0

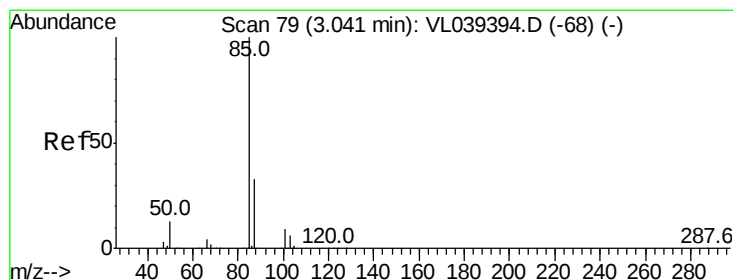
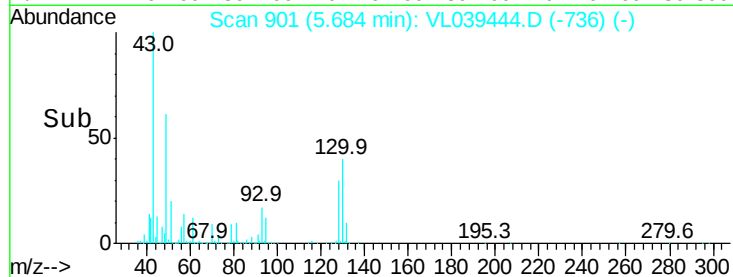
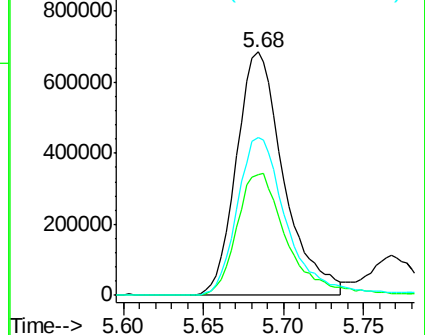
130 69.6 34.3 102.8



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



#2

Dichlorodifluoromethane

Concen: 9.42 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.02 min

Lab File: VL039444.D

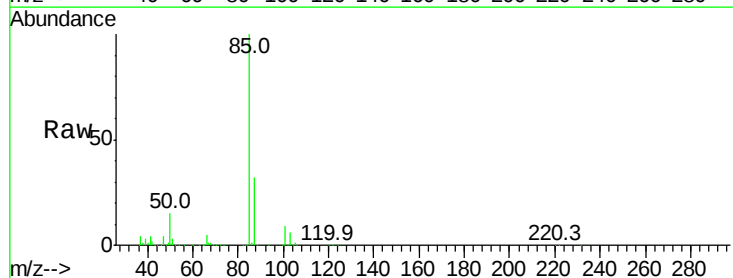
Acq: 12 Jul 2022 11:46

Tgt Ion: 85 Resp: 1874977

Ion Ratio Lower Upper

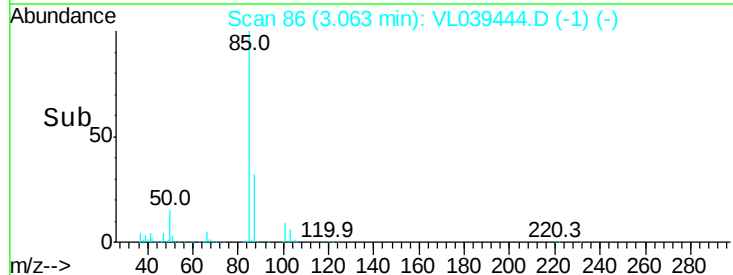
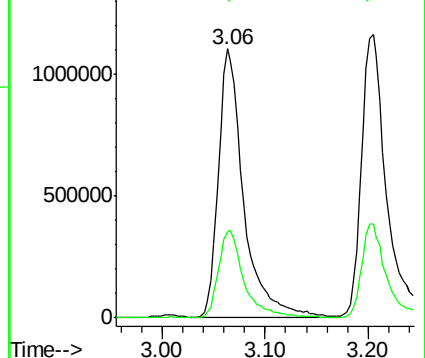
85 100

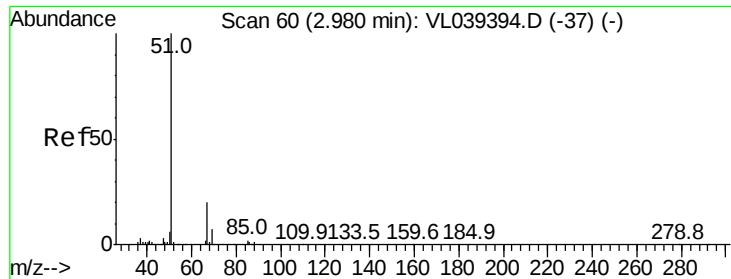
87 32.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.58 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

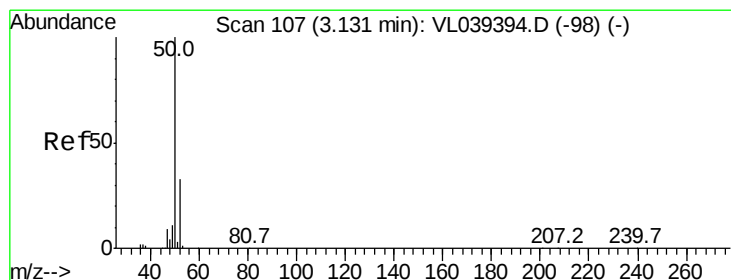
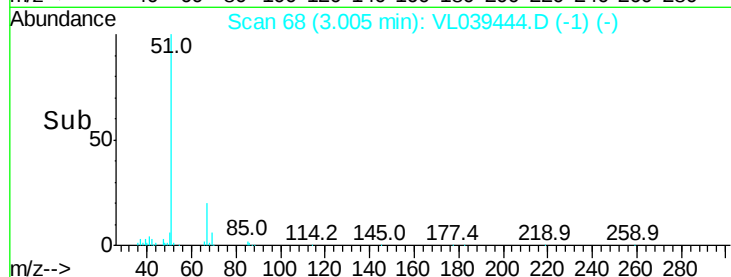
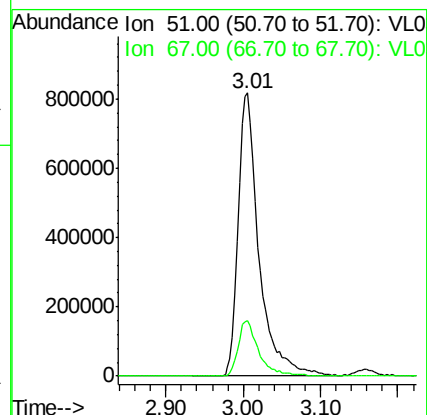
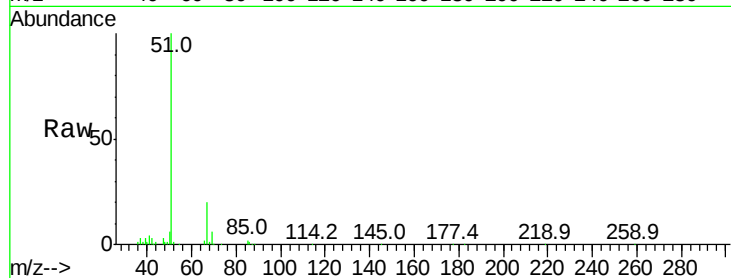
Acq: 12 Jul 2022 11:48

Tgt Ion: 51 Resp: 1503627

Ion Ratio Lower Upper

51 100

67 19.7 15.7 23.5



#4

Chloromethane

Concen: 8.60 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.03 min

Lab File: VL039444.D

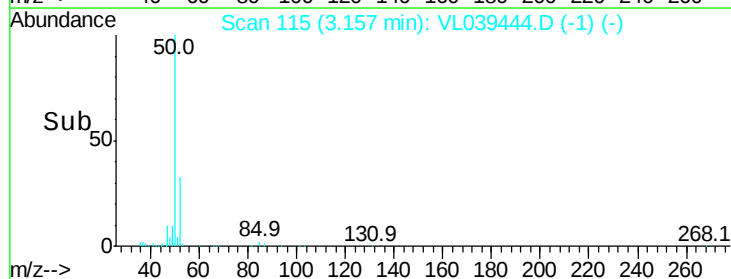
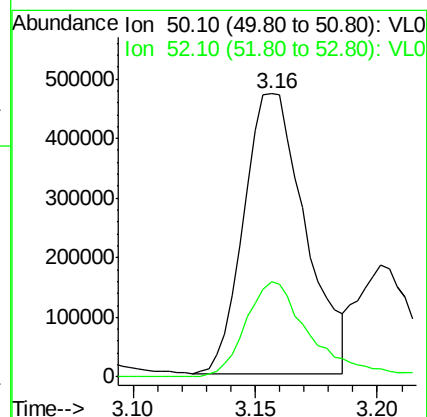
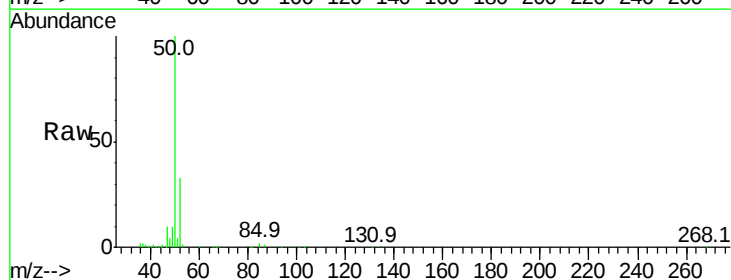
Acq: 12 Jul 2022 11:46

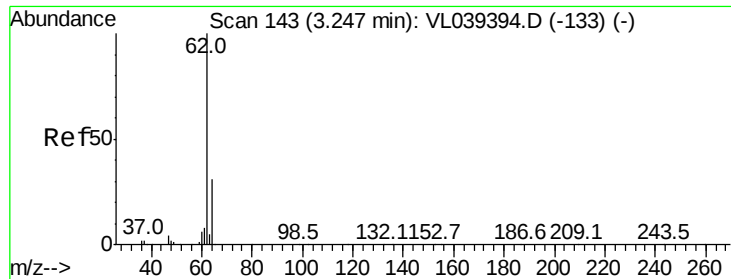
Tgt Ion: 50 Resp: 823899

Ion Ratio Lower Upper

50 100

52 33.7 26.5 39.7





#5

Vinyl Chloride

Concen: 8.60 ppbv

RT: 3.27 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

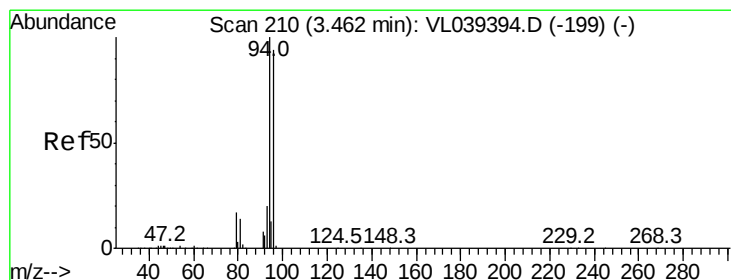
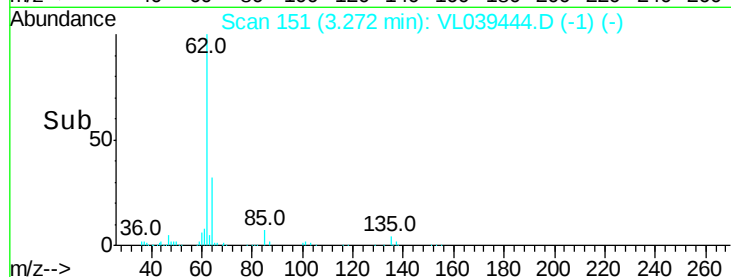
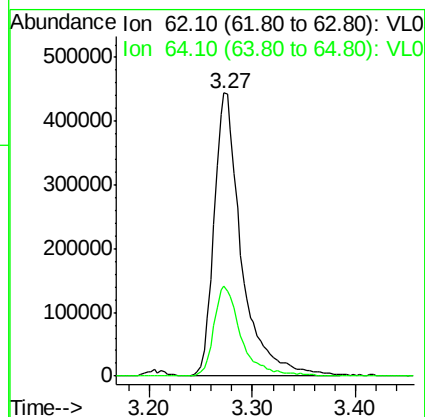
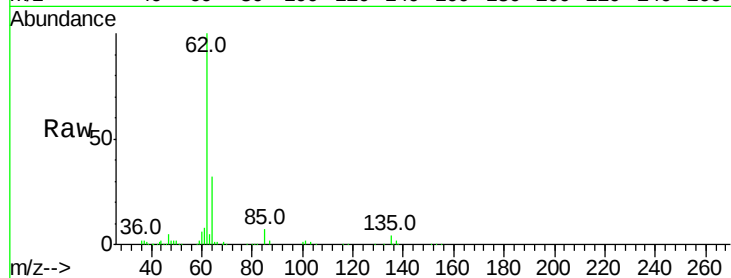
Acq: 12 Jul 2022 11:48

Tgt Ion: 62 Resp: 811972

Ion Ratio Lower Upper

62 100

64 31.8 24.6 36.8



#6

Bromomethane

Concen: 8.74 ppbv

RT: 3.49 min Scan# 218

Delta R.T. 0.03 min

Lab File: VL039444.D

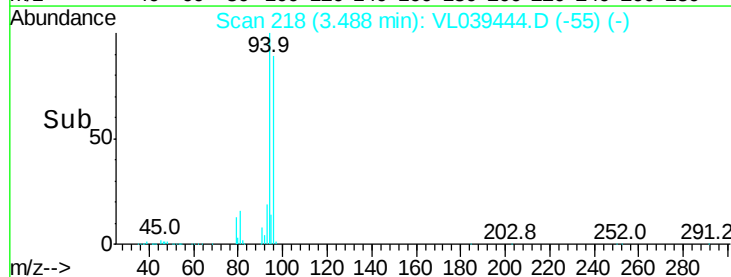
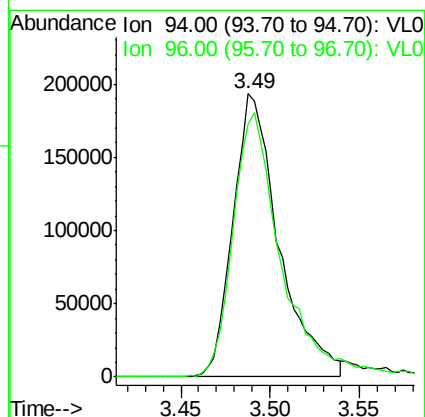
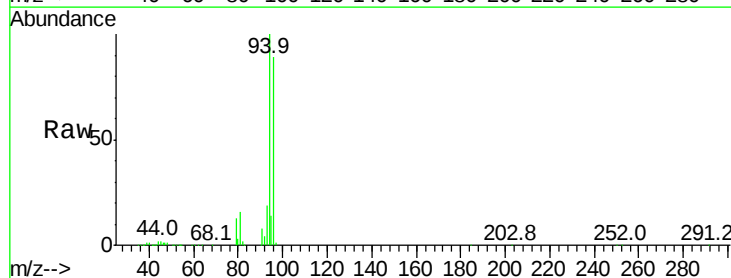
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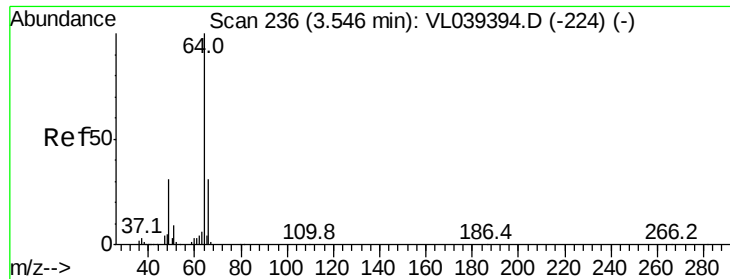
Tgt Ion: 94 Resp: 347481

Ion Ratio Lower Upper

94 100

96 88.6 75.6 113.4





#7

Chloroethane

Concen: 9.08 ppbv

RT: 3.57 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

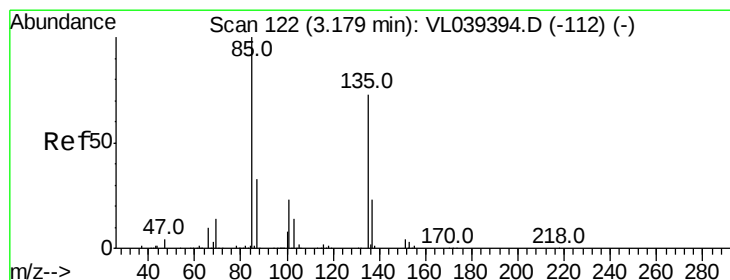
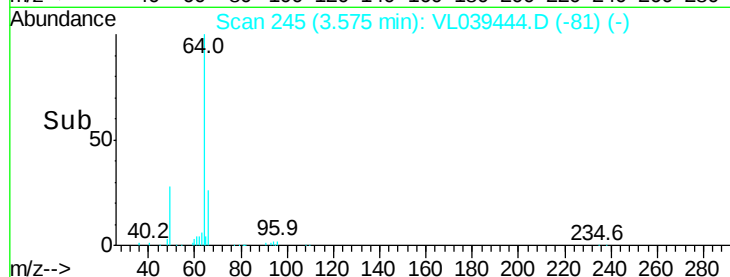
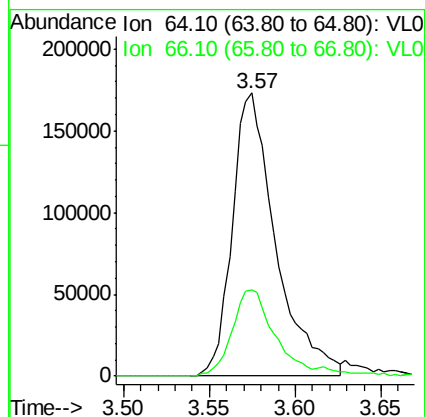
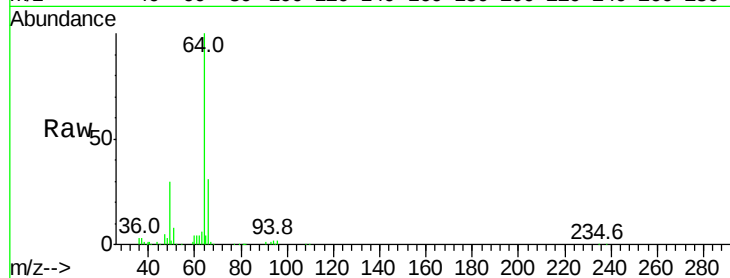
Acq: 12 Jul 2022 11:48

Tgt Ion: 64 Resp: 305052

Ion Ratio Lower Upper

64 100

66 30.6 24.7 37.1



#8

Dichlorotetrafluoroethane

Concen: 9.07 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.03 min

Lab File: VL039444.D

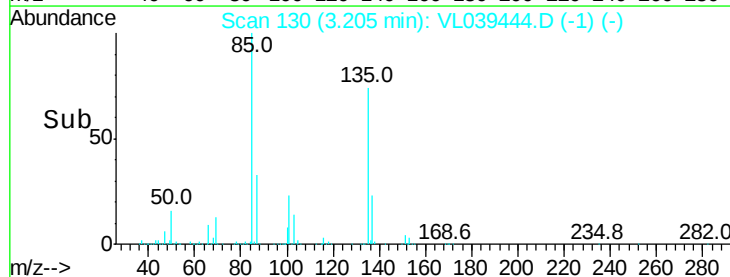
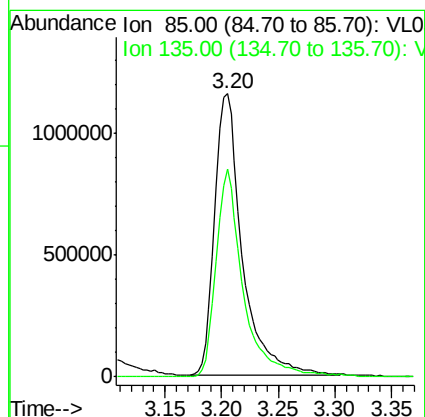
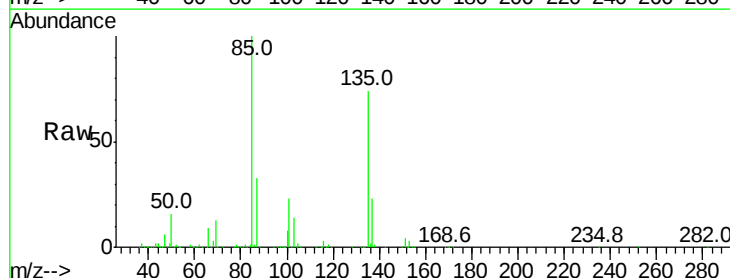
Acq: 12 Jul 2022 11:46

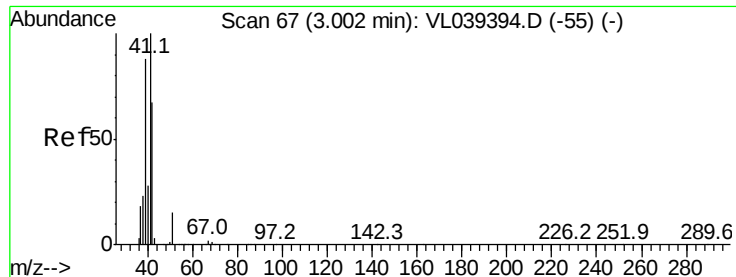
Tgt Ion: 85 Resp: 1973330

Ion Ratio Lower Upper

85 100

135 72.8 59.0 88.4





#9

Propene

Concen: 8.52 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. 0.03

Lab File: ClientSampleId: VL0712ABS01

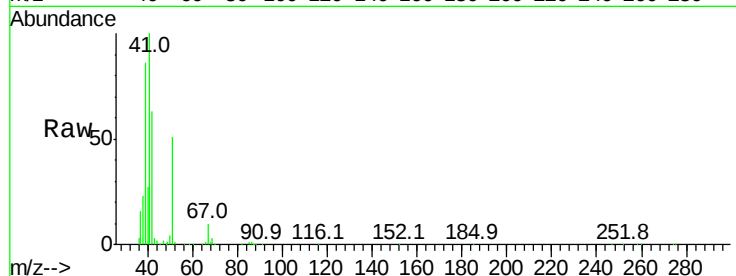
Acq: 12 Jul 2022 11:48

Tgt Ion: 41 Resp: 673548

Ion Ratio Lower Upper

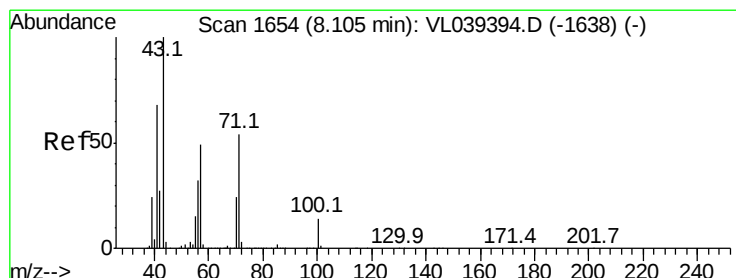
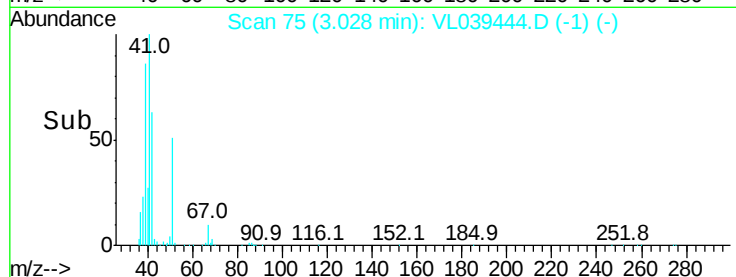
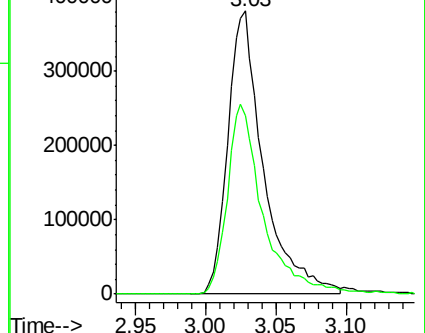
41 100

42 67.7 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.35 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.03 min

Lab File: VL039444.D

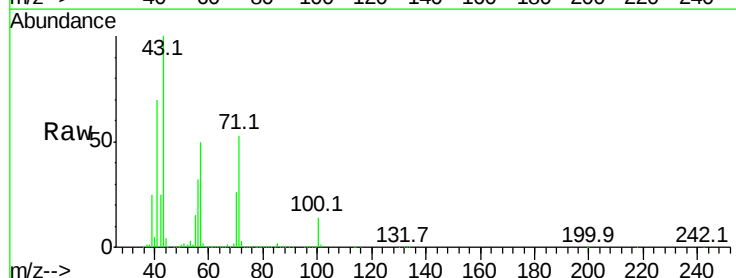
Acq: 12 Jul 2022 11:46

Tgt Ion: 43 Resp: 1733134

Ion Ratio Lower Upper

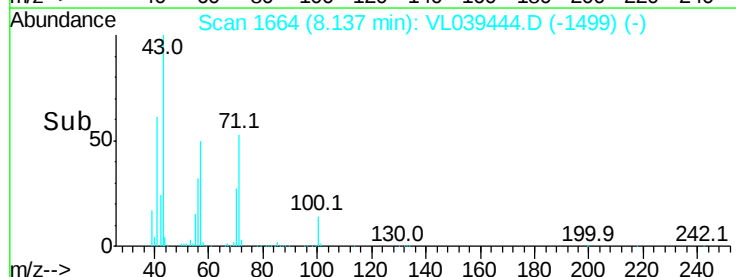
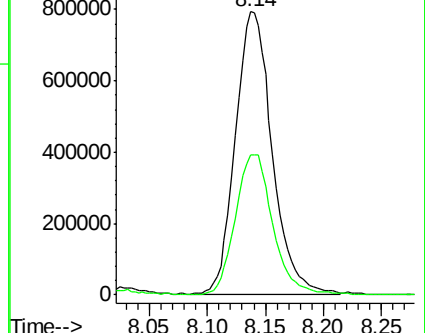
43 100

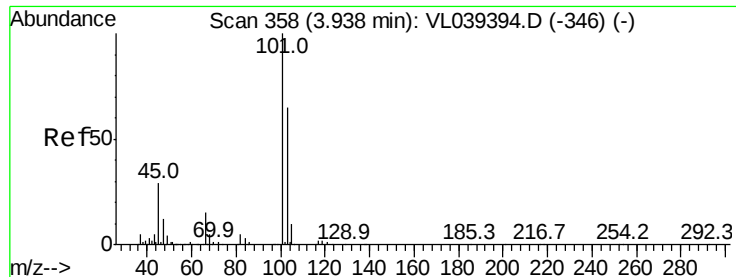
57 50.9 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

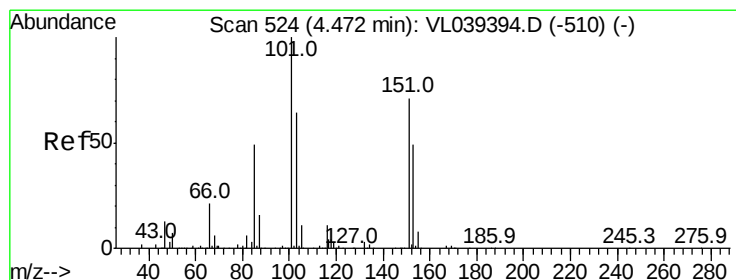
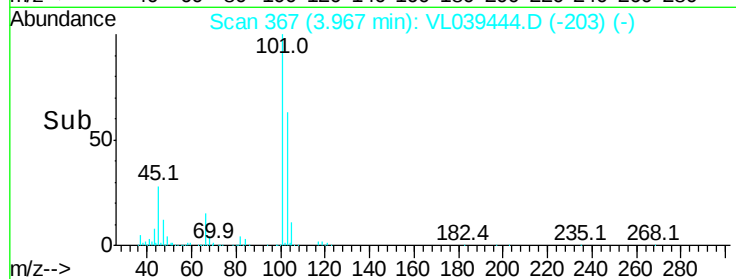
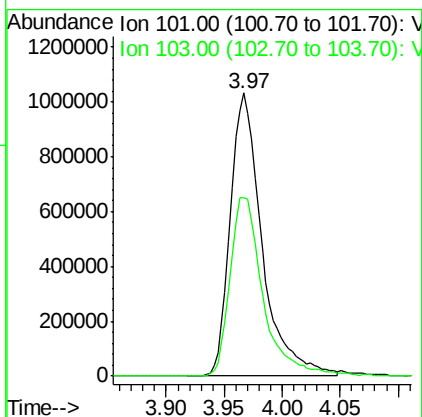
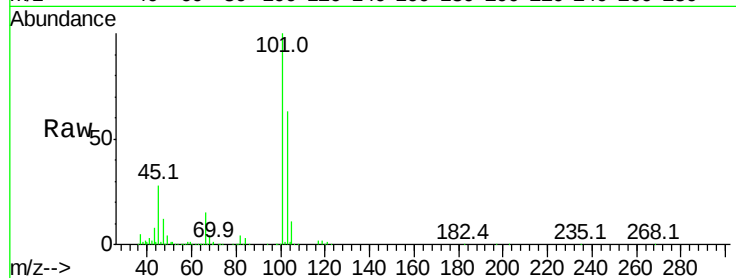
Ion 57.10 (56.80 to 57.80): VL0





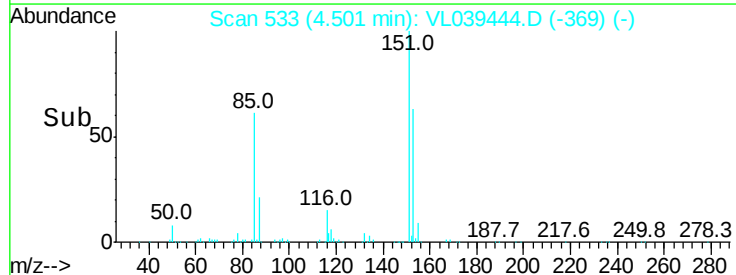
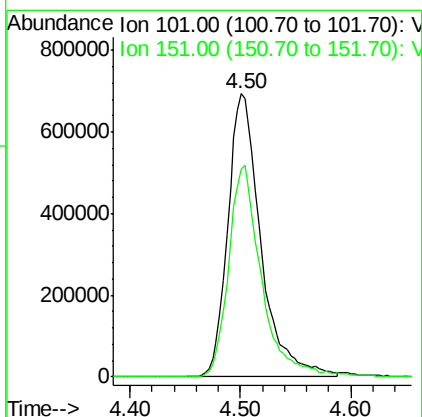
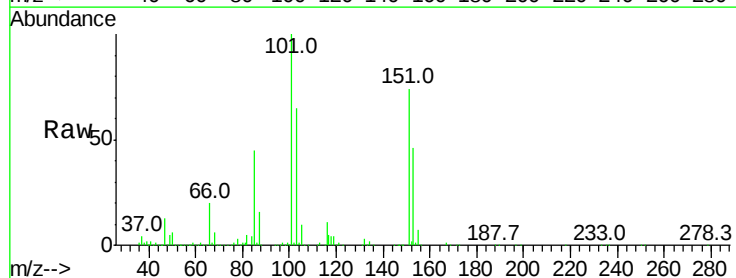
#11
 Trichlorofluoromethane
 Concen: 8.84 ppbv
 RT: 3.97
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 VL0712ABS01
 Acq: 12 Jul 2022 11:48

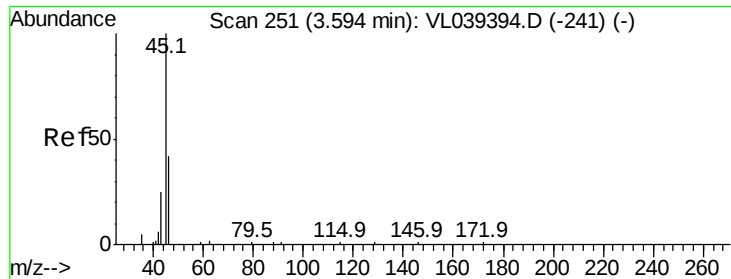
Tgt Ion:101 Resp: 1961225
 Ion Ratio Lower Upper
 101 100
 103 63.2 51.8 77.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.72 ppbv
 RT: 4.50 min Scan# 533
 Delta R.T. 0.03 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

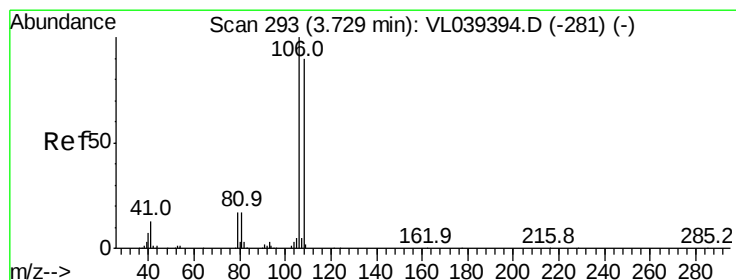
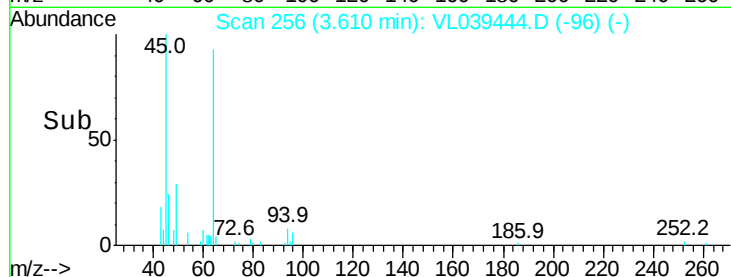
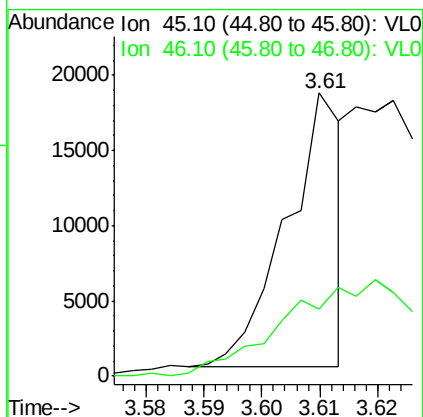
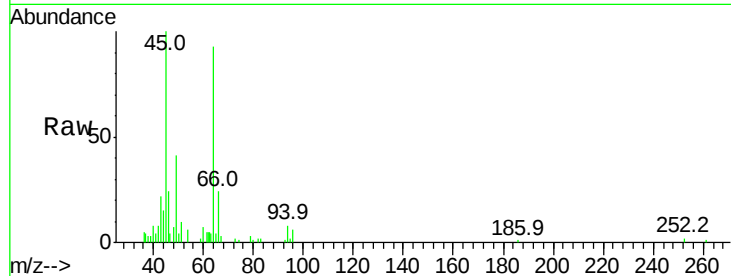
Tgt Ion:101 Resp: 1443256
 Ion Ratio Lower Upper
 101 100
 151 74.3 58.9 88.3





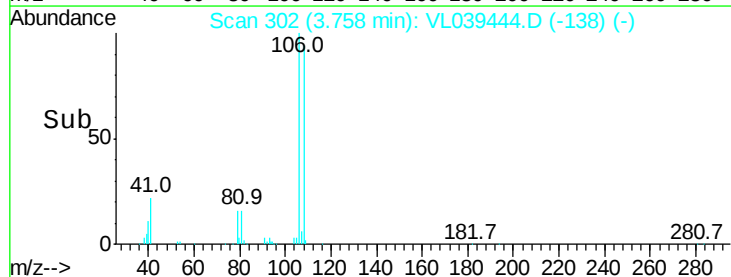
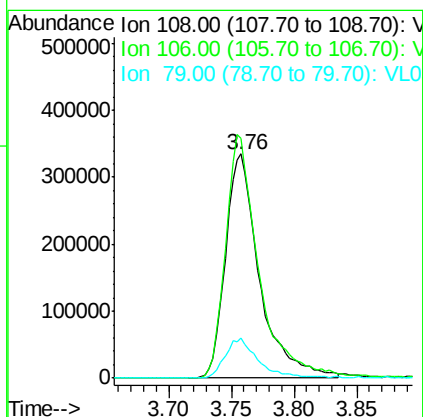
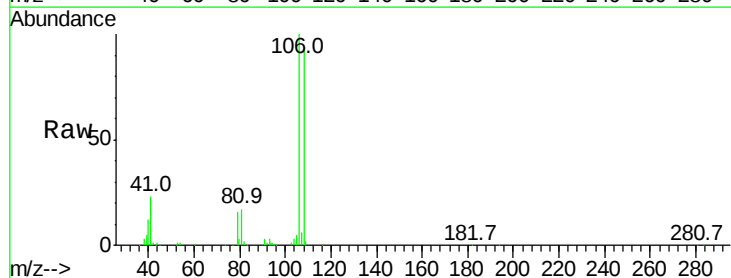
#13
Ethanol
Concen: 2.66 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VL0712ABS01
Acq: 12 Jul 2022 11:48

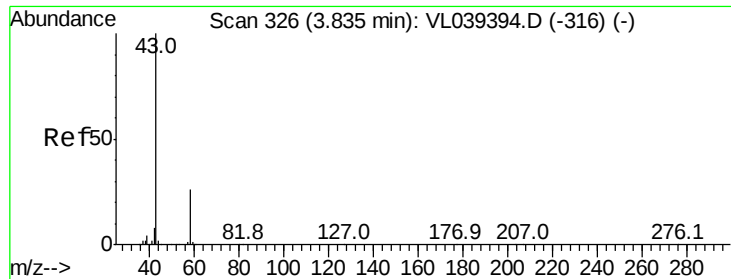
Tgt Ion: 45 Resp: 12221
Ion Ratio Lower Upper
45 100
46 0.0 22.8 91.2#



#14
Bromoethene
Concen: 9.06 ppbv
RT: 3.76 min Scan# 302
Delta R.T. 0.03 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

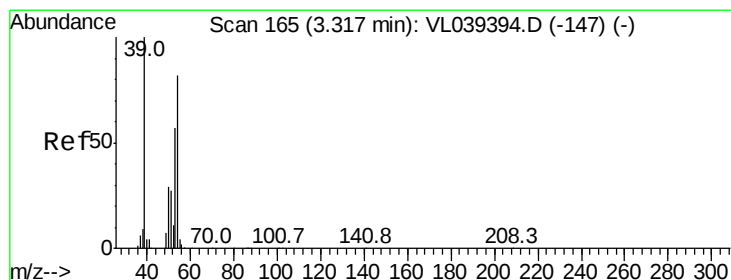
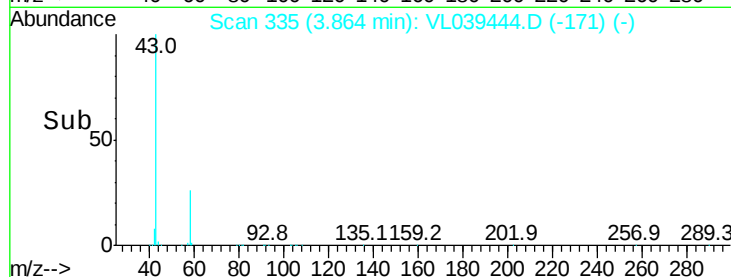
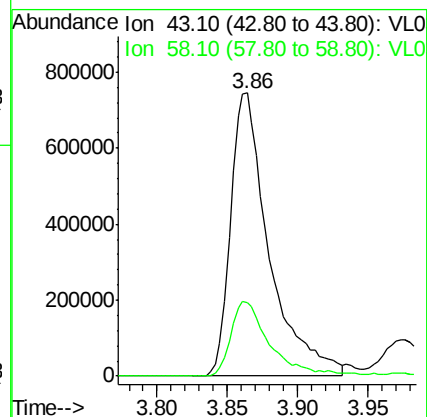
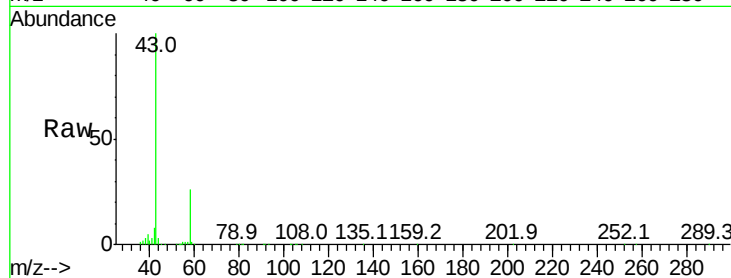
Tgt Ion: 108 Resp: 629993
Ion Ratio Lower Upper
108 100
106 107.8 87.1 130.7
79 17.6 14.6 22.0





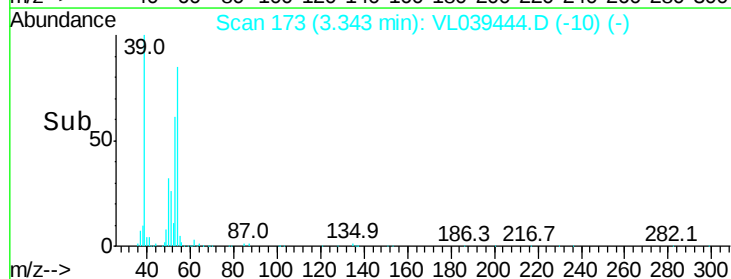
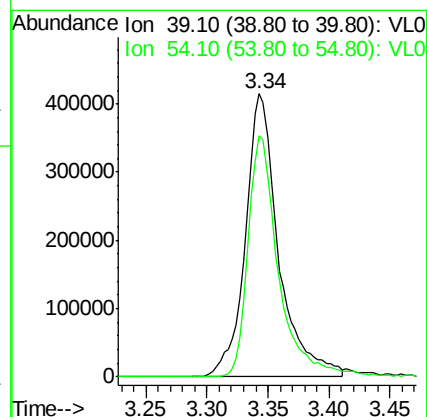
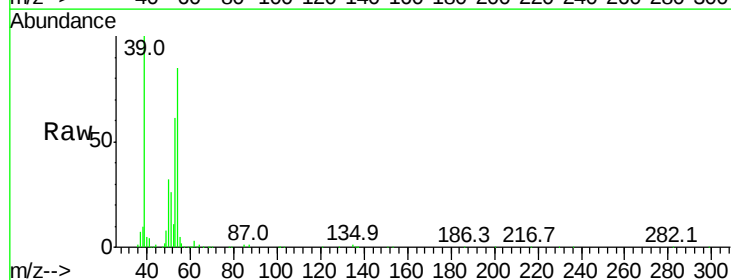
#15
Acetone
Concen: 8.71 ppbv
RT: 3.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Jul 2022 11:48

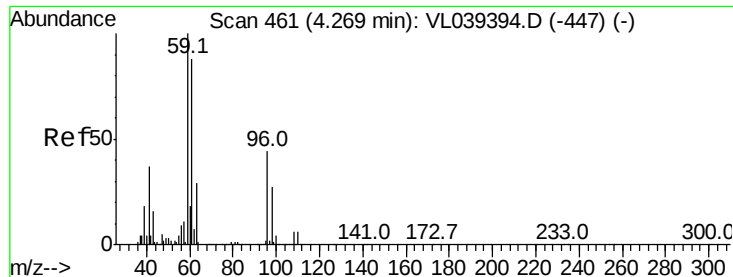
Tgt Ion: 43 Resp: 1421971
Ion Ratio Lower Upper
43 100
58 27.0 21.0 31.6



#16
1,3-Butadiene
Concen: 9.19 ppbv
RT: 3.34 min Scan# 173
Delta R.T. 0.03 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

Tgt Ion: 39 Resp: 778724
Ion Ratio Lower Upper
39 100
54 78.6 63.7 95.5





#17

tert-Butyl alcohol

Concen: 9.32 ppbv

RT: 4.29 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: VL0712ABS01

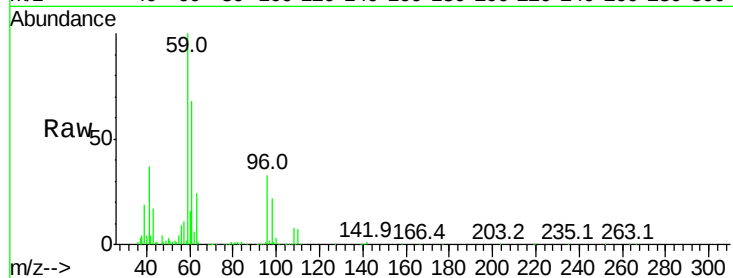
Acq: 12 Jul 2022 11:48

Tgt Ion: 59 Resp: 1291676

Ion Ratio Lower Upper

59 100

57 11.3 8.7 13.1



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

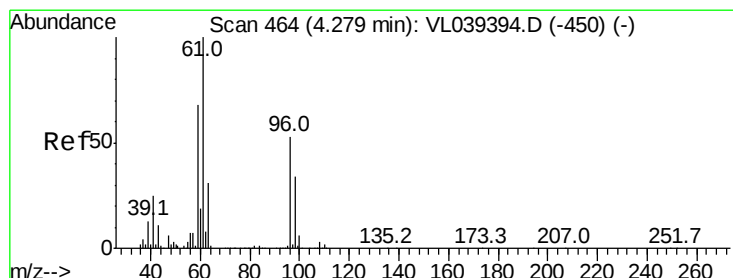
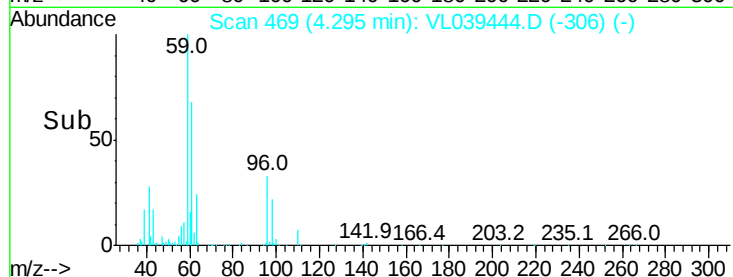
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 8.65 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.03 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

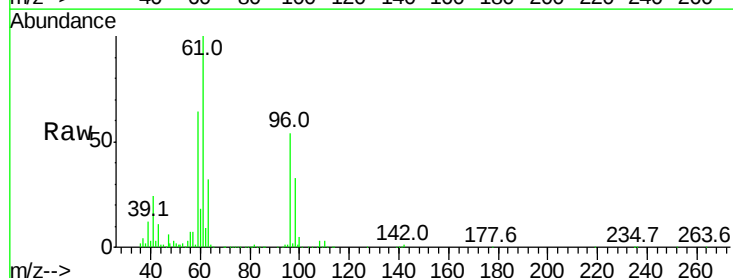
Tgt Ion: 96 Resp: 648485

Ion Ratio Lower Upper

96 100

61 184.3 152.2 228.4

98 60.4 51.8 77.6



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.31

800000

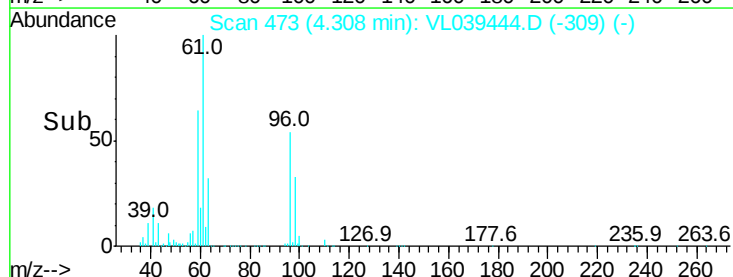
600000

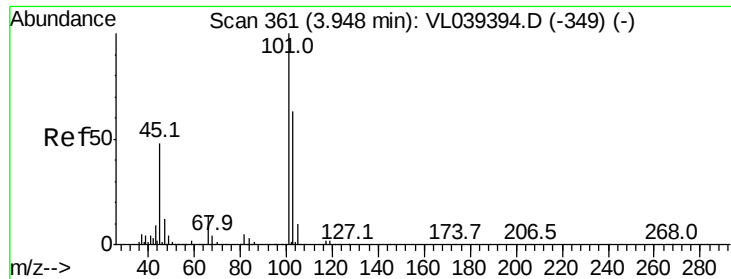
400000

200000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 8.58 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

VL0712ABS01

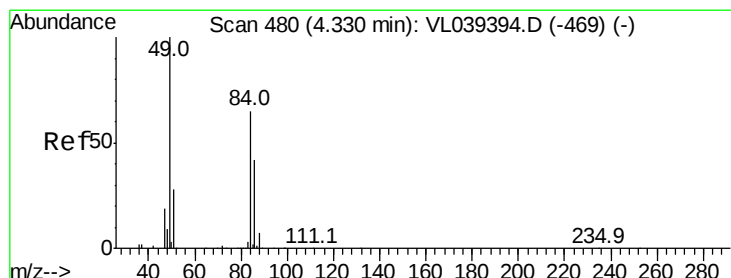
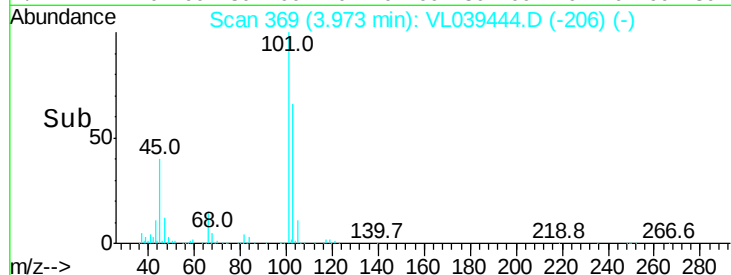
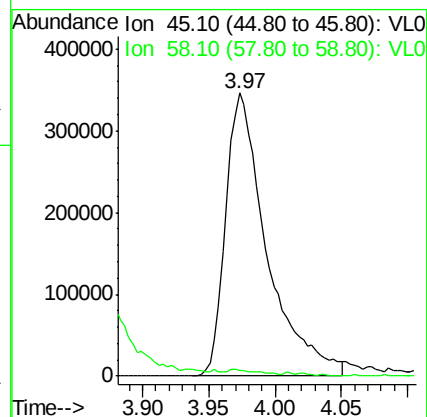
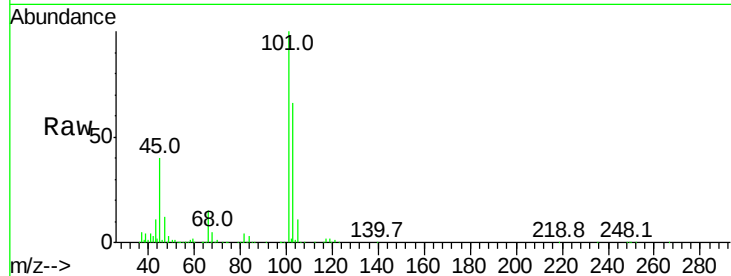
Acq: 12 Jul 2022 11:48

Tgt Ion: 45 Resp: 747226

Ion Ratio Lower Upper

45 100

58 2.8 3.2 4.8#



#20

Methylene Chloride

Concen: 8.43 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.03 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

Tgt Ion: 84 Resp: 549058

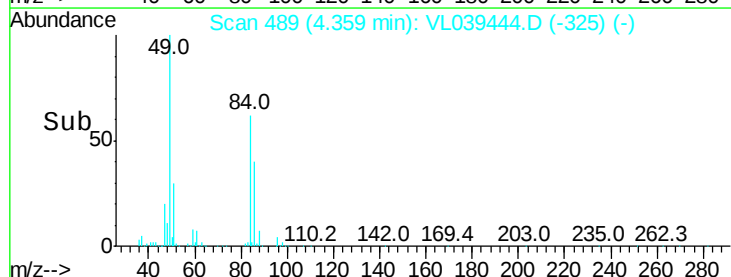
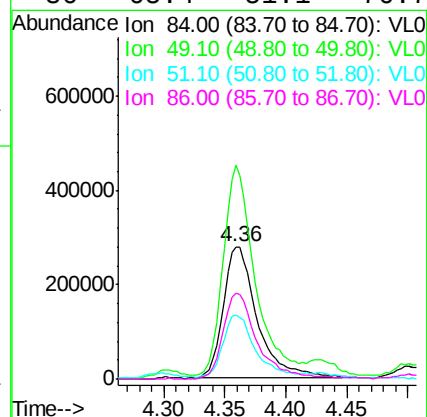
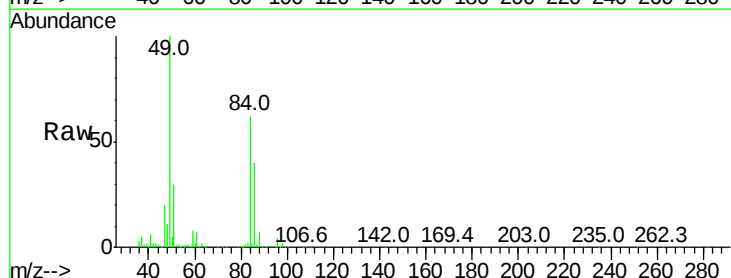
Ion Ratio Lower Upper

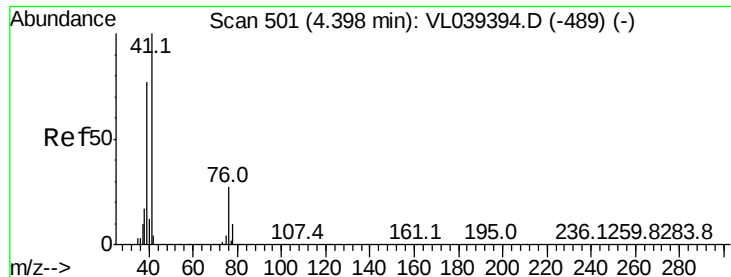
84 100

49 159.6 123.1 184.7

51 46.9 34.4 51.6

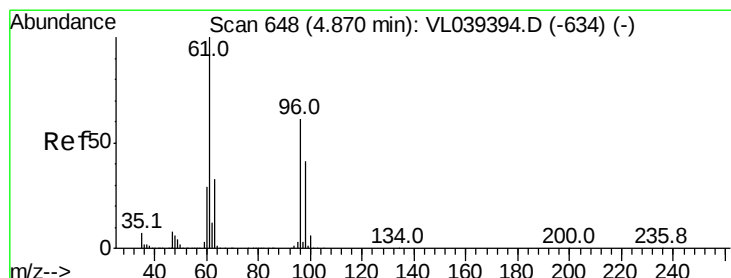
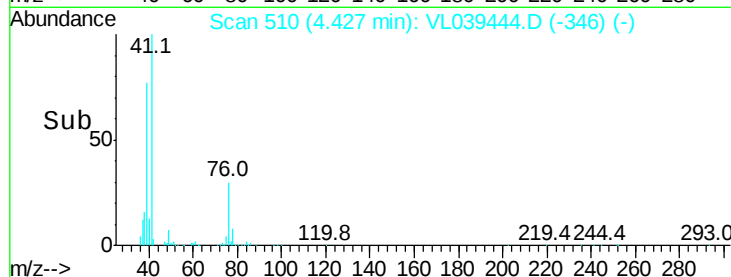
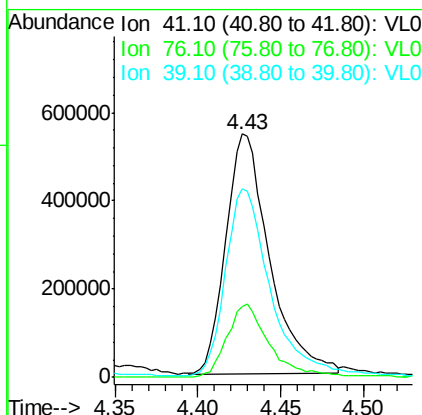
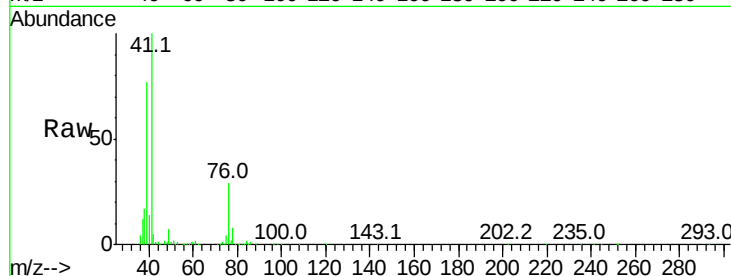
86 65.4 51.1 76.7





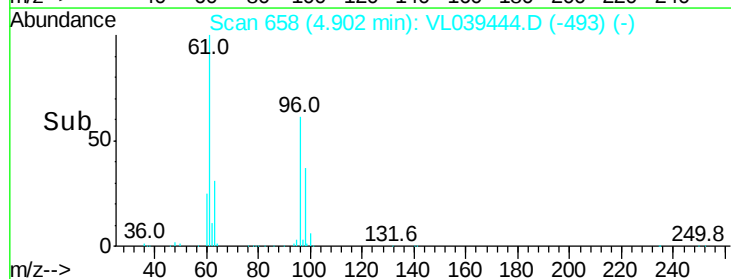
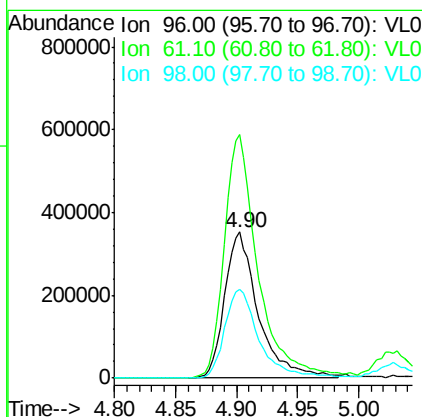
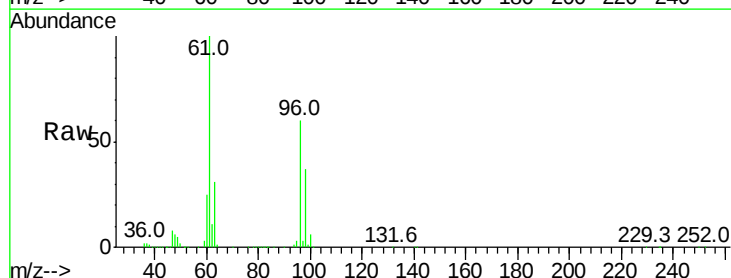
#21
 Allyl Chloride
 Concen: 8.85 ppbv
 RT: 4.43
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : VL0712ABS01
 Acq: 12 Jul 2022 11:48

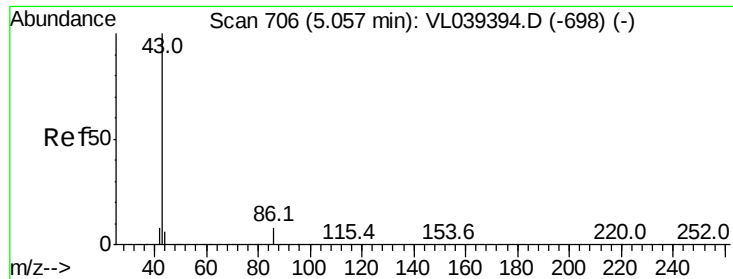
Tgt Ion: 41 Resp: 1001048
 Ion Ratio Lower Upper
 41 100
 76 29.9 24.4 36.6
 39 80.6 63.5 95.3



#22
 trans-1,2-Dichloroethene
 Concen: 9.39 ppbv
 RT: 4.90 min Scan# 658
 Delta R.T. 0.03 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion: 96 Resp: 680882
 Ion Ratio Lower Upper
 96 100
 61 166.8 130.6 195.8
 98 61.2 53.4 80.0





#23

Vinyl Acetate

Concen: 10.28 ppbv

RT: 5.09 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:40 VL0712ABS01

Tgt Ion: 43 Resp: 1122401

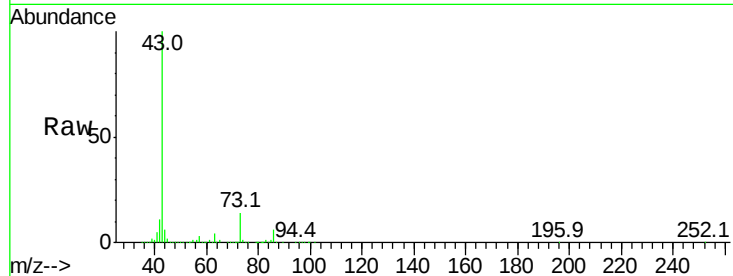
Ion Ratio Lower Upper

43 100

86 6.4 5.0 7.6

42 10.3 7.7 11.5

44 5.8 4.6 7.0

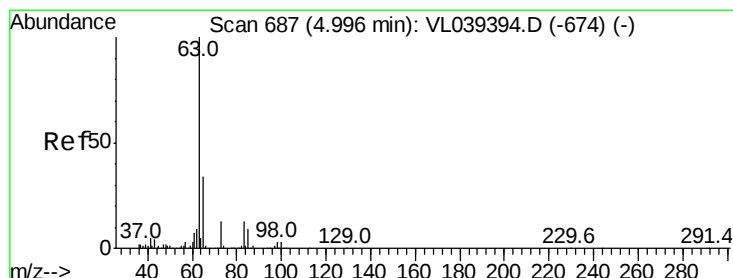
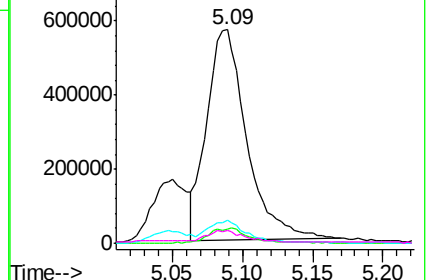
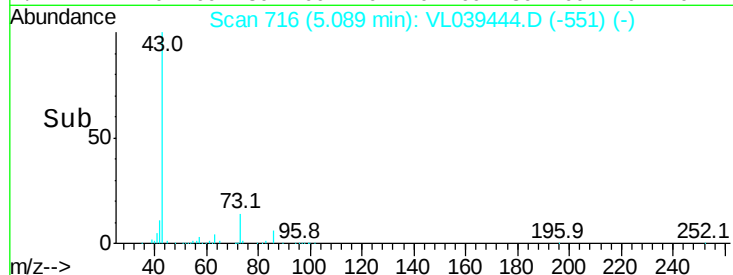


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.46 ppbv

RT: 5.03 min Scan# 697

Delta R.T. 0.03 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

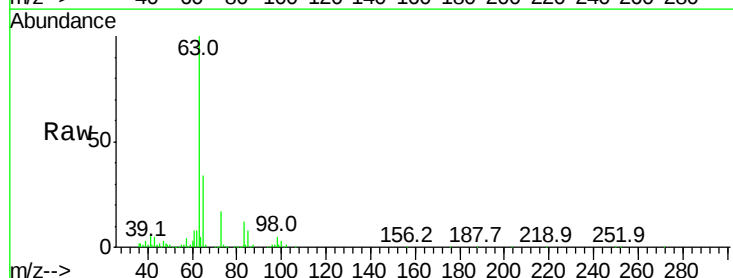
Tgt Ion: 63 Resp: 1457621

Ion Ratio Lower Upper

63 100

98 5.1 1.8 5.3

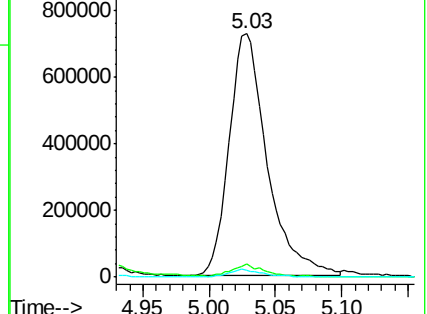
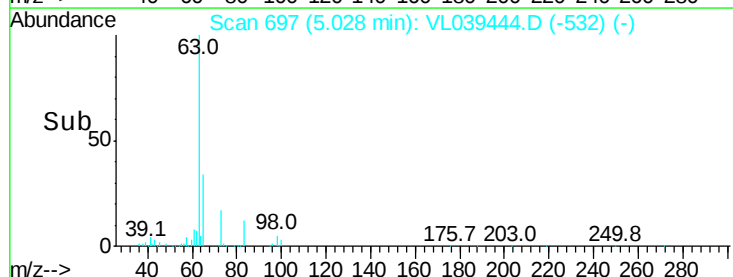
100 3.0 1.5 4.4

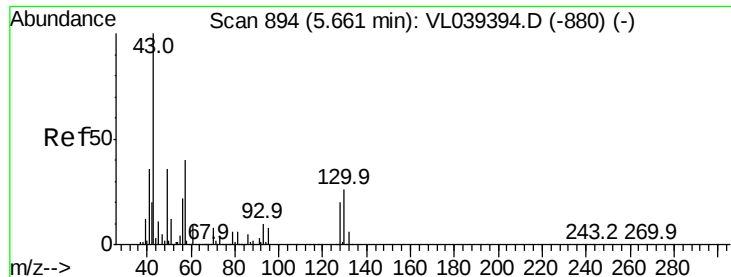


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

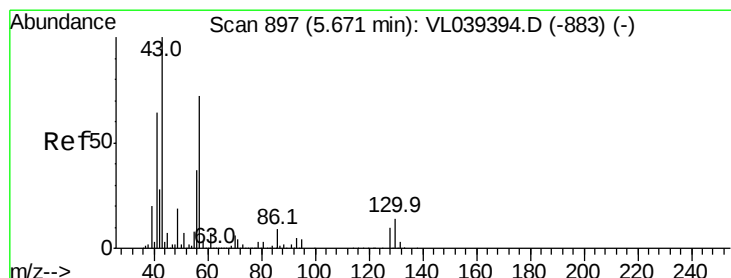
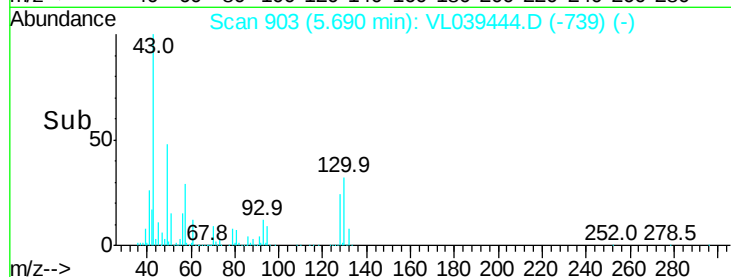
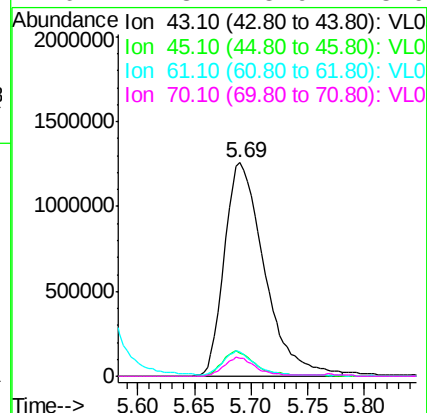
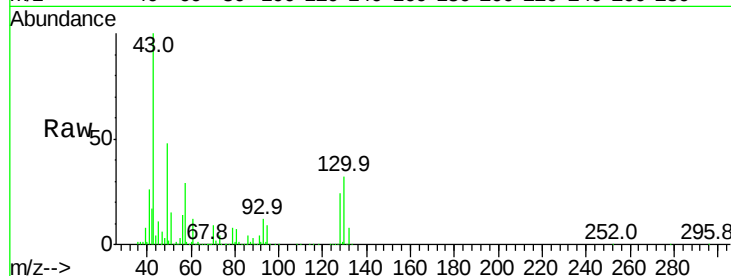




#25
 Ethyl Acetate
 Concen: 9.23 ppbv
 RT: 5.69
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId : VL0712ABS01
 Acq: 12 Jul 2022 11:48

Tgt Ion: 43 Resp: 3090945

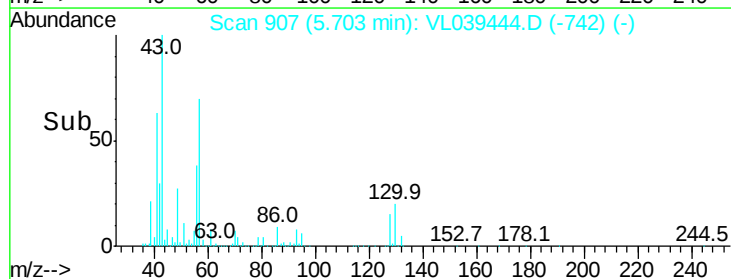
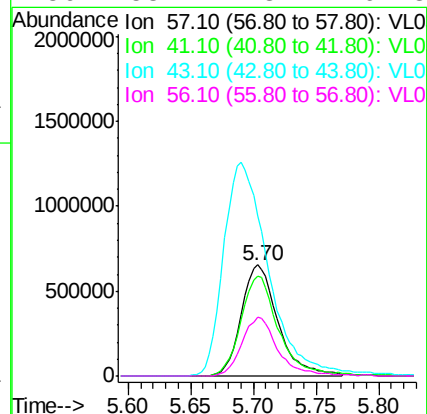
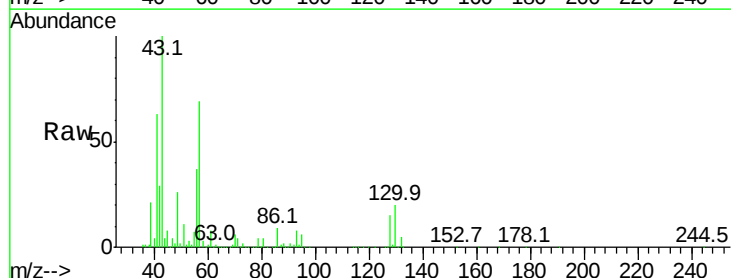
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.4
61	9.8	8.3	12.5
70	7.3	5.9	8.9

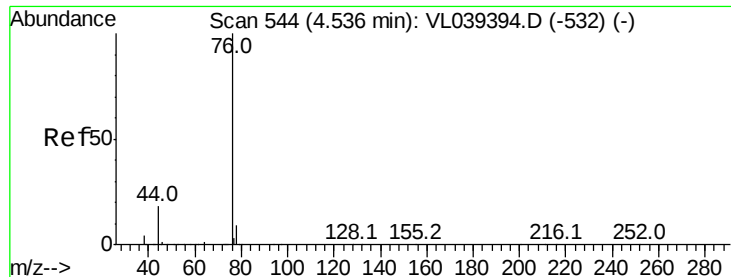


#26
 Hexane
 Concen: 9.86 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. 0.03 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion: 57 Resp: 1331069

Ion	Ratio	Lower	Upper
57	100		
41	93.4	76.9	115.3
43	238.9	191.0	286.6
56	53.1	43.2	64.8





#27

Carbon Disulfide

Concen: 9.90 ppbv

RT: 4.57 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

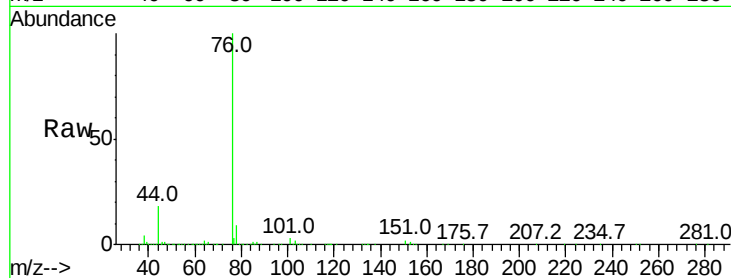
Tgt Ion: 76 Resp: 1613173

Ion Ratio Lower Upper

76 100

44 19.0 14.6 21.8

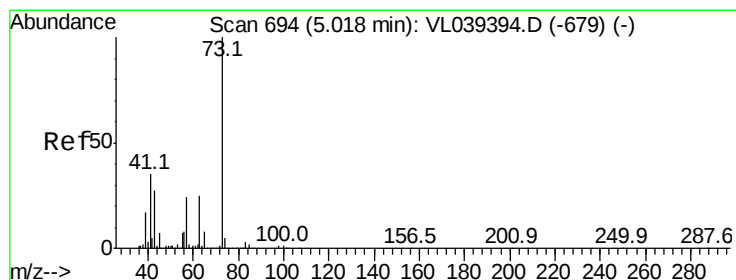
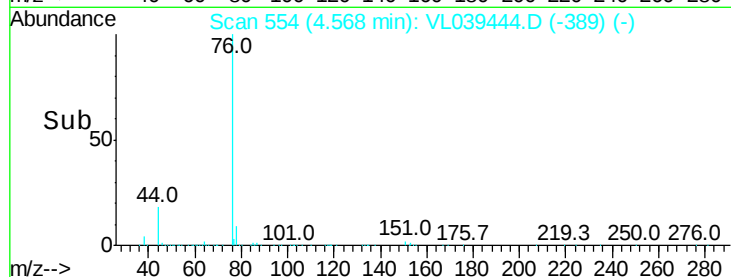
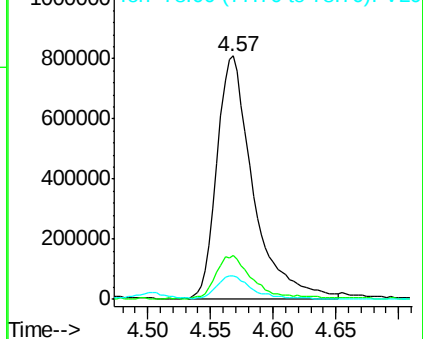
78 9.8 7.8 11.6



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



#28

Methyl tert-Butyl Ether

Concen: 9.72 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.03 min

Lab File: VL039444.D

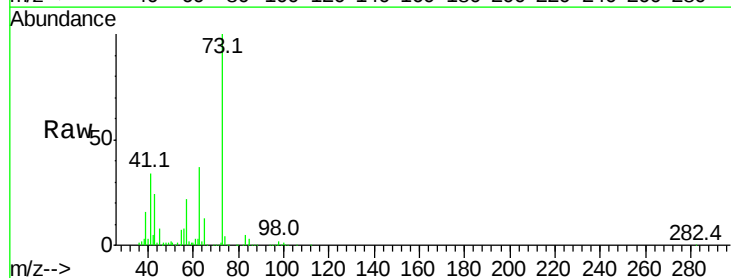
Acq: 12 Jul 2022 11:46

Tgt Ion: 73 Resp: 1402943

Ion Ratio Lower Upper

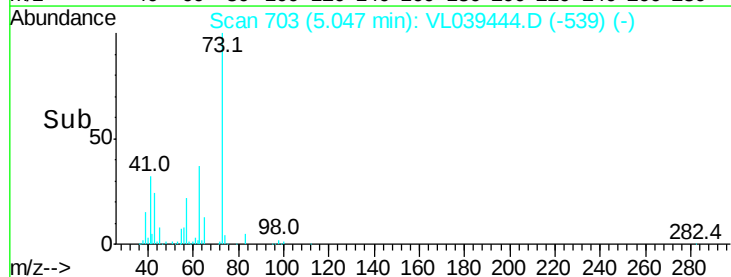
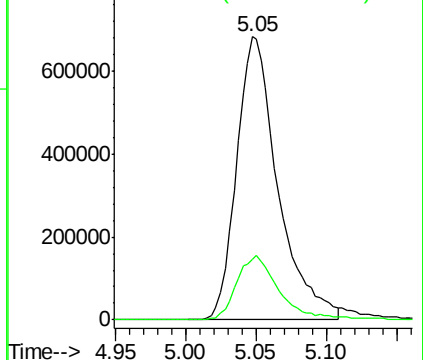
73 100

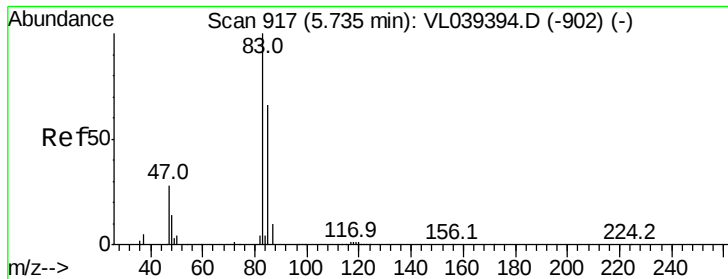
57 23.6 19.8 29.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 8.83 ppbv

RT: 5.77

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

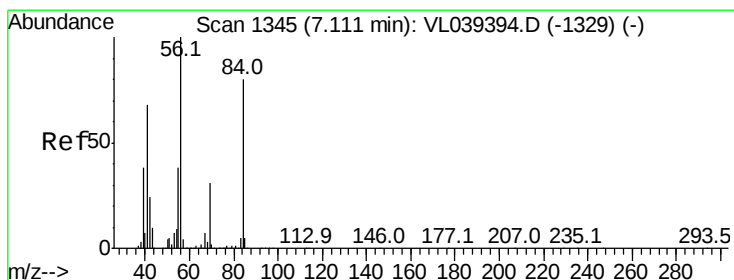
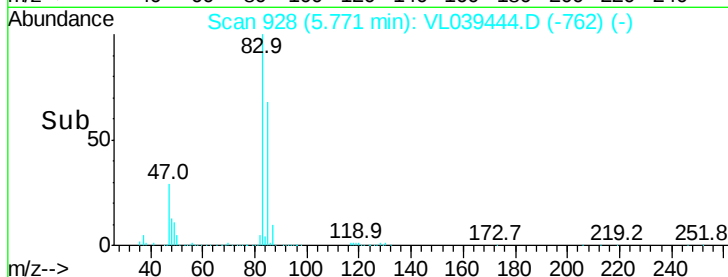
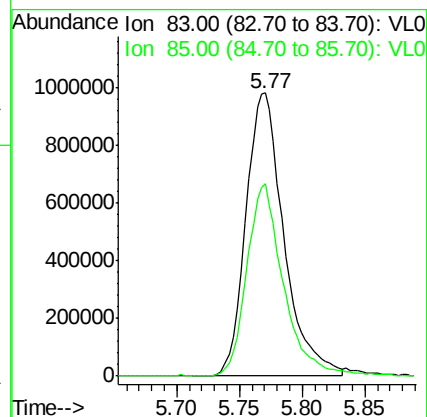
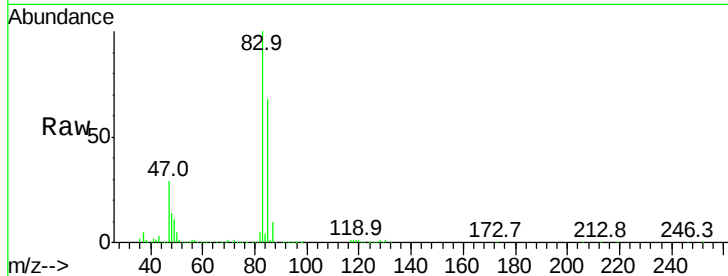
Acq: 12 Jul 2022 11:48

Tgt Ion: 83 Resp: 2072523

Ion Ratio Lower Upper

83 100

85 67.7 52.8 79.2



#30

Cyclohexane

Concen: 9.18 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

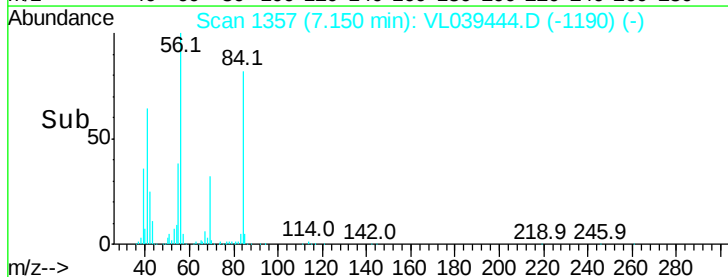
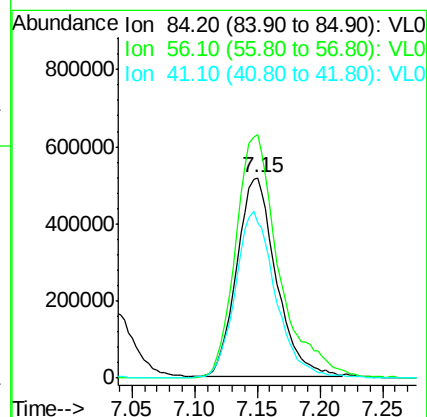
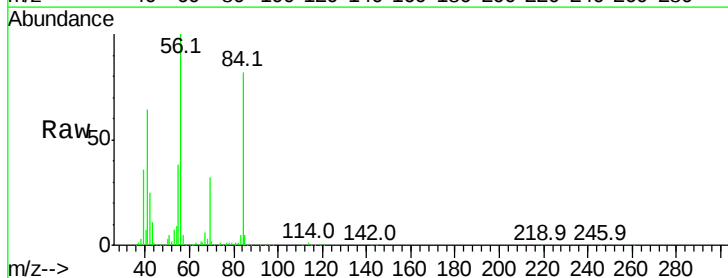
Tgt Ion: 84 Resp: 1127749

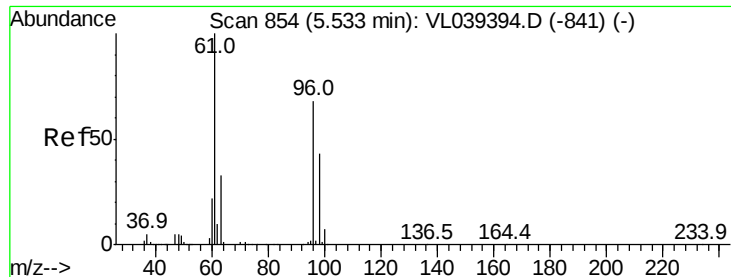
Ion Ratio Lower Upper

84 100

56 135.4 107.7 161.5

41 85.5 67.7 101.5





#31

cis-1,2-Dichloroethene

Concen: 9.16 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48 VL0712ABS01

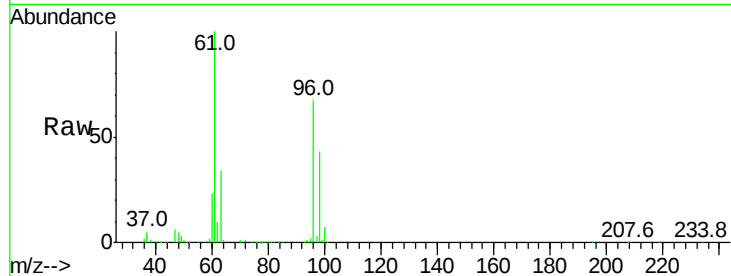
Tgt Ion: 61 Resp: 1311559

Ion Ratio Lower Upper

61 100

96 66.7 54.1 81.1

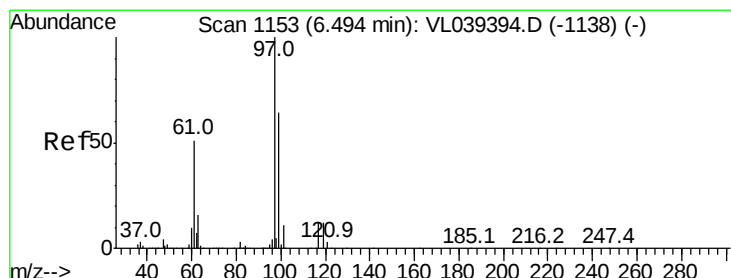
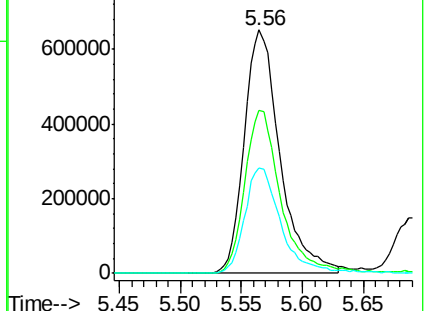
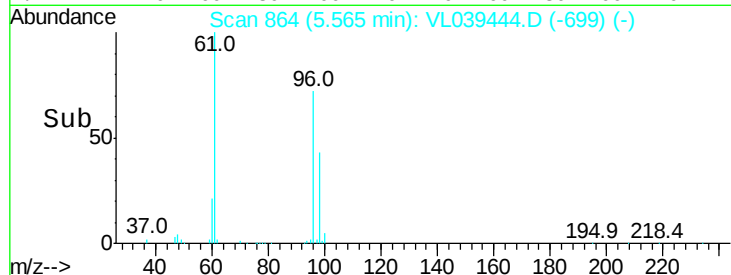
98 43.2 34.6 52.0



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.12 ppbv

RT: 6.53 min Scan# 1164

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

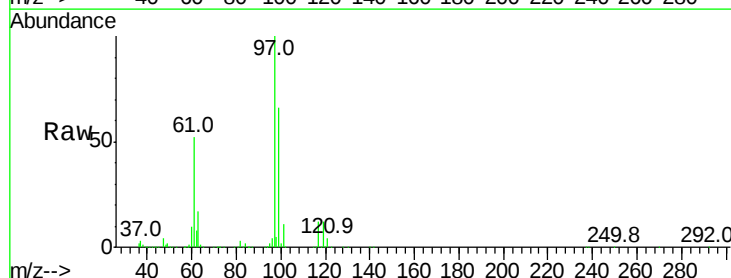
Tgt Ion: 97 Resp: 2113927

Ion Ratio Lower Upper

97 100

99 65.4 52.3 78.5

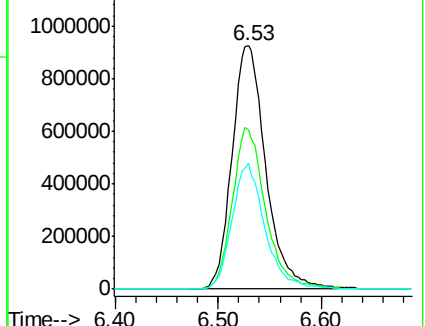
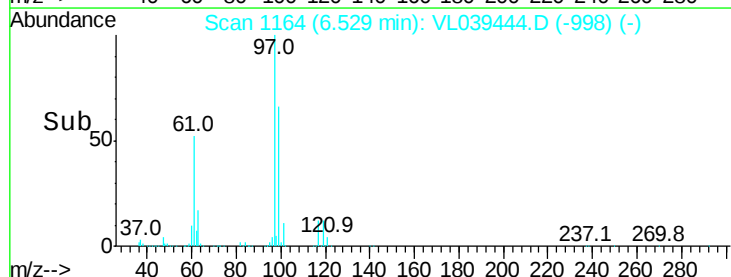
61 50.7 40.9 61.3

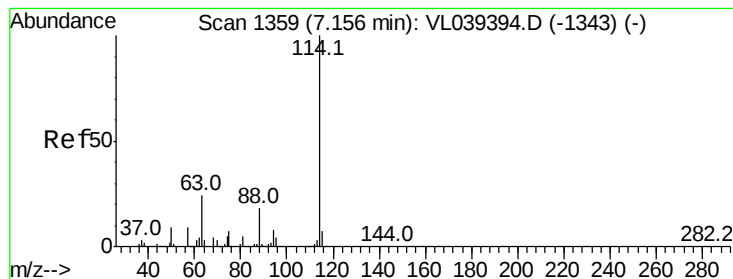


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.19 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: VL0712ABS01

Acq: 12 Jul 2022 11:40

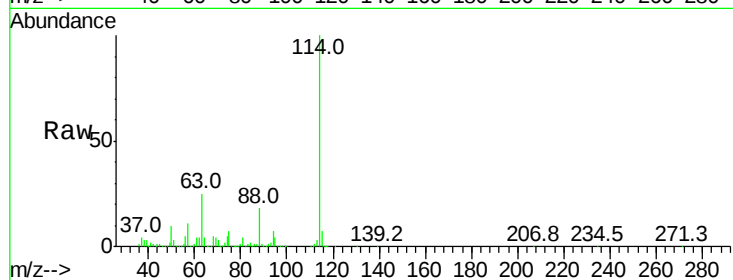
Tgt Ion: 114 Resp: 3895122

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.4

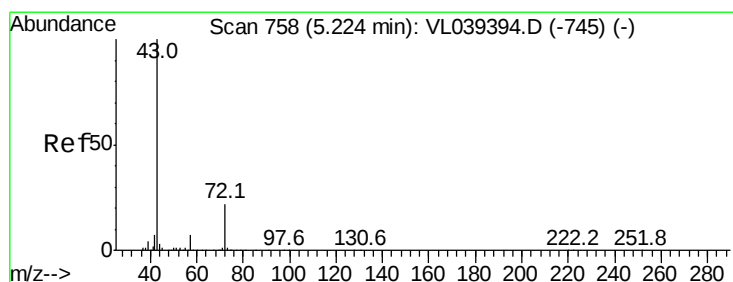
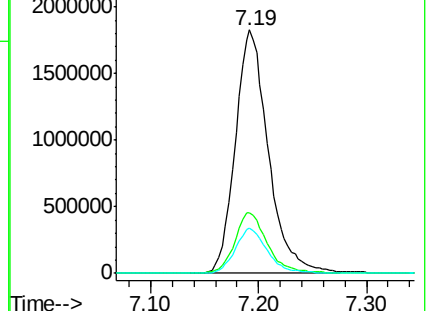
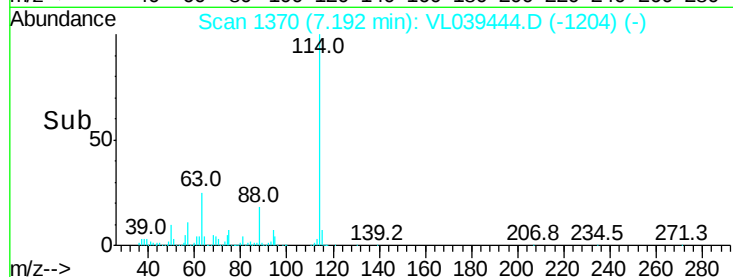
88 18.2 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.25 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.03 min

Lab File: VL039444.D

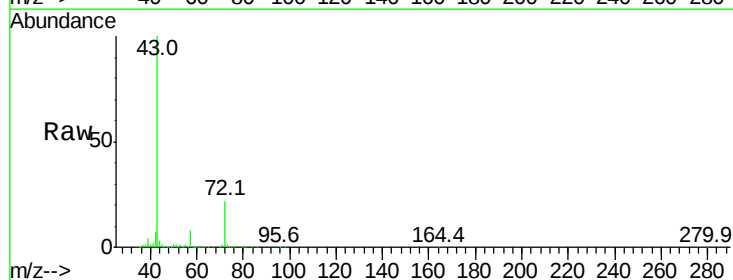
Acq: 12 Jul 2022 11:46

Tgt Ion: 43 Resp: 1813078

Ion Ratio Lower Upper

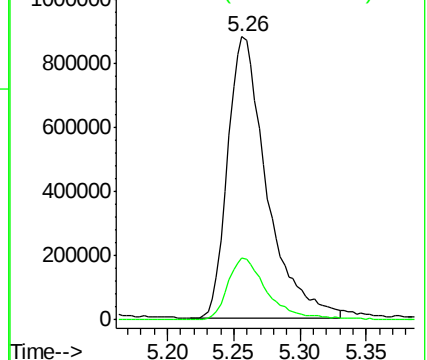
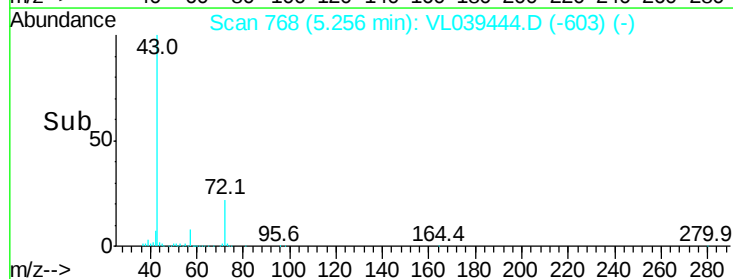
43 100

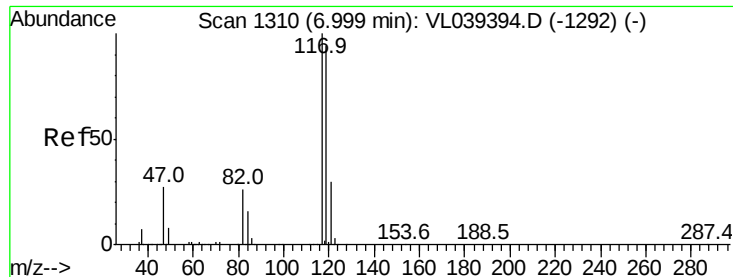
72 22.9 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

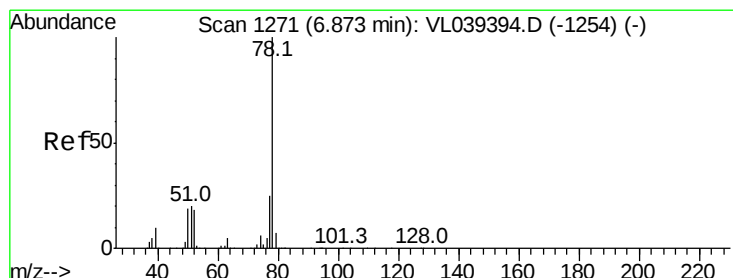
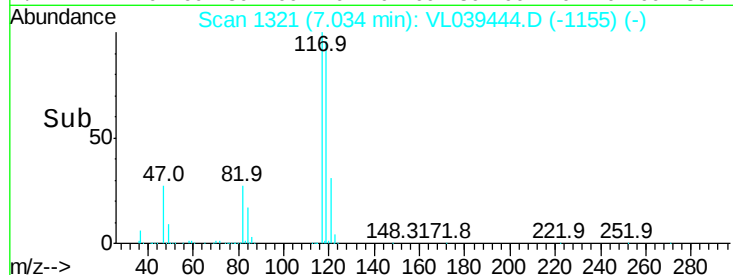
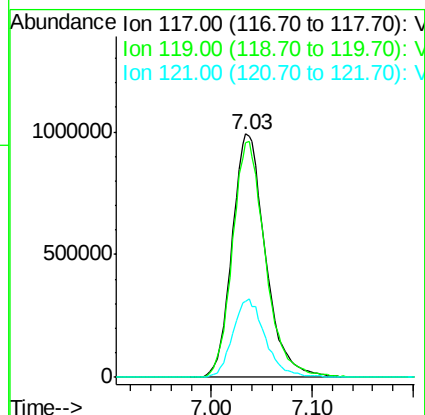
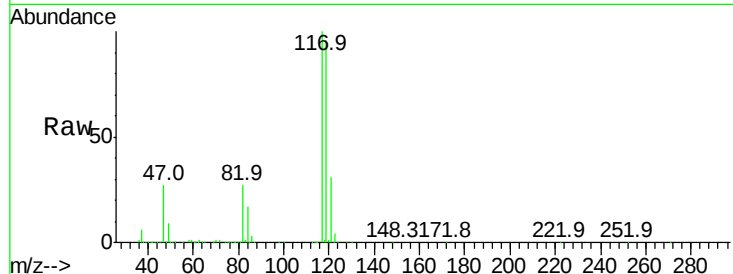




#35
Carbon Tetrachloride
Concen: 9.45 ppbv
RT: 7.03
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL0712ABS01
Acq: 12 Jul 2022 11:48

Tgt Ion: 117 Resp: 2274921

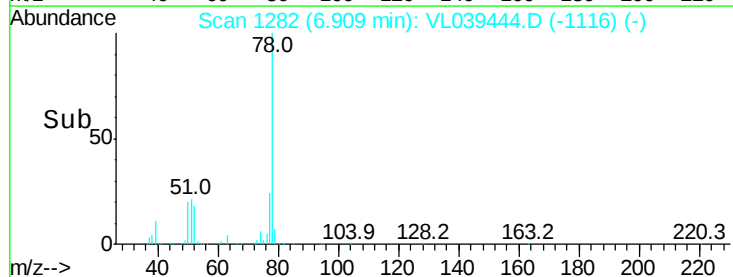
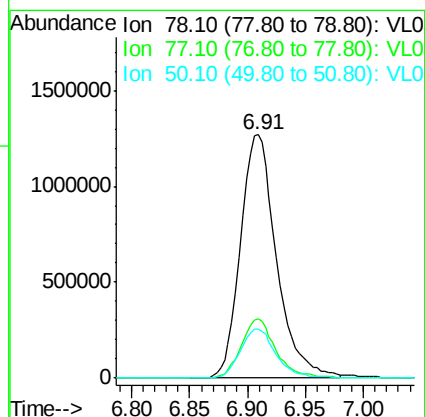
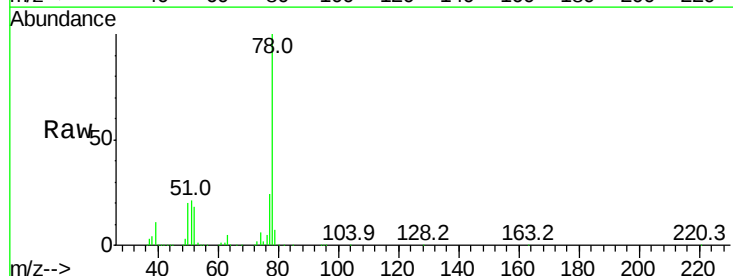
Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.4	113.2
121	31.3	24.2	36.2

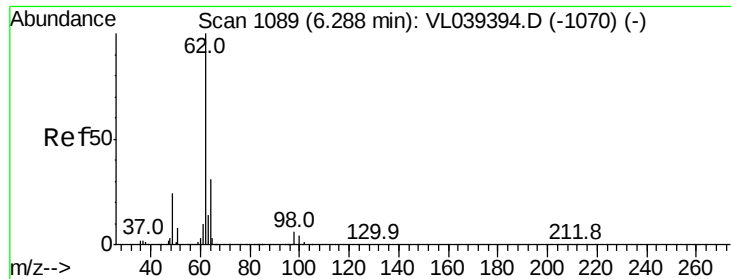


#36
Benzene
Concen: 9.10 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.04 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

Tgt Ion: 78 Resp: 2741915

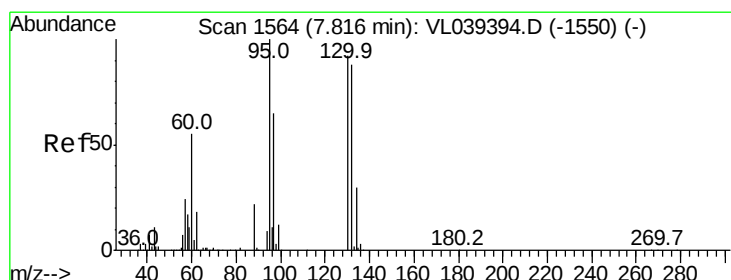
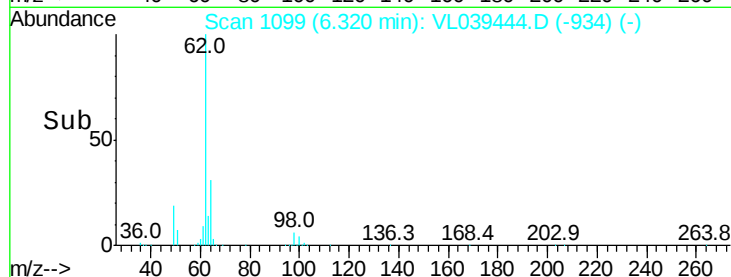
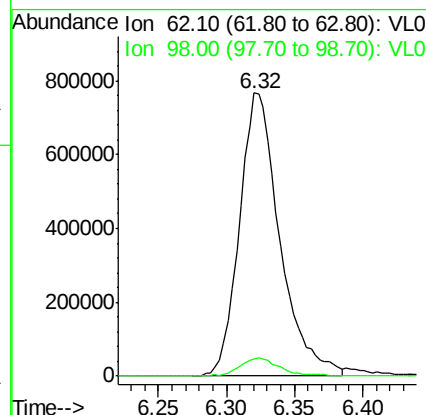
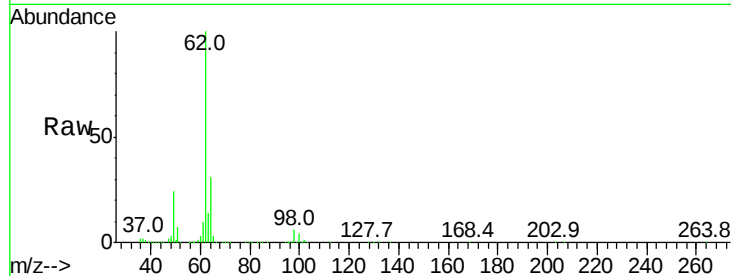
Ion	Ratio	Lower	Upper
78	100		
77	24.4	20.3	30.5
50	20.0	15.5	23.3





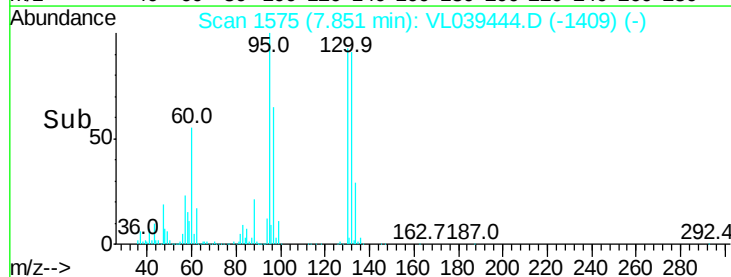
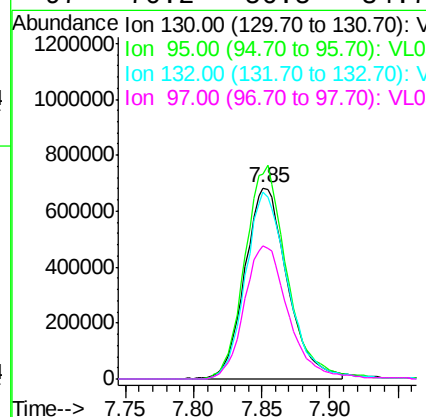
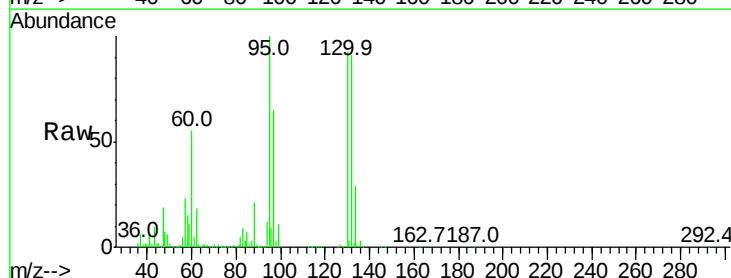
#37
 1,2-Dichloroethane
 Concen: 8.85 ppbv
 RT: 6.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL0712ABS01
 Acq: 12 Jul 2022 11:46

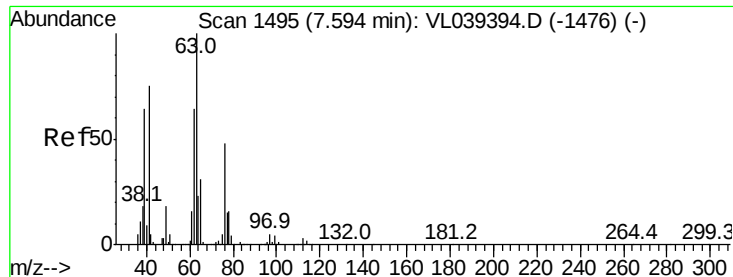
Tgt Ion: 62 Resp: 1575622
 Ion Ratio Lower Upper
 62 100
 98 6.5 5.1 7.7



#38
 Trichloroethene
 Concen: 8.99 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.04 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion: 130 Resp: 1465889
 Ion Ratio Lower Upper
 130 100
 95 107.9 87.3 130.9
 132 97.9 76.7 115.1
 97 70.2 56.5 84.7





#39

1,2-Dichloropropane

Concen: 9.23 ppbv

RT: 7.63

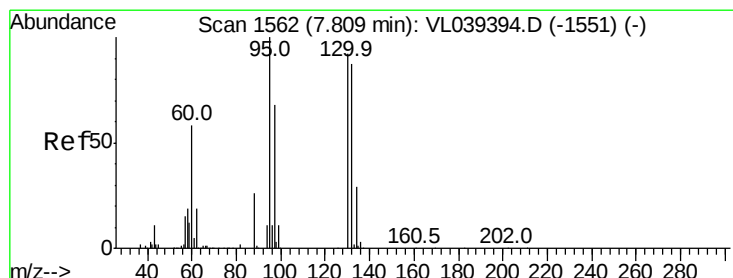
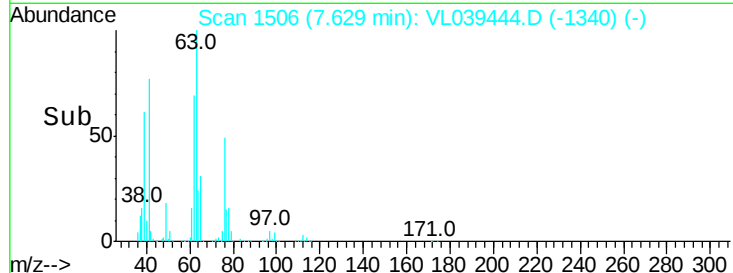
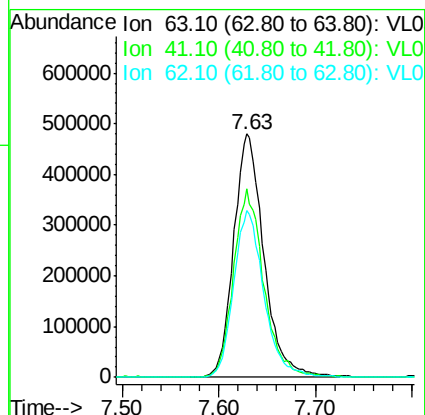
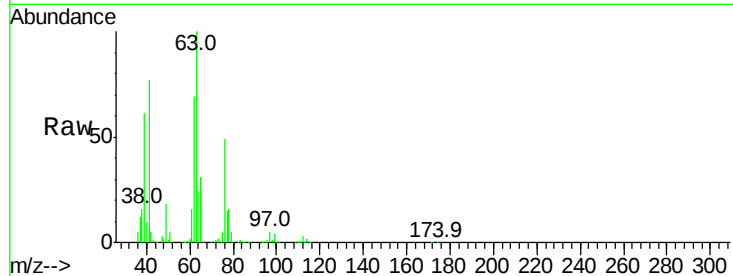
Delta R.T. MSVOA_L

Lab File: ClientSampleId : VL0712ABS01

Acq: 12 Jul 2022 11:46

Tgt Ion: 63 Resp: 1039465

Ion	Ratio	Lower	Upper
63	100		
41	77.5	59.6	89.4
62	68.6	51.4	77.0



#40

1,4-Dioxane

Concen: 8.87 ppbv

RT: 7.85 min Scan# 1574

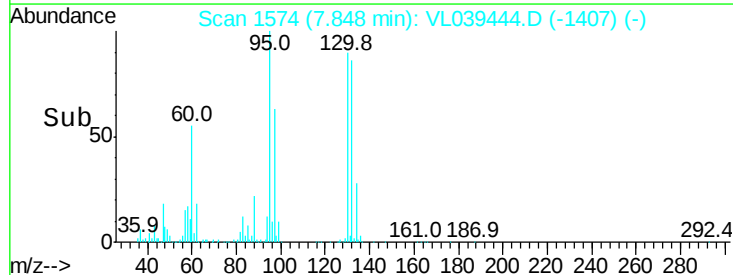
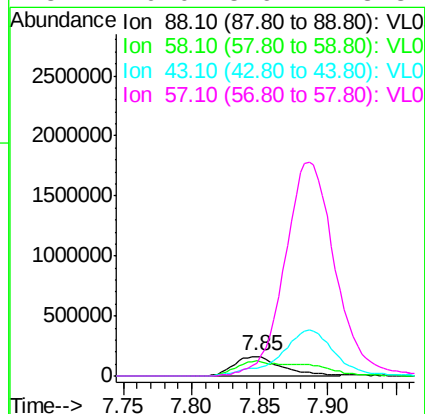
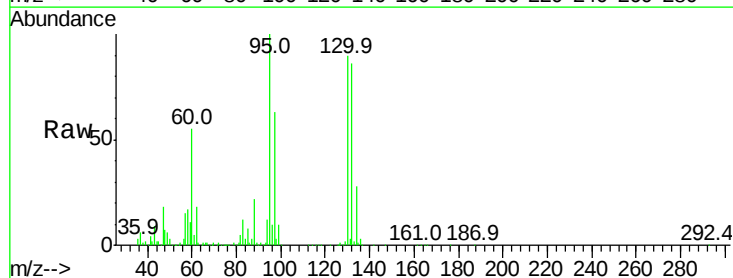
Delta R.T. 0.04 min

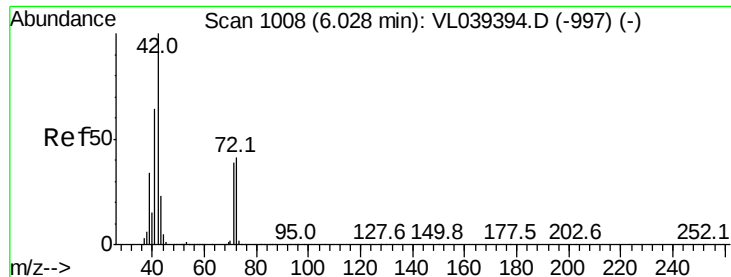
Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

Tgt Ion: 88 Resp: 398082

Ion	Ratio	Lower	Upper
88	100		
58	65.3	100.2	150.4#
43	0.0	205.8	308.6#
57	0.0	879.1	1318.7#





#41

Tetrahydrofuran

Concen: 9.44 ppbv

RT: 6.06

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

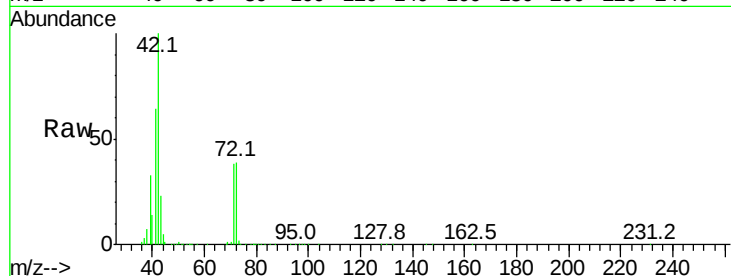
Tgt Ion: 42 Resp: 1072941

Ion Ratio Lower Upper

42 100

72 40.7 31.8 47.8

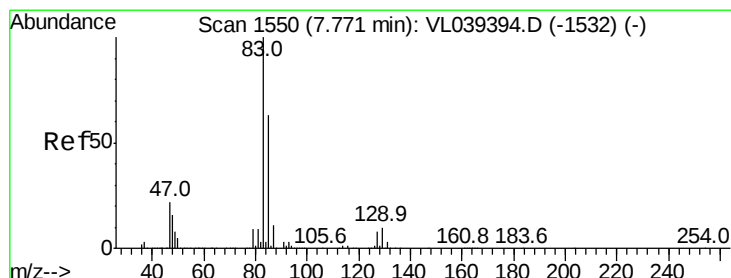
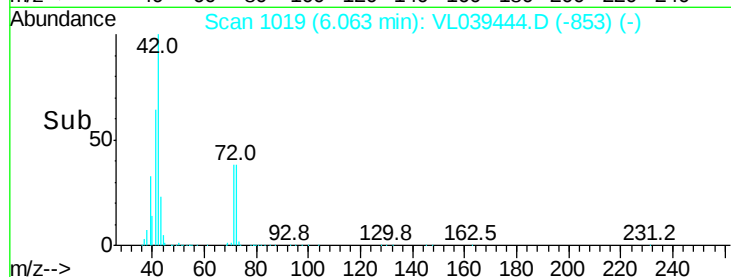
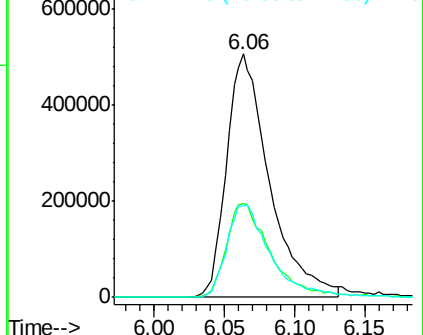
71 39.4 31.8 47.8



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



#42

Bromodichloromethane

Concen: 9.64 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

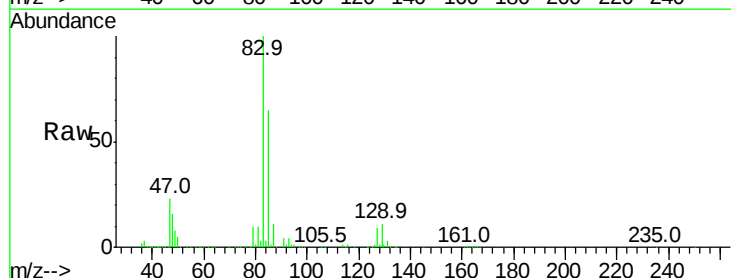
Tgt Ion: 83 Resp: 2312212

Ion Ratio Lower Upper

83 100

85 65.4 50.7 76.1

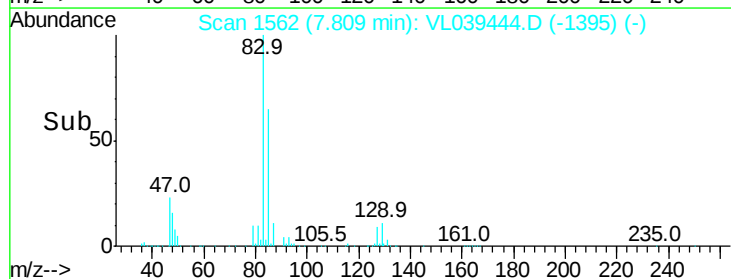
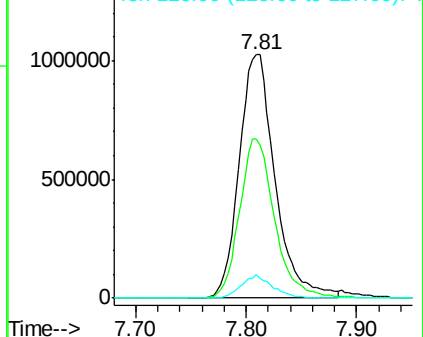
127 9.4 6.6 9.8

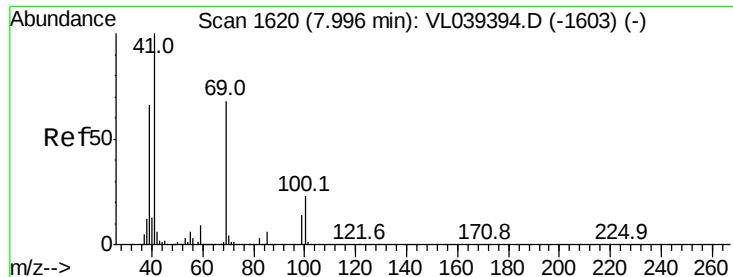


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

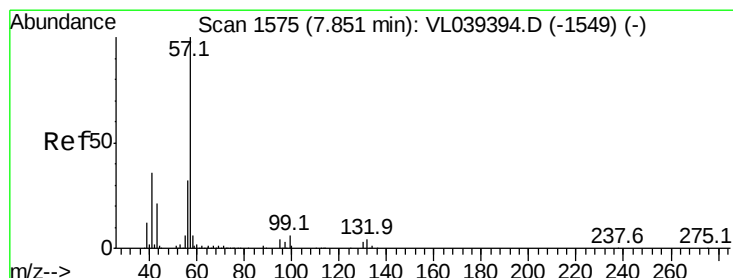
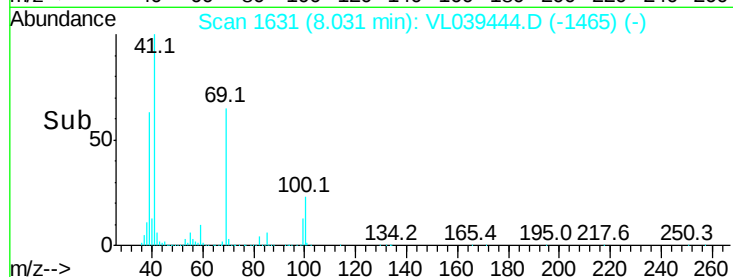
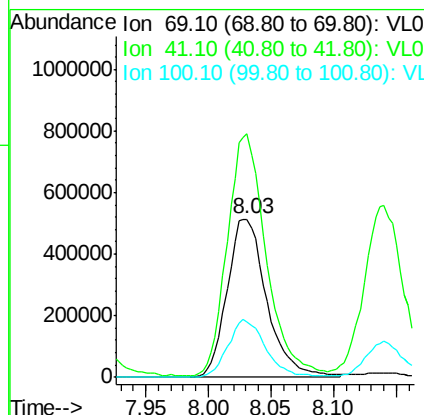
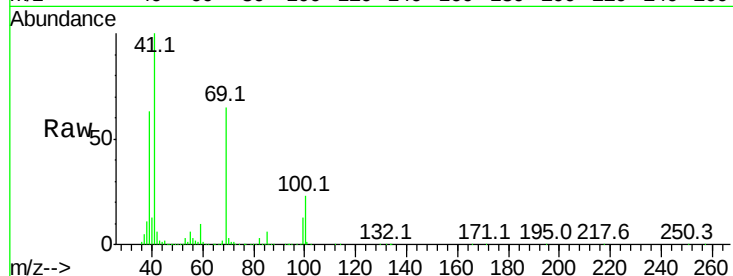




#43
Methyl Methacrylate
Concen: 9.78 ppbv
RT: 8.03
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : VL0712ABS01
Acq: 12 Jul 2022 11:48

Tgt Ion: 69 Resp: 1120762

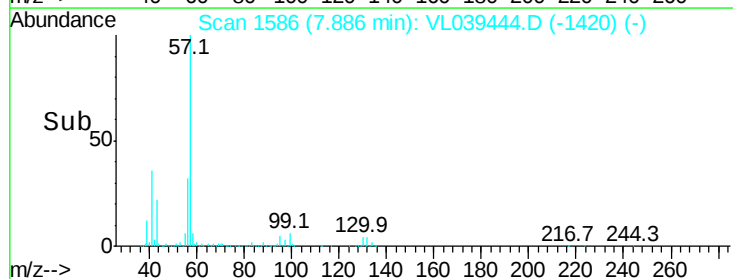
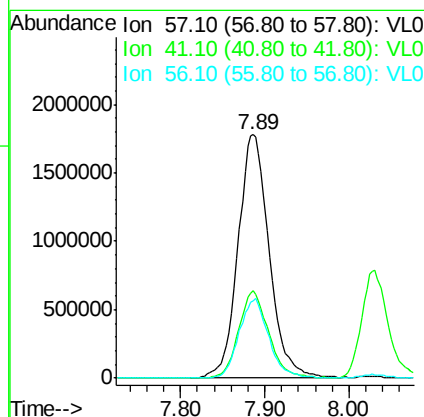
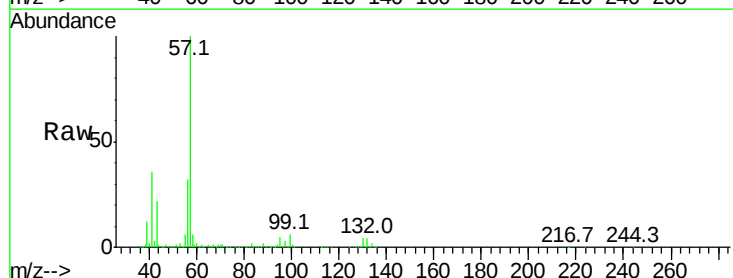
Ion	Ratio	Lower	Upper
69	100		
41	152.3	120.8	181.2
100	35.4	27.8	41.6

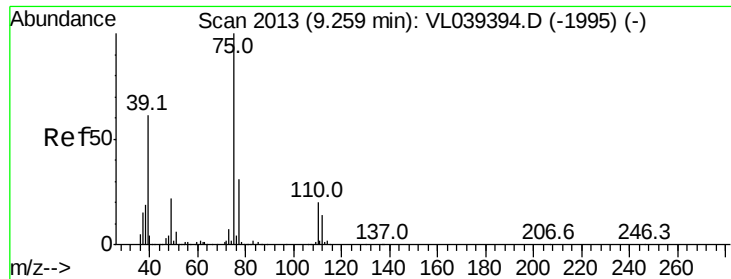


#44
2,2,4-Trimethylpentane
Concen: 8.99 ppbv
RT: 7.89 min Scan# 1586
Delta R.T.: 0.04 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

Tgt Ion: 57 Resp: 4593491

Ion	Ratio	Lower	Upper
57	100		
41	34.1	27.4	41.2
56	31.1	24.5	36.7





#45

t-1,3-Dichloropropene

Concen: 11.13 ppbv

RT: 9.29 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

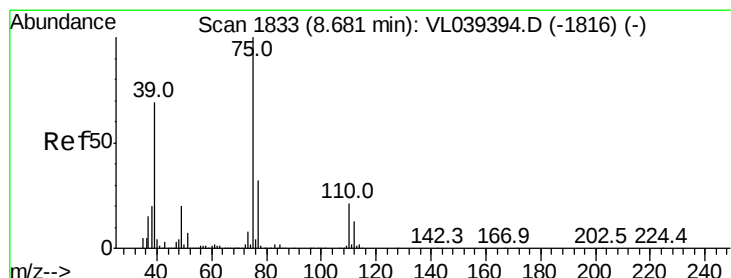
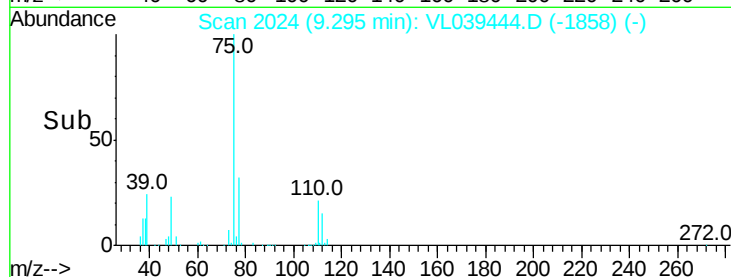
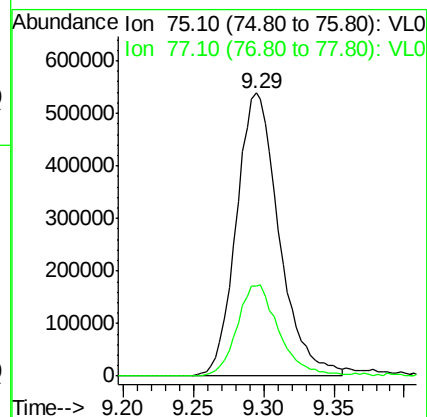
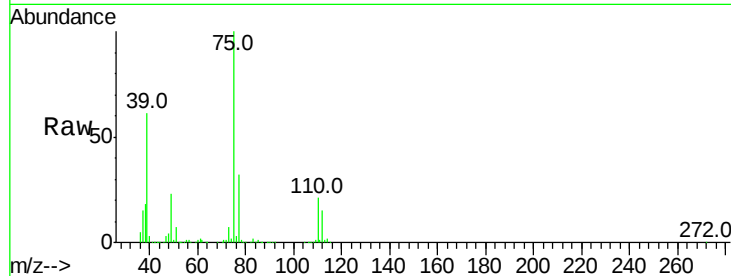
Acq: 12 Jul 2022 11:40 VL0712ABS01

Tgt Ion: 75 Resp: 1135936

Ion Ratio Lower Upper

75 100

77 31.8 24.6 36.8



#46

cis-1,3-Dichloropropene

Concen: 10.60 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

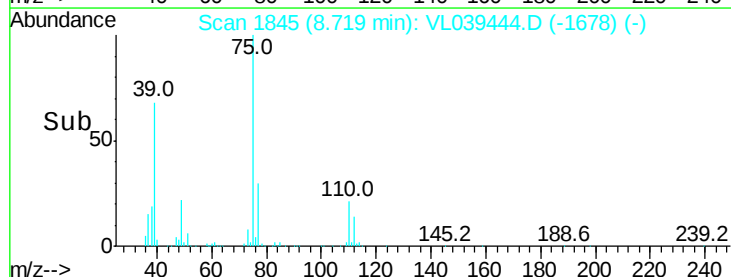
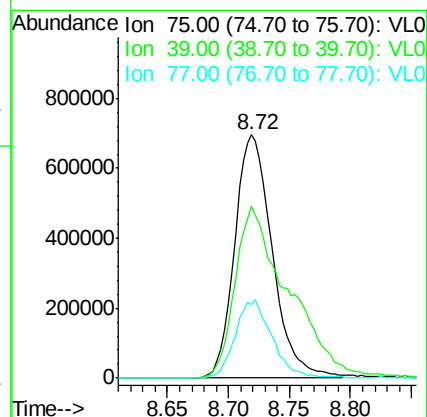
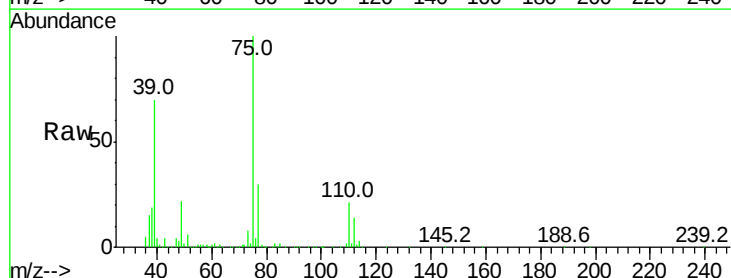
Tgt Ion: 75 Resp: 1488771

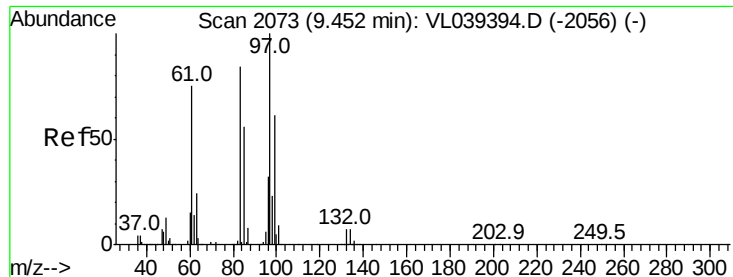
Ion Ratio Lower Upper

75 100

39 70.3 55.0 82.4

77 30.2 25.7 38.5

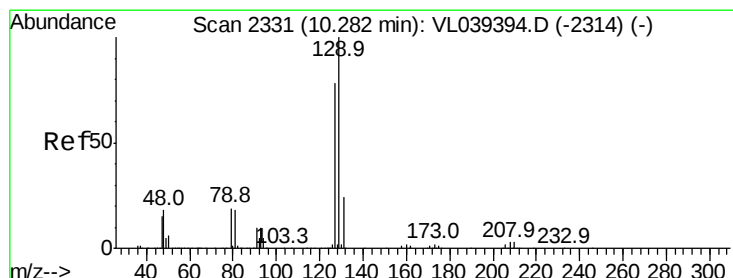
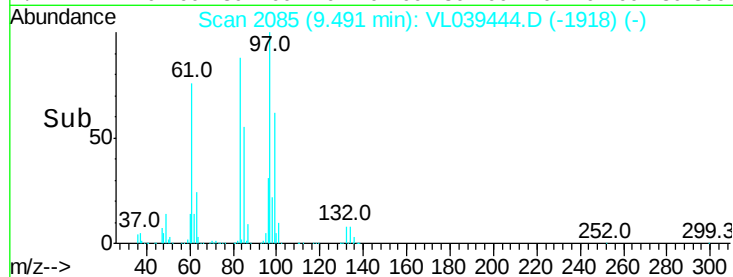
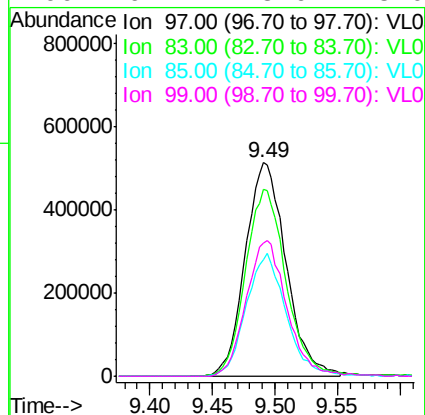
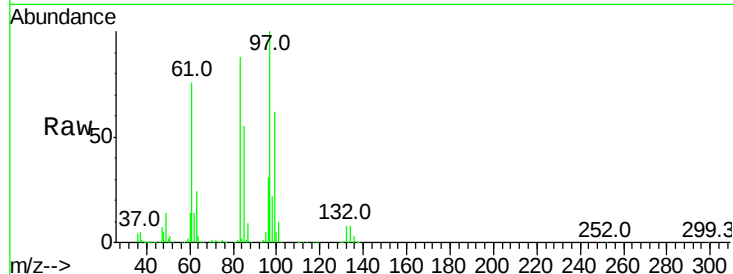




#47
 1,1,2-Trichloroethane
 Concen: 9.17 ppbv
 RT: 9.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VL0712ABS01
 Acq: 12 Jul 2022 11:48

Tgt Ion: 97 Resp: 1158475

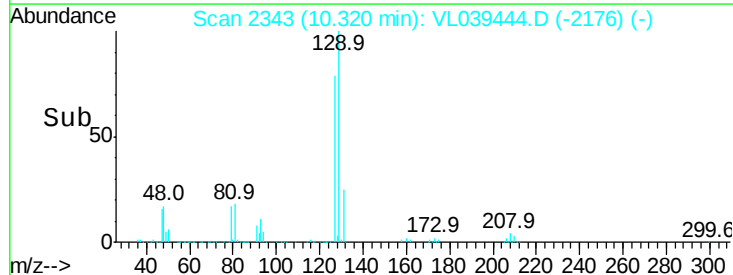
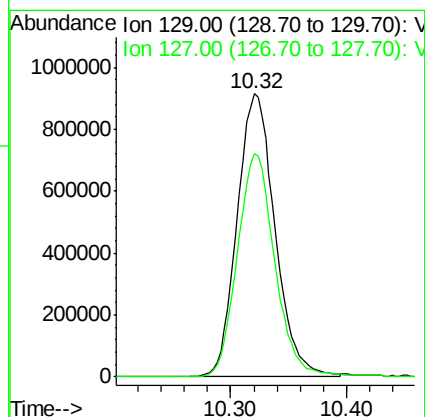
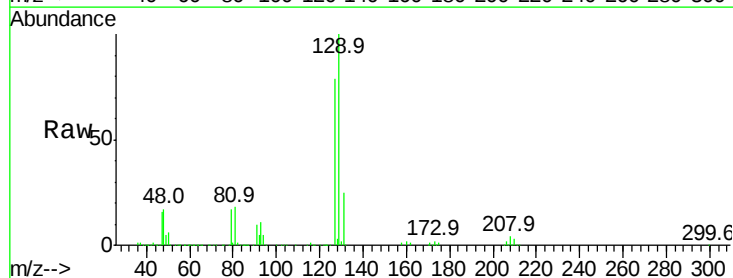
Ion	Ratio	Lower	Upper
97	100		
83	87.7	67.4	101.0
85	54.6	45.1	67.7
99	62.4	48.6	73.0

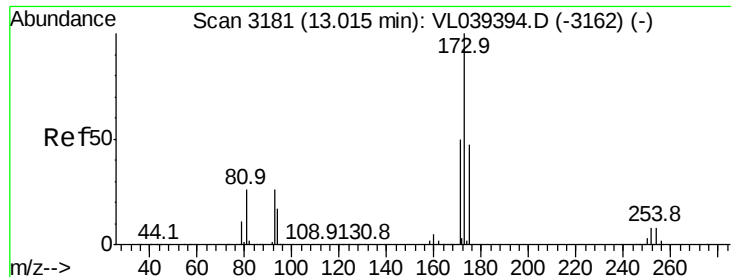


#48
 Dibromochloromethane
 Concen: 10.31 ppbv
 RT: 10.32 min Scan# 2343
 Delta R.T. 0.04 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion: 129 Resp: 2069884

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.3	117.9





#49

Bromoform

Concen: 10.78 ppbv

RT: 13.06

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

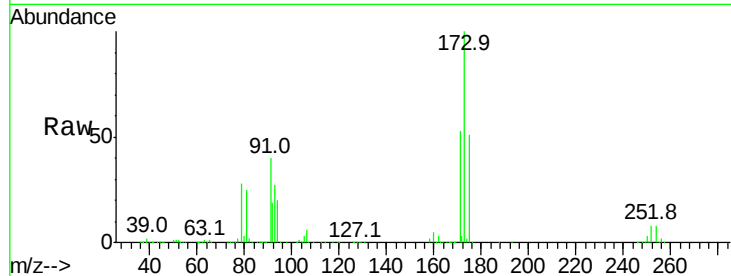
Tgt Ion: 173 Resp: 1746601

Ion Ratio Lower Upper

173 100

175 50.2 40.3 60.5

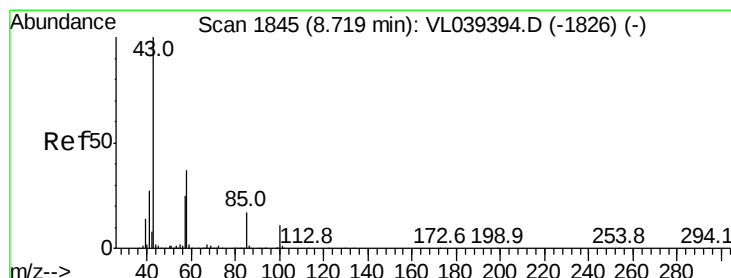
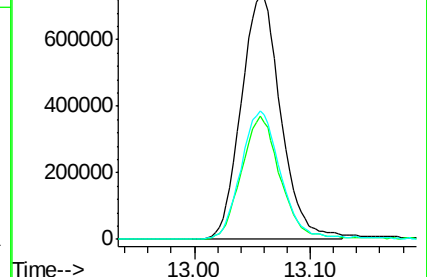
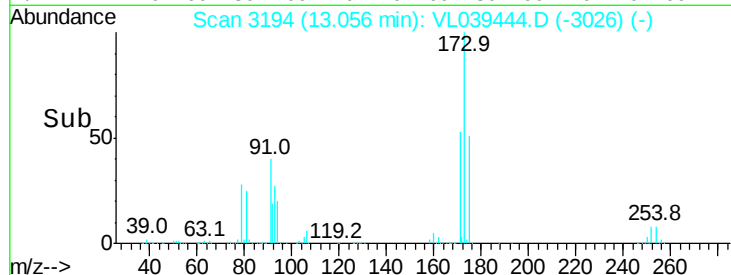
171 54.1 42.9 64.3



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.65 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.04 min

Lab File: VL039444.D

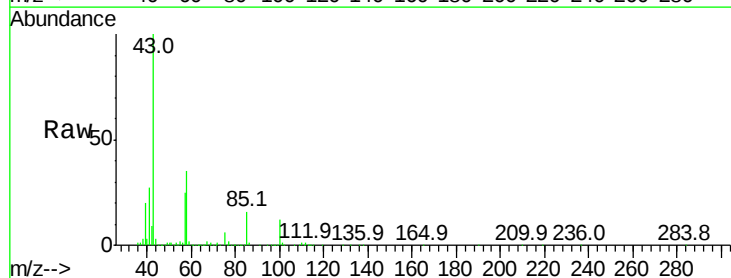
Acq: 12 Jul 2022 11:46

Tgt Ion: 43 Resp: 2862190

Ion Ratio Lower Upper

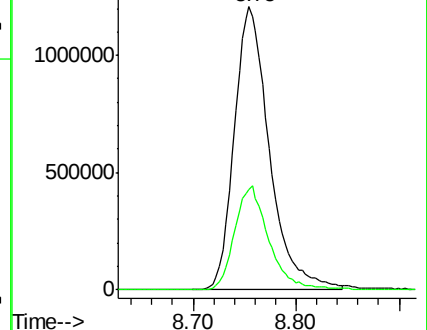
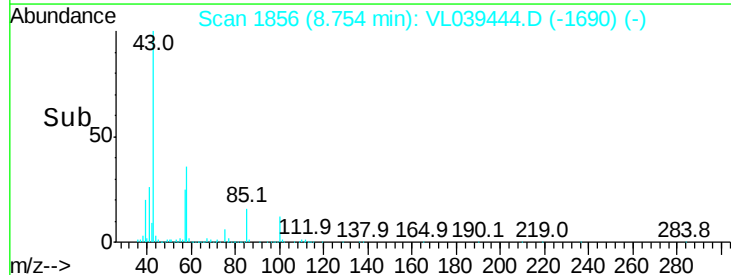
43 100

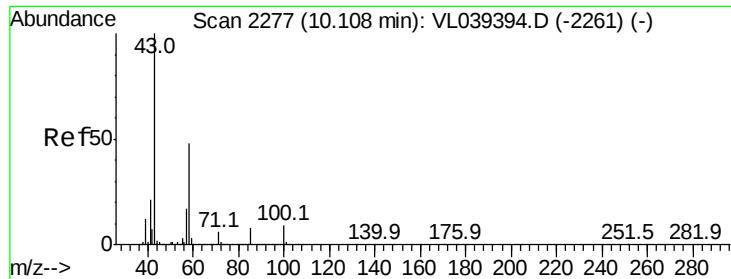
58 36.2 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

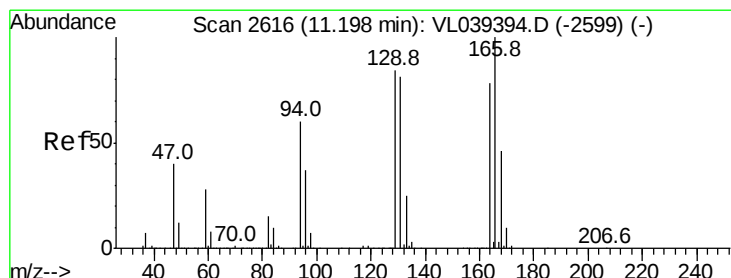
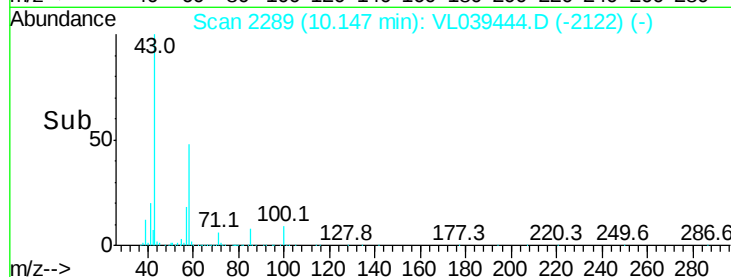
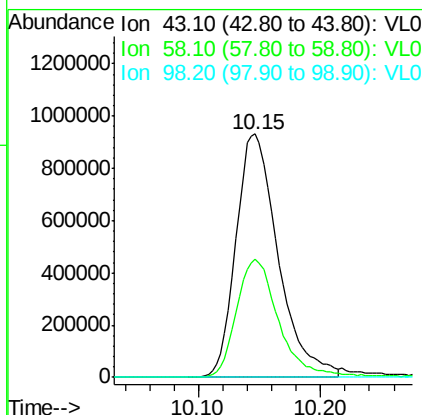
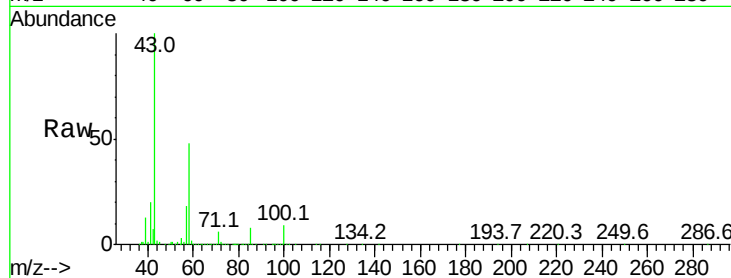
Ion 58.10 (57.80 to 58.80): VL0





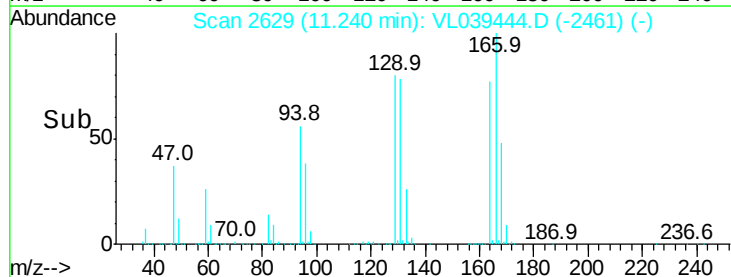
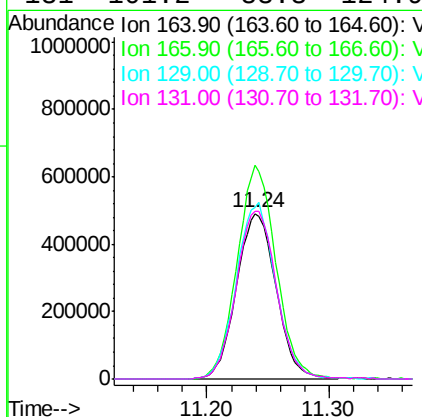
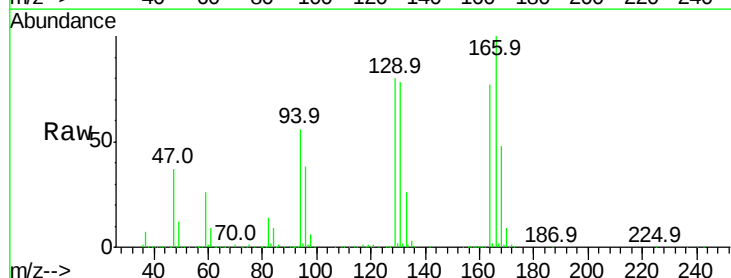
#51
2-Hexanone
Concen: 9.96 ppbv
RT: 10.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VL0712ABS01
Acq: 12 Jul 2022 11:48

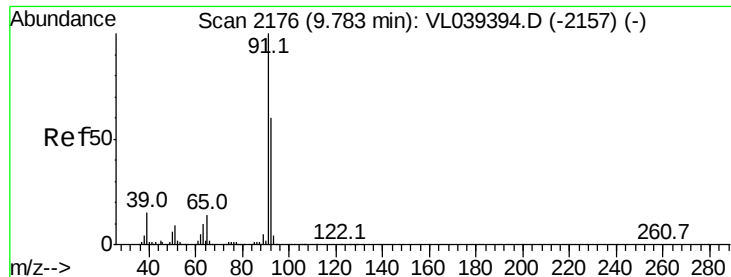
Tgt Ion: 43 Resp: 2233717
Ion Ratio Lower Upper
43 100
58 49.3 38.4 57.6
98 0.2 0.3 0.5#



#52
Tetrachloroethene
Concen: 9.07 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. 0.04 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

Tgt Ion: 164 Resp: 1100130
Ion Ratio Lower Upper
164 100
166 129.2 102.2 153.2
129 103.6 85.8 128.8
131 101.2 83.3 124.9





#53

Toluene

Concen: 9.60 ppbv

RT: 9.83

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

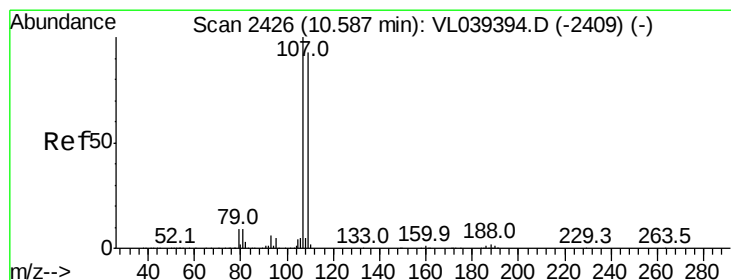
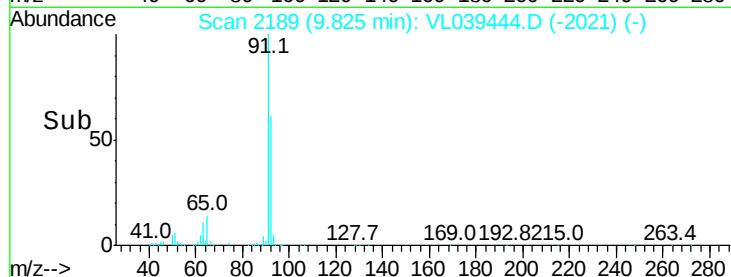
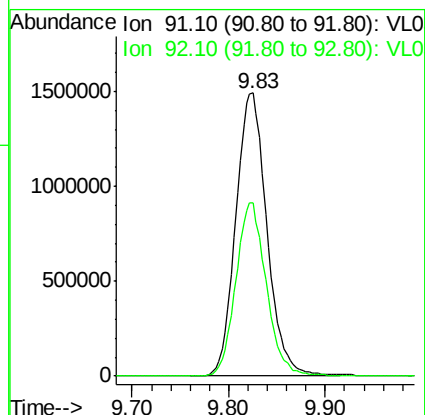
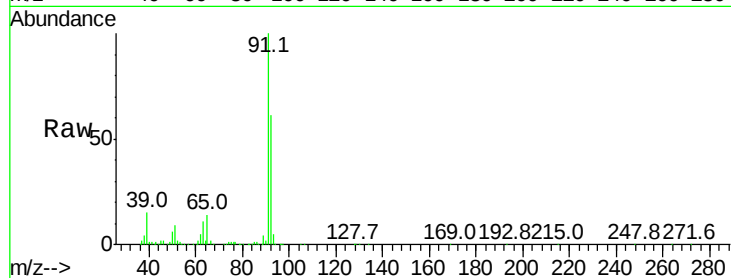
Acq: 12 Jul 2022 11:48

Tgt Ion: 91 Resp: 3339032

Ion Ratio Lower Upper

91 100

92 60.0 48.2 72.2



#54

1,2-Dibromoethane

Concen: 9.68 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. 0.04 min

Lab File: VL039444.D

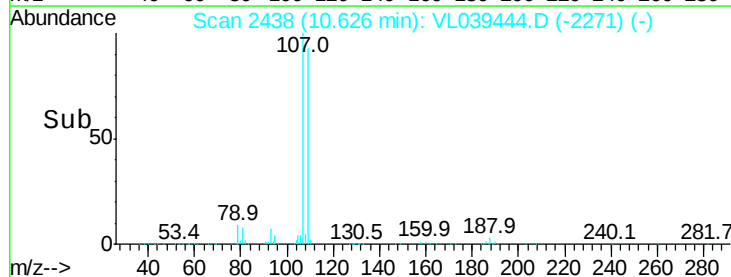
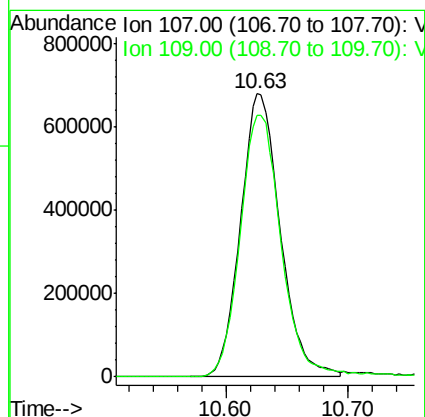
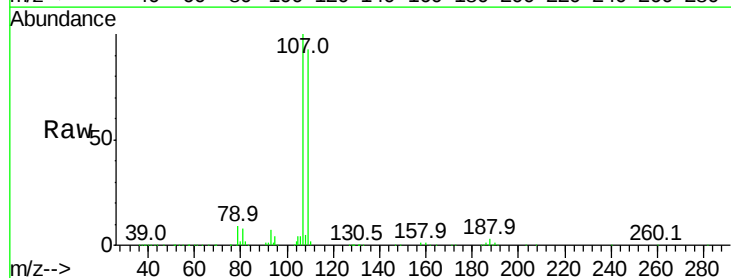
Acq: 12 Jul 2022 11:46

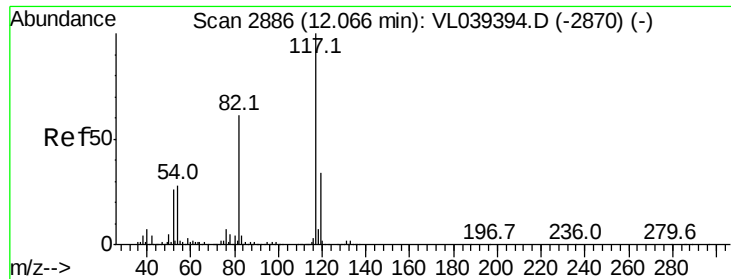
Tgt Ion: 107 Resp: 1521454

Ion Ratio Lower Upper

107 100

109 92.5 74.8 112.2

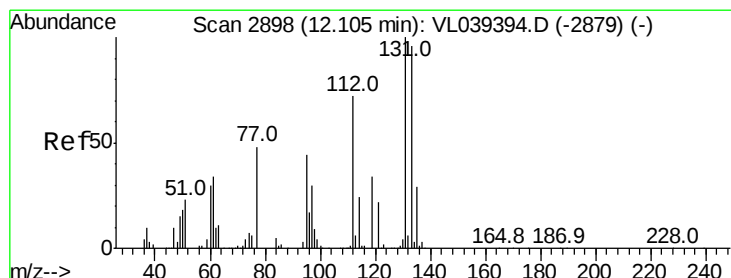
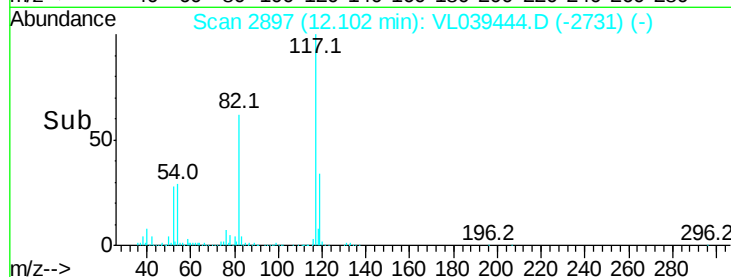
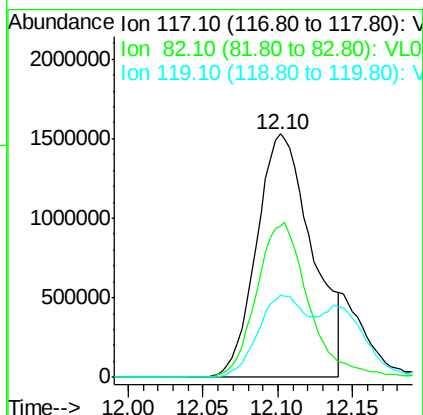
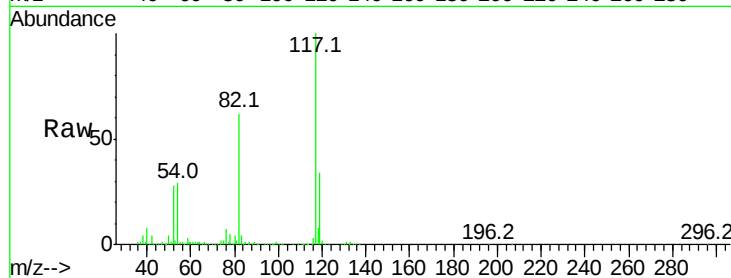




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.10 min
 Instrument: MSVOA_1
 Delta R.T.: 0.04 min
 Lab File: VL0712ABS01
 ClientSampleId:
 Acq: 12 Jul 2022 11:48

Tgt Ion: 117 Resp: 3926999

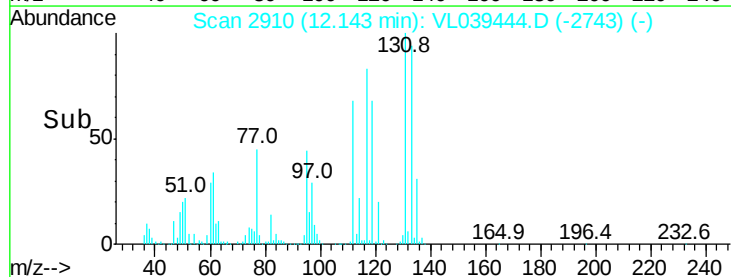
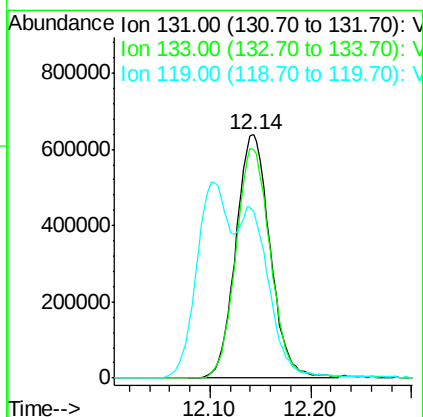
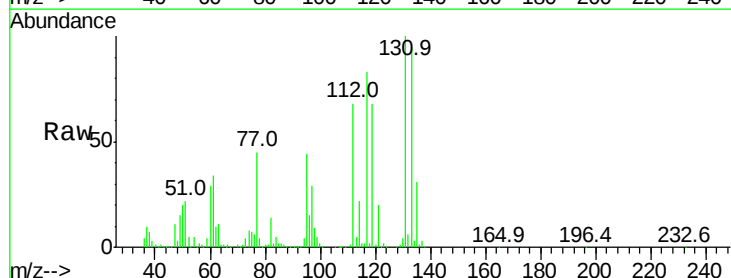
Ion	Ratio	Lower	Upper
117	100		
82	60.4	50.8	76.2
119	30.0	24.1	36.1

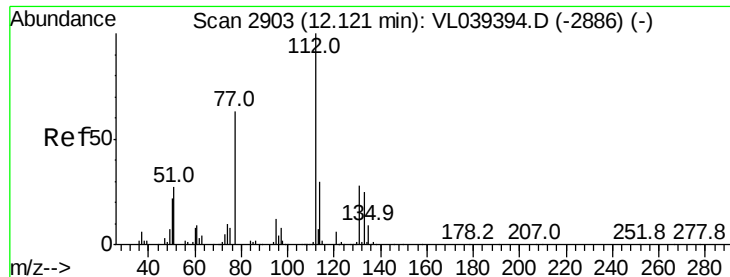


#56
 1,1,1,2-Tetrachloroethane
 Concen: 8.69 ppbv
 RT: 12.14 min Scan# 2910
 Delta R.T.: 0.04 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion: 131 Resp: 1507615

Ion	Ratio	Lower	Upper
131	100		
133	95.9	76.8	115.2
119	142.1	46.2	69.4#





#57

Chlorobenzene

Concen: 8.31 ppbv

RT: 12.17

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

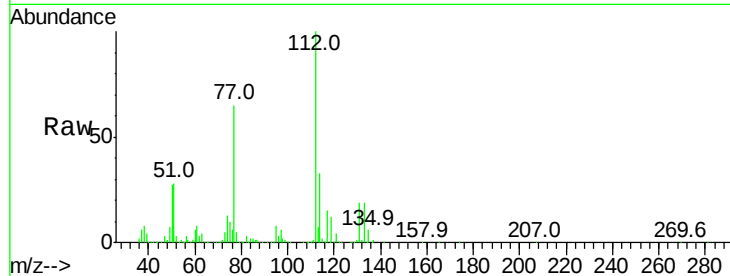
Tgt Ion: 112 Resp: 2531356

Ion Ratio Lower Upper

112 100

77 64.6 51.0 76.4

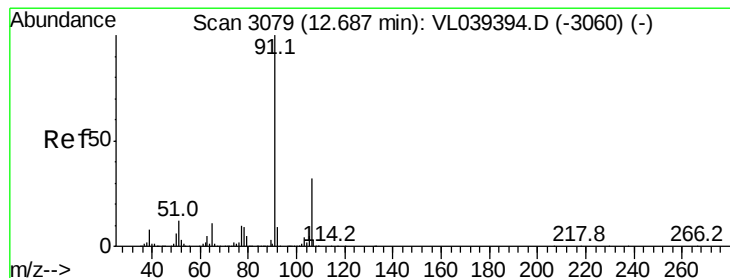
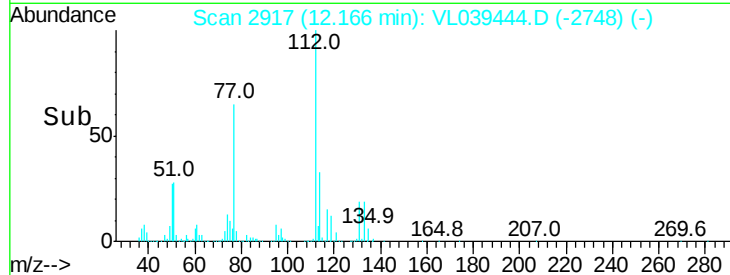
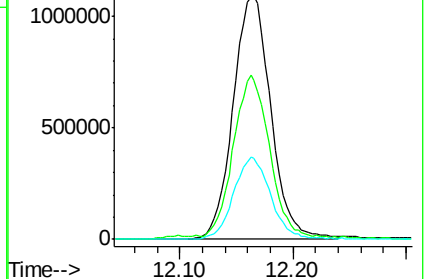
114 33.3 27.5 33.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.75 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. 0.04 min

Lab File: VL039444.D

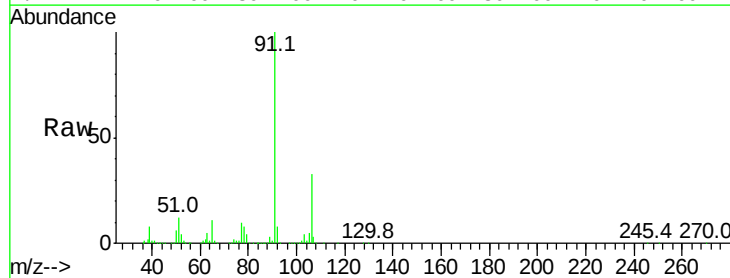
Acq: 12 Jul 2022 11:46

Tgt Ion: 91 Resp: 4435611

Ion Ratio Lower Upper

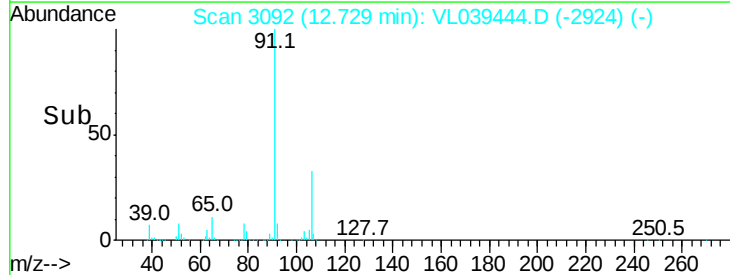
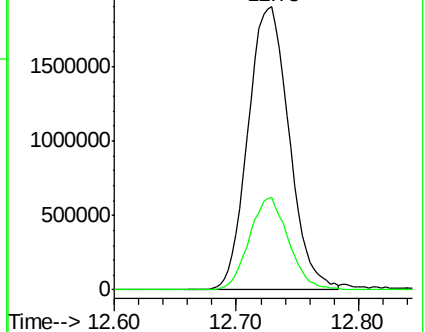
91 100

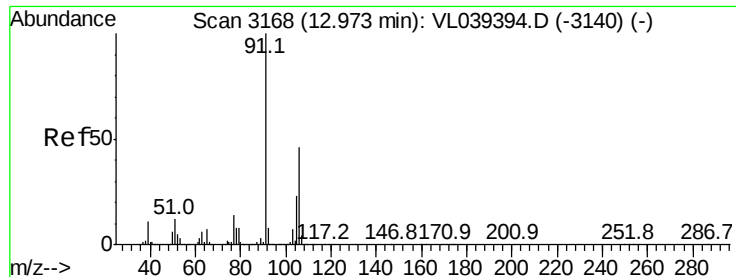
106 33.0 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

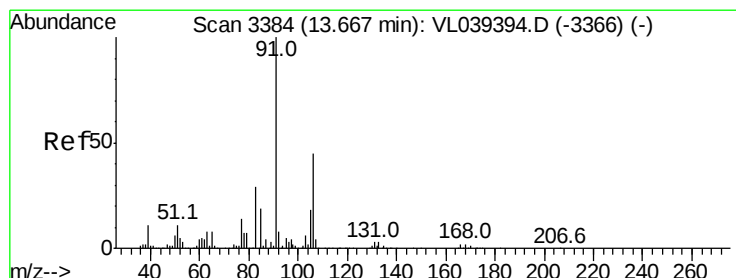
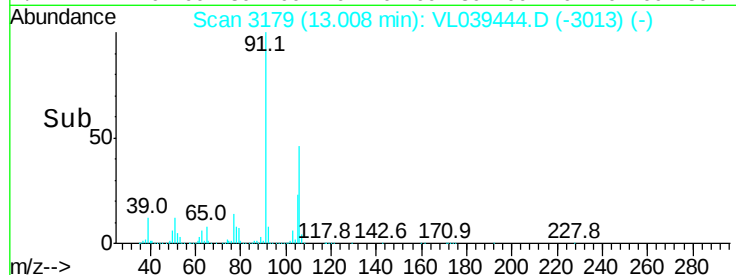
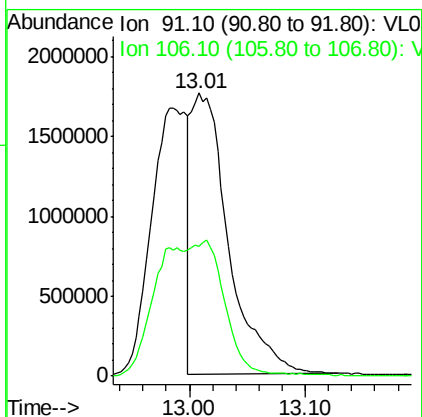
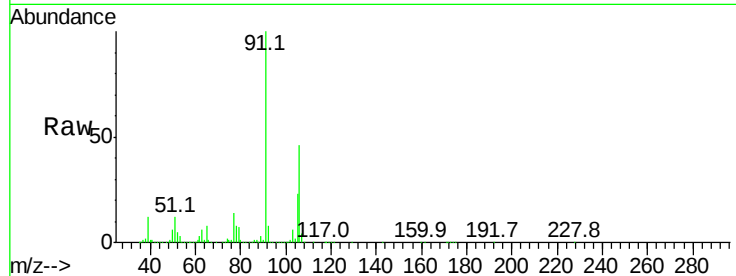
Ion 106.10 (105.80 to 106.80): V





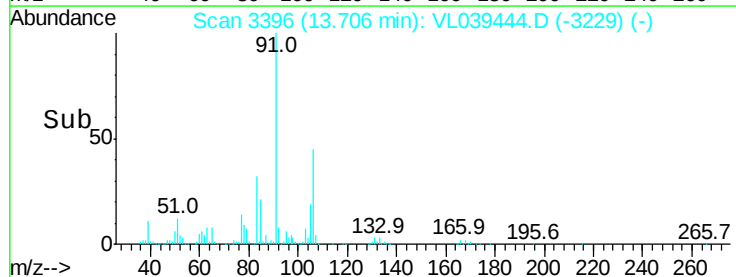
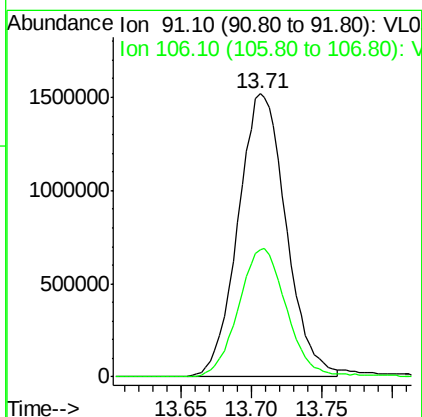
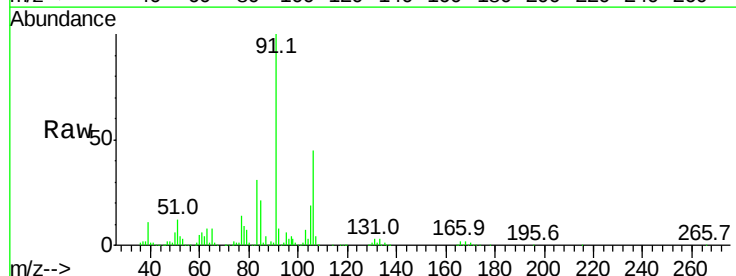
#59
m/p-Xylene
Concen: 8.81 ppbv
RT: 13.01 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL0712ABS01
Acq: 12 Jul 2022 11:48

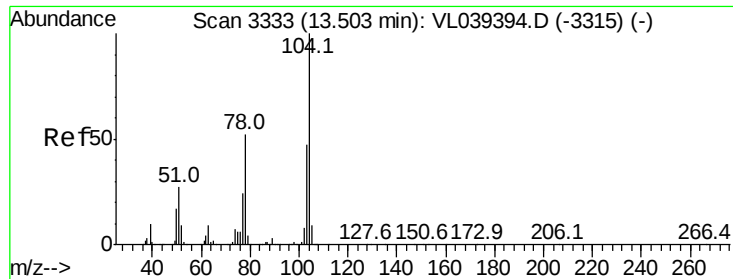
Tgt Ion: 91 Resp: 3940368
Ion Ratio Lower Upper
91 100
106 87.1 35.4 53.2#



#60
o-Xylene
Concen: 8.50 ppbv
RT: 13.71 min Scan# 3396
Delta R.T. 0.04 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

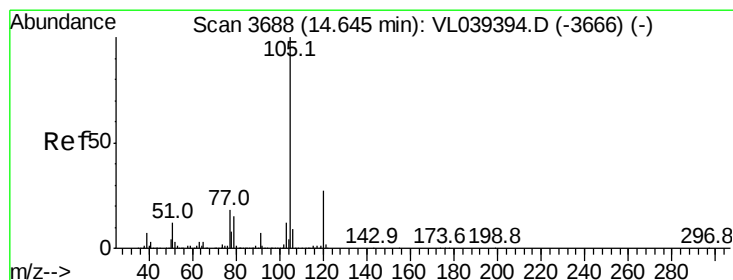
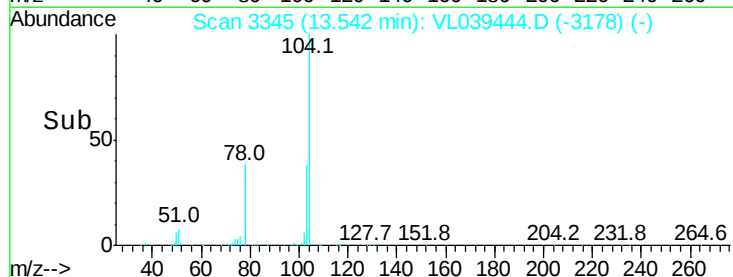
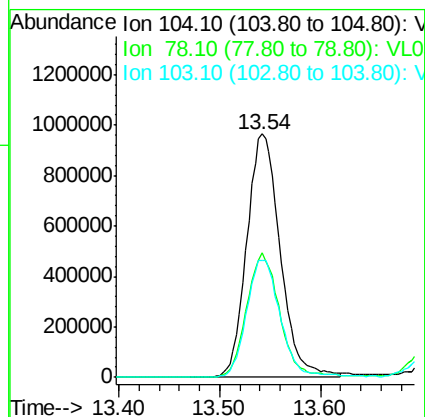
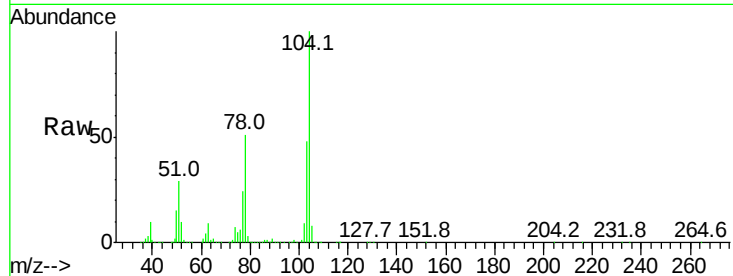
Tgt Ion: 91 Resp: 3598750
Ion Ratio Lower Upper
91 100
106 46.5 22.4 67.3





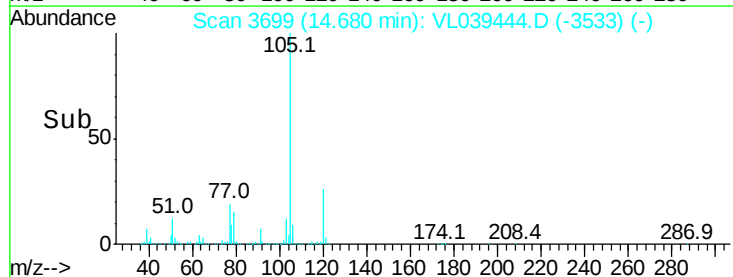
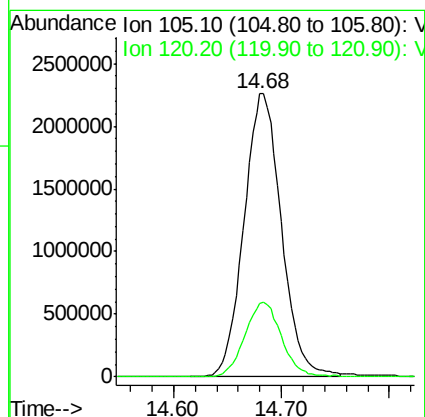
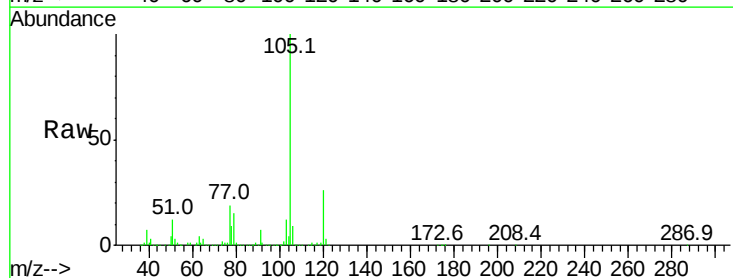
#61
Styrene
Concen: 9.65 ppbv
RT: 13.54
Delta R.T. MSVOA_L
Lab File: ClientSampleId : VL0712ABS01
Acq: 12 Jul 2022 11:48

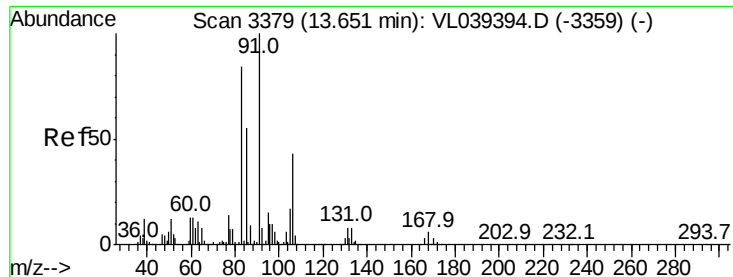
Tgt Ion:104 Resp: 2212176
Ion Ratio Lower Upper
104 100
78 50.9 41.2 61.8
103 49.3 38.7 58.1



#62
Isopropylbenzene
Concen: 8.44 ppbv
RT: 14.68 min Scan# 3699
Delta R.T. 0.04 min
Lab File: VL039444.D
Acq: 12 Jul 2022 11:46

Tgt Ion:105 Resp: 5443601
Ion Ratio Lower Upper
105 100
120 26.3 20.7 31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 7.89 ppbv

RT: 13.69

Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 12 Jul 2022 11:48

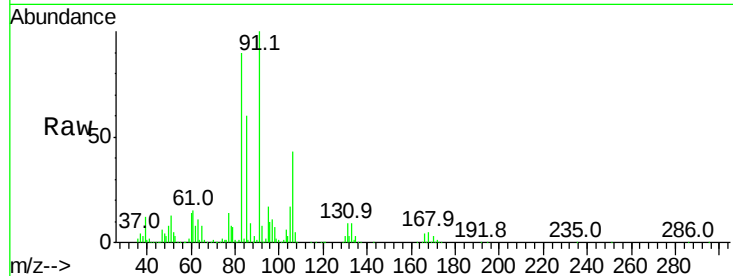
Tgt Ion: 83 Resp: 1749792

Ion Ratio Lower Upper

83 100

131 10.6 5.3 15.8

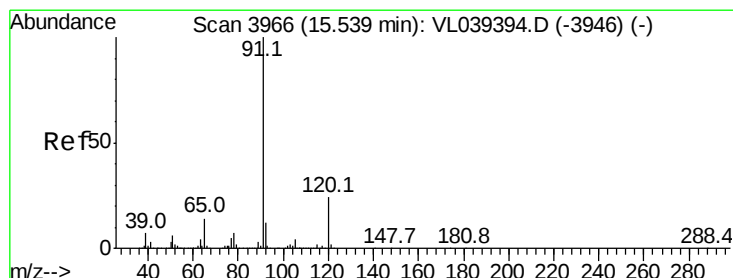
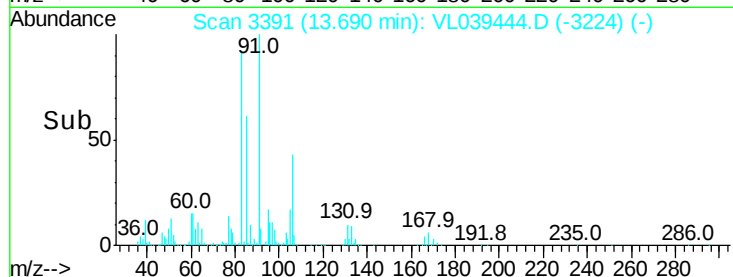
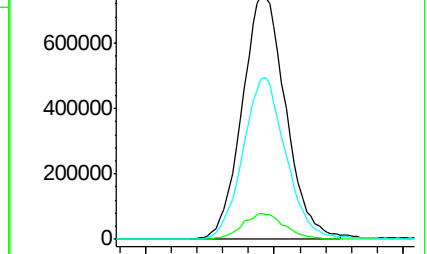
85 66.4 33.1 99.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.86 ppbv

RT: 15.57 min Scan# 3977

Delta R.T. 0.04 min

Lab File: VL039444.D

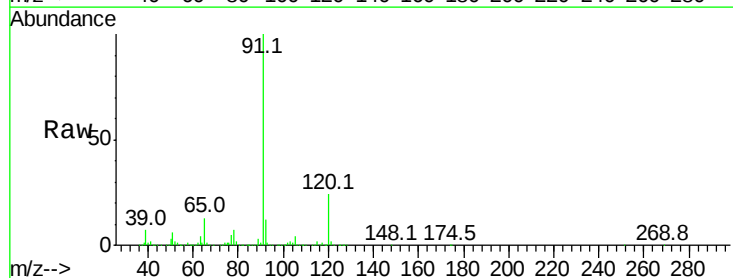
Acq: 12 Jul 2022 11:46

Tgt Ion: 120 Resp: 1447215

Ion Ratio Lower Upper

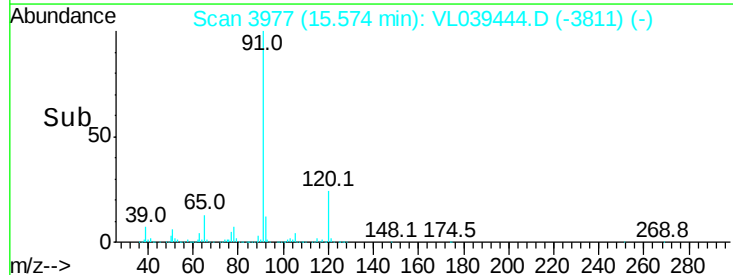
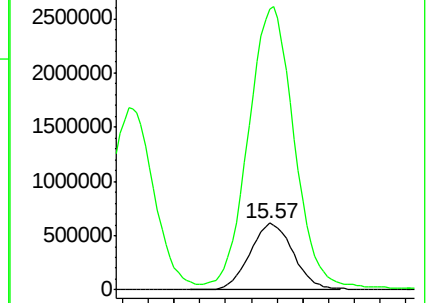
120 100

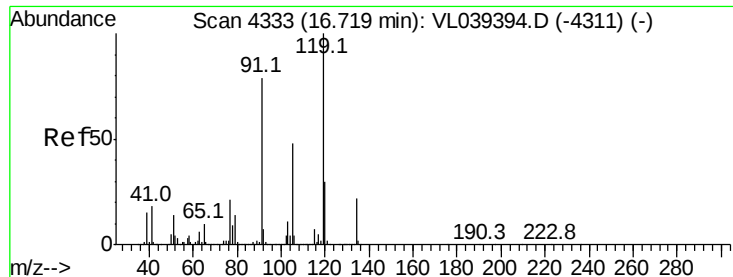
91 452.5 367.2 550.8



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.39 ppbv

RT: 16.76

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

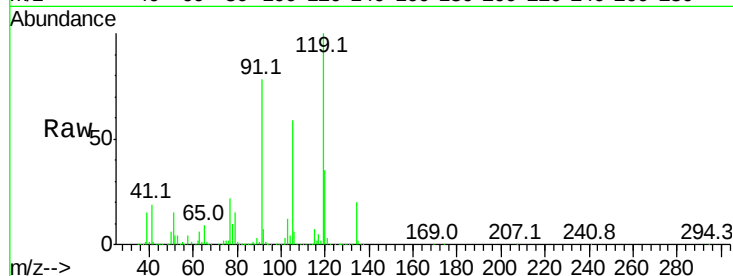
Tgt Ion: 119 Resp: 4995126

Ion Ratio Lower Upper

119 100

91 78.7 63.4 95.2

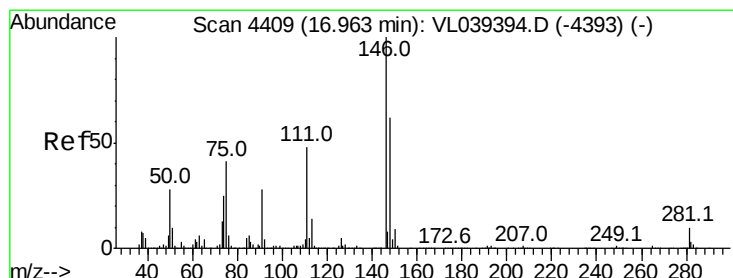
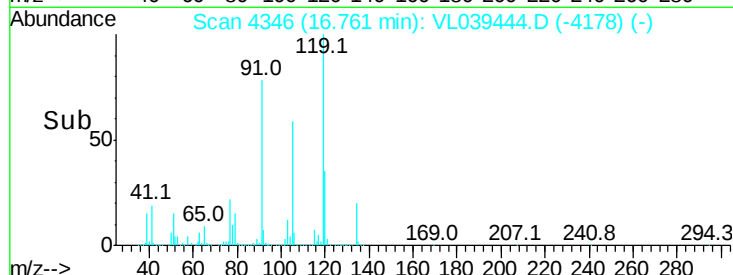
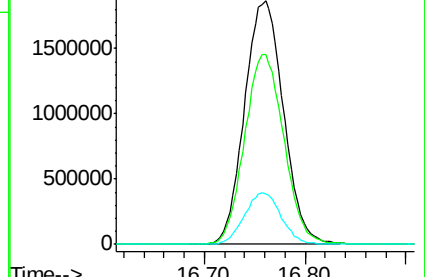
134 19.9 15.9 23.9



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 9.65 ppbv

RT: 17.00 min Scan# 4421

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

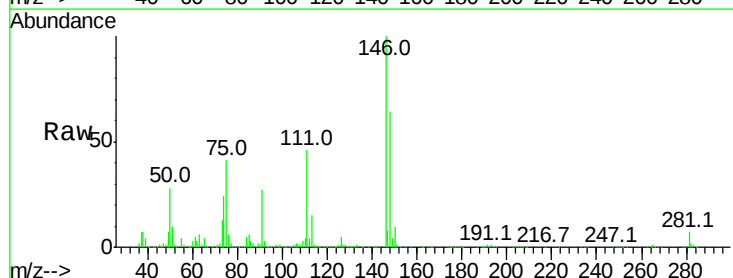
Tgt Ion: 91 Resp: 546342

Ion Ratio Lower Upper

91 100

126 17.3 13.1 19.7

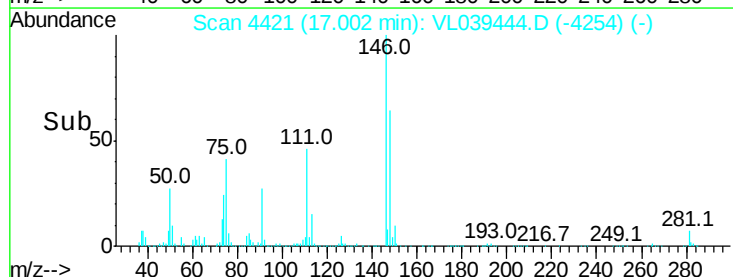
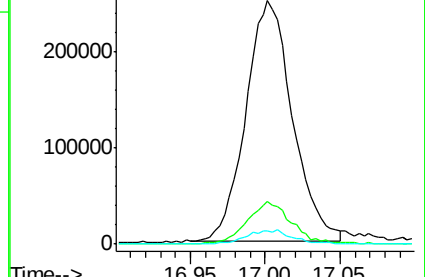
128 5.9 4.4 6.6

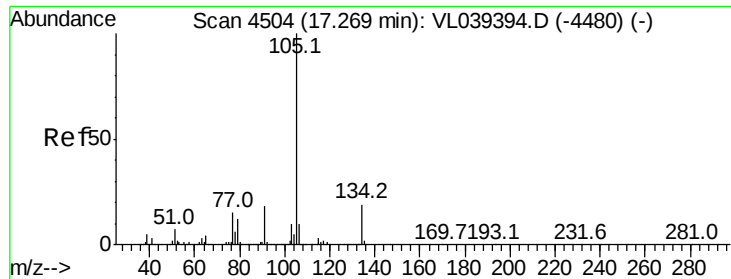


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.48 ppbv

RT: 17.31

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

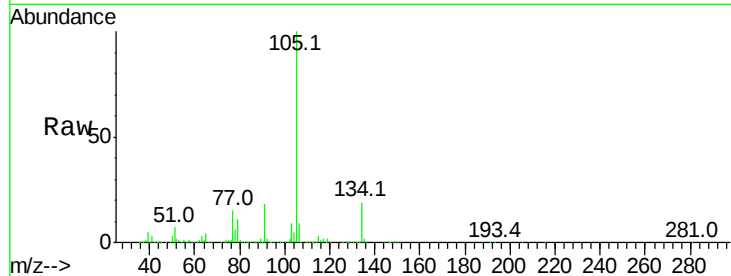
Acq: 12 Jul 2022 11:48

Tgt Ion: 105 Resp: 6800903

Ion Ratio Lower Upper

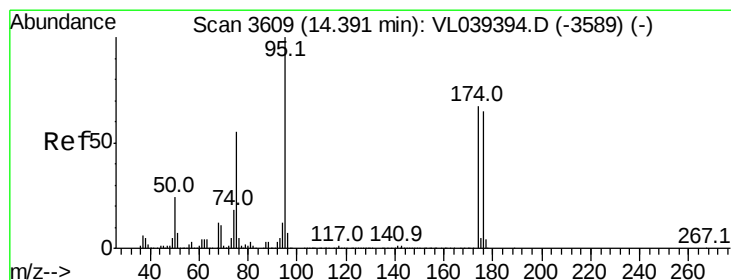
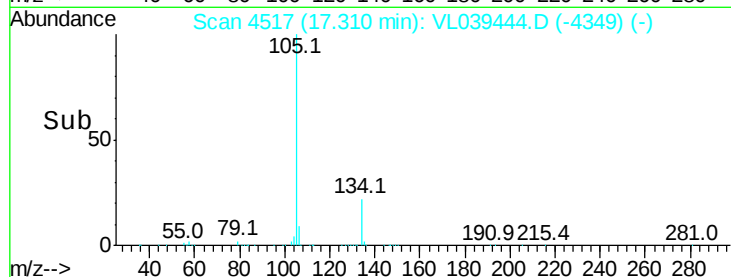
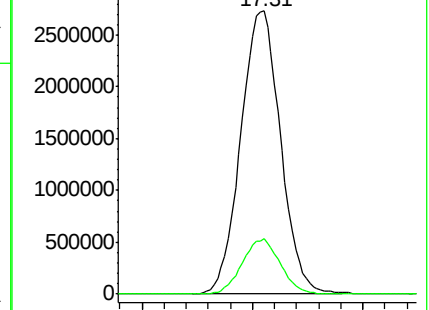
105 100

134 18.9 14.8 22.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.02 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

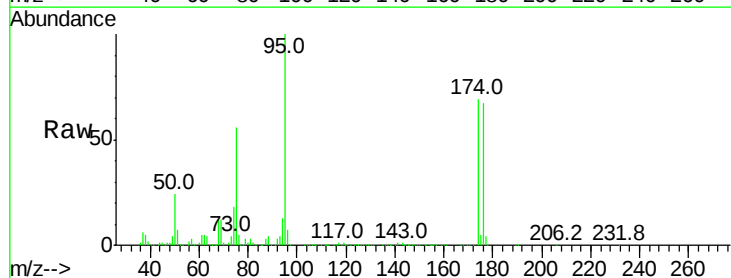
Tgt Ion: 95 Resp: 2918857

Ion Ratio Lower Upper

95 100

174 69.5 55.9 83.9

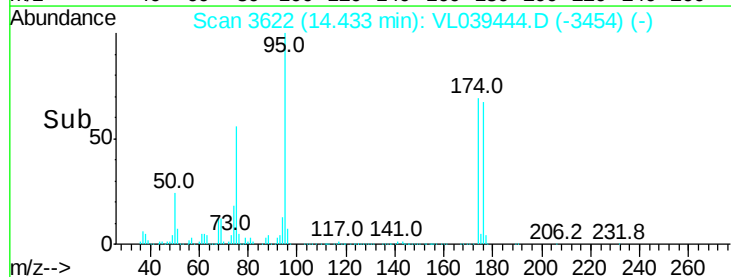
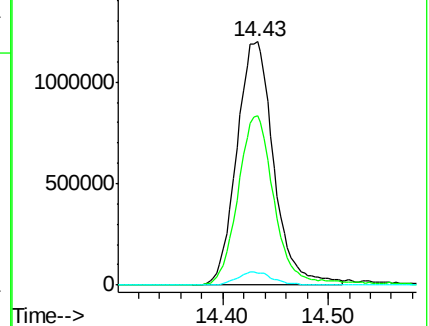
175 5.3 4.2 6.4

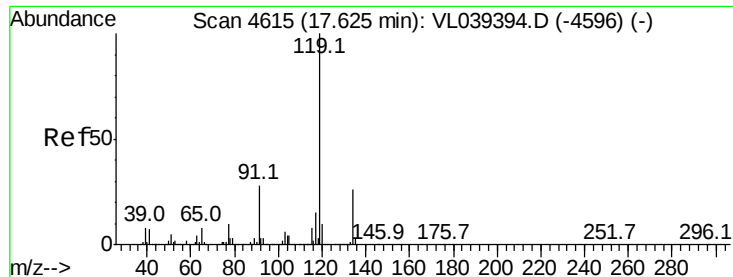


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

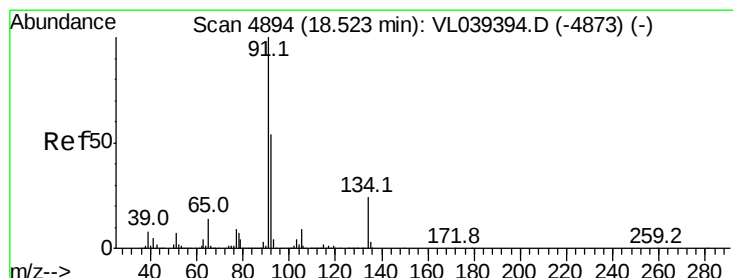
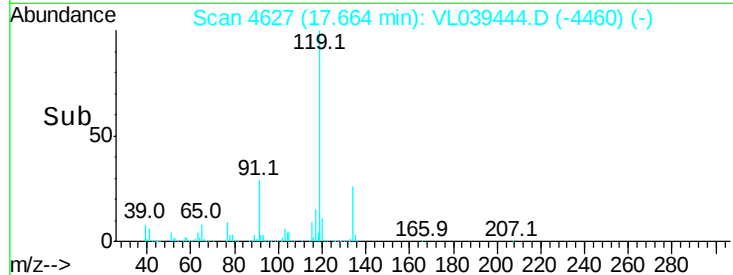
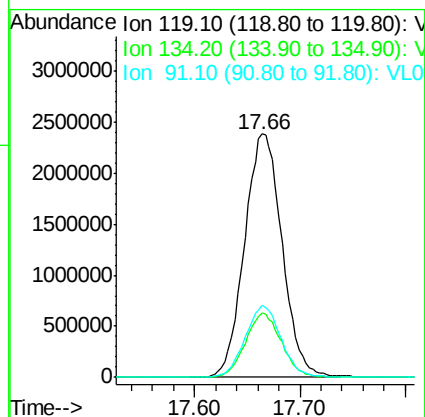
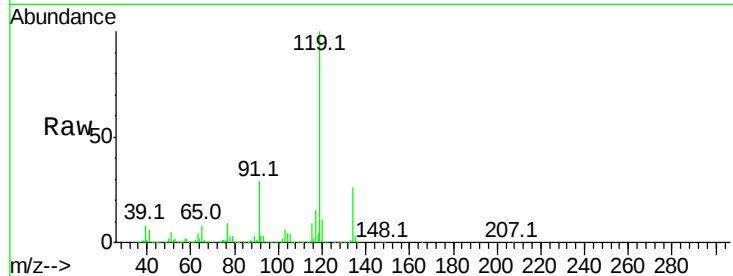
Ion 175.00 (174.70 to 175.70): V





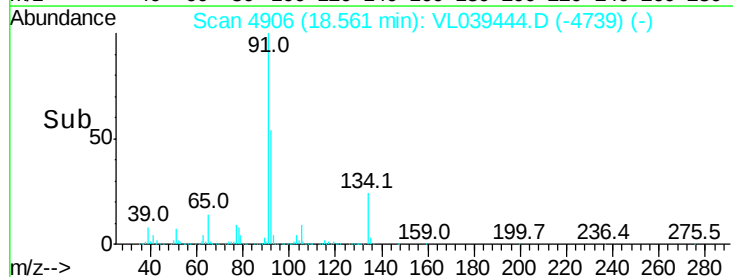
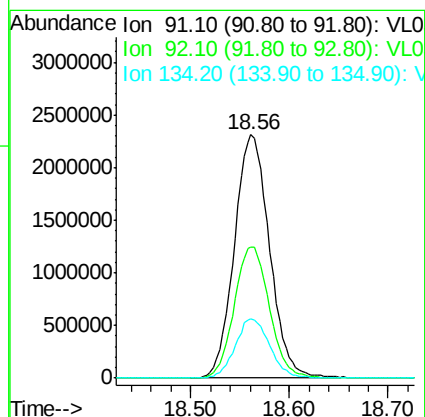
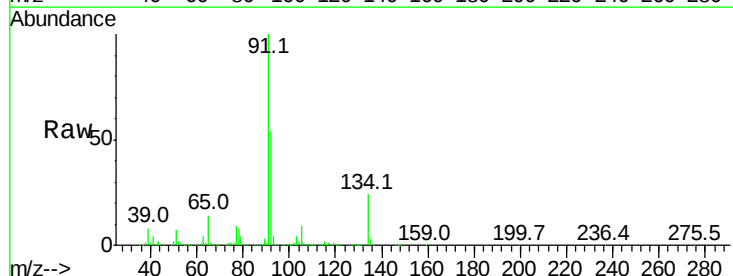
#69
 p-Isopropyltoluene
 Concen: 8.66 ppbv
 RT: 17.66 min
 Delta R.T. 0.04 min
 Lab File: VL0712ABS01
 Acq: 12 Jul 2022 11:48

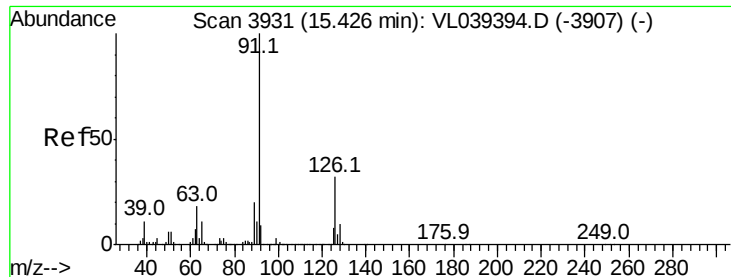
Tgt Ion:	119	Resp:	5895393
Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.3	30.5
91	28.3	22.9	34.3



#70
 n-Butylbenzene
 Concen: 8.65 ppbv
 RT: 18.56 min Scan# 4906
 Delta R.T. 0.04 min
 Lab File: VL039444.D
 Acq: 12 Jul 2022 11:46

Tgt Ion:	91	Resp:	5718801
Ion	Ratio	Lower	Upper
91	100		
92	54.1	43.4	65.2
134	24.0	18.9	28.3





#71

2-Chlorotoluene

Concen: 8.68 ppbv

RT: 15.46

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

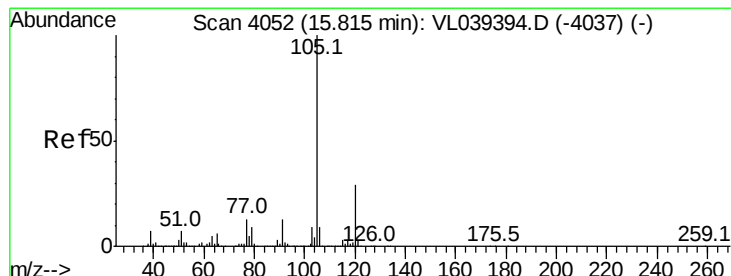
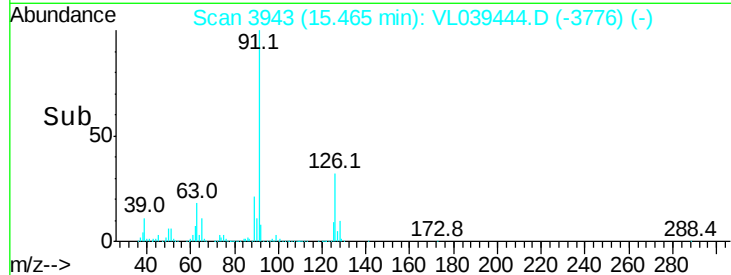
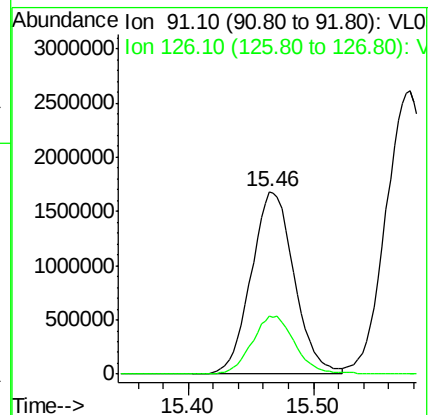
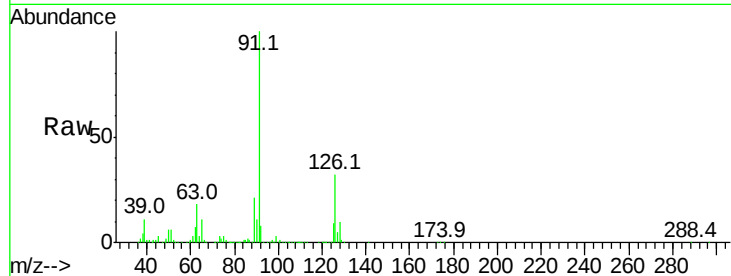
Acq: 12 Jul 2022 11:46

Tgt Ion: 91 Resp: 4002762

Ion Ratio Lower Upper

91 100

126 32.6 13.0 51.8



#72

4-Ethyltoluene

Concen: 9.03 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

Tgt Ion: 105 Resp: 4494812

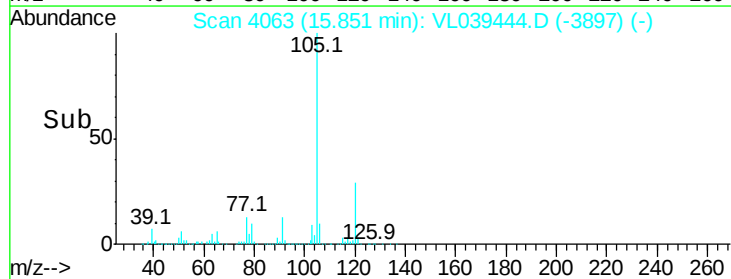
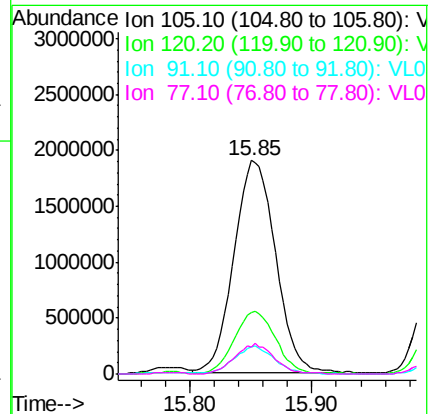
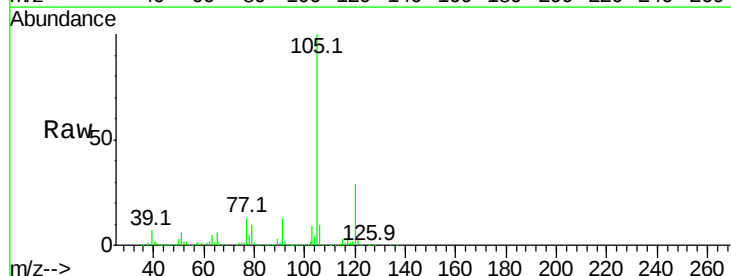
Ion Ratio Lower Upper

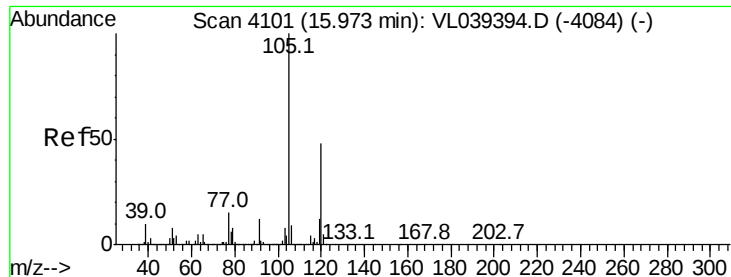
105 100

120 29.7 24.2 36.2

91 12.6 10.2 15.4

77 13.5 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 8.84 ppbv

RT: 16.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

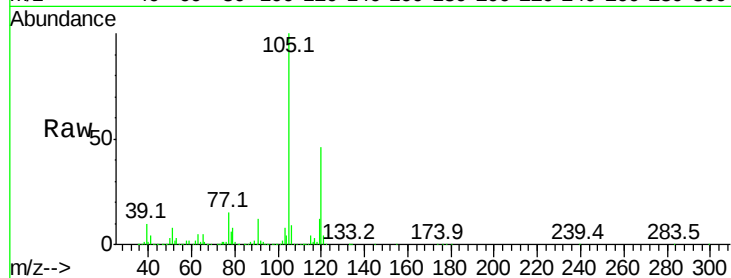
Acq: 12 Jul 2022 11:48

Tgt Ion:105 Resp: 4038707

Ion Ratio Lower Upper

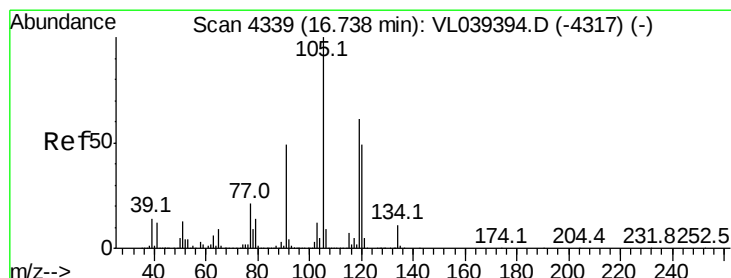
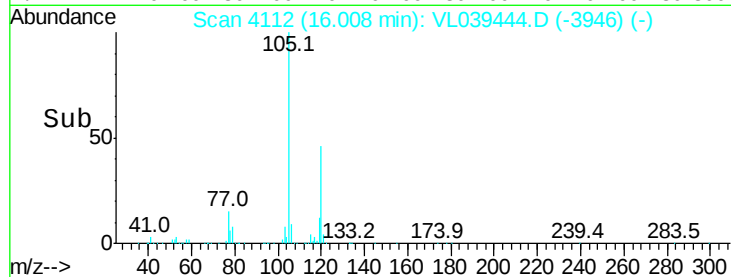
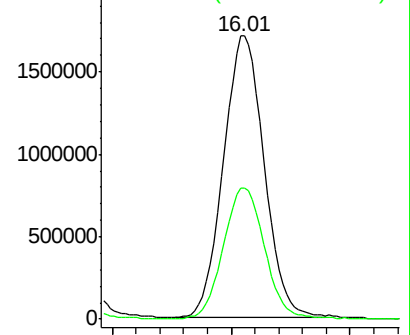
105 100

120 46.4 38.2 57.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.61 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

Tgt Ion:105 Resp: 4351480

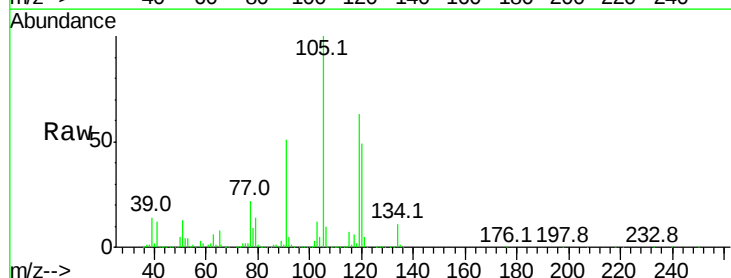
Ion Ratio Lower Upper

105 100

120 48.9 39.5 59.3

91 50.5 39.2 58.8

77 22.1 17.2 25.8

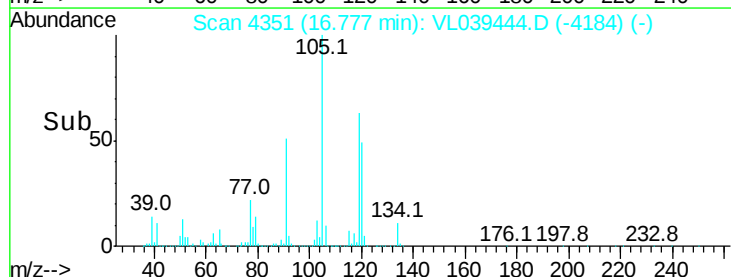
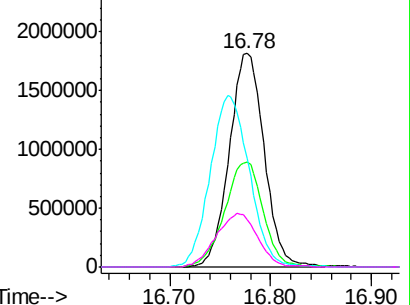


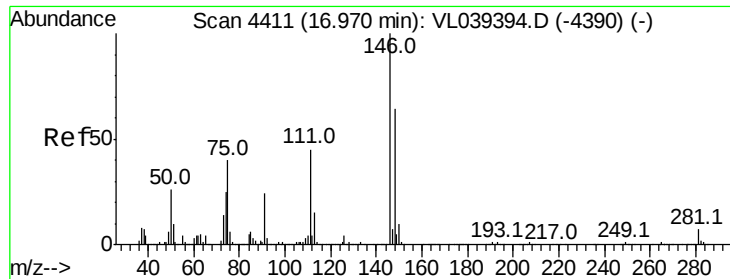
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.65 ppbv

RT: 17.01 min

Delta R.T. MSVOA_1

Lab File: ClientSampled: VL0712ABS01

Acq: 12 Jul 2022 11:48

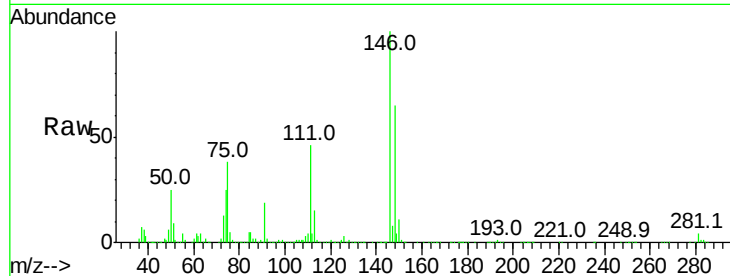
Tgt Ion:146 Resp: 2610262

Ion Ratio Lower Upper

146 100

111 45.6 22.9 68.7

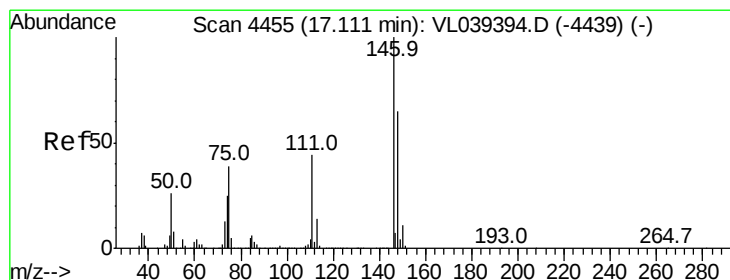
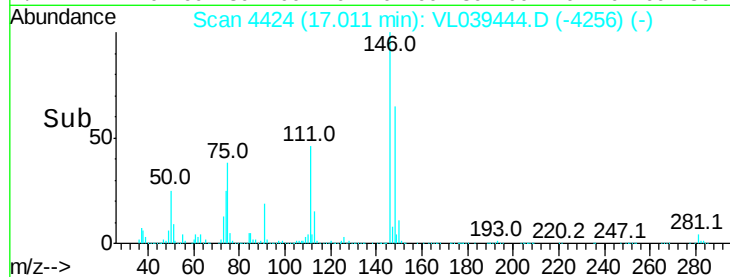
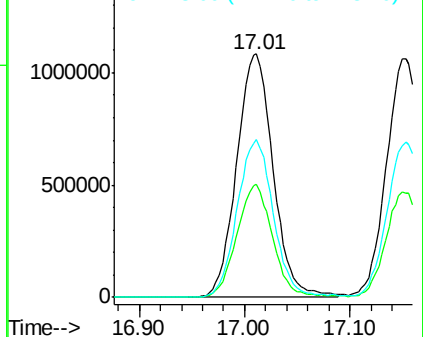
148 64.4 32.1 96.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.45 ppbv

RT: 17.15 min Scan# 4467

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

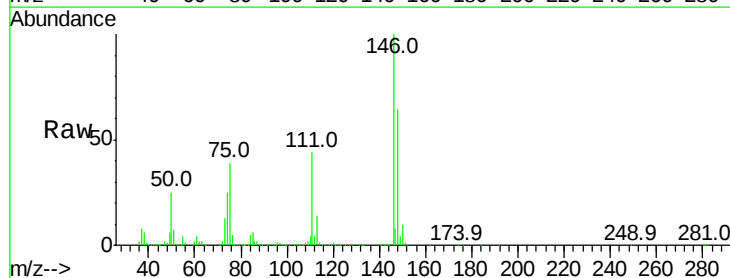
Tgt Ion:146 Resp: 2527512

Ion Ratio Lower Upper

146 100

111 46.2 22.9 68.8

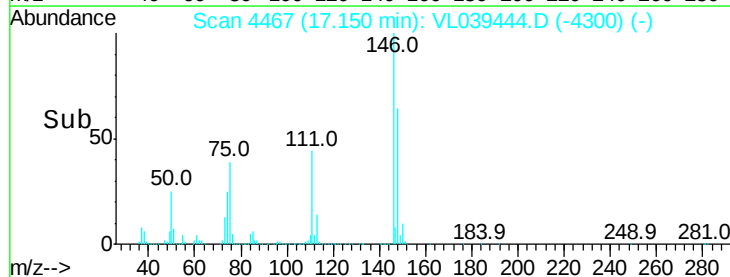
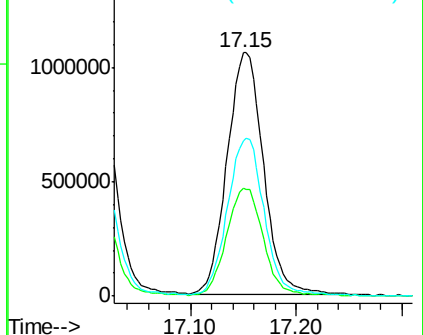
148 66.7 33.6 100.8

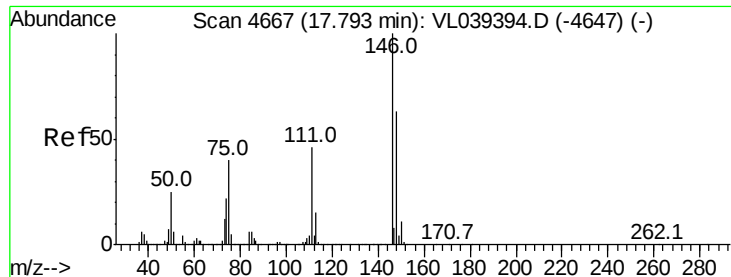


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 8.42 ppbv

RT: 17.83

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VL0712ABS01

Acq: 12 Jul 2022 11:48

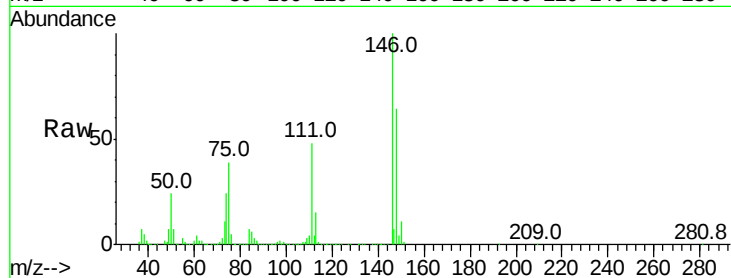
Tgt Ion:146 Resp: 2518933

Ion Ratio Lower Upper

146 100

111 47.3 23.8 71.5

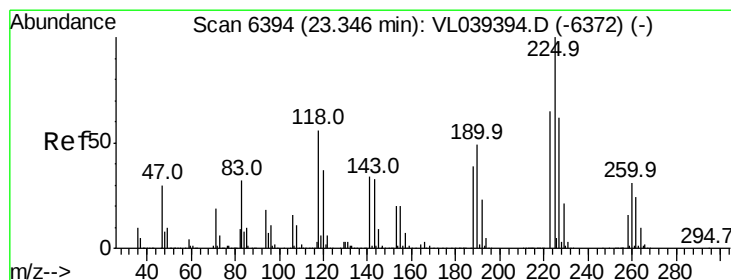
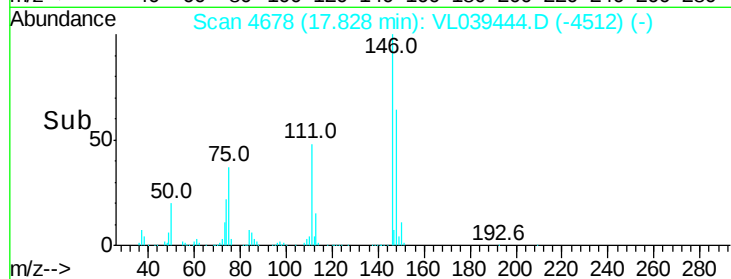
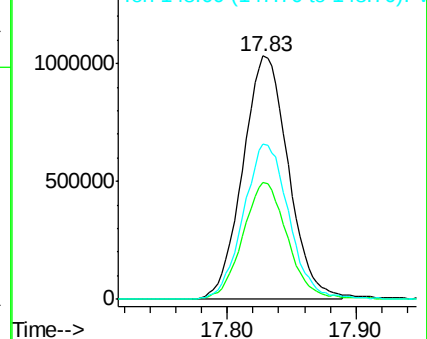
148 64.4 32.3 96.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 7.38 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

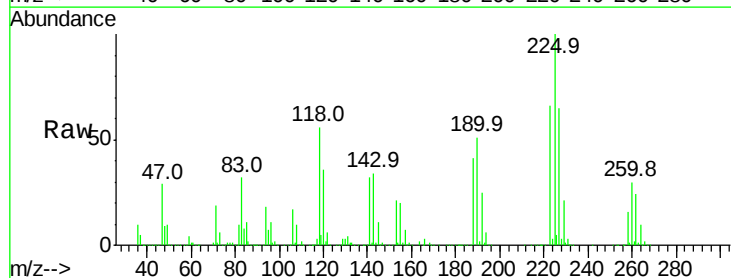
Tgt Ion:225 Resp: 1773873

Ion Ratio Lower Upper

225 100

223 64.6 51.8 77.6

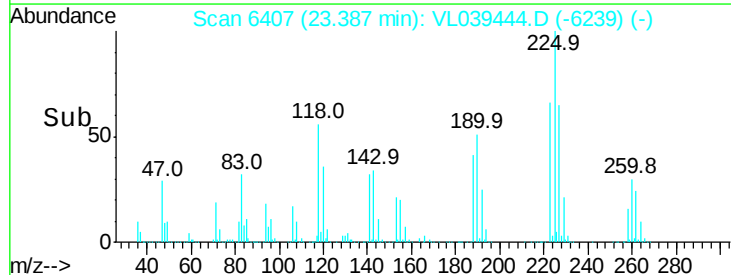
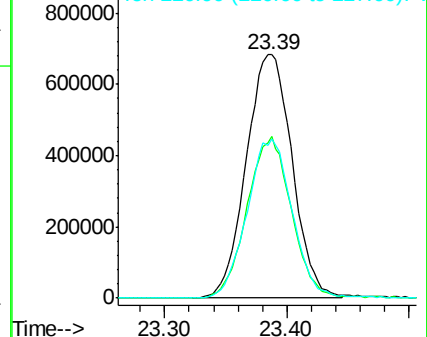
227 64.9 51.4 77.2

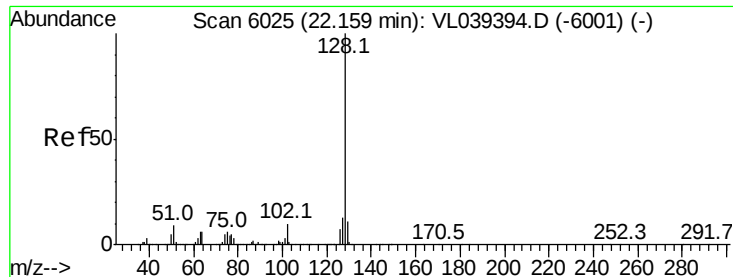


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.02 ppbv

RT: 22.21 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 12 Jul 2022 11:48

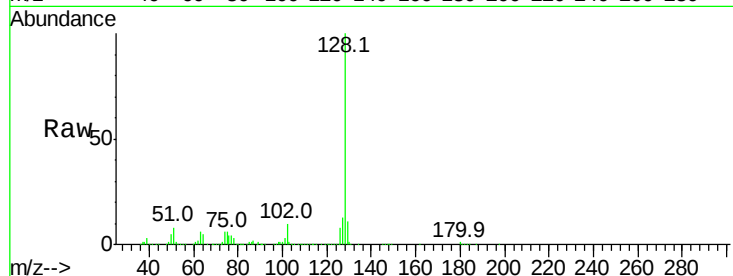
Tgt Ion:128 Resp: 3488534

Ion Ratio Lower Upper

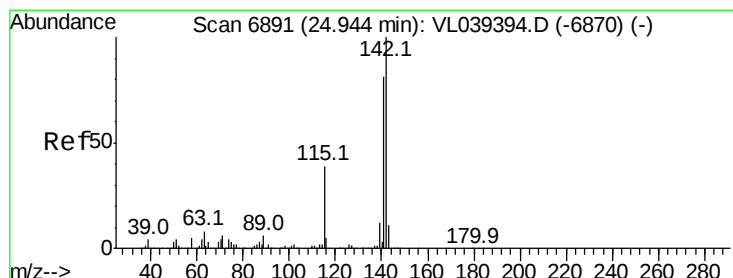
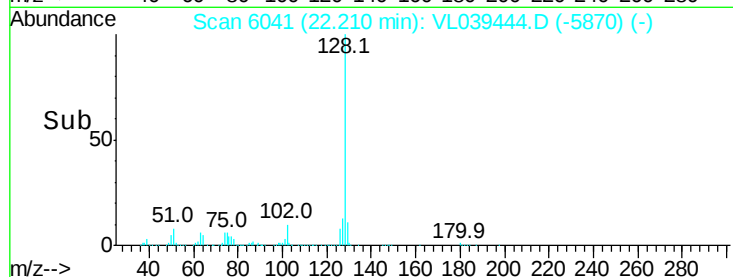
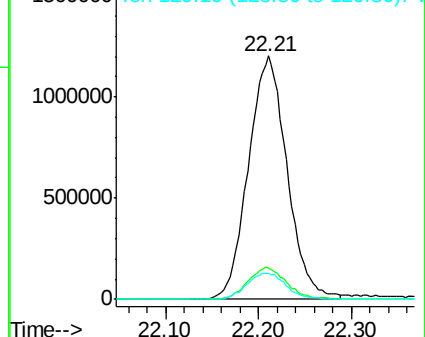
128 100

127 13.0 10.6 15.8

129 10.9 8.8 13.2



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.24 ppbv

RT: 24.98 min Scan# 6902

Delta R.T. 0.04 min

Lab File: VL039444.D

Acq: 12 Jul 2022 11:46

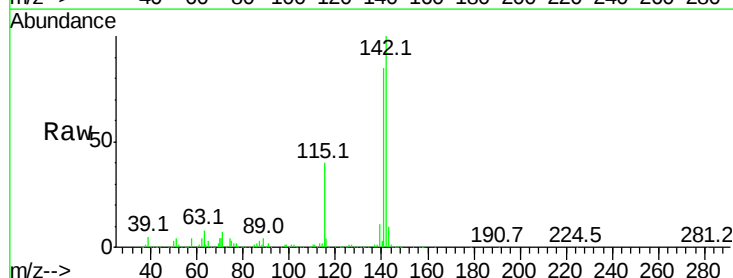
Tgt Ion:142 Resp: 1212707

Ion Ratio Lower Upper

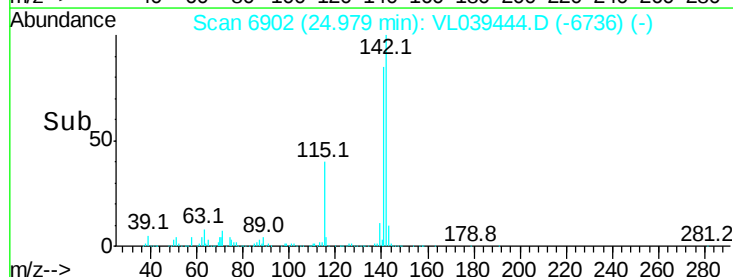
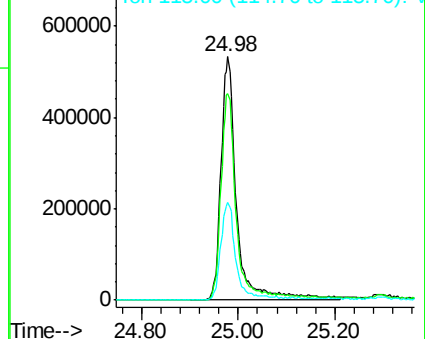
142 100

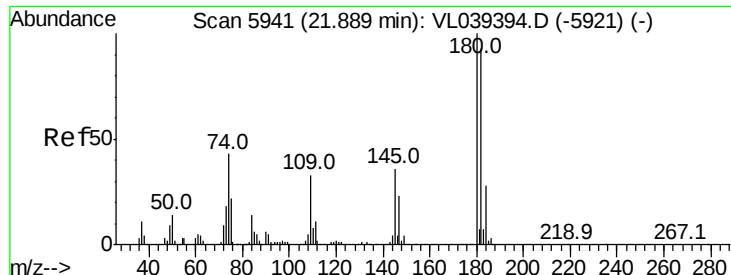
141 82.0 68.9 103.3

115 39.1 30.0 45.0



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 8.83 ppbv

RT: 21.94

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

VL0712ABS01

Acq: 12 Jul 2022 11:48

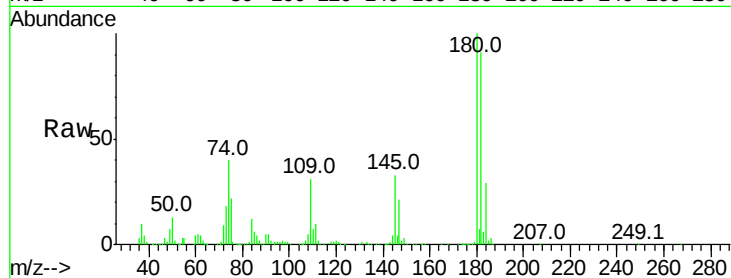
Tgt Ion:180 Resp: 2001751

Ion Ratio Lower Upper

180 100

182 95.2 77.1 115.7

184 30.5 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

