

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036957.D
 Acq On : 18 May 2021 6:25
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

Quant Time: May 18 07:31:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 07:31:20 2021
 QLast Update : Tue May 18 07:31:20 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1331068	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3946869	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	4633658	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2900281	8.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	1916463	8.487	ppbv 100
3) Chlorodifluoromethane	2.97	51	2178449	8.933	ppbv 99
4) Chloromethane	3.12	50	770527	9.286	ppbv 99
5) Vinyl Chloride	3.24	62	823420	9.078	ppbv 97
6) Bromomethane	3.46	94	470604	10.319	ppbv 99
7) Chloroethane	3.54	64	294517	10.000	ppbv 99
8) Dichlorotetrafluoroethane	3.17	85	1918055	9.047	ppbv 99
9) Propene	2.99	41	803172	9.198	ppbv 100
10) Heptane	8.10	43	1990755	9.148	ppbv 98
11) Trichlorofluoromethane	3.93	101	1935319	9.260	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1366405	9.178	ppbv 100
13) Ethanol	3.59	45	77963	6.060	ppbv 93
14) Bromoethene	3.72	108	624282	9.797	ppbv 98
15) Acetone	3.83	43	1028733	8.153	ppbv 97
16) 1,3-Butadiene	3.31	39	798805	9.431	ppbv 98
17) tert-Butyl alcohol	4.27	59	1271740	10.183	ppbv 99
18) 1,1-Dichloroethene	4.27	96	644205	9.489	ppbv 96
19) Isopropyl Alcohol	3.95	45	679683	9.898	ppbv 98
20) Methylene Chloride	4.32	84	537558	7.800	ppbv 99
21) Allyl Chloride	4.39	41	977552	9.505	ppbv 99
22) trans-1,2-Dichloroethene	4.86	96	631055	10.421	ppbv 99
23) Vinyl Acetate	5.05	43	2082715	9.624	ppbv 98
24) 1,1-Dichloroethane	4.99	63	1352911	8.834	ppbv 99
25) Ethyl Acetate	5.66	43	2992826	9.263	ppbv 100
26) Hexane	5.66	57	1448564	8.655	ppbv 100
27) Carbon Disulfide	4.53	76	1588779	9.419	ppbv 99
28) Methyl tert-Butyl Ether	5.01	73	1738641	8.667	ppbv 100
29) Chloroform	5.73	83	2163117	9.148	ppbv 98
30) Cyclohexane	7.10	84	1286695	9.047	ppbv 99
31) cis-1,2-Dichloroethene	5.53	61	1426070	9.504	ppbv 98
32) 1,1,1-Trichloroethane	6.49	97	2248293	8.855	ppbv 99
34) 2-Butanone	5.22	43	1428385	9.939	ppbv 99
35) Carbon Tetrachloride	7.00	117	2317098	8.836	ppbv 99
36) Benzene	6.87	78	3106801	9.139	ppbv 99
37) 1,2-Dichloroethane	6.29	62	1596185	9.470	ppbv 100
38) Trichloroethene	7.81	130	1202063	8.265	ppbv 97
39) 1,2-Dichloropropane	7.59	63	1198164	9.149	ppbv 96
40) 1,4-Dioxane	7.81	88	280261	9.063	ppbv # 100
41) Tetrahydrofuran	6.03	42	785410	9.844	ppbv 100
42) Bromodichloromethane	7.77	83	2383987	9.349	ppbv 99
43) Methyl Methacrylate	7.99	69	1147714	9.795	ppbv 99

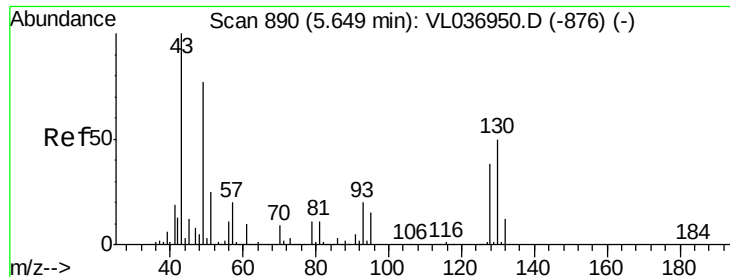
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036957.D
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	5047601	8.654	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1179194	13.172	ppbv	99
46) cis-1,3-Dichloropropene	8.68	75	1507629	12.521	ppbv	97
47) 1,1,2-Trichloroethane	9.45	97	1283969	9.367	ppbv	99
48) Dibromochloromethane	10.28	129	2212935	9.971	ppbv	99
49) Bromoform	13.02	173	1884173	10.431	ppbv	100
50) 4-Methyl-2-Pentanone	8.72	43	2205265	9.299	ppbv	100
51) 2-Hexanone	10.11	43	1196898	9.547	ppbv	99
52) Tetrachloroethene	11.20	164	1220608	9.029	ppbv	96
53) Toluene	9.78	91	3687332	9.115	ppbv	99
54) 1,2-Dibromoethane	10.58	107	1876213	9.628	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	1440689	7.389	ppbv	99
57) Chlorobenzene	12.12	112	2702622	7.522	ppbv	99
58) Ethyl Benzene	12.68	91	4819298	7.369	ppbv	98
59) m/p-Xylene	12.97	91	4185663	7.743	ppbv #	37
60) o-Xylene	13.67	91	3750651	7.275	ppbv	100
61) Styrene	13.50	104	2354153	8.105	ppbv	100
62) Isopropylbenzene	14.64	105	5314453	7.172	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	2608655	6.818	ppbv	100
64) n-propylbenzene	15.54	120	1459720	7.635	ppbv	100
65) tert-Butylbenzene	16.72	119	4711742	7.047	ppbv	100
66) Benzyl Chloride	16.96	91	351465	9.474	ppbv	99
67) sec-Butylbenzene	17.27	105	6472855	7.097	ppbv	100
69) p-Isopropyltoluene	17.63	119	5596055	7.136	ppbv	100
70) n-Butylbenzene	18.53	91	5412186	7.265	ppbv	100
71) 2-Chlorotoluene	15.43	91	3973456	7.425	ppbv	99
72) 4-Ethyltoluene	15.82	105	4689579	7.664	ppbv	100
73) 1,3,5-Trimethylbenzene	15.97	105	4198743	7.509	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	4305103	7.246	ppbv	98
75) 1,3-Dichlorobenzene	16.97	146	2700340	7.567	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	2634953	7.531	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	2616462	7.526	ppbv	100
78) Hexachloro-1,3-Butadiene	23.35	225	1933500	6.614	ppbv	99
79) Naphthalene	22.17	128	4044687	8.676	ppbv	100
80) Naphthalene, 2-methyl-	24.95	142	1330227	13.122	ppbv	96
81) 1,2,4-Trichlorobenzene	21.90	180	2287918	8.051	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036957.D

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ClientSampleId :

ICVVL051821

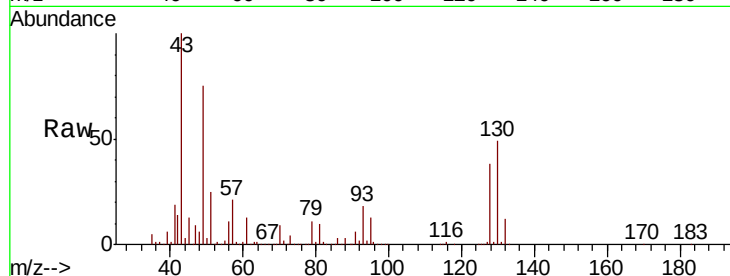
Tot Ion: 49 Resp: 1331068

Ion Ratio Lower Upper

49 100

128 55.3 26.9 80.7

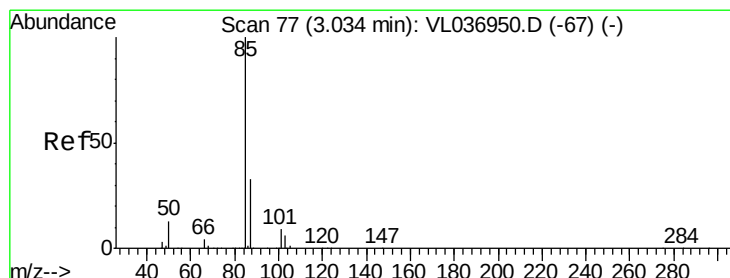
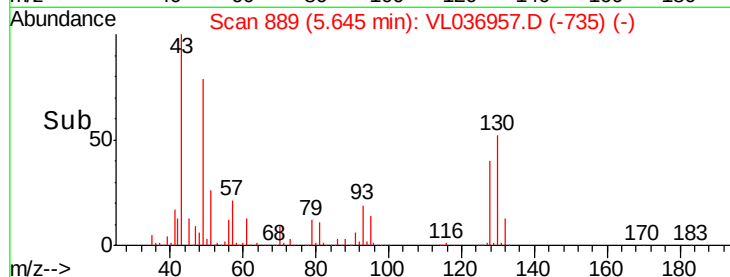
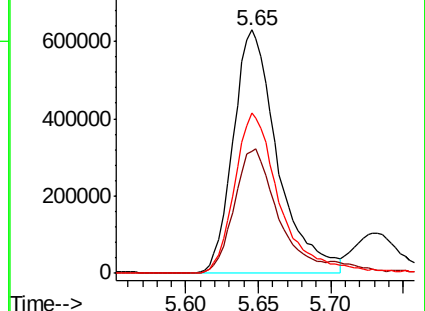
130 68.4 33.8 101.4



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: 8.487 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036957.D

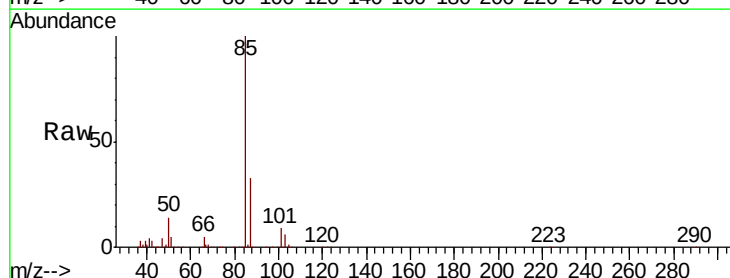
Acq: 18 May 2021 6:25

Tgt Ion: 85 Resp: 1916463

Ion Ratio Lower Upper

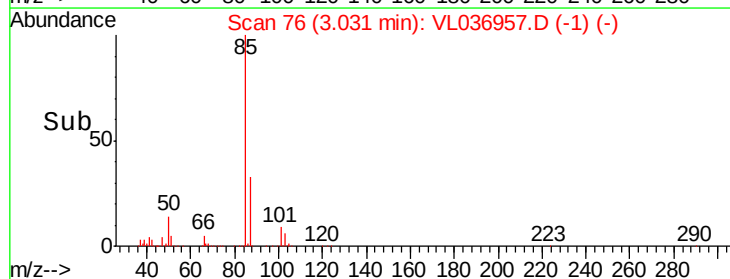
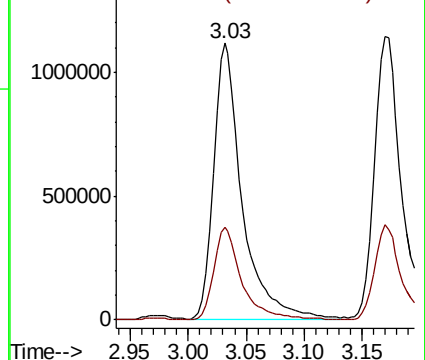
85 100

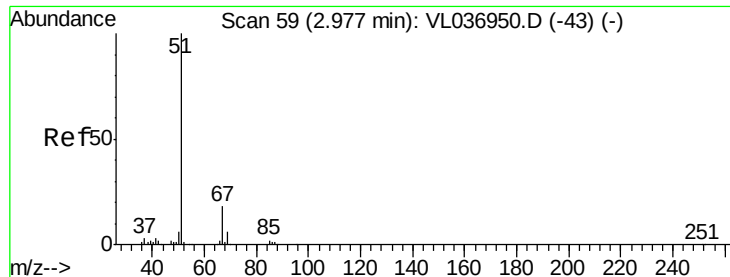
87 33.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

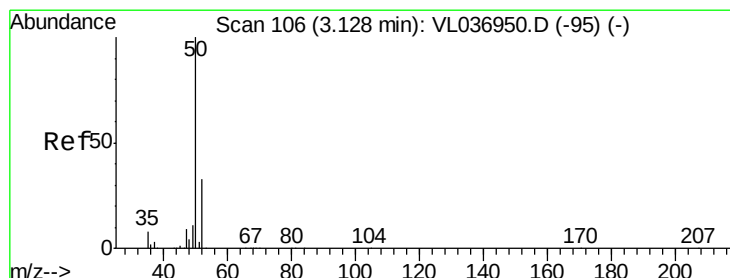
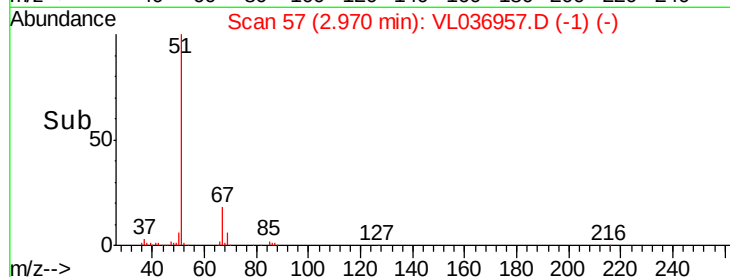
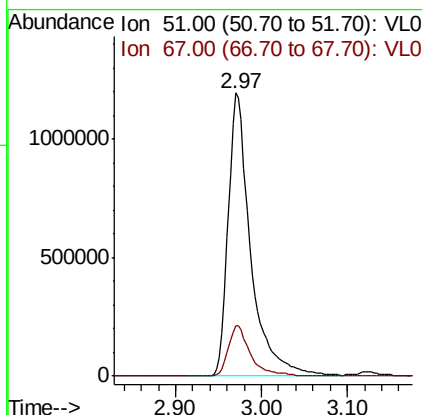
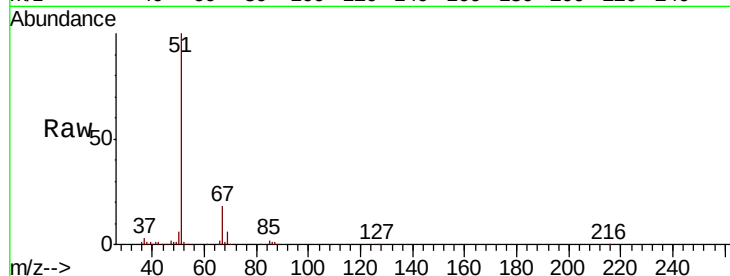




#3
 Chlorodifluoromethane
 Concen: 8.933 ppbv
 RT: 2.97 min Scan# 57
 Delta R.T. -0.01 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

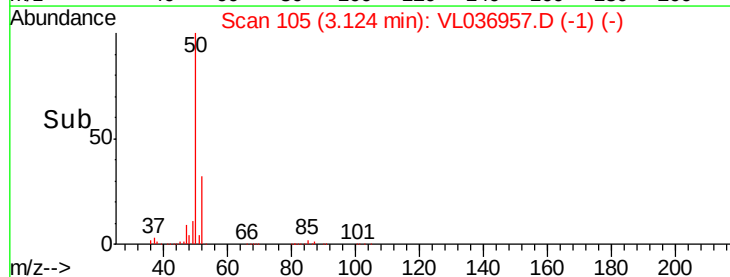
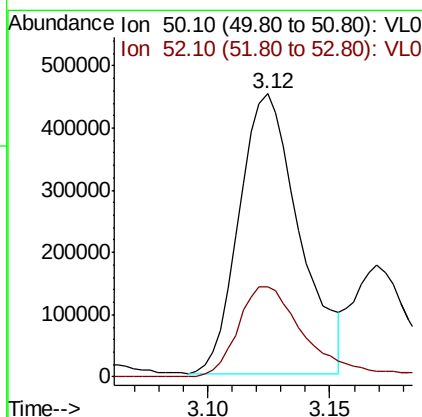
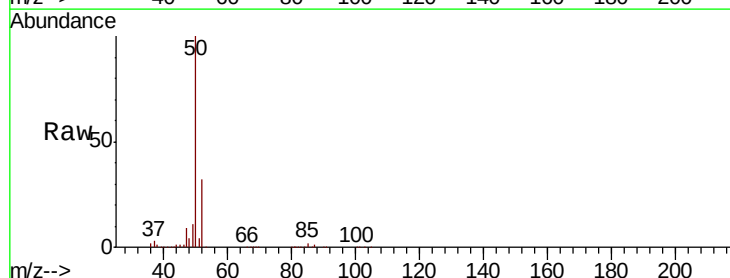
Instrument :
 MSVOA_L
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 ICVVL051821

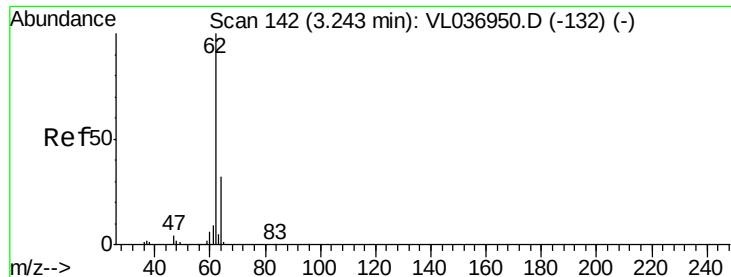
Tot Ion: 51 Resp: 2178449
 Ion Ratio Lower Upper
 51 100
 67 17.9 14.6 21.8



#4
 Chloromethane
 Concen: 9.286 ppbv
 RT: 3.12 min Scan# 105
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion: 50 Resp: 770527
 Ion Ratio Lower Upper
 50 100
 52 32.0 26.1 39.1





#5

Vinyl Chloride

Concen: 9.078 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

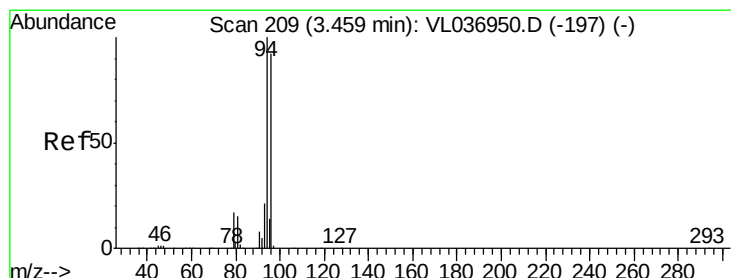
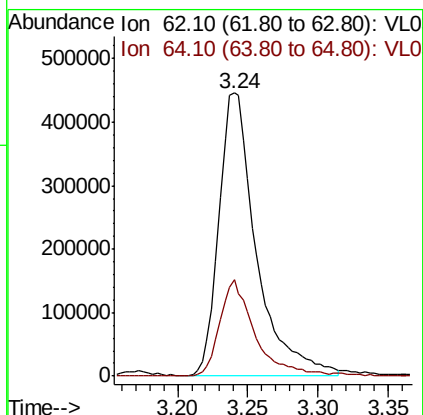
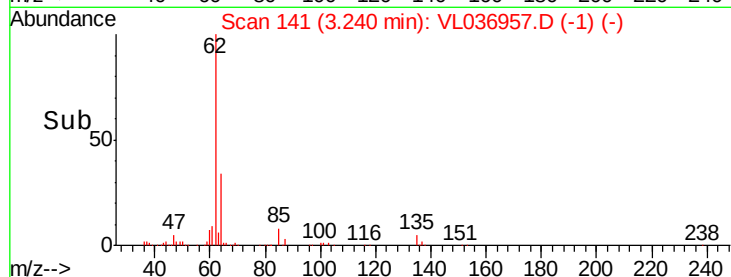
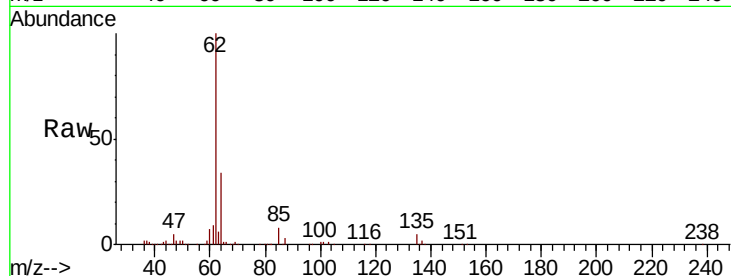
ICVVL051821

Tot Ion: 62 Resp: 823420

Ion Ratio Lower Upper

62 100

64 34.0 25.9 38.9



#6

Bromomethane

Concen: 10.319 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL036957.D

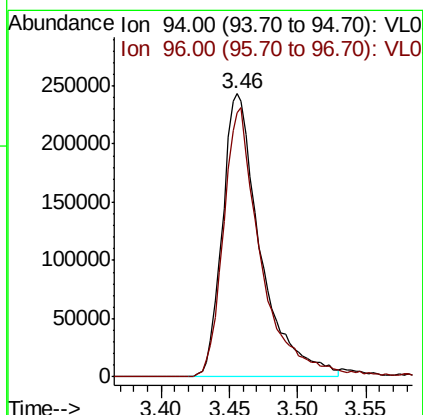
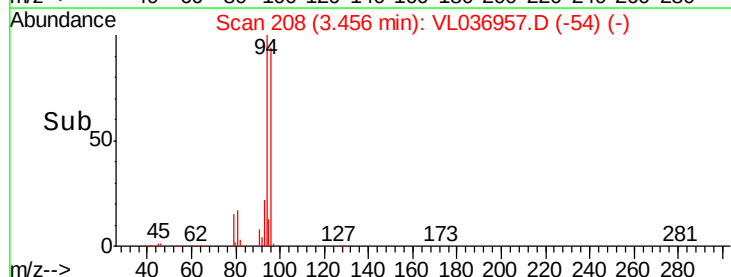
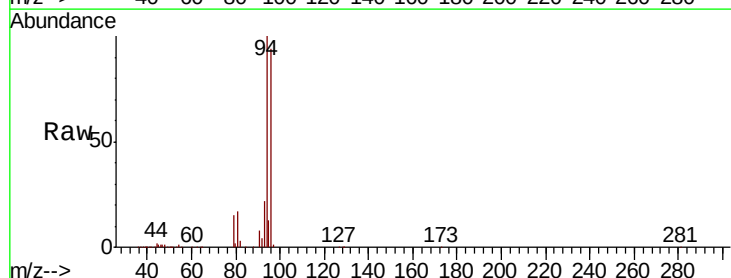
Acq: 18 May 2021 6:25

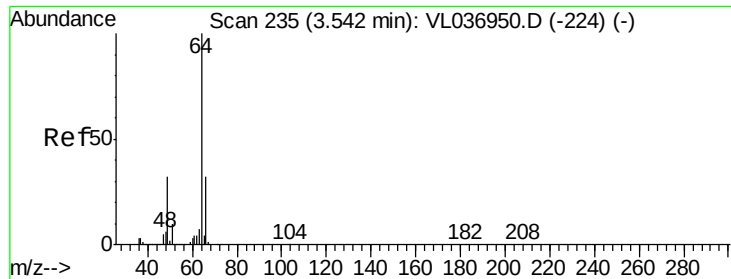
Tgt Ion: 94 Resp: 470604

Ion Ratio Lower Upper

94 100

96 93.3 74.0 111.0





#7

Chloroethane

Concen: 10.000 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

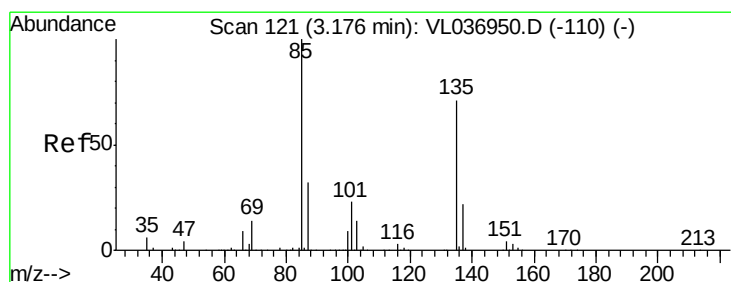
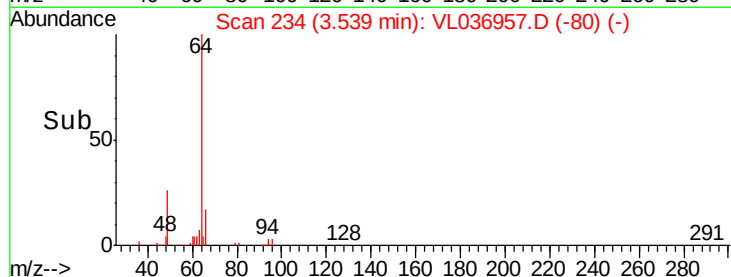
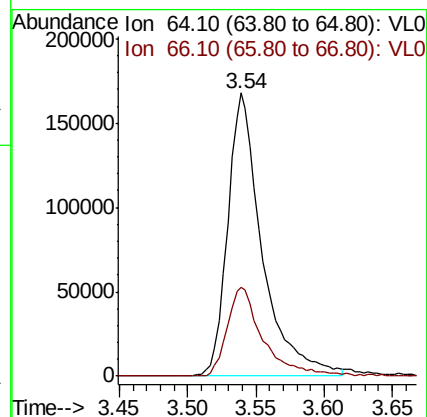
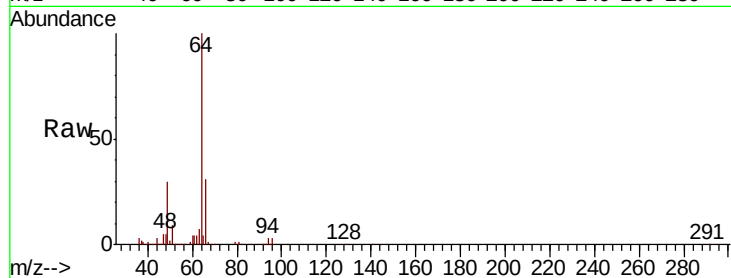
ICVVL051821

Tot Ion: 64 Resp: 294517

Ion Ratio Lower Upper

64 100

66 31.3 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 9.047 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036957.D

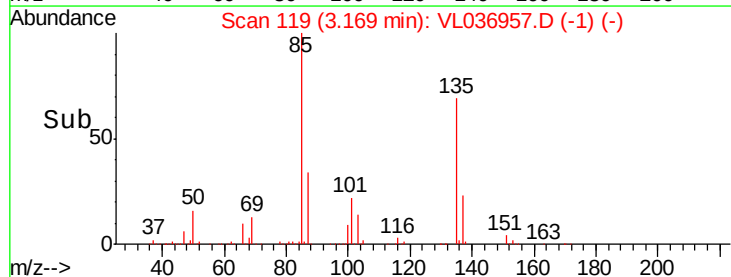
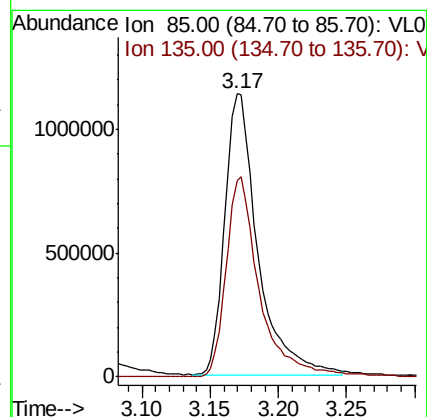
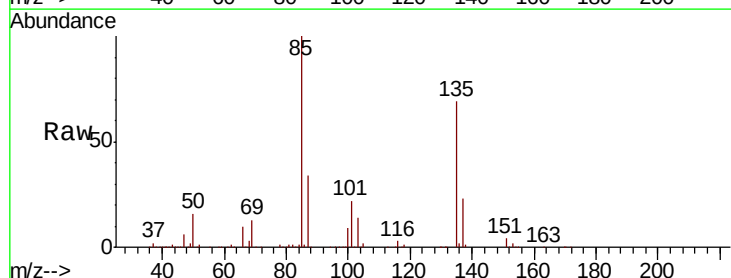
Acq: 18 May 2021 6:25

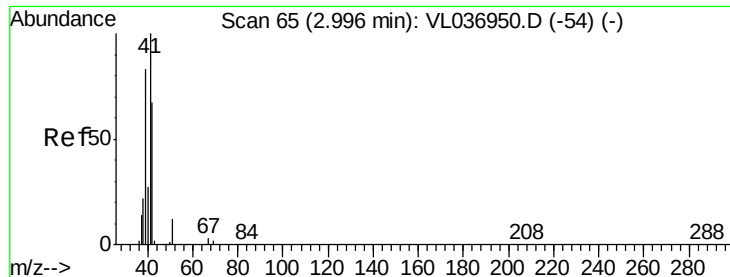
Tgt Ion: 85 Resp: 1918055

Ion Ratio Lower Upper

85 100

135 72.8 57.7 86.5





#9

Propene

Concen: 9.198 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

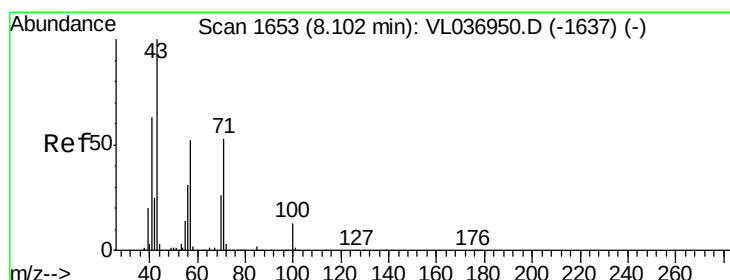
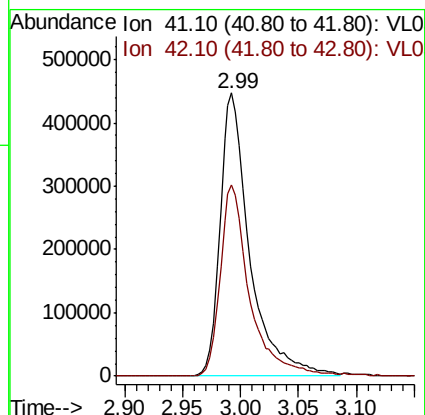
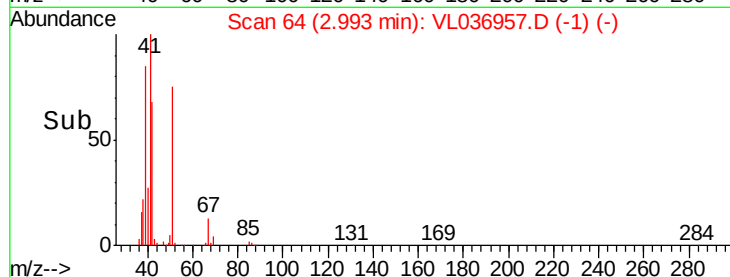
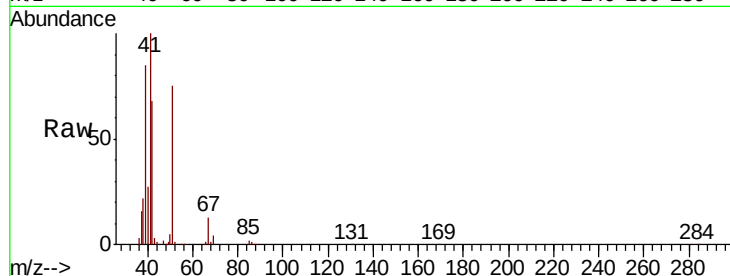
ICVVL051821

Tot Ion: 41 Resp: 803172

Ion Ratio Lower Upper

41 100

42 67.4 53.9 80.9



#10

Heptane

Concen: 9.148 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL036957.D

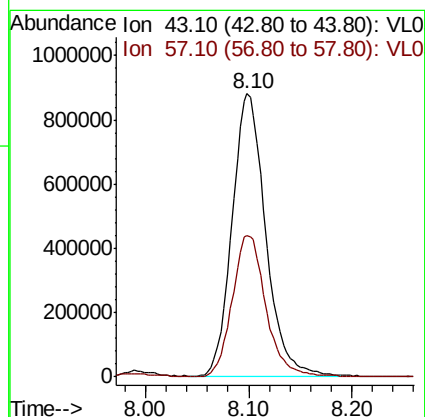
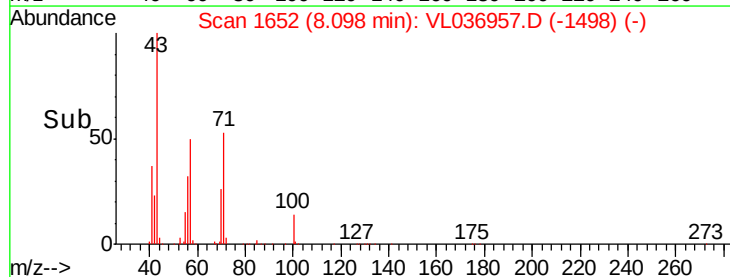
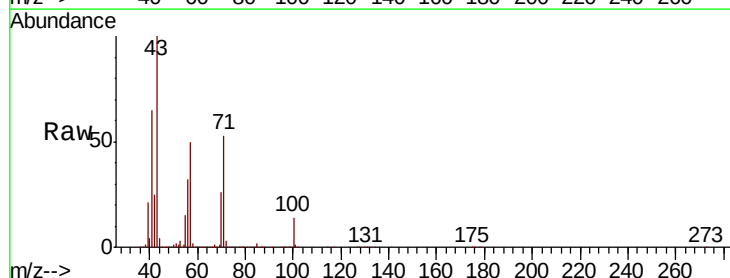
Acq: 18 May 2021 6:25

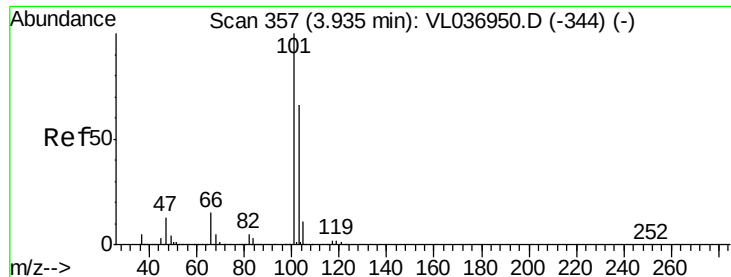
Tgt Ion: 43 Resp: 1990755

Ion Ratio Lower Upper

43 100

57 50.0 41.0 61.6

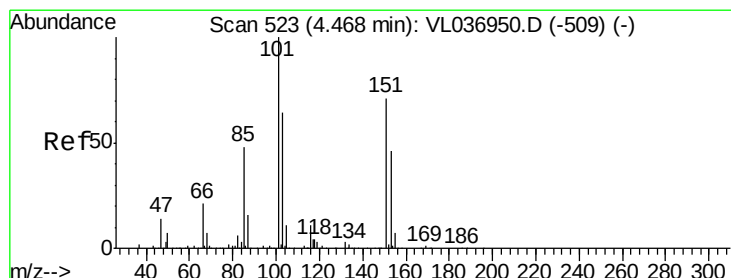
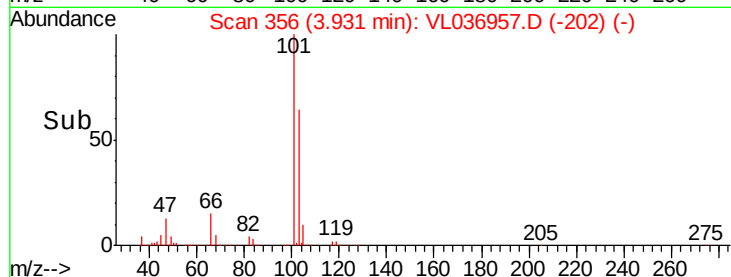
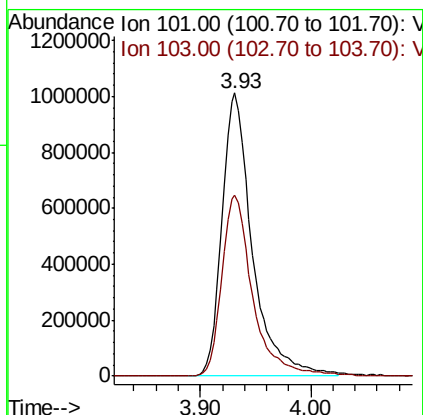
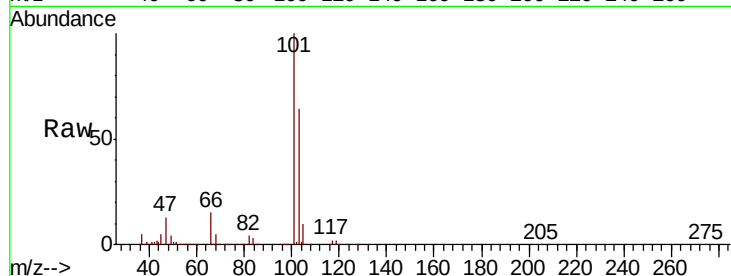




#11
 Trichlorofluoromethane
 Concen: 9.260 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

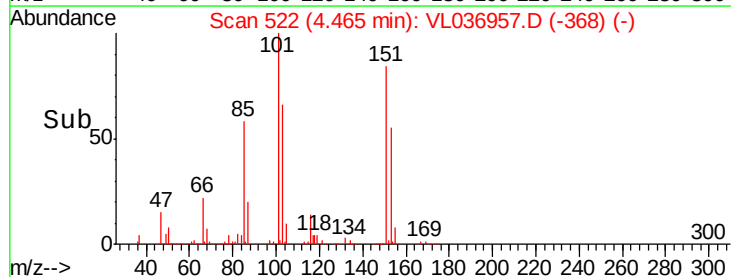
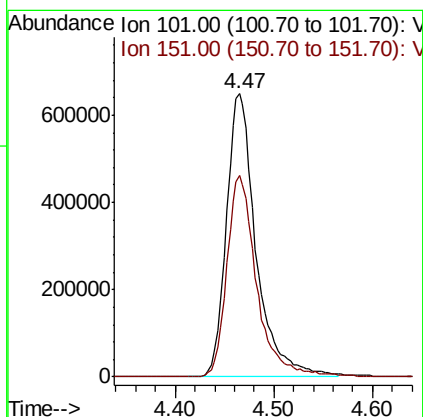
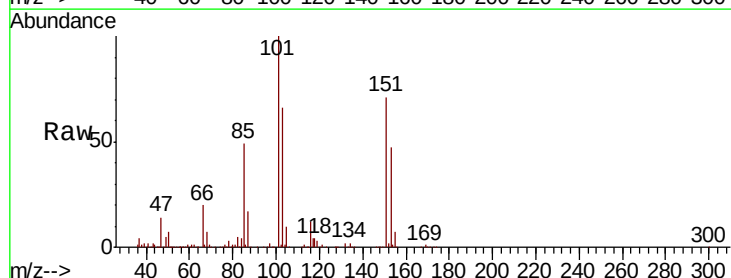
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

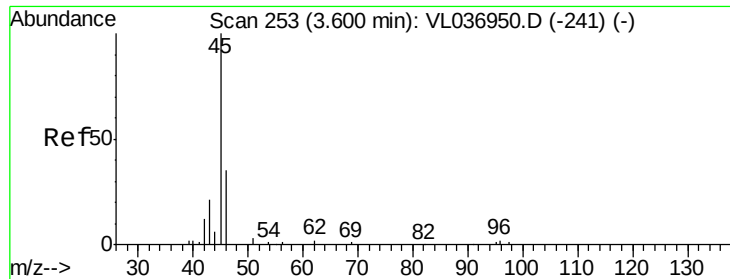
Tot Ion:101 Resp: 1935319
 Ion Ratio Lower Upper
 101 100
 103 64.0 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.178 ppbv
 RT: 4.47 min Scan# 522
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion:101 Resp: 1366405
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.7 86.5

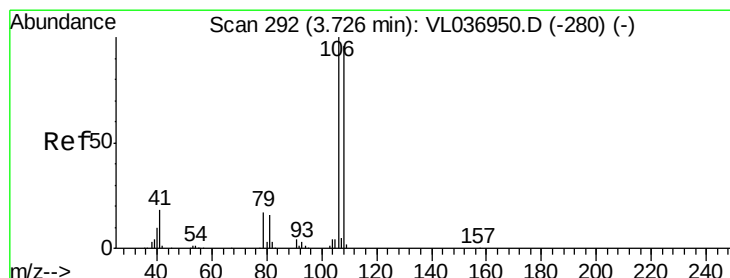
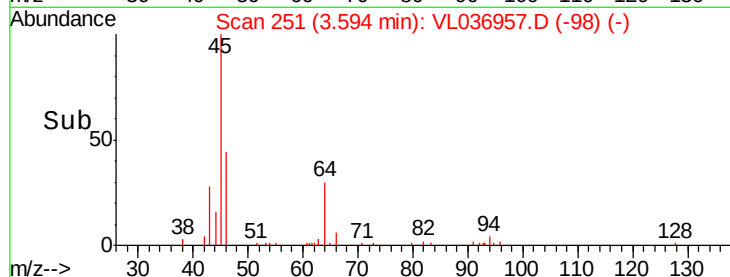
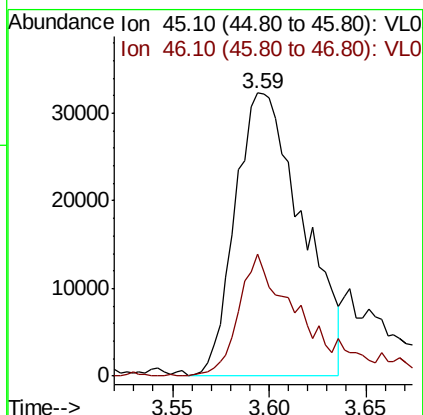
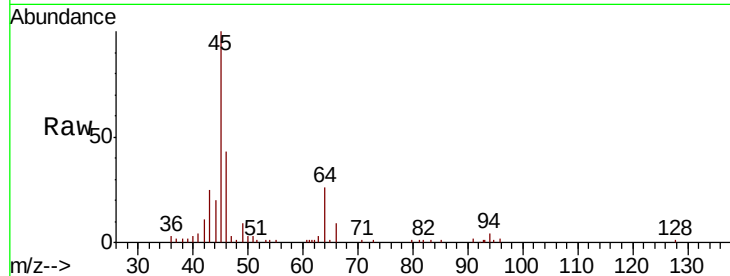




#13
Ethanol
Concen: 6.060 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

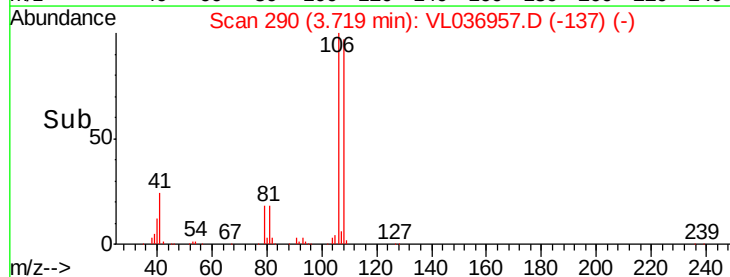
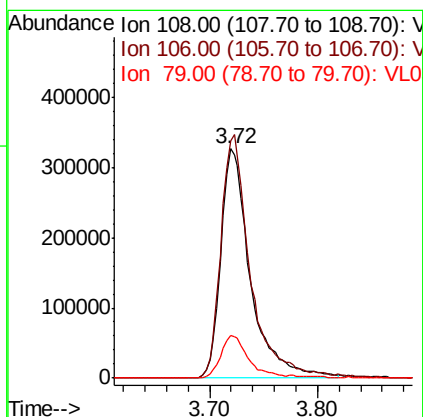
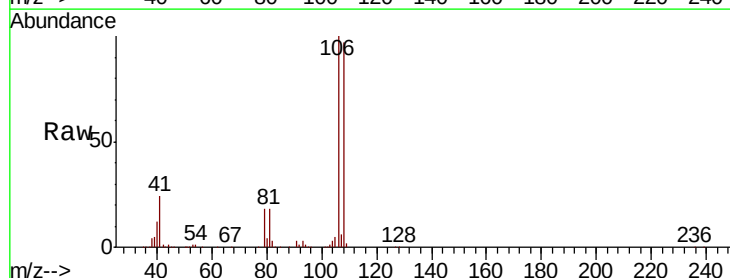
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

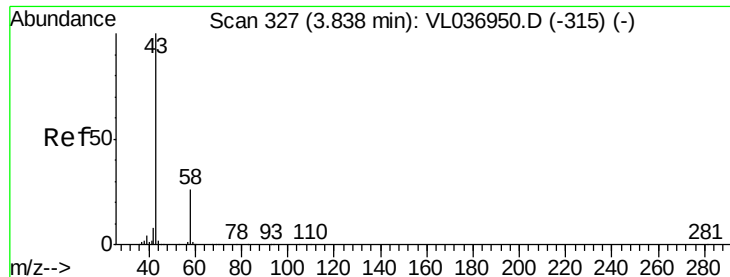
Tot Ion: 45 Resp: 77963
Ion Ratio Lower Upper
45 100
46 45.4 16.3 65.3



#14
Bromoethene
Concen: 9.797 ppbv
RT: 3.72 min Scan# 290
Delta R.T. -0.01 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion: 108 Resp: 624282
Ion Ratio Lower Upper
108 100
106 106.4 86.5 129.7
79 18.5 15.0 22.4





#15

Acetone

Concen: 8.153 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.01 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

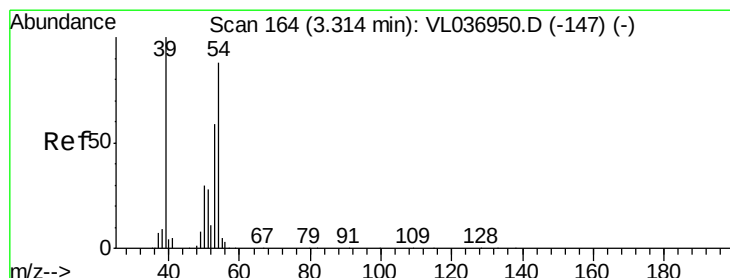
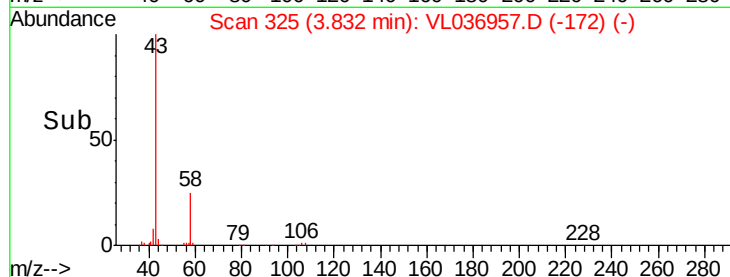
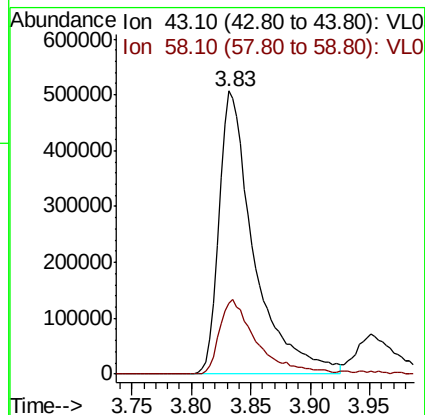
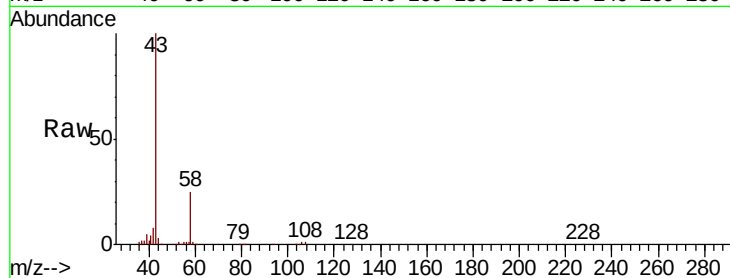
ICVVL051821

Tot Ion: 43 Resp: 1028733

Ion Ratio Lower Upper

43 100

58 28.5 24.0 36.0



#16

1,3-Butadiene

Concen: 9.431 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.00 min

Lab File: VL036957.D

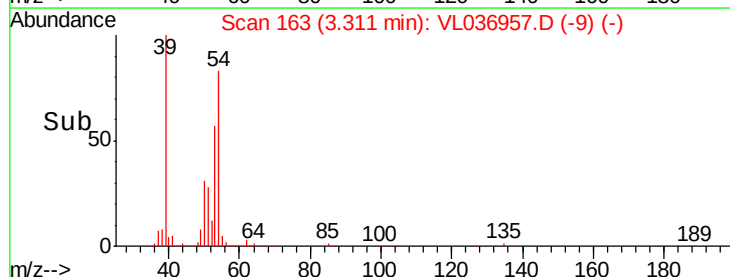
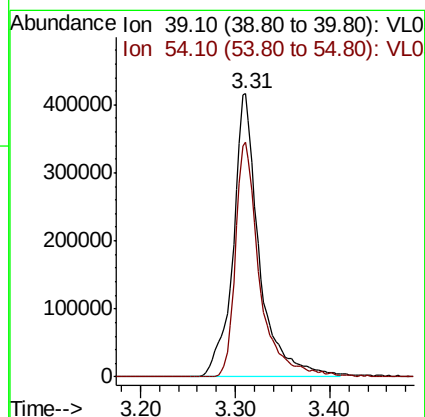
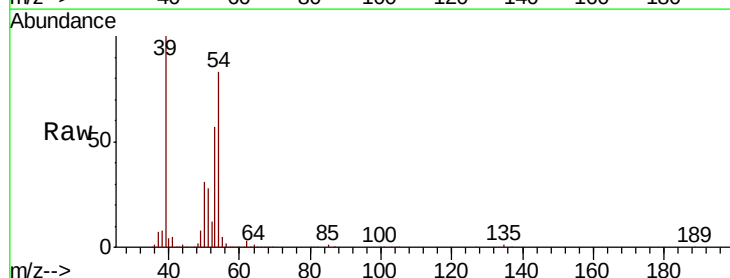
Acq: 18 May 2021 6:25

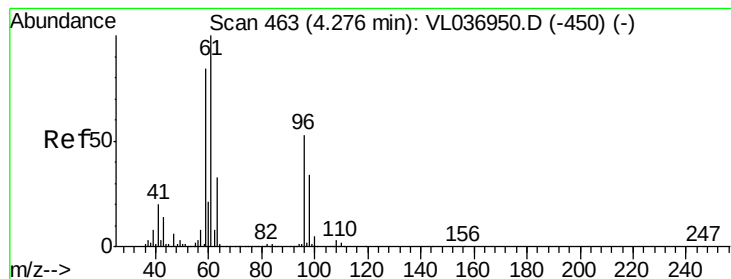
Tgt Ion: 39 Resp: 798805

Ion Ratio Lower Upper

39 100

54 77.4 63.2 94.8





#17

tert-Butyl alcohol

Concen: 10.183 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

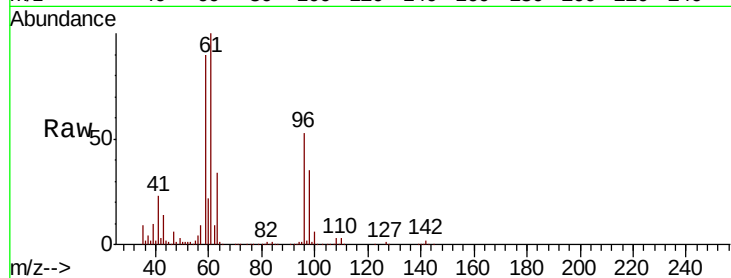
ICVVL051821

Tot Ion: 59 Resp: 1271740

Ion Ratio Lower Upper

59 100

57 10.8 8.3 12.5



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.27

600000

500000

400000

300000

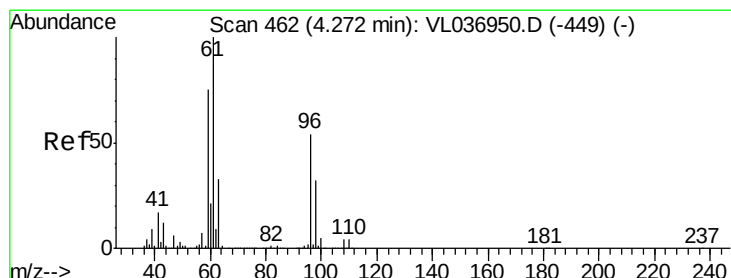
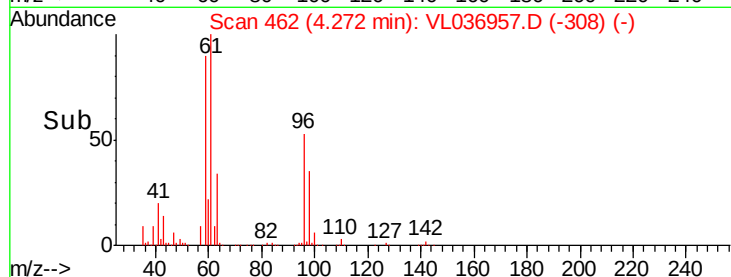
200000

100000

0

Time-->

4.20 4.30 4.40



#18

1,1-Dichloroethene

Concen: 9.489 ppbv

RT: 4.27 min Scan# 461

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

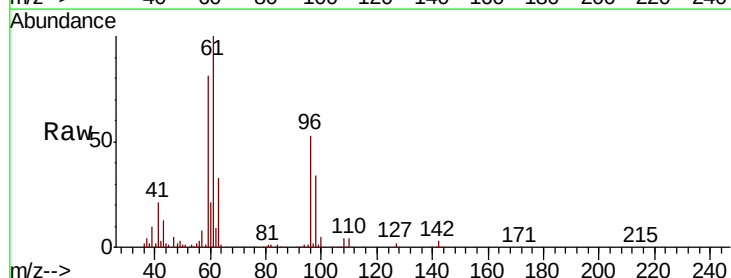
Tgt Ion: 96 Resp: 644205

Ion Ratio Lower Upper

96 100

61 190.4 148.2 222.4

98 65.0 47.8 71.6



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

800000

600000

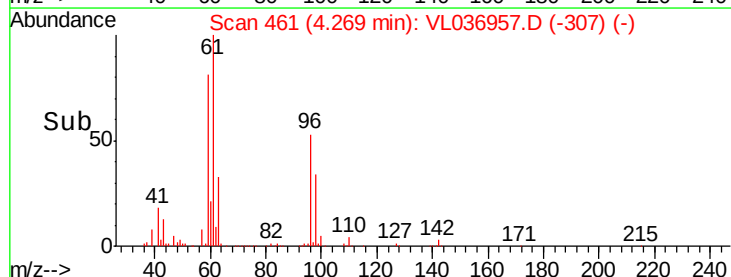
400000

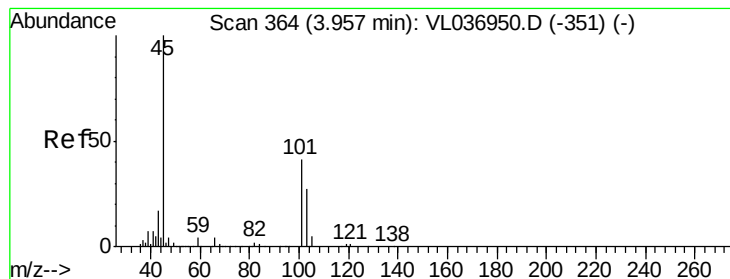
200000

0

Time-->

4.20 4.30 4.40





#19

Isopropyl Alcohol

Concen: 9.898 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

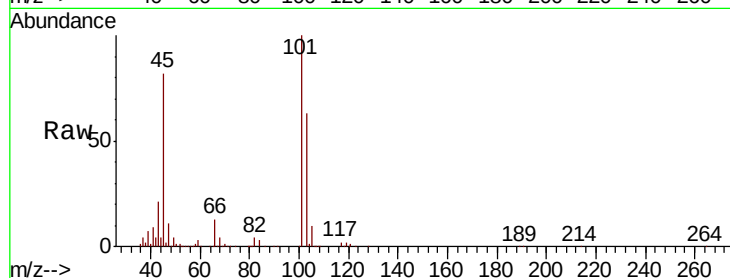
ICVVL051821

Tot Ion: 45 Resp: 679683

Ion Ratio Lower Upper

45 100

58 45.2 37.2 55.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.95

300000

250000

200000

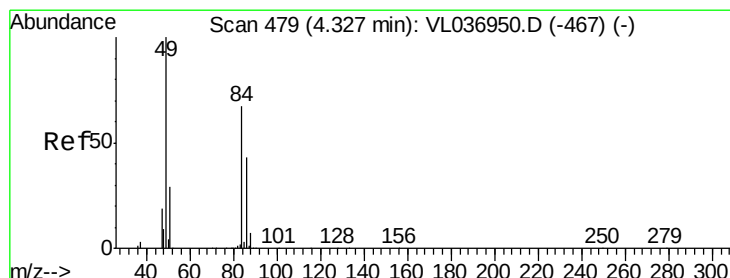
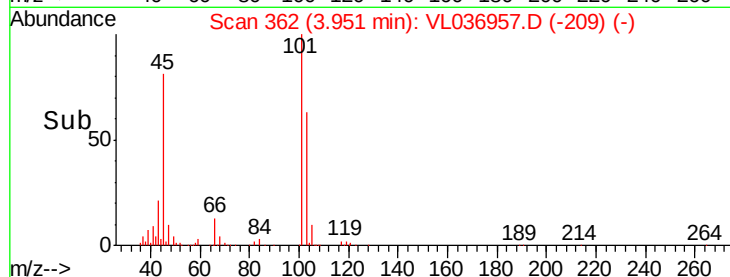
150000

100000

50000

0

Time--> 3.85 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 7.800 ppbv

RT: 4.32 min Scan# 478

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion: 84 Resp: 537558

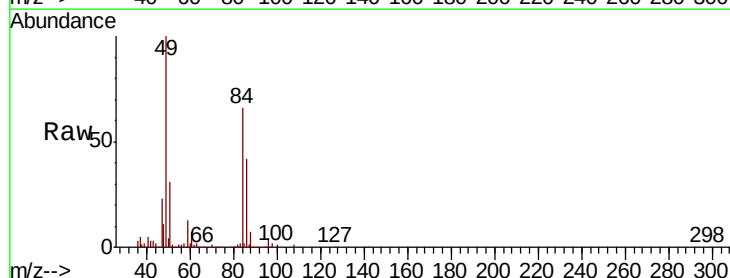
Ion Ratio Lower Upper

84 100

49 149.9 119.8 179.6

51 45.7 35.1 52.7

86 63.9 50.9 76.3



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

600000

500000

400000

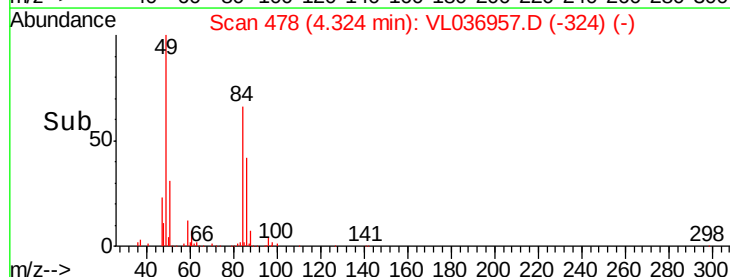
300000

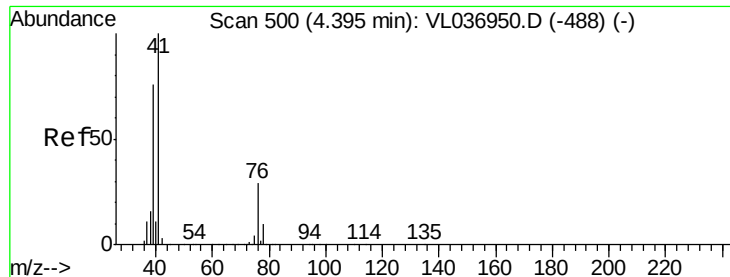
200000

100000

0

Time--> 4.25 4.30 4.35 4.40





#21

Allvl Chloride

Concen: 9.505 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

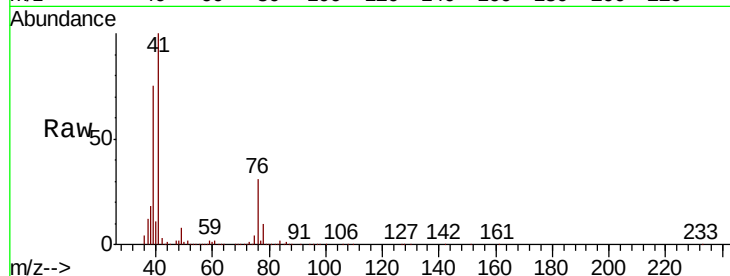
Tot Ion: 41 Resp: 977552

Ion Ratio Lower Upper

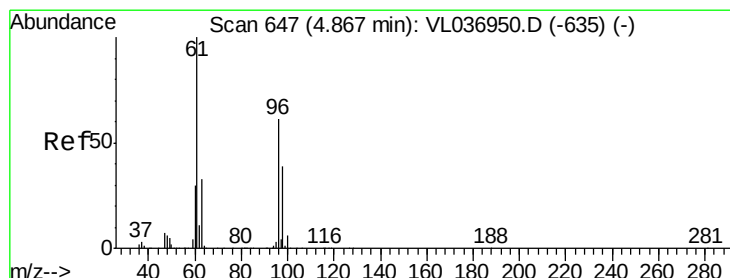
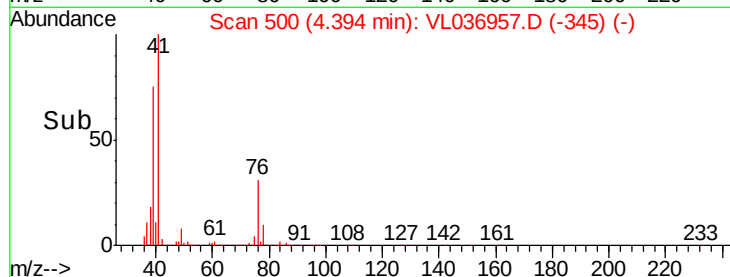
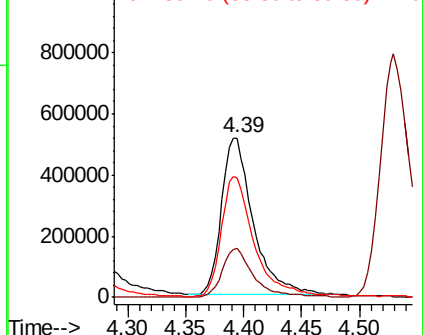
41 100

76 31.0 24.9 37.3

39 78.7 63.7 95.5



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



#22

trans-1,2-Dichloroethene

Concen: 10.421 ppbv

RT: 4.86 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

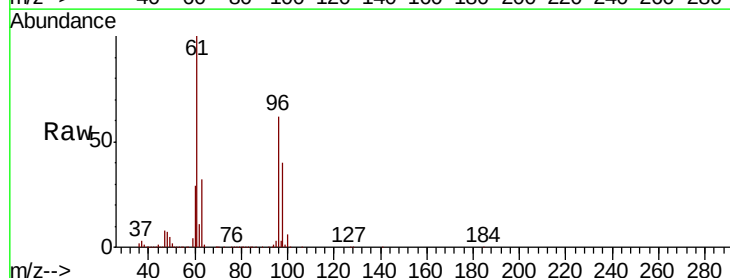
Tgt Ion: 96 Resp: 631055

Ion Ratio Lower Upper

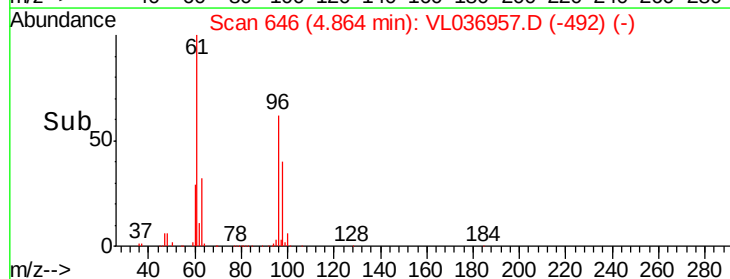
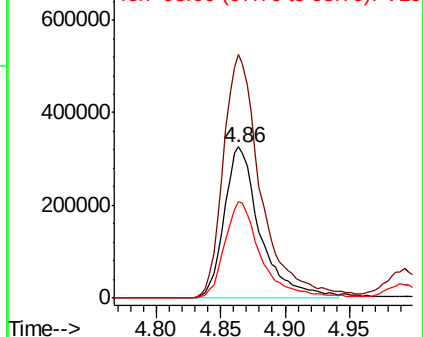
96 100

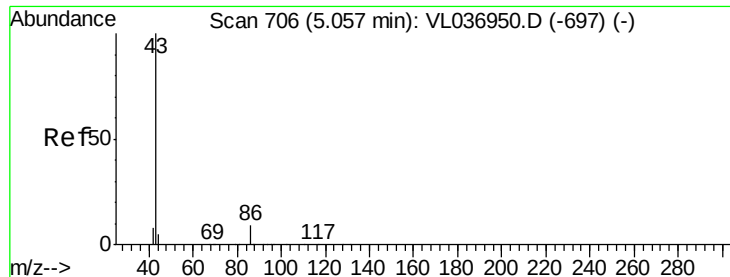
61 161.0 130.6 196.0

98 64.2 50.8 76.2



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





#23

Vinyl Acetate

Concen: 9.624 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

Tot Ion: 43 Resp: 2082715

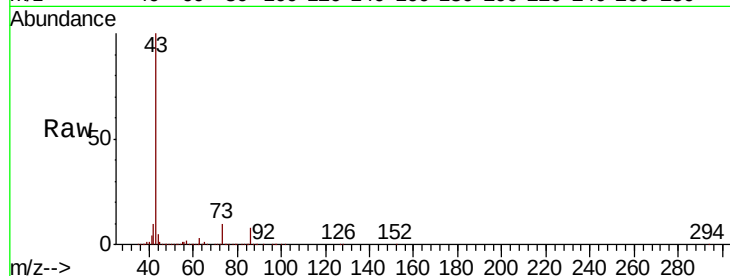
Ion Ratio Lower Upper

43 100

86 7.9 5.8 8.8

42 9.7 7.4 11.2

44 4.9 3.3 4.9

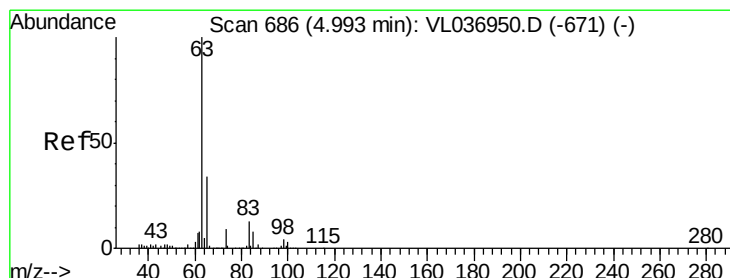
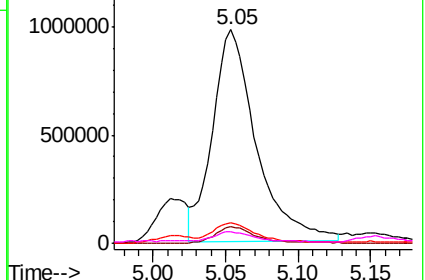
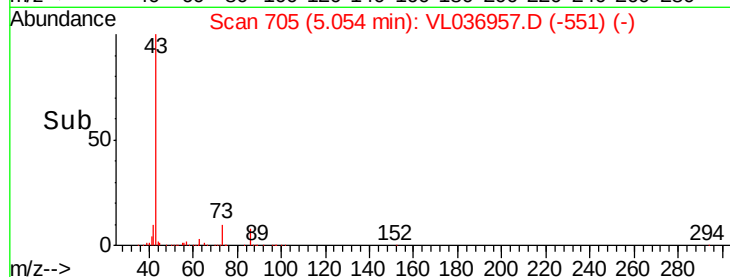


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.834 ppbv

RT: 4.99 min Scan# 685

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

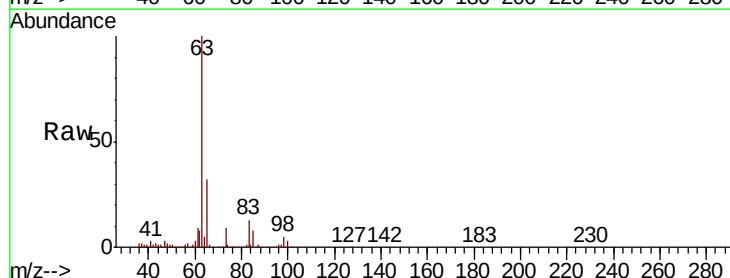
Tgt Ion: 63 Resp: 1352911

Ion Ratio Lower Upper

63 100

98 4.9 2.3 6.9

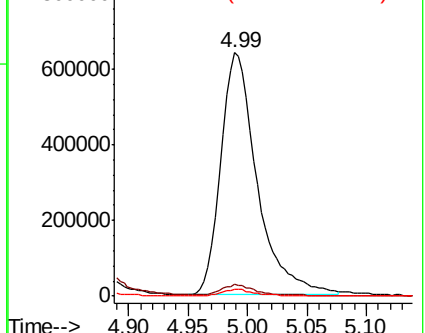
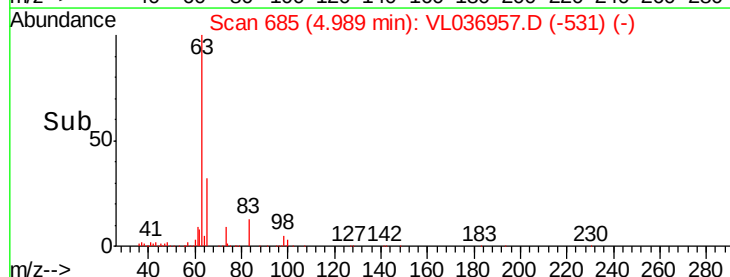
100 2.7 1.4 4.0

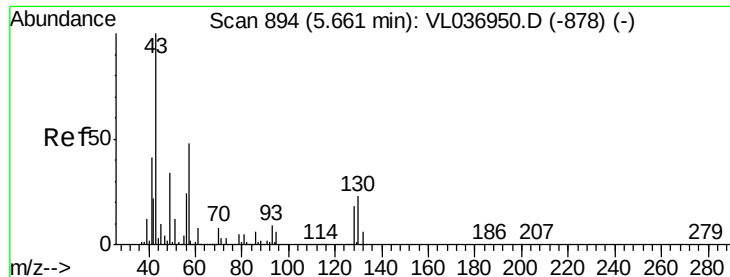


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.263 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

Tot Ion: 43 Resp: 2992826

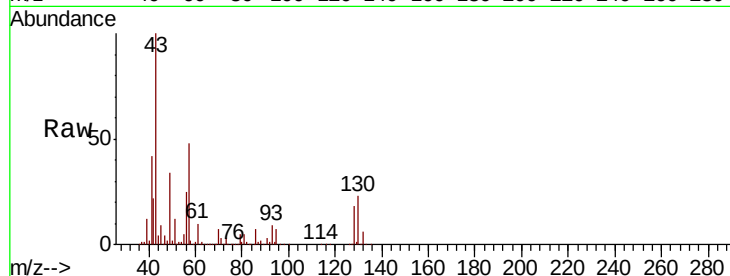
Ion Ratio Lower Upper

43 100

45 9.7 7.8 11.8

61 10.1 7.8 11.8

70 6.9 5.6 8.4

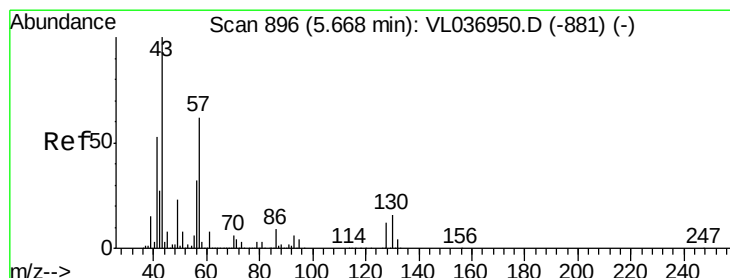
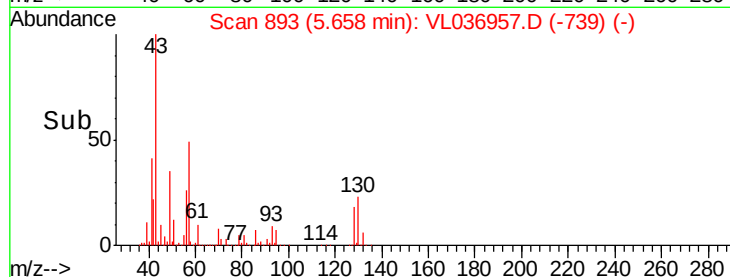
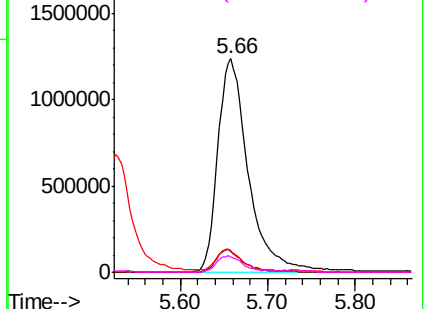


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.655 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion: 57 Resp: 1448564

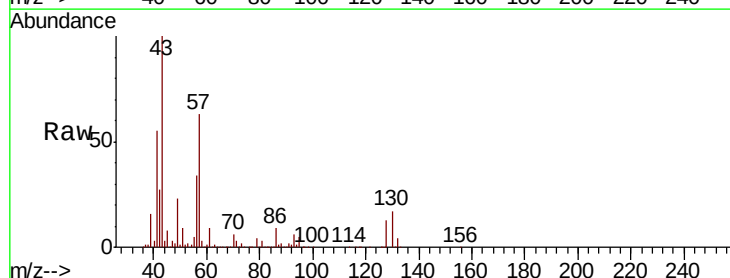
Ion Ratio Lower Upper

57 100

41 88.2 70.5 105.7

43 207.5 165.8 248.8

56 53.1 42.2 63.4

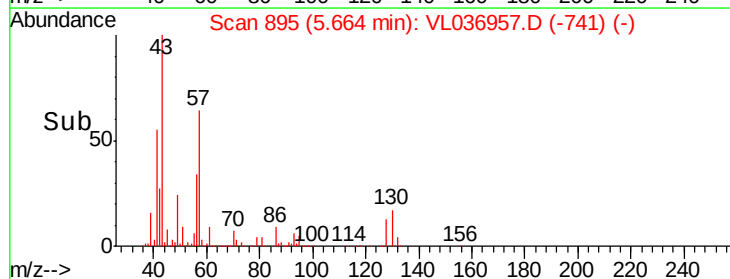
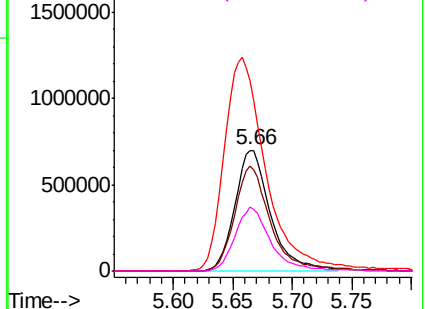


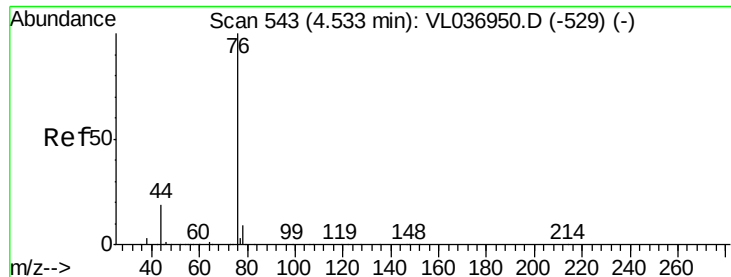
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.419 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

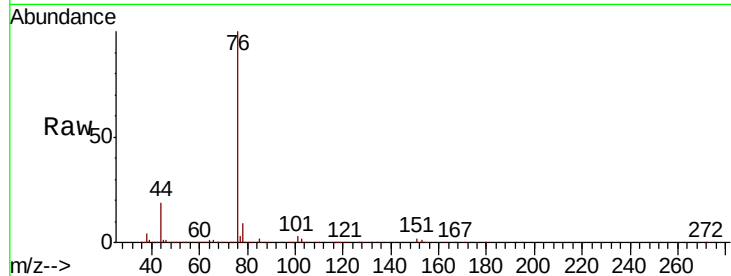
Tot Ion: 76 Resp: 1588779

Ion Ratio Lower Upper

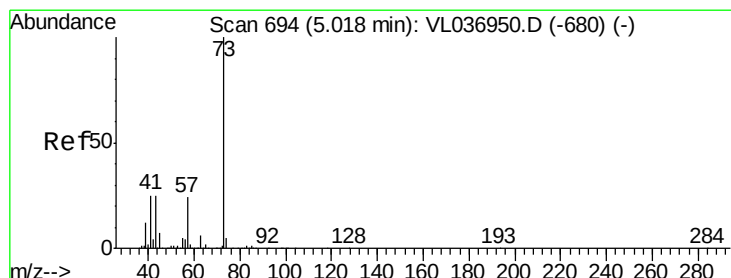
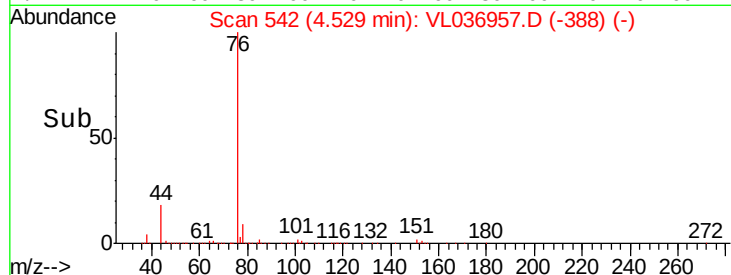
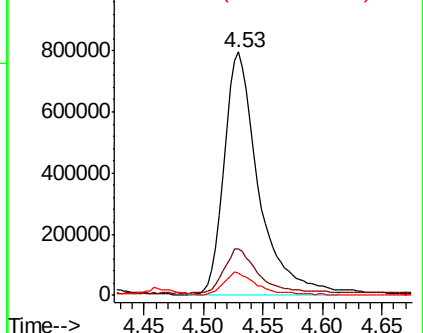
76 100

44 18.7 15.5 23.3

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: 8.667 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL036957.D

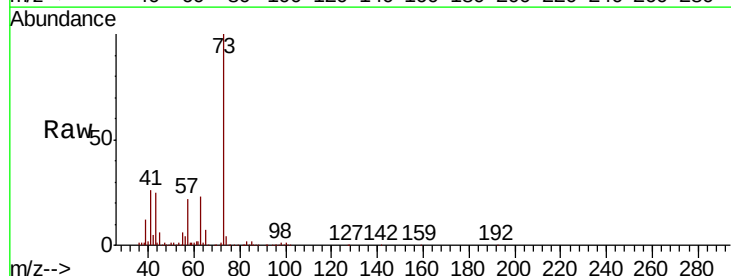
Acq: 18 May 2021 6:25

Tgt Ion: 73 Resp: 1738641

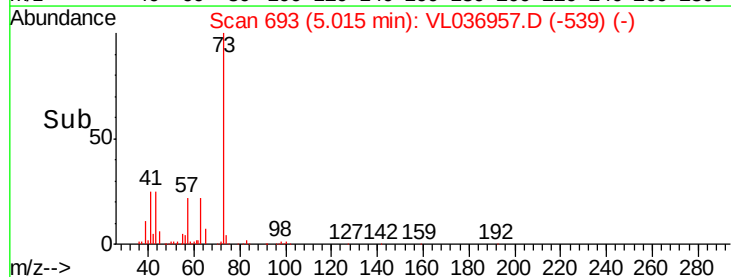
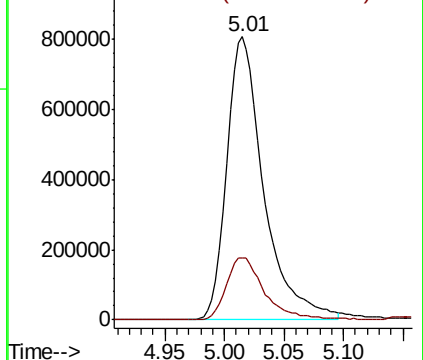
Ion Ratio Lower Upper

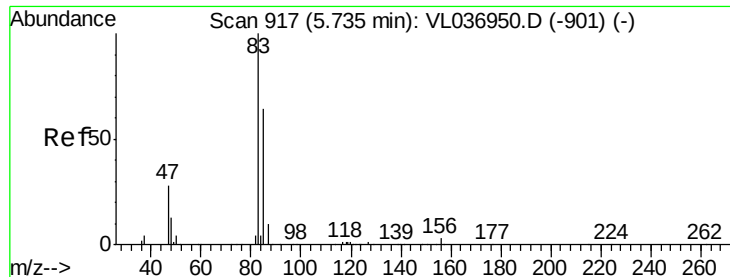
73 100

57 23.0 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

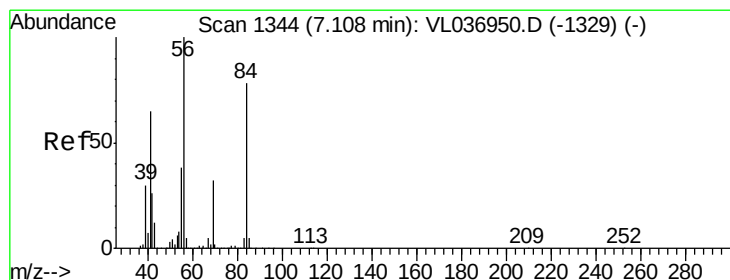
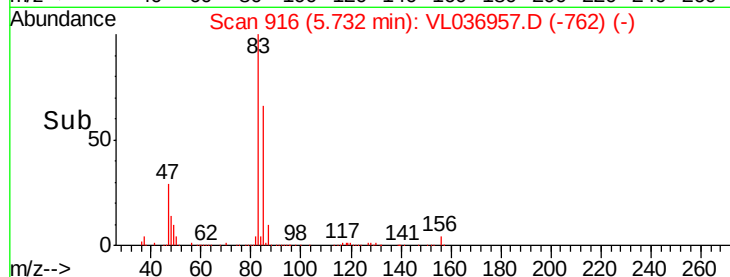
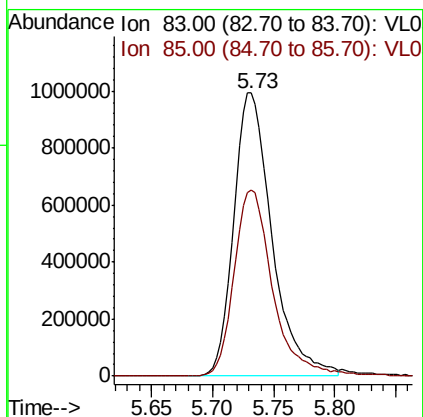
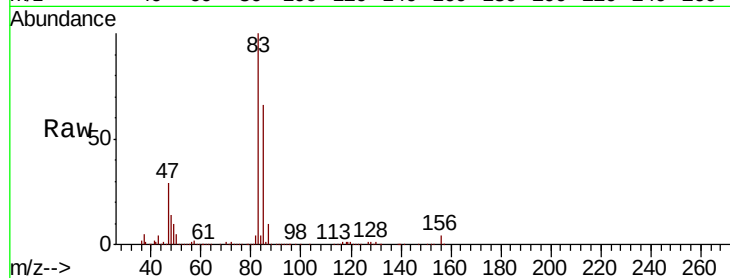




#29
Chloroform
Concen: 9.148 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

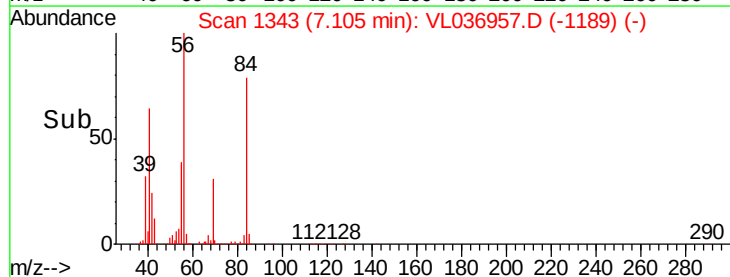
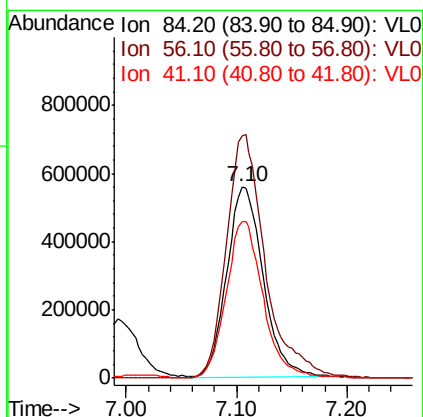
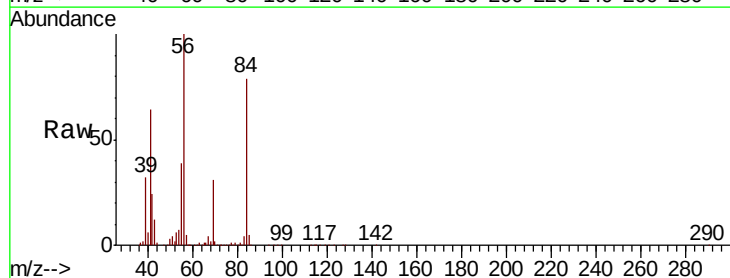
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

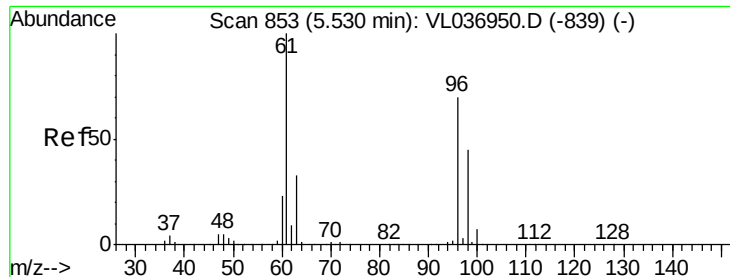
Tot Ion: 83 Resp: 2163117
Ion Ratio Lower Upper
83 100
85 65.4 51.1 76.7



#30
Cyclohexane
Concen: 9.047 ppbv
RT: 7.10 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion: 84 Resp: 1286695
Ion Ratio Lower Upper
84 100
56 136.3 107.9 161.9
41 83.3 65.5 98.3



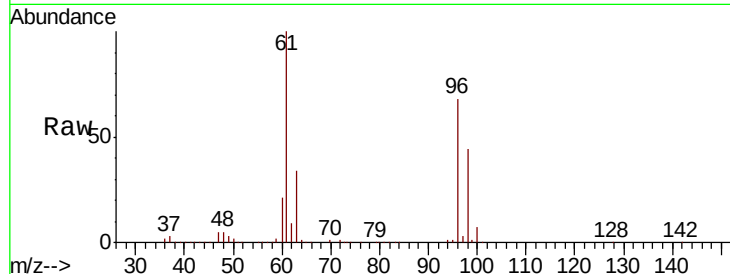


#31

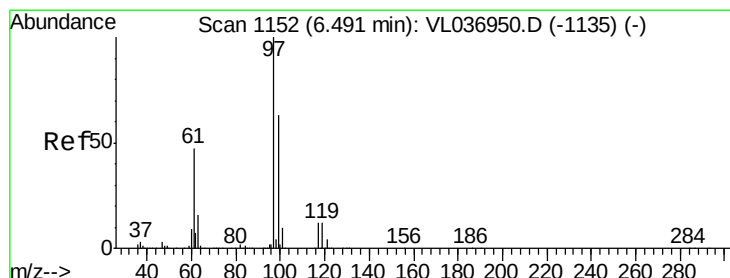
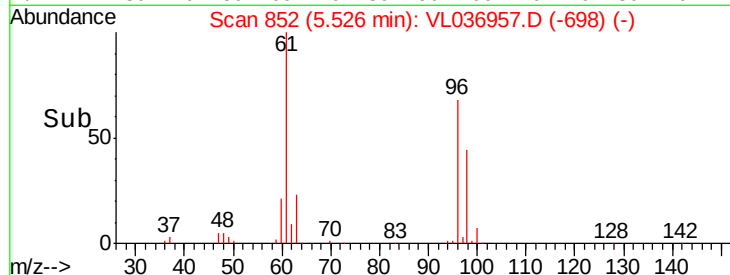
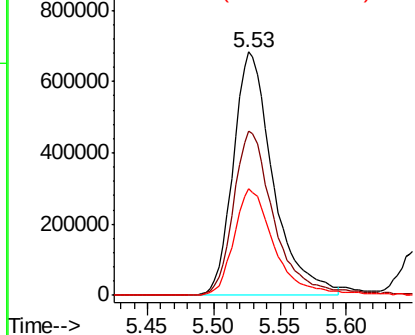
cis-1,2-Dichloroethene
 Concen: 9.504 ppbv
 RT: 5.53 min Scan# 852
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

Tot Ion: 61 Resp: 1426070
 Ion Ratio Lower Upper
 61 100
 96 67.7 55.9 83.9
 98 43.6 35.6 53.4



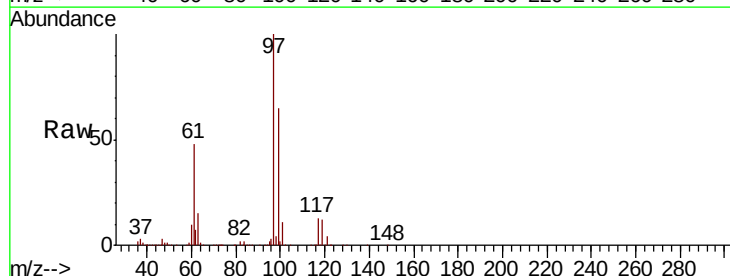
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



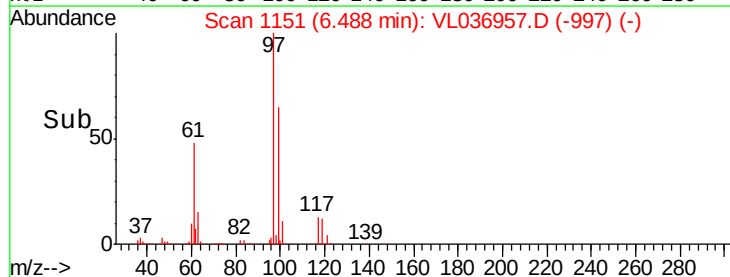
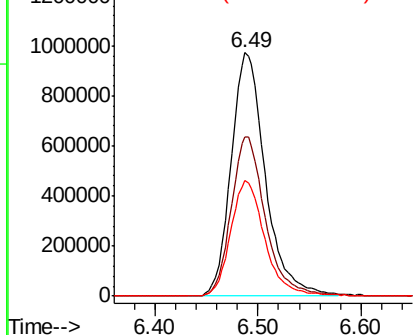
#32

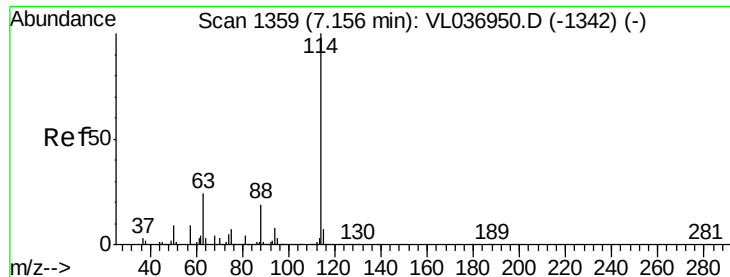
1,1,1-Trichloroethane
 Concen: 8.855 ppbv
 RT: 6.49 min Scan# 1151
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion: 97 Resp: 2248293
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.9 77.9
 61 47.5 37.6 56.4



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

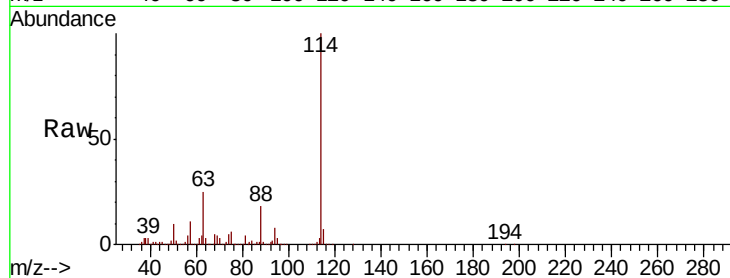




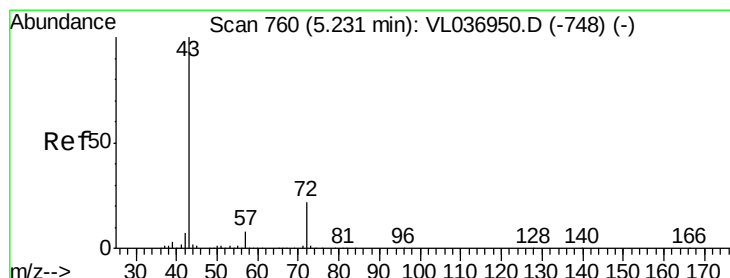
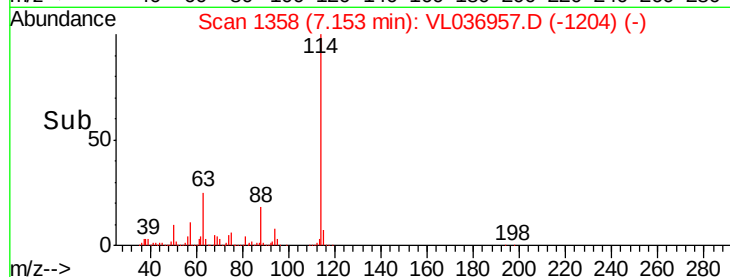
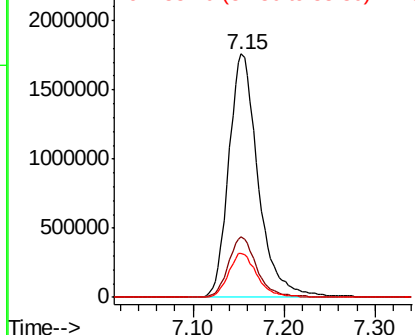
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

Tot Ion:114 Resp: 3946869
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.6 29.4
 88 17.9 14.6 21.8

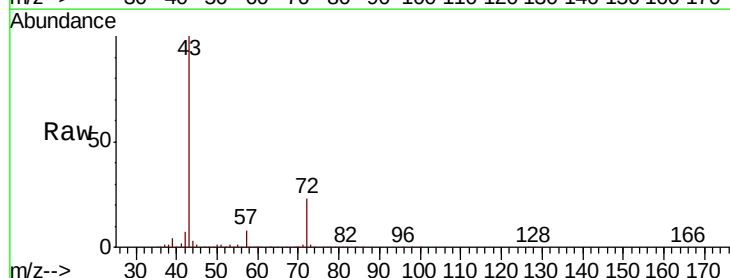


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

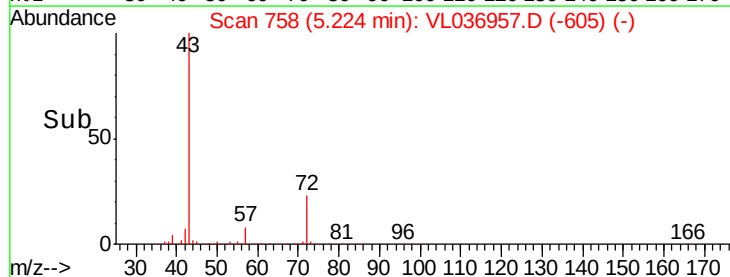
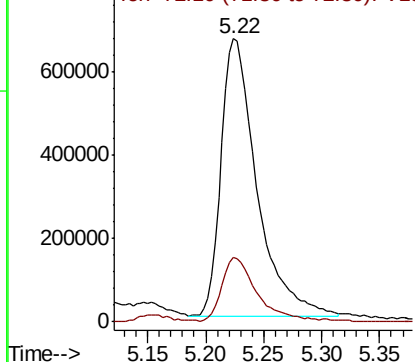


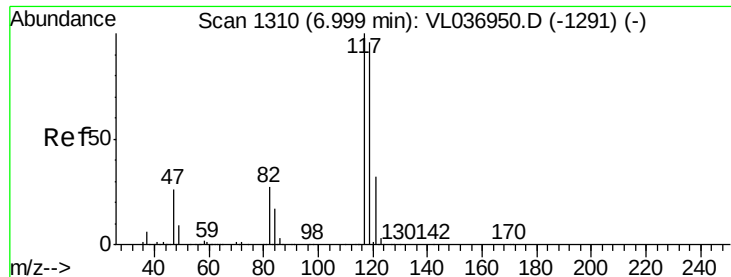
#34
 2-Butanone
 Concen: 9.939 ppbv
 RT: 5.22 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion: 43 Resp: 1428385
 Ion Ratio Lower Upper
 43 100
 72 23.1 19.0 28.4



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





#35

Carbon Tetrachloride

Concen: 8.836 ppbv

RT: 7.00 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

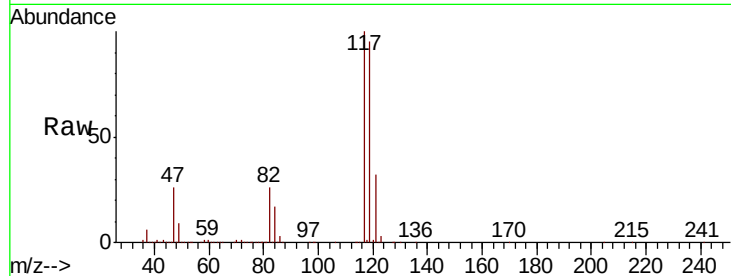
Tot Ion:117 Resp: 2317098

Ion Ratio Lower Upper

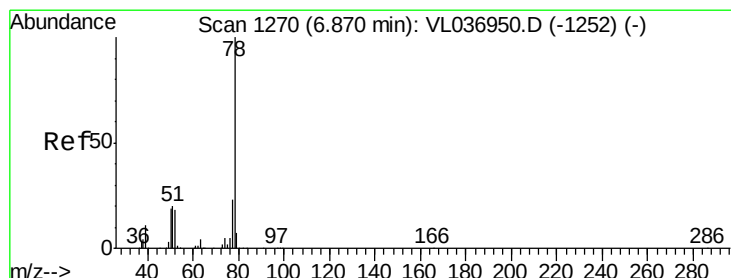
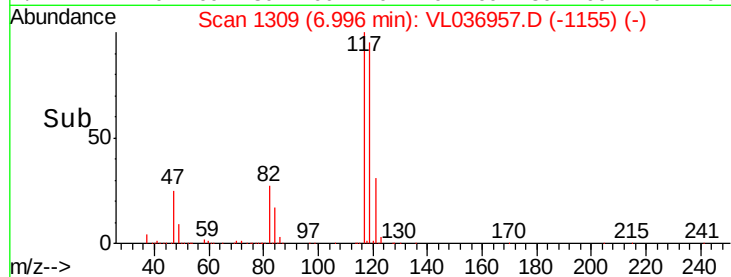
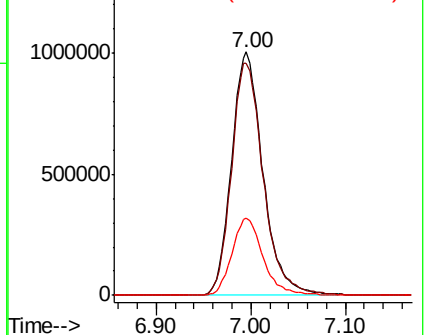
117 100

119 95.3 76.6 114.8

121 31.5 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.139 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

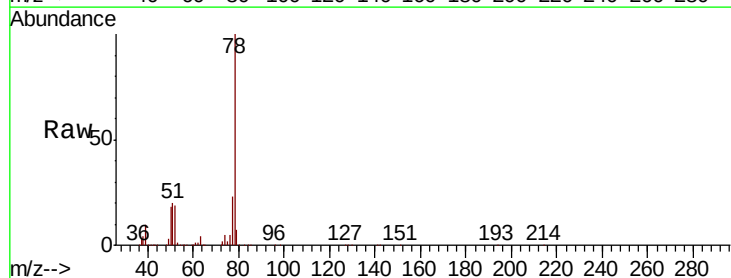
Tgt Ion: 78 Resp: 3106801

Ion Ratio Lower Upper

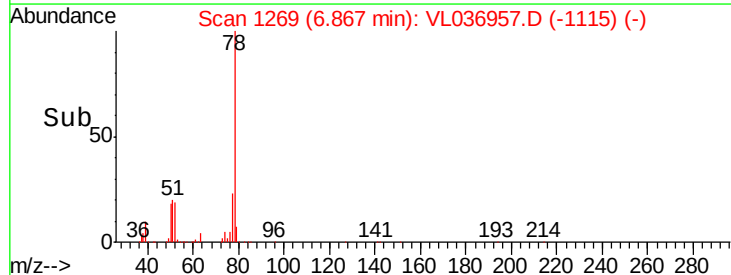
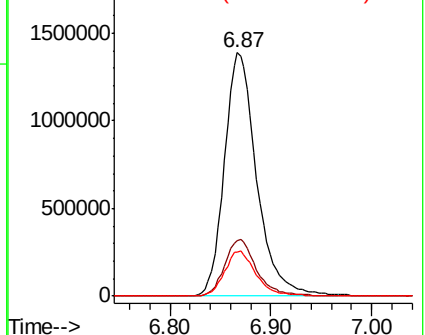
78 100

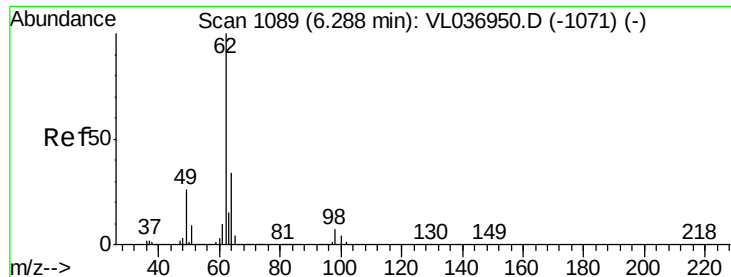
77 22.8 18.6 28.0

50 18.2 15.0 22.4



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

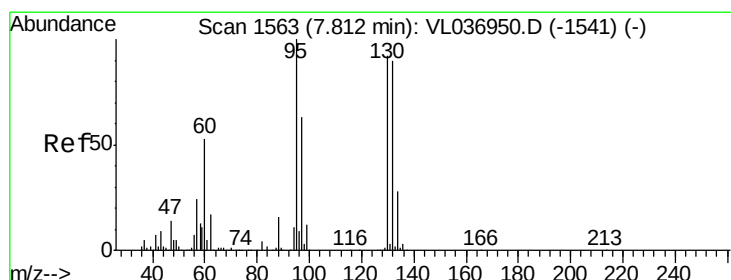
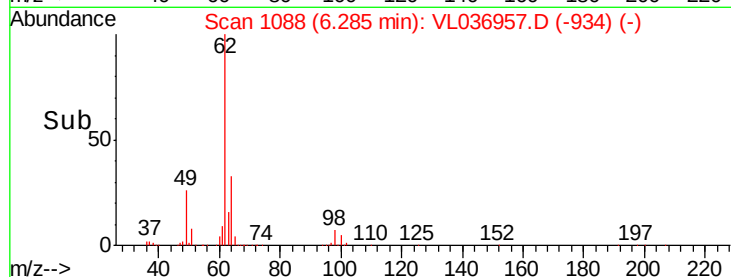
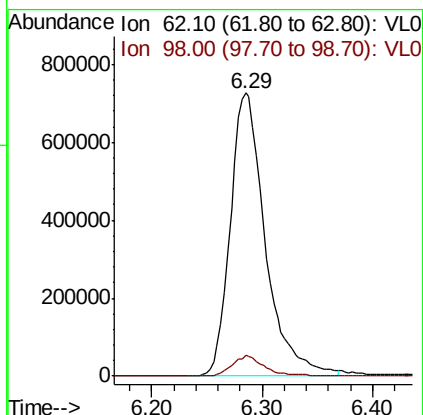
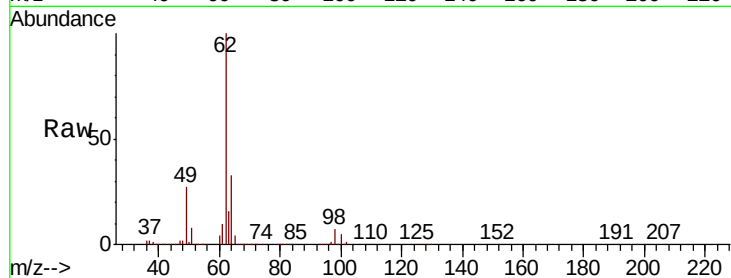




#37
 1,2-Dichloroethane
 Concen: 9.470 ppbv
 RT: 6.29 min Scan# 1088
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

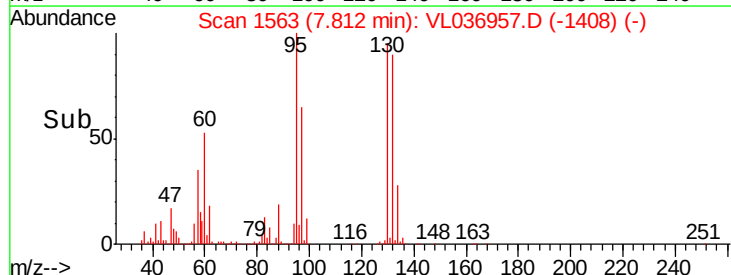
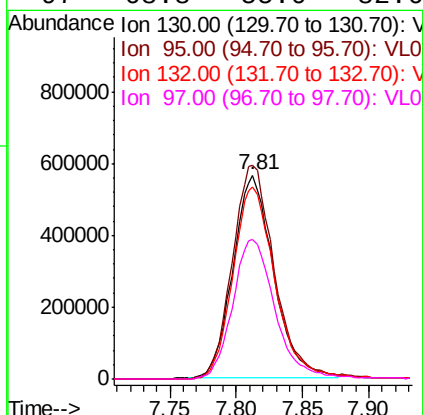
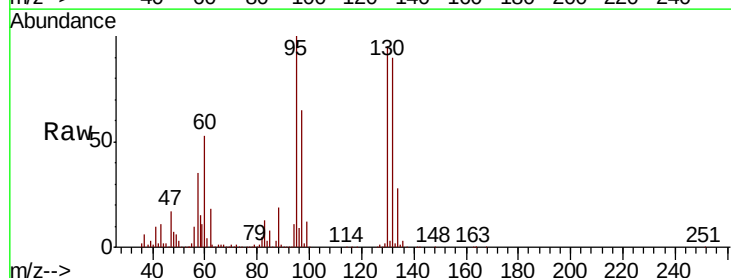
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

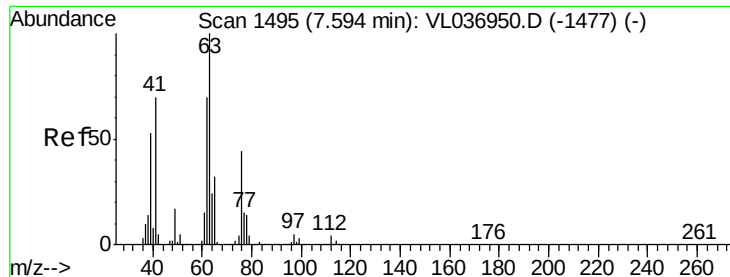
Tot Ion: 62 Resp: 1596185
 Ion Ratio Lower Upper
 62 100
 98 6.9 5.5 8.3



#38
 Trichloroethene
 Concen: 8.265 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion:130 Resp: 1202063
 Ion Ratio Lower Upper
 130 100
 95 105.3 86.9 130.3
 132 94.4 78.4 117.6
 97 68.8 55.0 82.6





#39

1,2-Dichloropropane

Concen: 9.149 ppbv

RT: 7.59 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

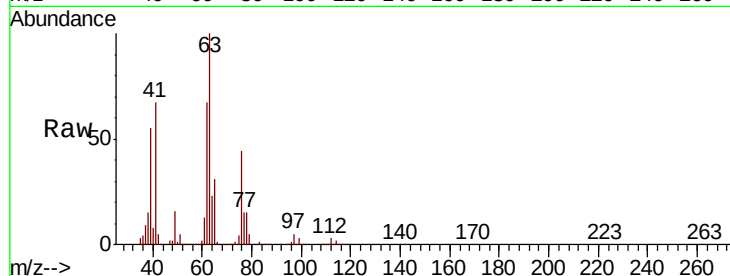
Tot Ion: 63 Resp: 1198164

Ion Ratio Lower Upper

63 100

41 66.9 55.7 83.5

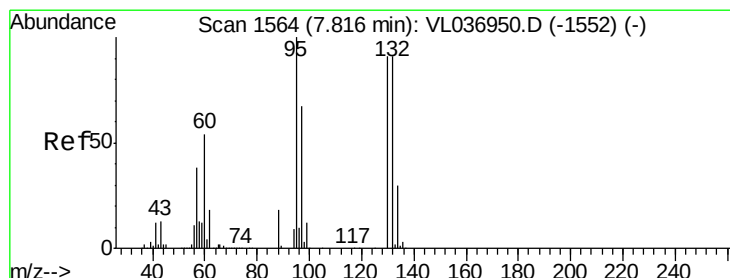
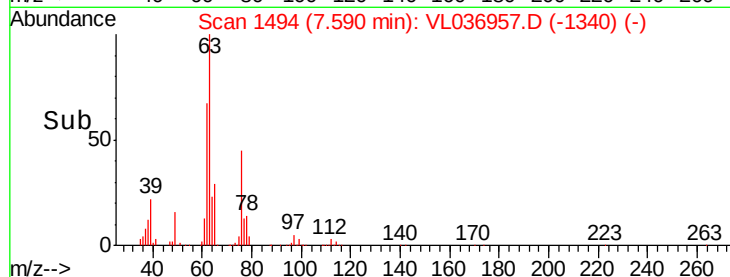
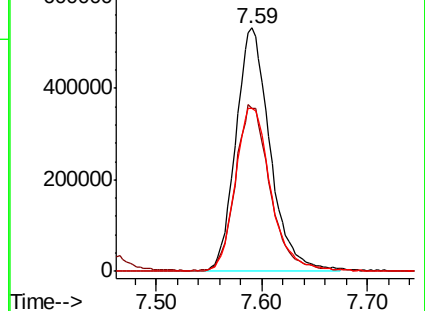
62 67.1 56.2 84.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 9.063 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion: 88 Resp: 280261

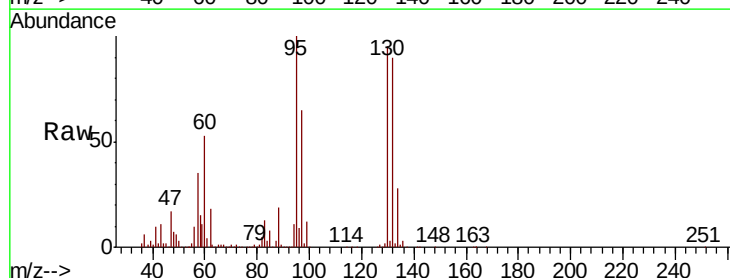
Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

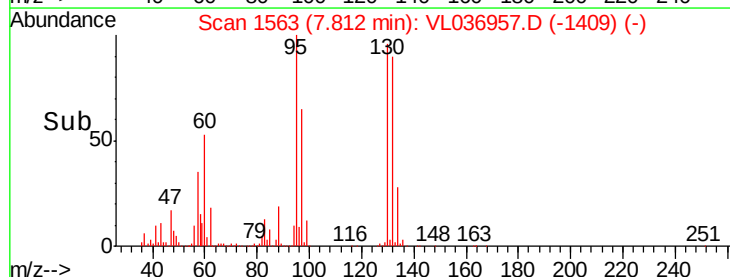
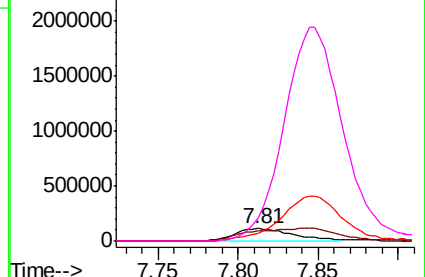


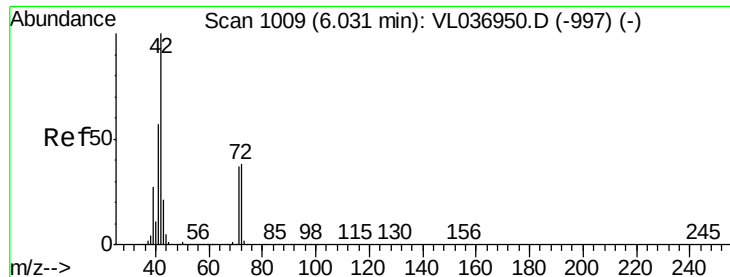
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 9.844 ppbv

RT: 6.03 min Scan# 1008

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

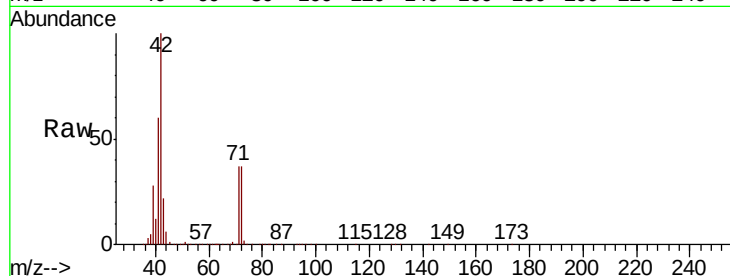
Tot Ion: 42 Resp: 785410

Ion Ratio Lower Upper

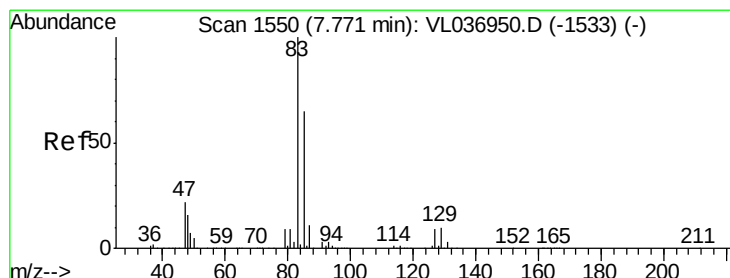
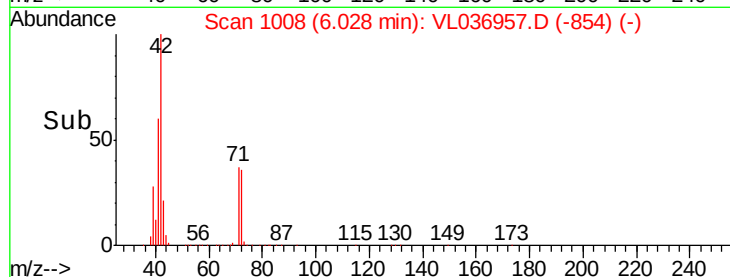
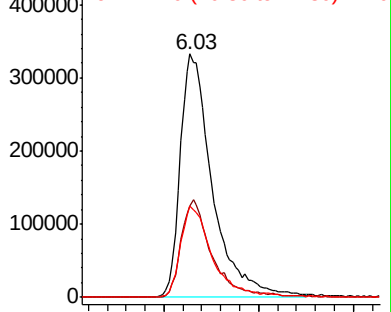
42 100

72 38.9 31.4 47.2

71 37.9 30.4 45.6



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: 9.349 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

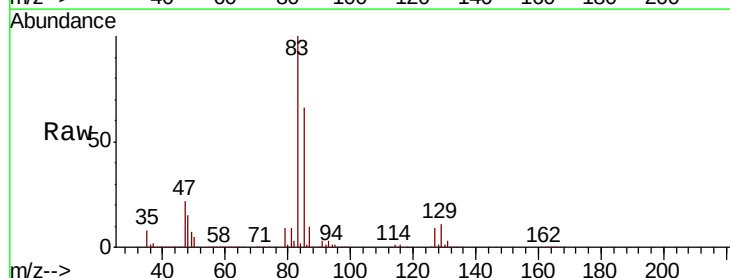
Tgt Ion: 83 Resp: 2383987

Ion Ratio Lower Upper

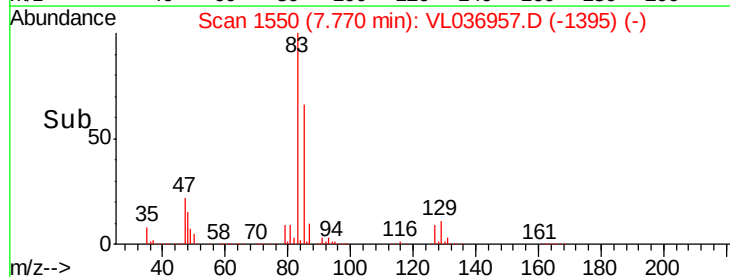
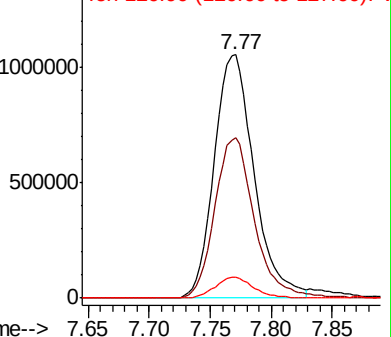
83 100

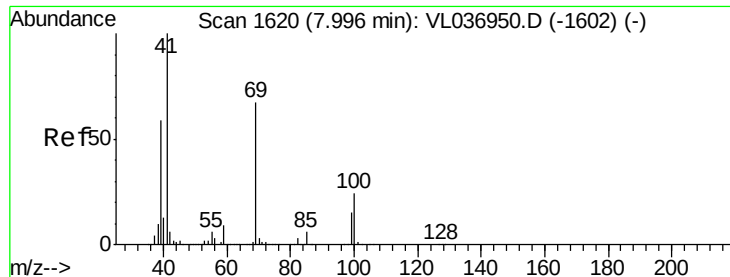
85 65.8 51.7 77.5

127 8.7 6.9 10.3



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: 9.795 ppbv

RT: 7.99 min Scan# 1619

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

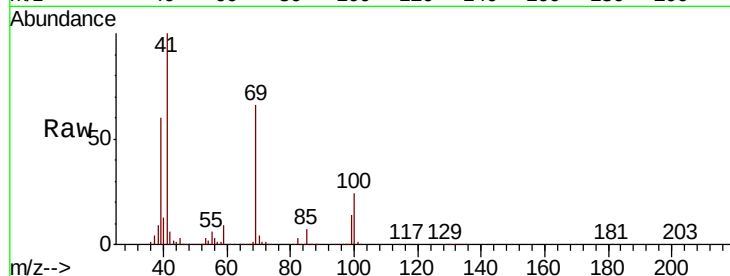
Tot Ion: 69 Resp: 1147714

Ion Ratio Lower Upper

69 100

41 147.3 118.6 178.0

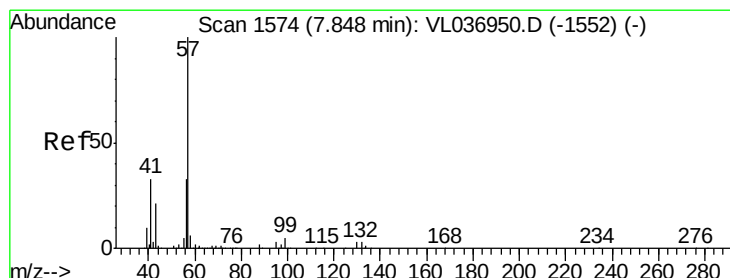
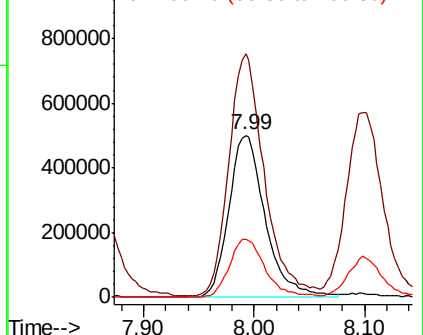
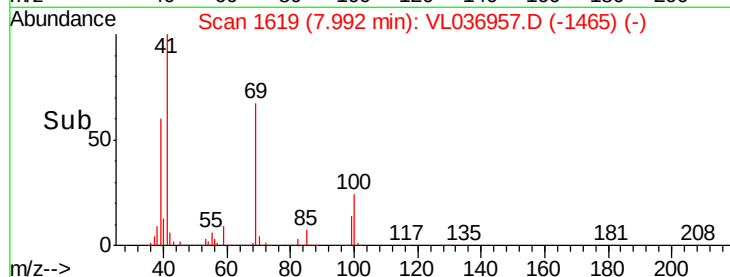
100 35.5 28.2 42.4



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 8.654 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

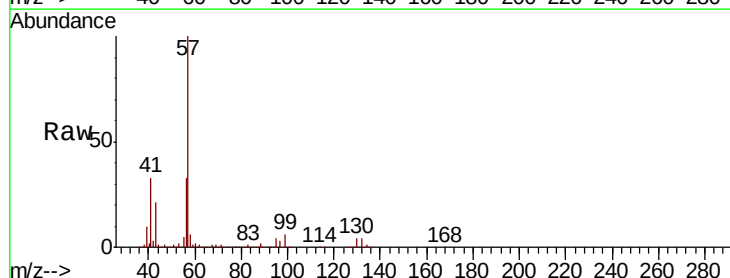
Tgt Ion: 57 Resp: 5047601

Ion Ratio Lower Upper

57 100

41 32.8 27.0 40.4

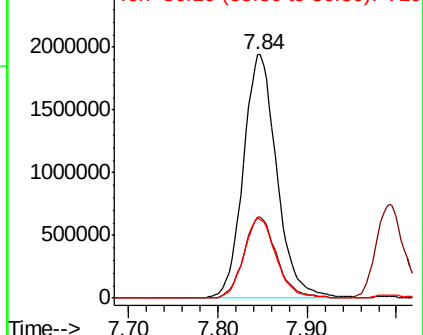
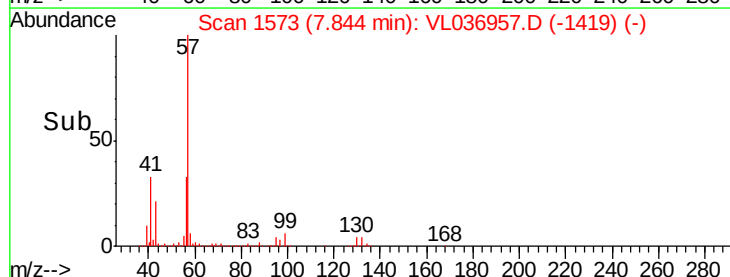
56 31.7 25.4 38.2

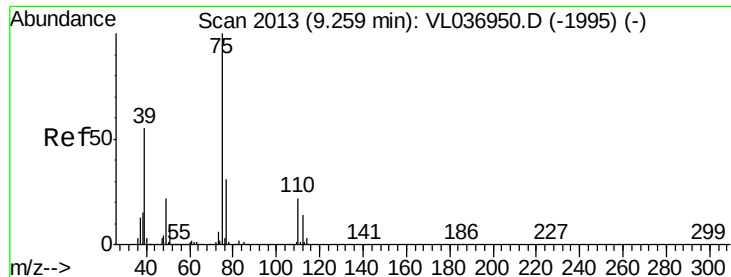


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 13.172 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

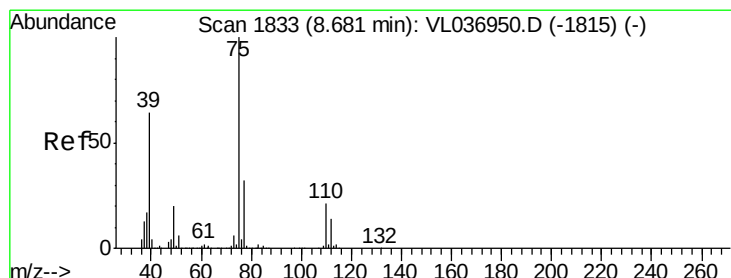
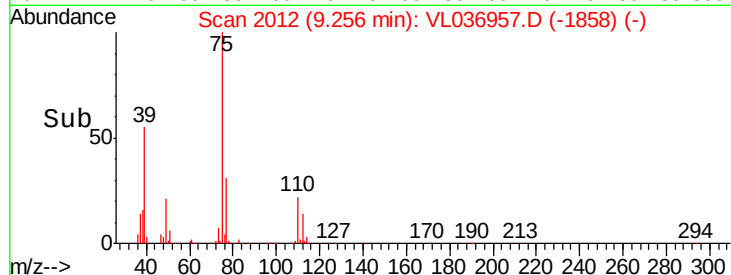
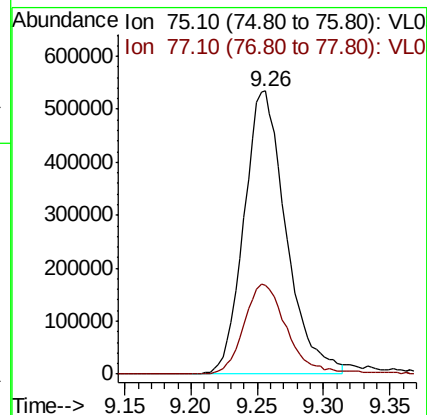
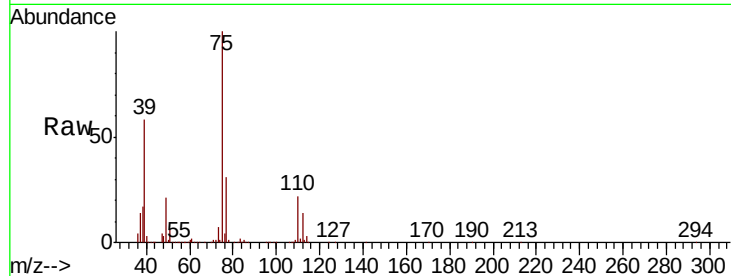
ICVVL051821

Tot Ion: 75 Resp: 1179194

Ion Ratio Lower Upper

75 100

77 31.2 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 12.521 ppbv

RT: 8.68 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

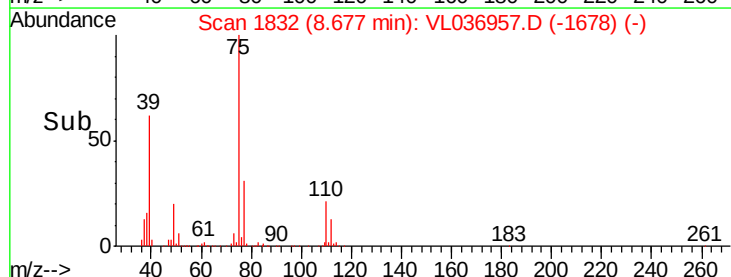
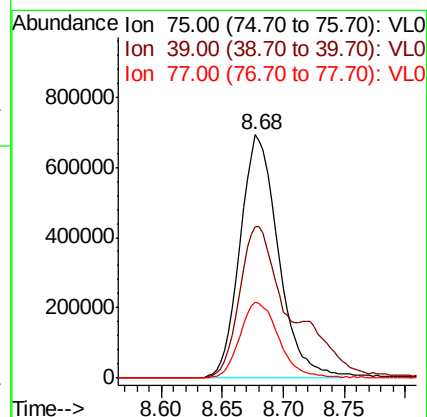
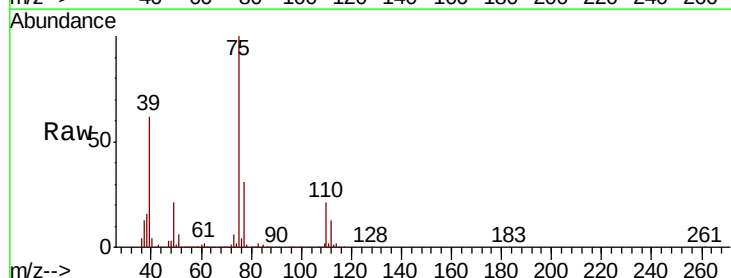
Tgt Ion: 75 Resp: 1507629

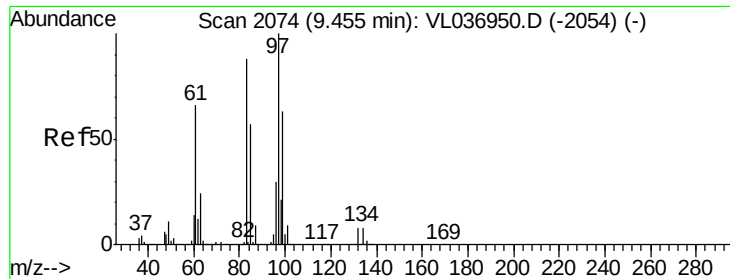
Ion Ratio Lower Upper

75 100

39 61.8 51.5 77.3

77 31.4 25.9 38.9



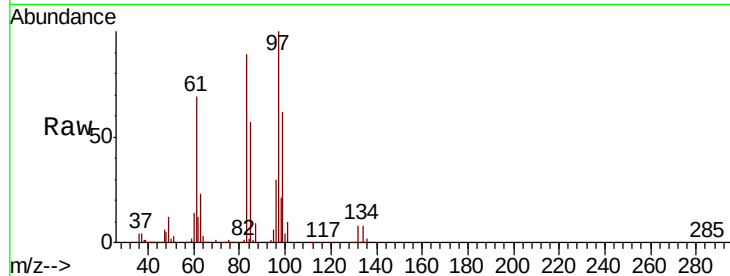


#47
 1,1,2-Trichloroethane
 Concen: 9.367 ppbv
 RT: 9.45 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

Tot Ion: 97 Resp: 1283969

Ion	Ratio	Lower	Upper
97	100		
83	89.4	70.4	105.6
85	57.3	45.5	68.3
99	62.1	50.2	75.2



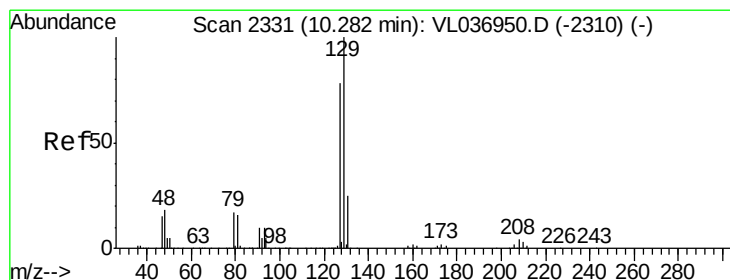
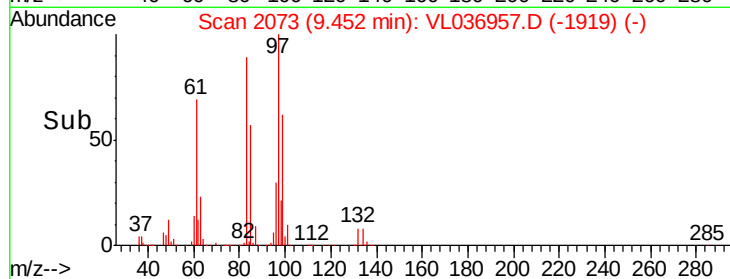
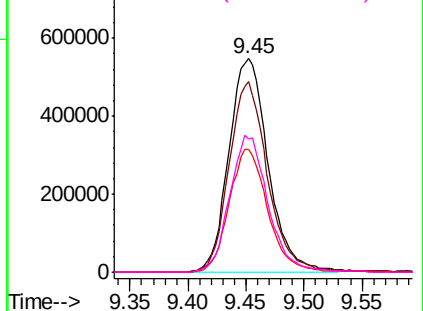
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

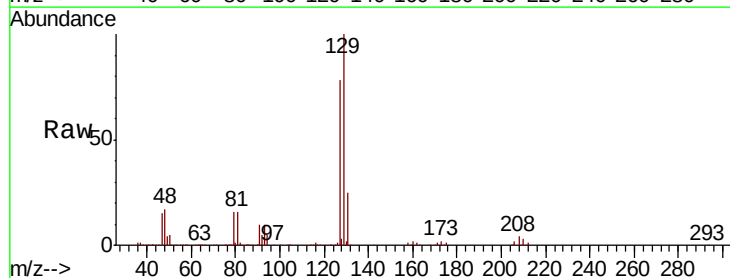
Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 9.971 ppbv
 RT: 10.28 min Scan# 2331
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion: 129 Resp: 2212935

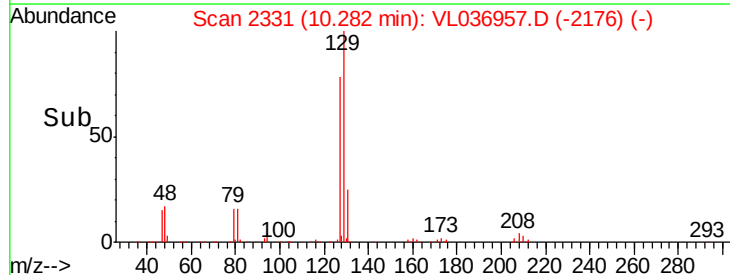
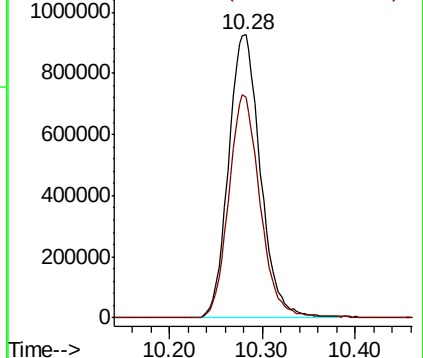
Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.3	117.8

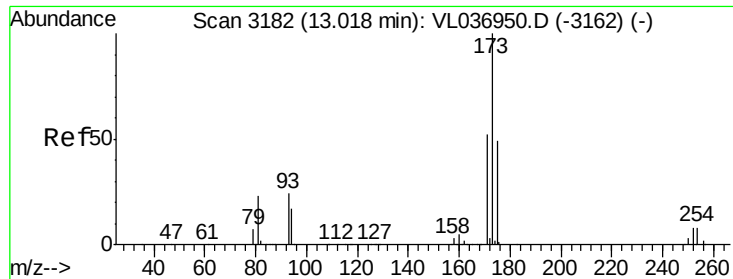


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.431 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

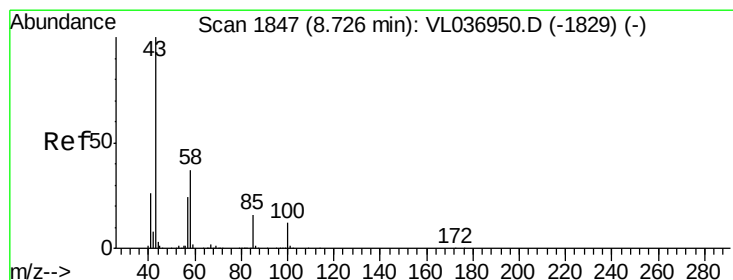
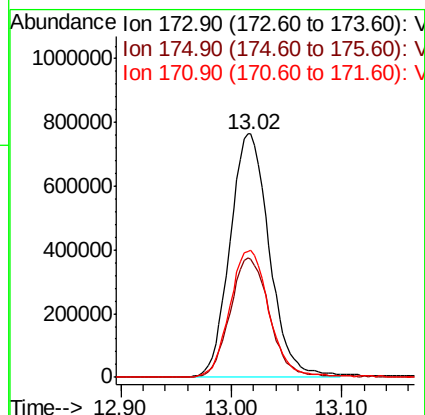
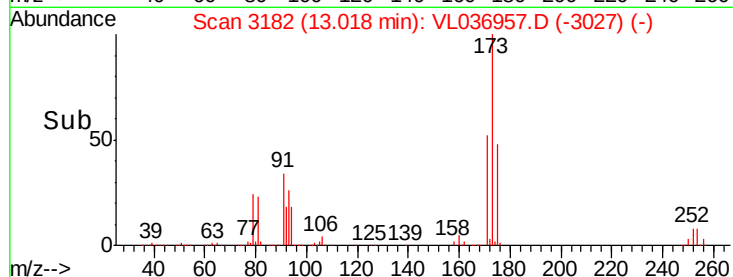
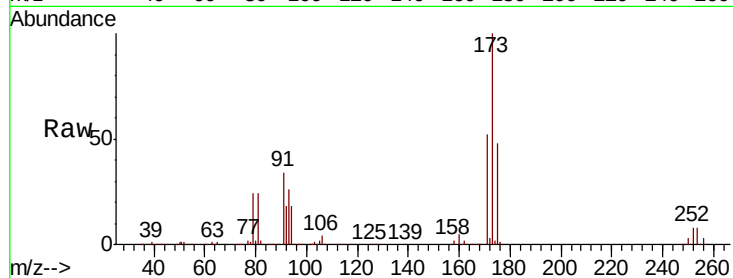
Tot Ion:173 Resp: 1884173

Ion Ratio Lower Upper

173 100

175 50.3 40.4 60.6

171 52.9 42.6 64.0



#50

4-Methyl-2-Pentanone

Concen: 9.299 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.01 min

Lab File: VL036957.D

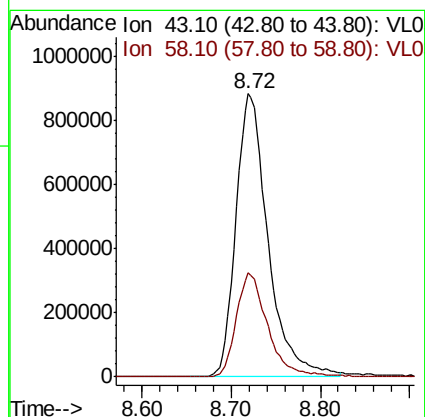
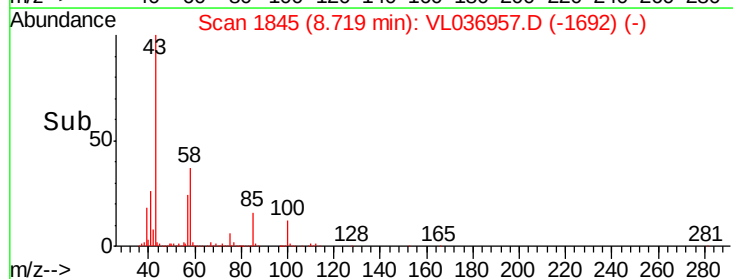
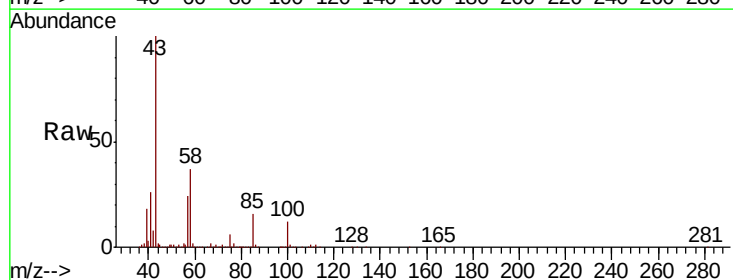
Acq: 18 May 2021 6:25

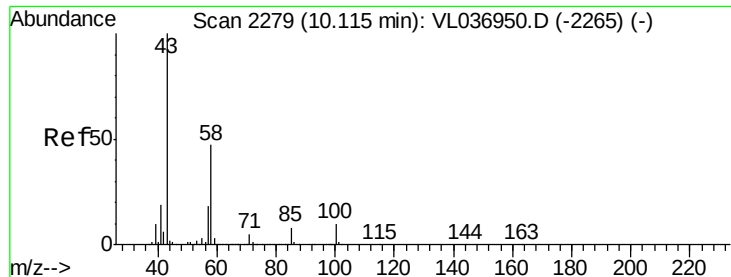
Tgt Ion: 43 Resp: 2205265

Ion Ratio Lower Upper

43 100

58 36.7 29.4 44.2





#51

2-Hexanone

Concen: 9.547 ppbv

RT: 10.11 min Scan# 2278

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

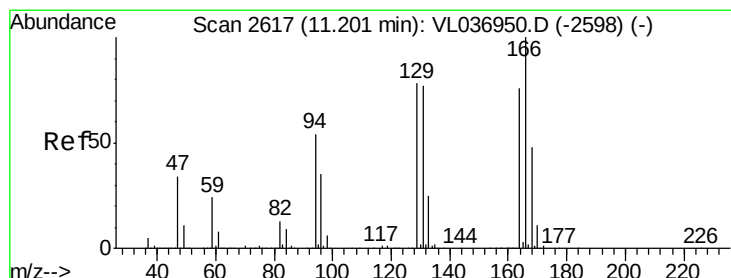
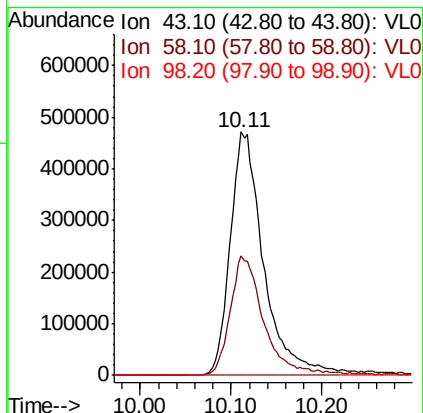
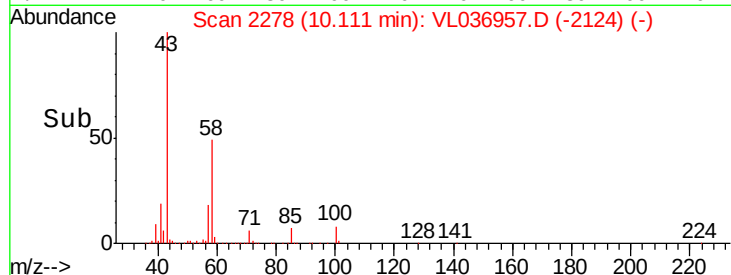
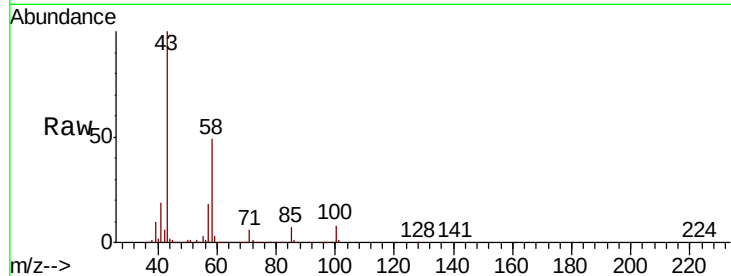
Tot Ion: 43 Resp: 1196898

Ion Ratio Lower Upper

43 100

58 50.4 41.1 61.7

98 0.1 0.1 0.1



#52

Tetrachloroethene

Concen: 9.029 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion: 164 Resp: 1220608

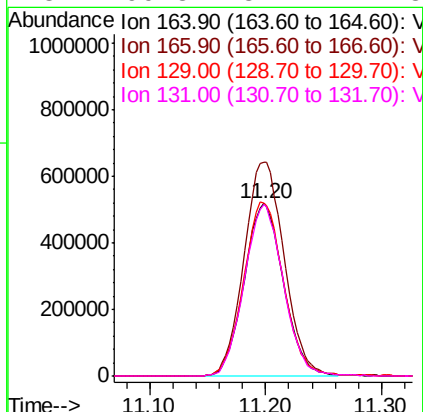
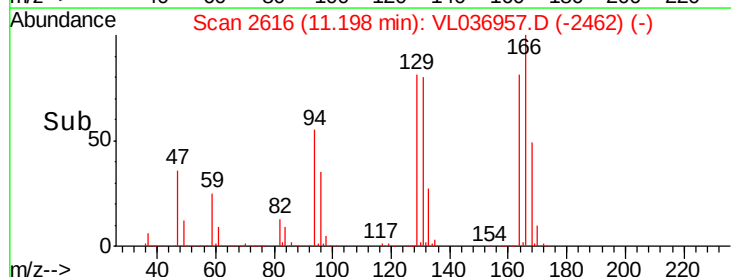
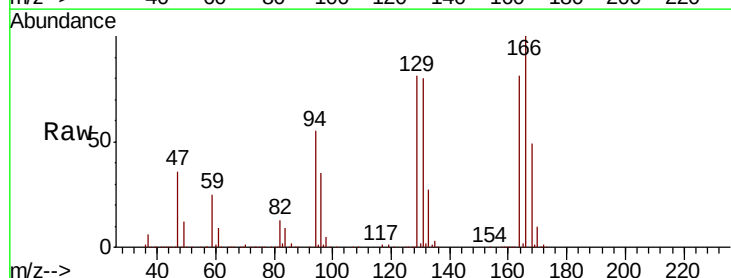
Ion Ratio Lower Upper

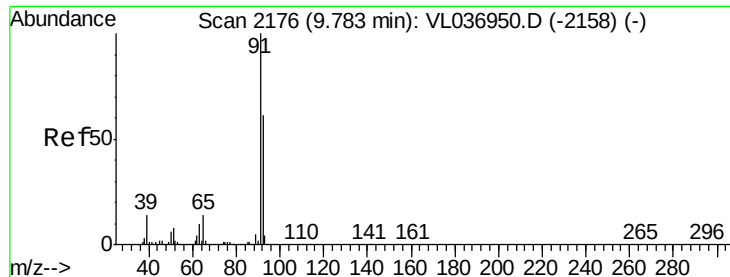
164 100

166 123.9 105.5 158.3

129 100.7 81.8 122.8

131 99.3 81.2 121.8





#53

Toluene

Concen: 9.115 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

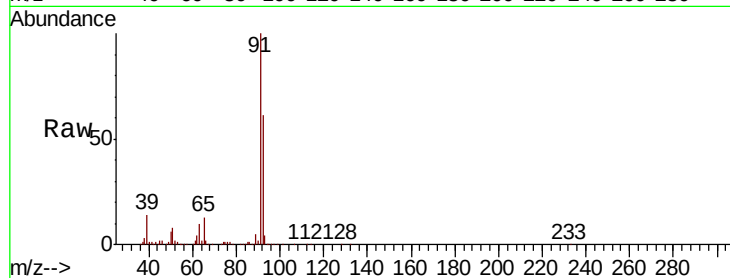
ICVVL051821

Tot Ion: 91 Resp: 3687332

Ion Ratio Lower Upper

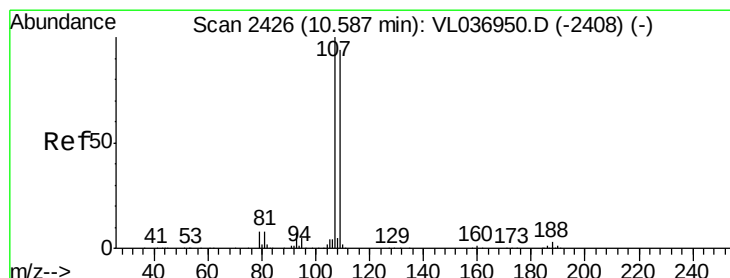
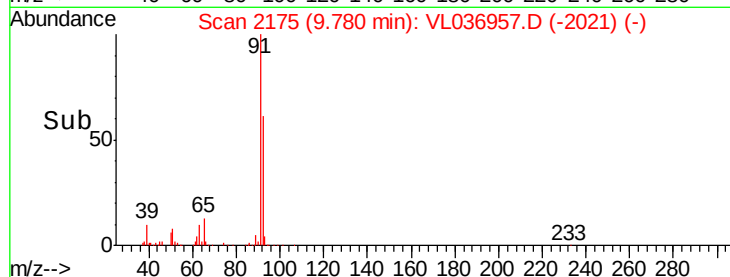
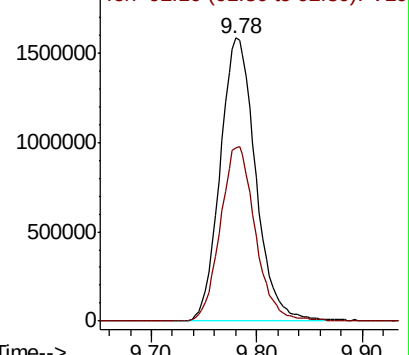
91 100

92 61.3 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.628 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.00 min

Lab File: VL036957.D

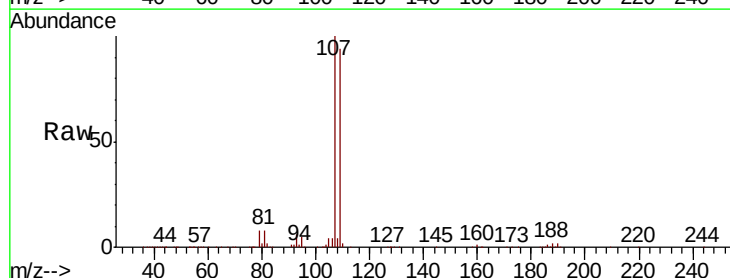
Acq: 18 May 2021 6:25

Tgt Ion:107 Resp: 1876213

Ion Ratio Lower Upper

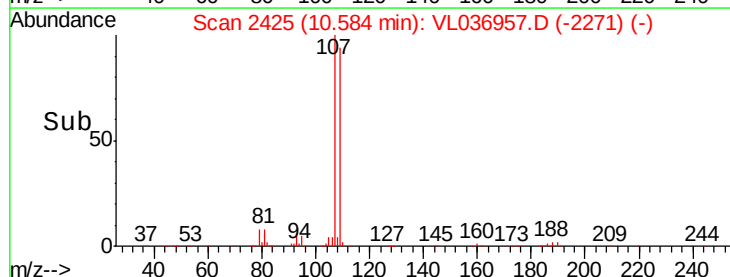
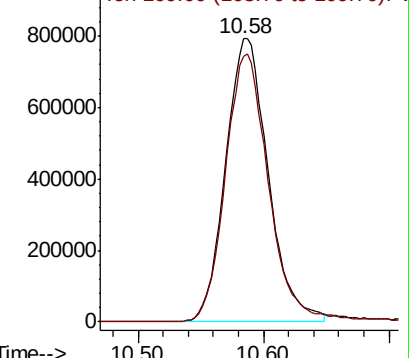
107 100

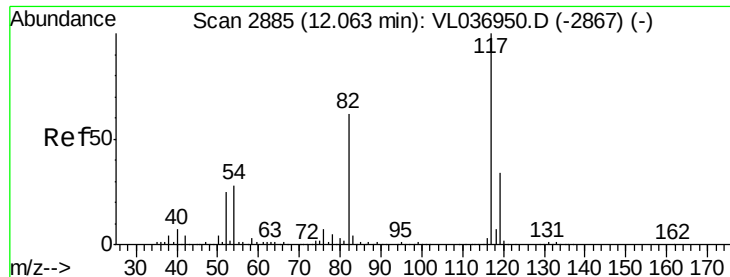
109 93.9 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

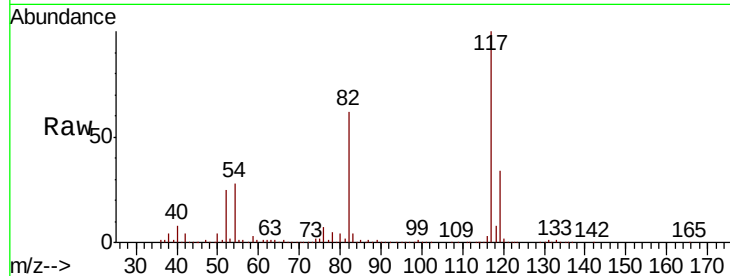




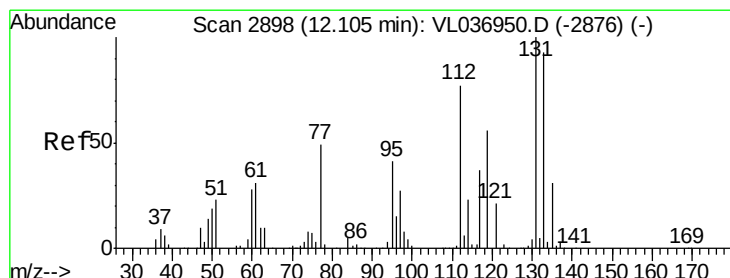
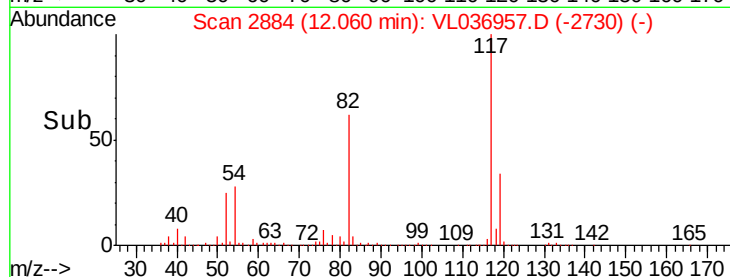
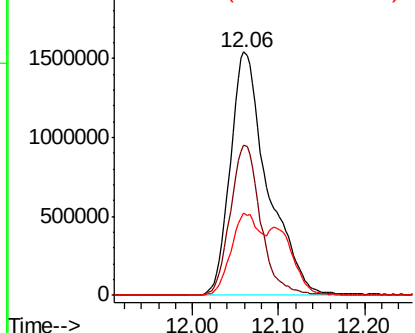
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

Tot Ion:117 Resp: 4633658
Ion Ratio Lower Upper
117 100
82 51.4 52.6 79.0#
119 46.4 46.6 70.0#

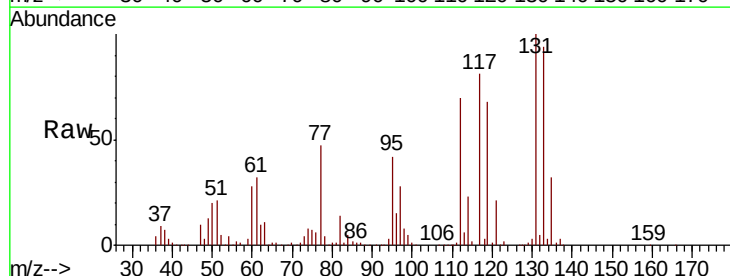


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

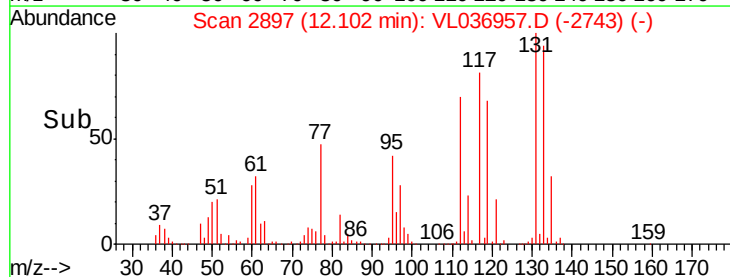
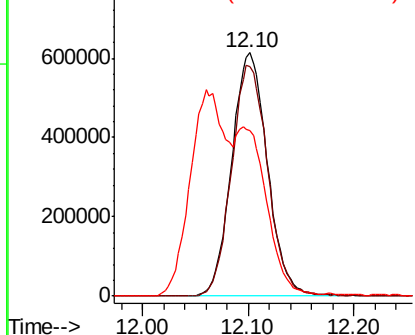


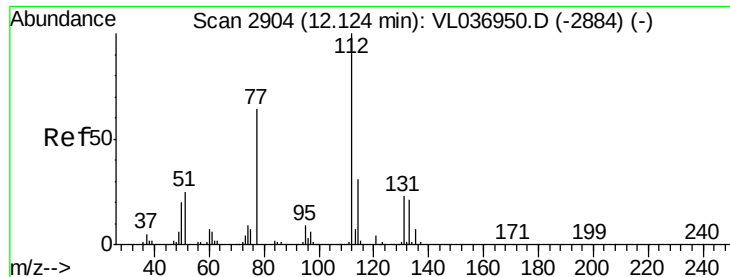
#56
1,1,1,2-Tetrachloroethane
Concen: 7.389 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion:131 Resp: 1440689
Ion Ratio Lower Upper
131 100
133 96.9 76.9 115.3
119 149.4 120.2 180.4



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

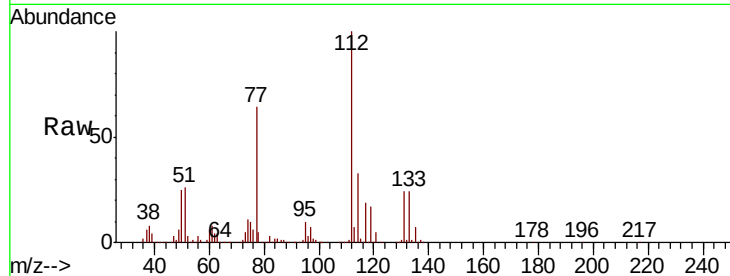




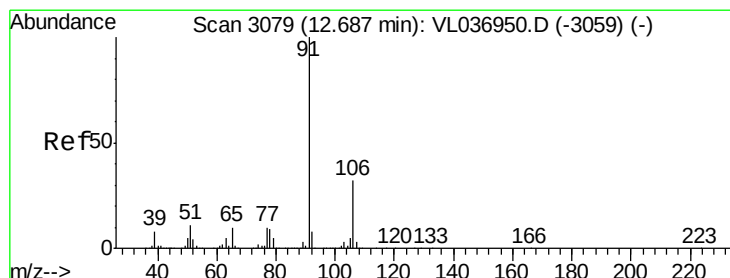
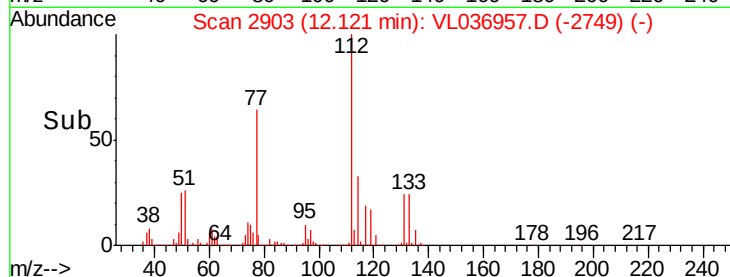
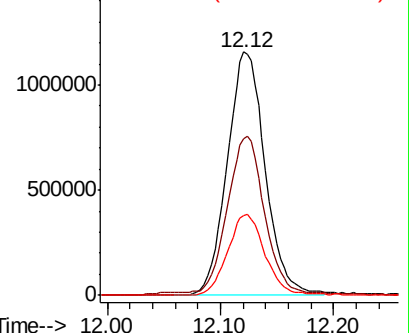
#57
Chlorobenzene
Concen: 7.522 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

Tot Ion:112 Resp: 2702622
Ion Ratio Lower Upper
112 100
77 63.1 51.0 76.6
114 32.8 28.3 34.5

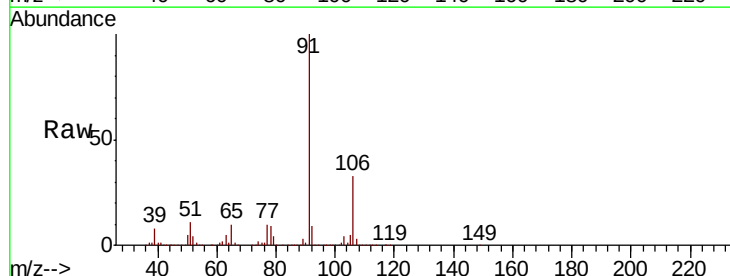


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

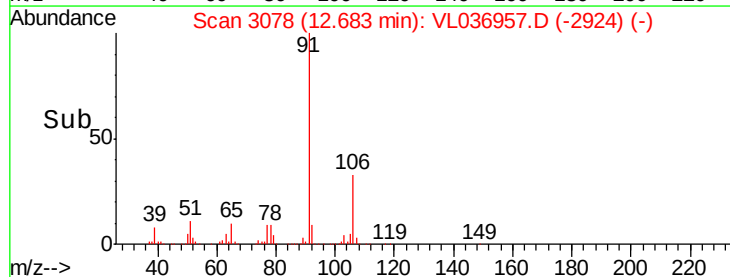
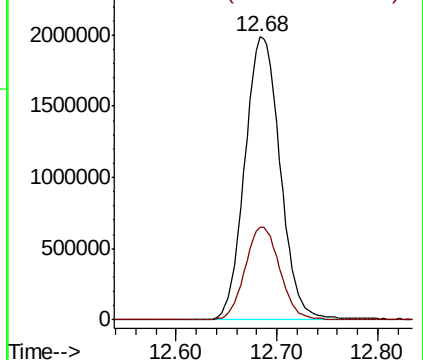


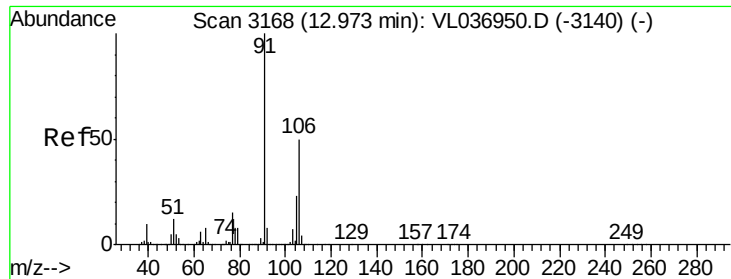
#58
Ethyl Benzene
Concen: 7.369 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion: 91 Resp: 4819298
Ion Ratio Lower Upper
91 100
106 32.9 25.6 38.4



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





#59

m/p-Xylene

Concen: 7.743 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

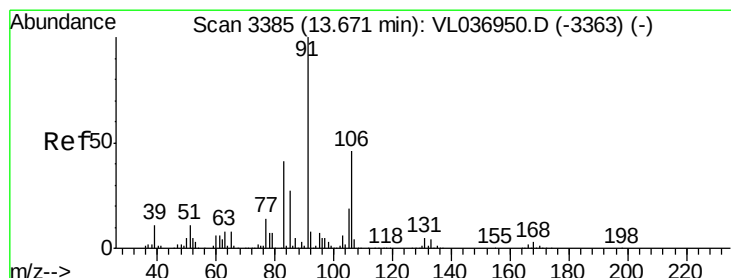
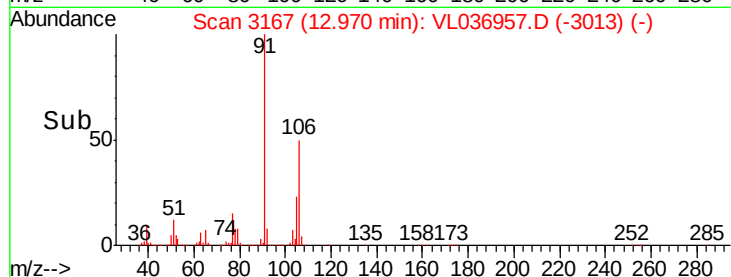
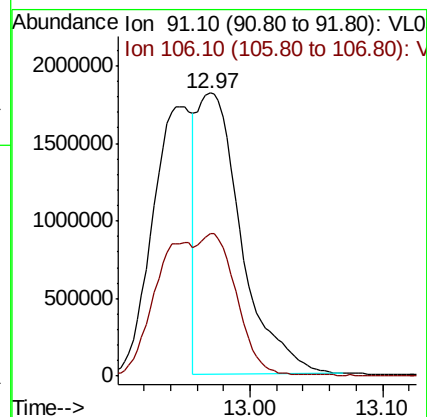
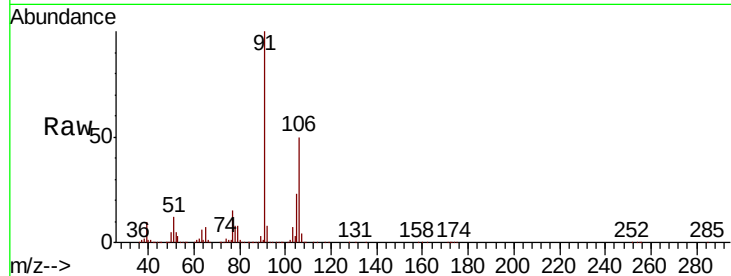
ICVVL051821

Tot Ion: 91 Resp: 4185663

Ion Ratio Lower Upper

91 100

106 88.6 37.4 56.2#



#60

o-Xylene

Concen: 7.275 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VL036957.D

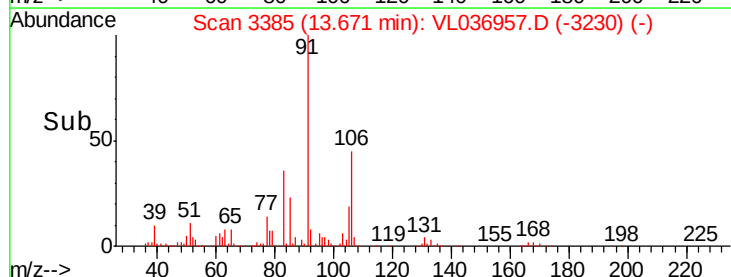
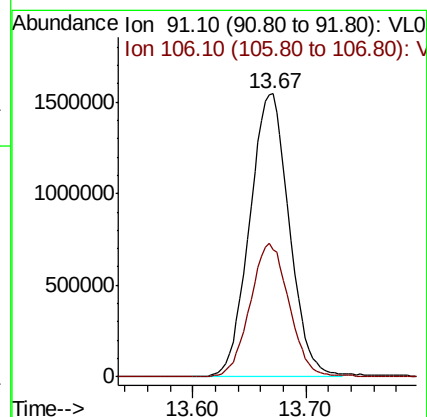
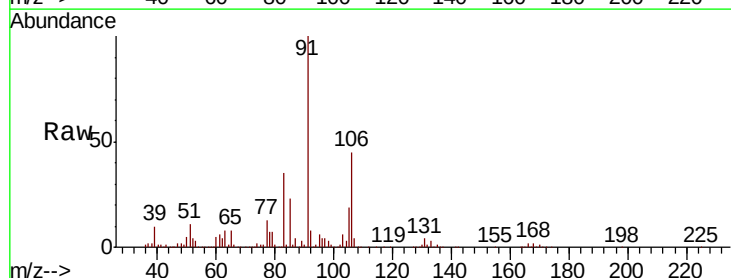
Acq: 18 May 2021 6:25

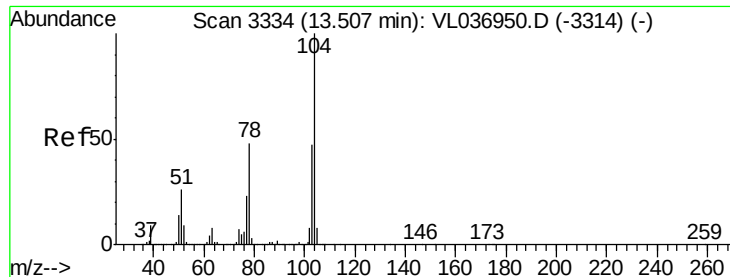
Tgt Ion: 91 Resp: 3750651

Ion Ratio Lower Upper

91 100

106 47.0 23.4 70.3





#61

Stvrene

Concen: 8.105 ppbv

RT: 13.50 min Scan# 3333

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

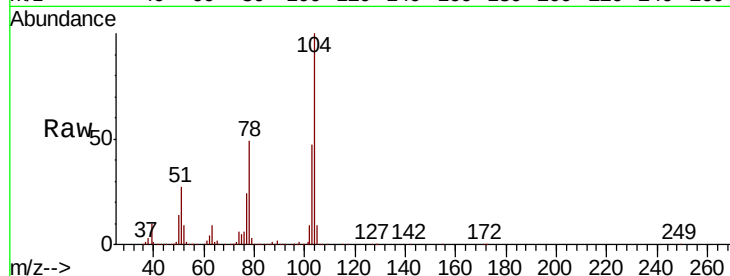
Tot Ion:104 Resp: 2354153

Ion Ratio Lower Upper

104 100

78 48.3 39.0 58.6

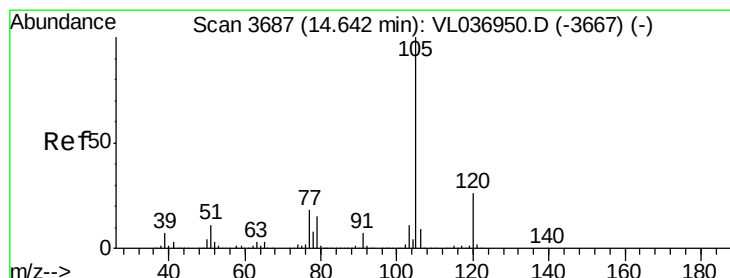
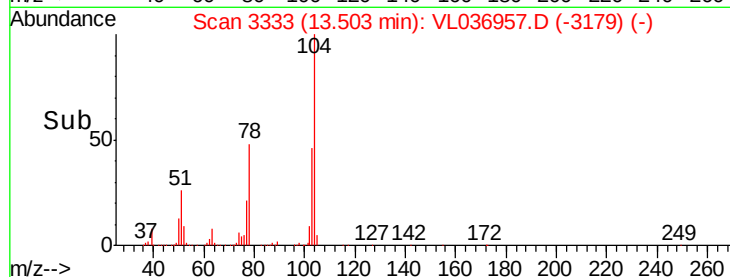
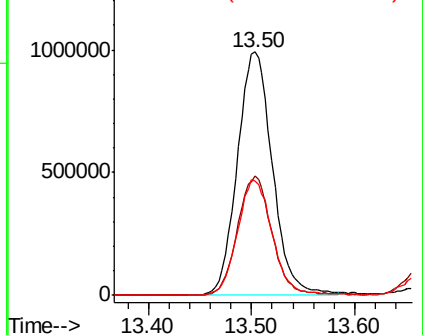
103 47.4 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.172 ppbv

RT: 14.64 min Scan# 3687

Delta R.T. -0.00 min

Lab File: VL036957.D

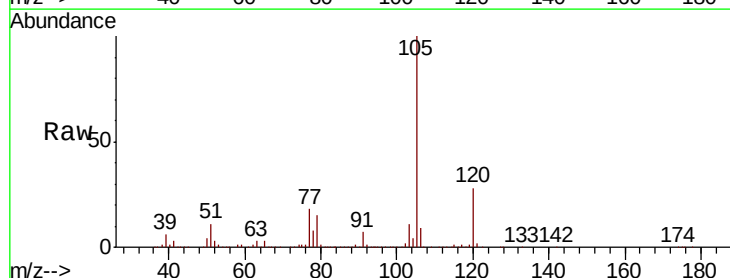
Acq: 18 May 2021 6:25

Tgt Ion:105 Resp: 5314453

Ion Ratio Lower Upper

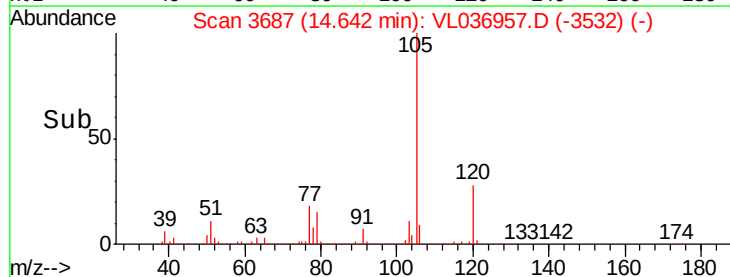
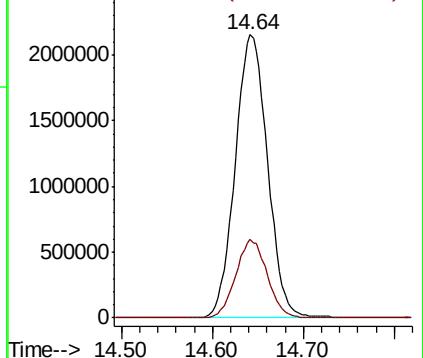
105 100

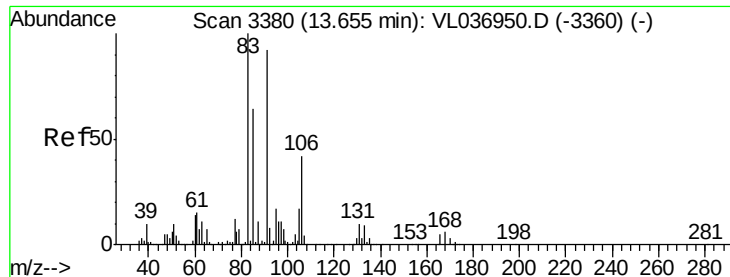
120 27.0 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 6.818 ppbv

RT: 13.65 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

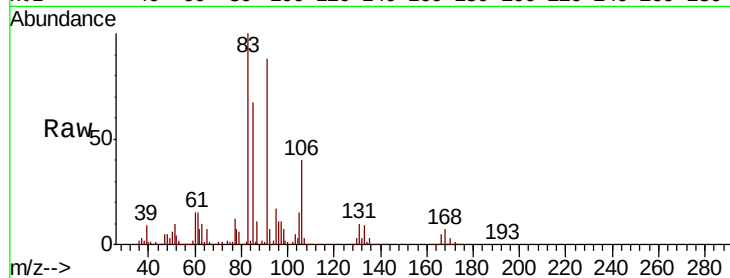
MSVOA_L

ClientSampleId :

ICVVL051821

Tot Ion: 83 Resp: 2608655

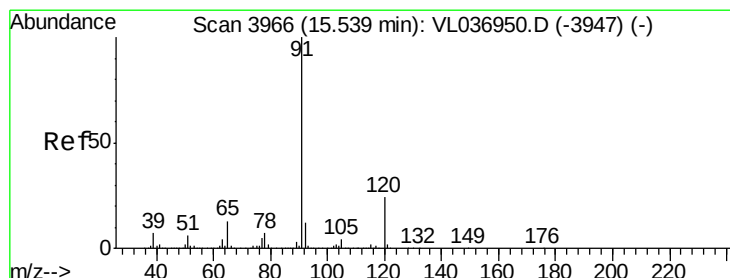
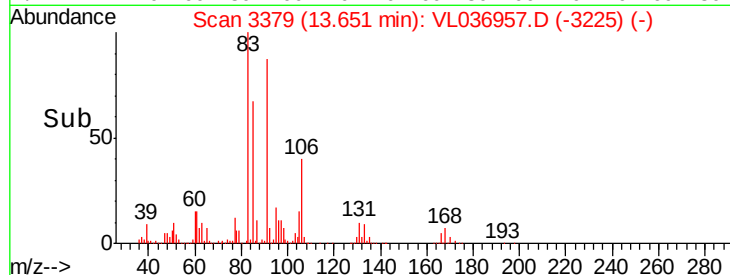
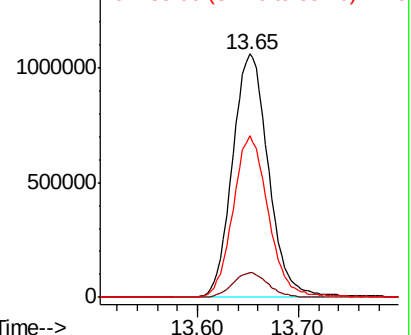
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.0	15.0
85	65.8	32.9	98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.635 ppbv

RT: 15.54 min Scan# 3966

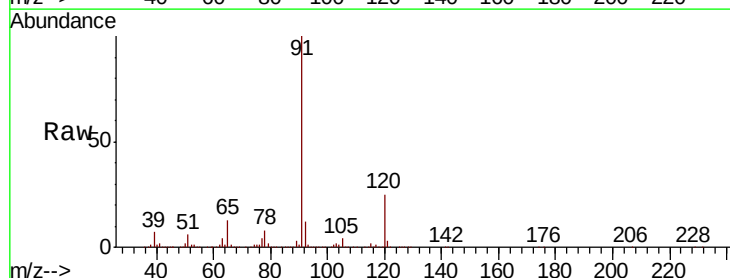
Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

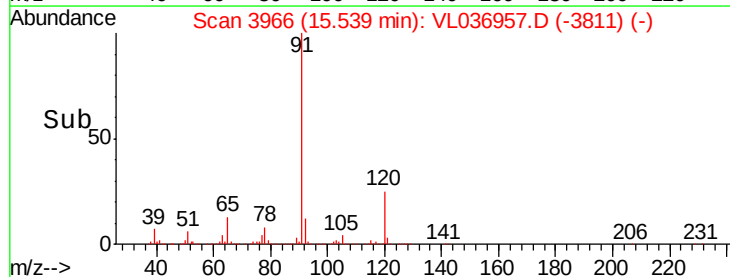
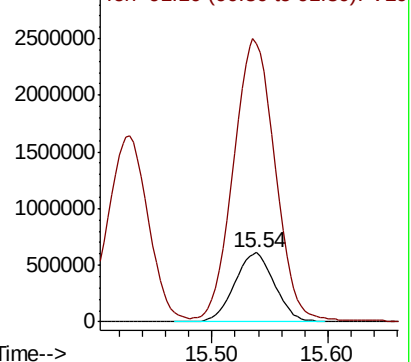
Tgt Ion:120 Resp: 1459720

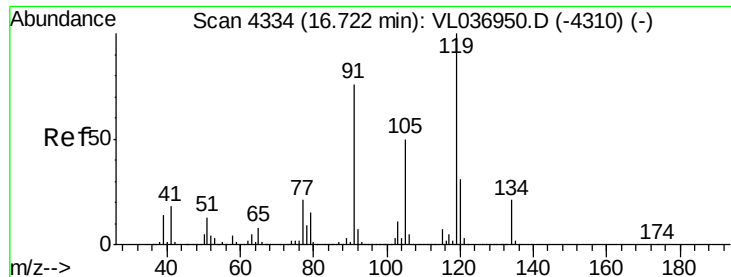
Ion	Ratio	Lower	Upper
120	100		
91	430.2	343.8	515.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

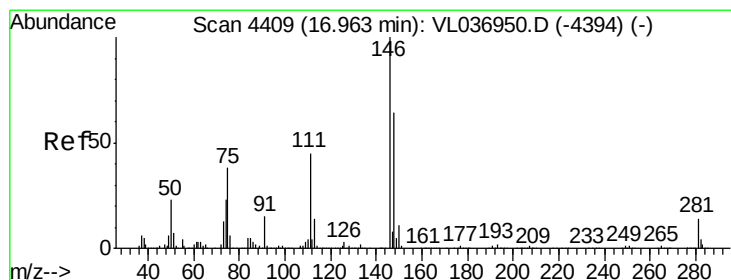
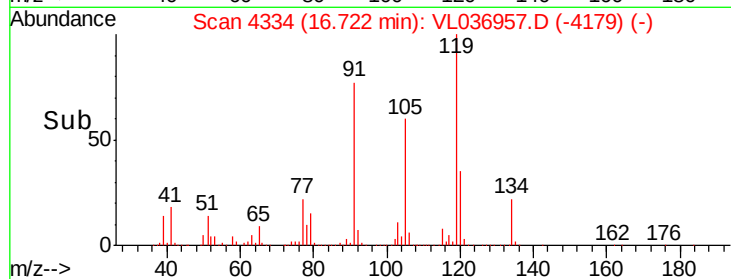
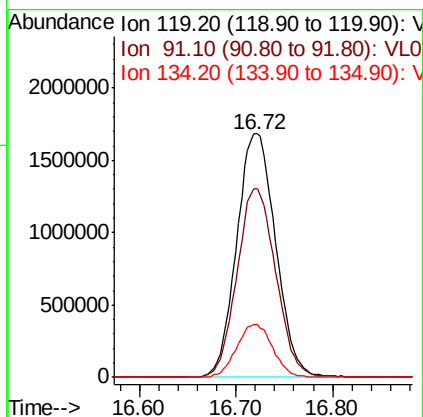
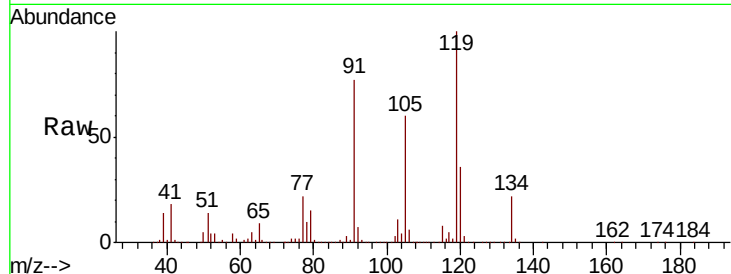




#65
tert-Butylbenzene
Concen: 7.047 ppbv
RT: 16.72 min Scan# 4334
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

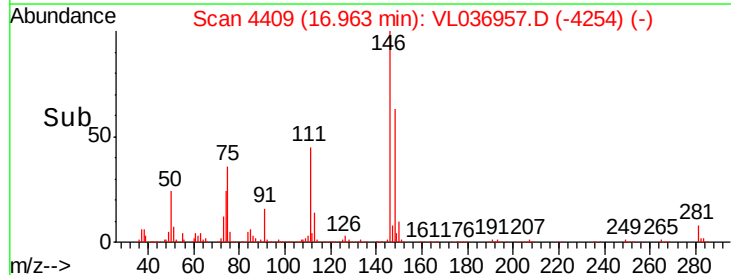
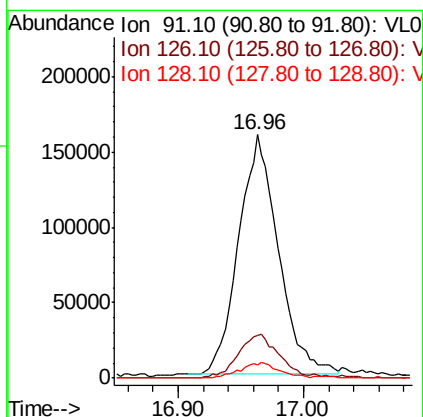
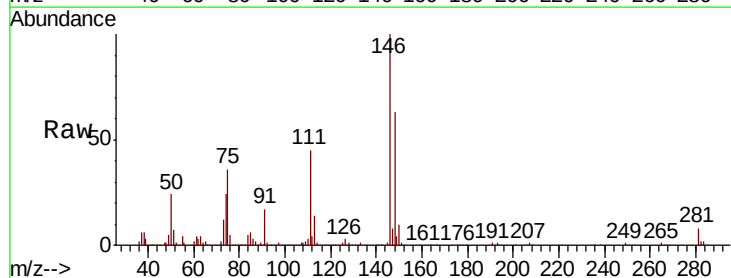
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

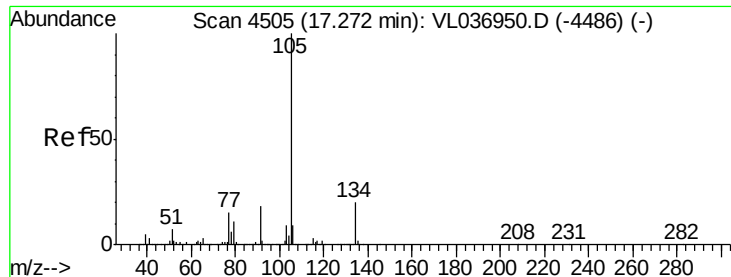
Tot Ion: 119 Resp: 4711742
Ion Ratio Lower Upper
119 100
91 77.2 61.9 92.9
134 20.4 16.2 24.4



#66
Benzyl Chloride
Concen: 9.474 ppbv
RT: 16.96 min Scan# 4409
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion: 91 Resp: 351465
Ion Ratio Lower Upper
91 100
126 19.8 16.5 24.7
128 6.8 5.5 8.3





#67

sec-Butylbenzene

Concen: 7.097 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

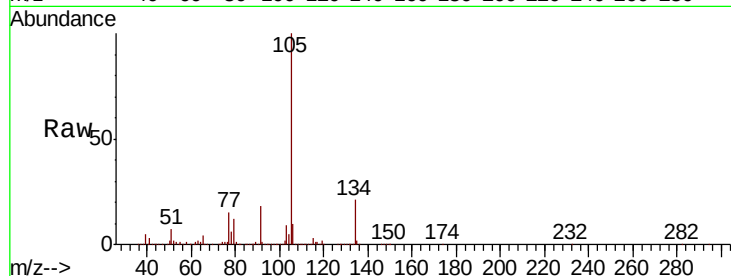
ICVVL051821

Tot Ion:105 Resp: 6472855

Ion Ratio Lower Upper

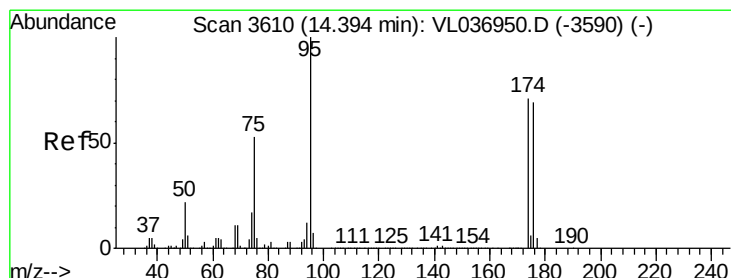
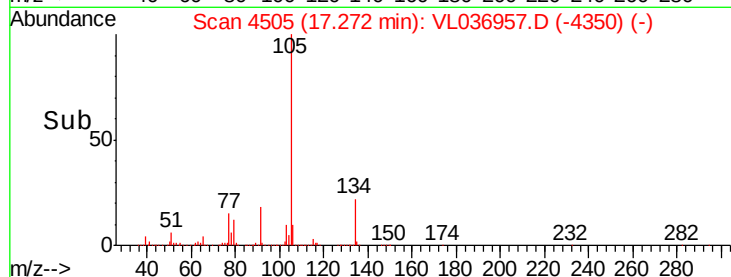
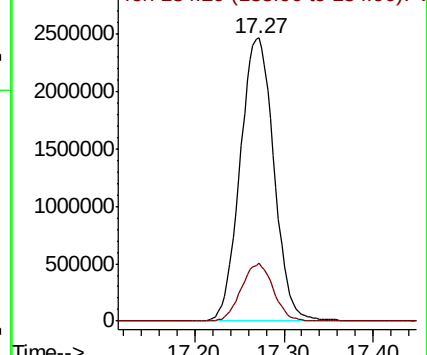
105 100

134 19.5 15.6 23.4



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: 8.332 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

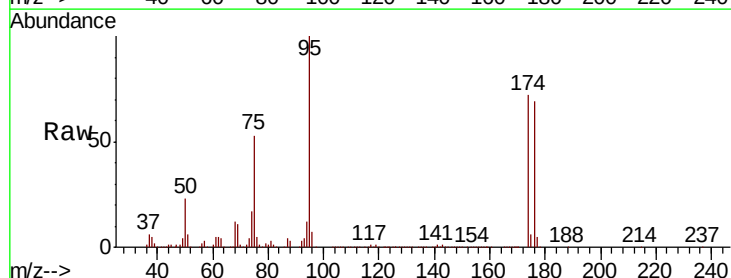
Tgt Ion: 95 Resp: 2900281

Ion Ratio Lower Upper

95 100

174 73.9 58.4 87.6

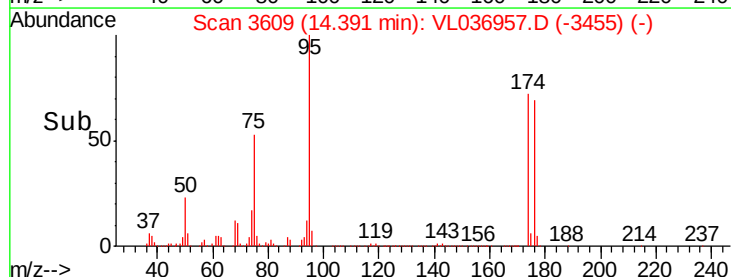
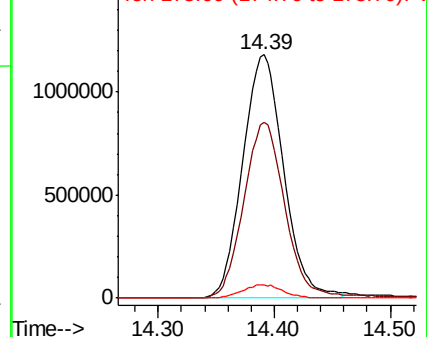
175 5.7 4.4 6.6

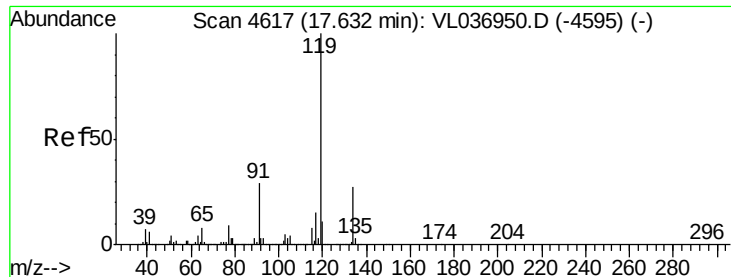


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

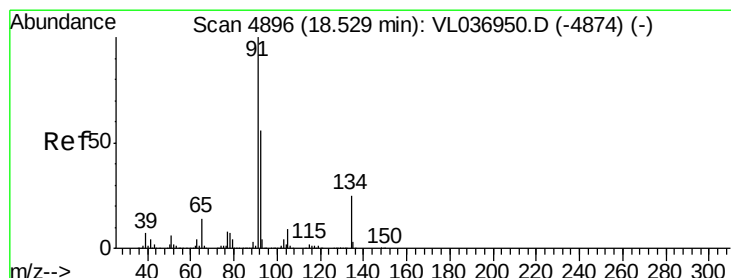
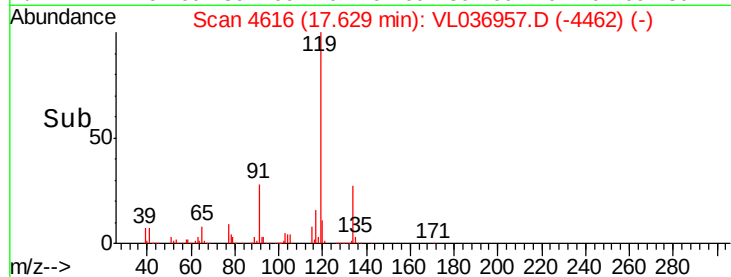
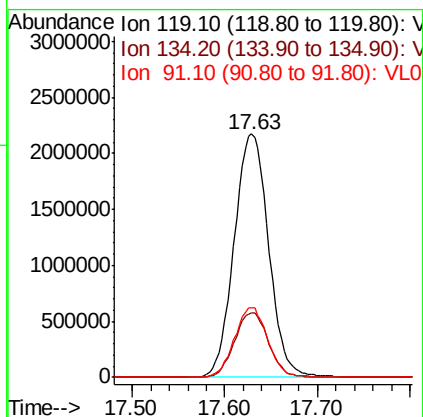
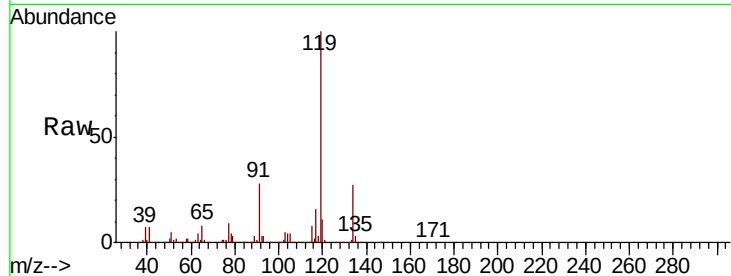




#69
 p-Isopropyltoluene
 Concen: 7.136 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

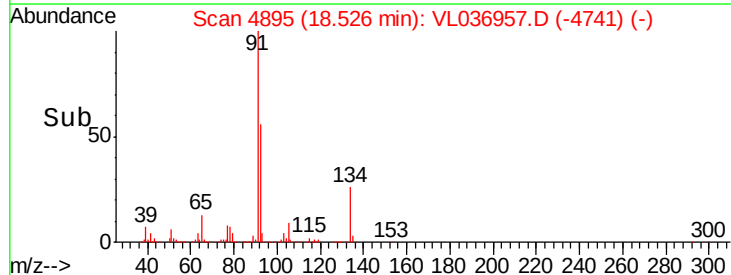
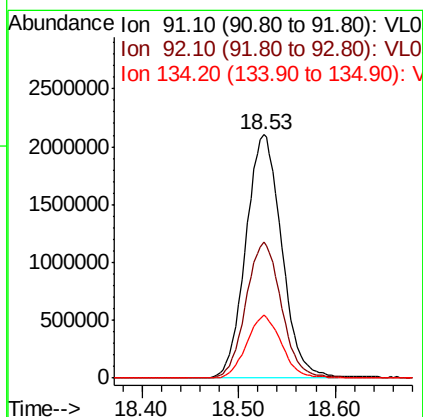
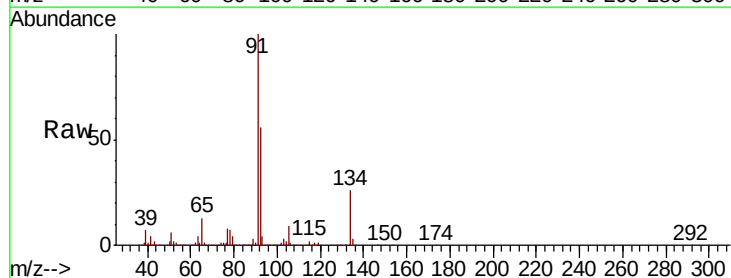
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL051821

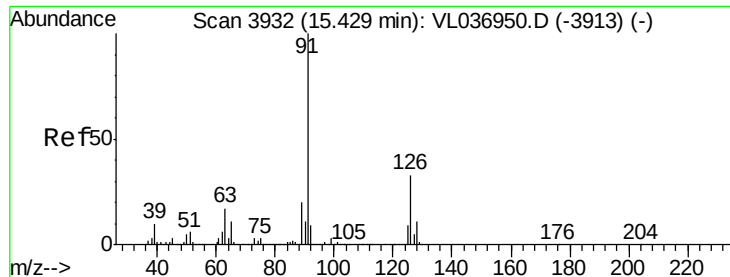
Tot Ion: 119 Resp: 5596055
 Ion Ratio Lower Upper
 119 100
 134 26.3 21.2 31.8
 91 27.7 22.2 33.4



#70
 n-Butylbenzene
 Concen: 7.265 ppbv
 RT: 18.53 min Scan# 4895
 Delta R.T. -0.00 min
 Lab File: VL036957.D
 Acq: 18 May 2021 6:25

Tgt Ion: 91 Resp: 5412186
 Ion Ratio Lower Upper
 91 100
 92 55.5 44.6 66.8
 134 25.3 20.2 30.2





#71

2-Chlorotoluene

Concen: 7.425 ppbv

RT: 15.43 min Scan# 3932

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

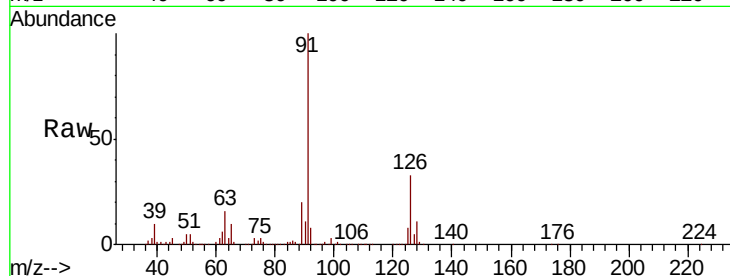
ICVVL051821

Tot Ion: 91 Resp: 3973456

Ion Ratio Lower Upper

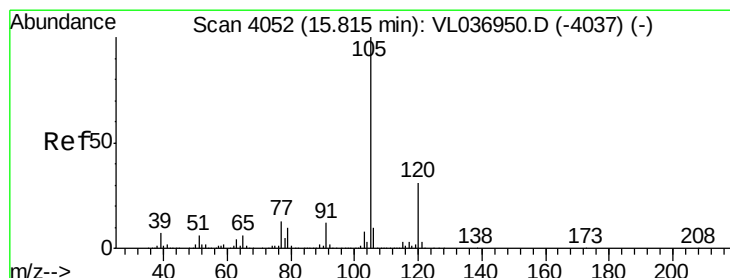
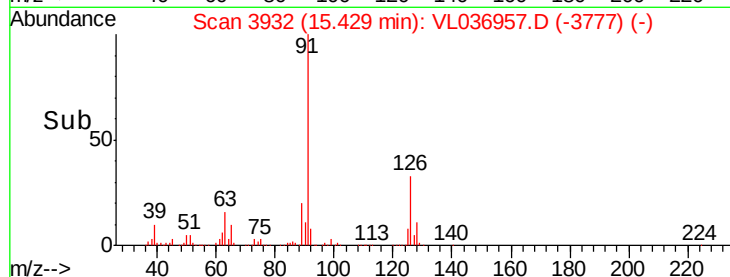
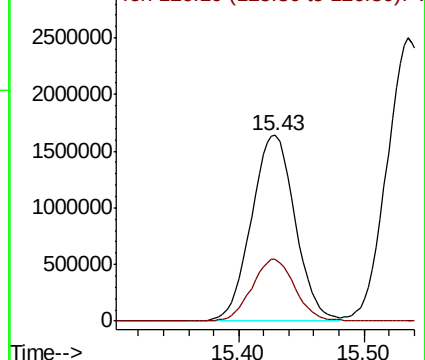
91 100

126 33.4 13.1 52.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.664 ppbv

RT: 15.82 min Scan# 4052

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion:105 Resp: 4689579

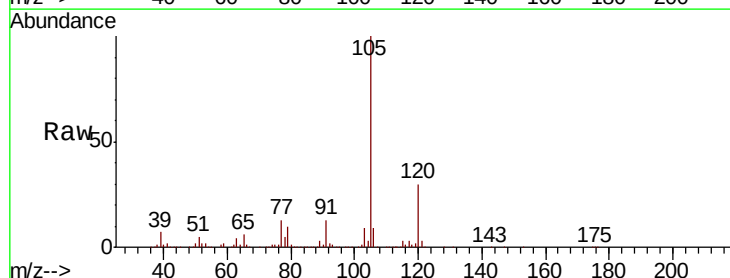
Ion Ratio Lower Upper

105 100

120 30.8 24.6 37.0

91 12.3 9.8 14.6

77 13.0 10.4 15.6

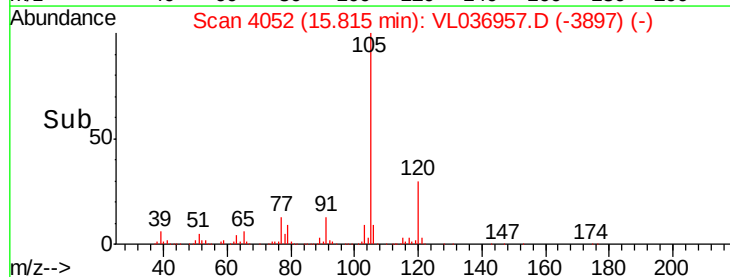
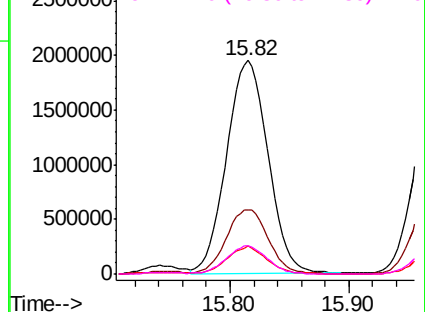


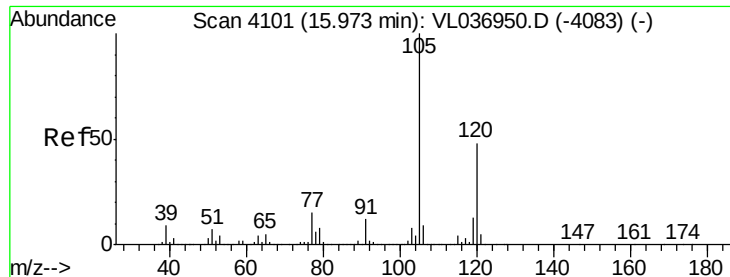
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 7.509 ppbv

RT: 15.97 min Scan# 4100

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

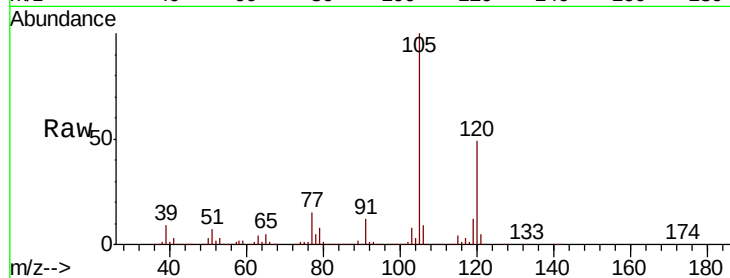
ICVVL051821

Tot Ion:105 Resp: 4198743

Ion Ratio Lower Upper

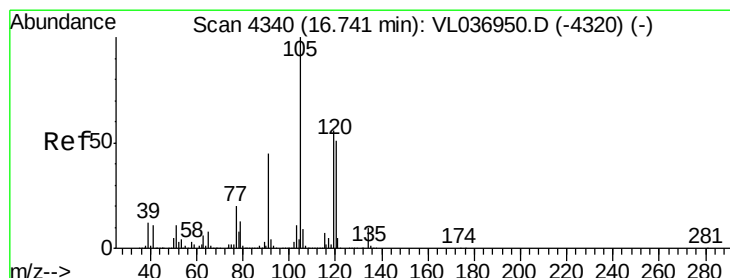
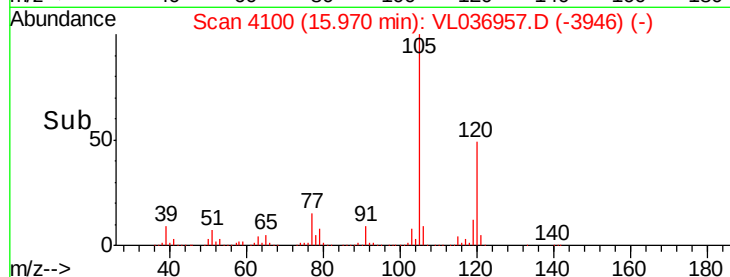
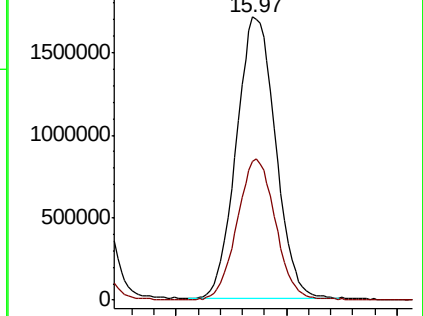
105 100

120 49.0 38.6 58.0



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: 7.246 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Tgt Ion:105 Resp: 4305103

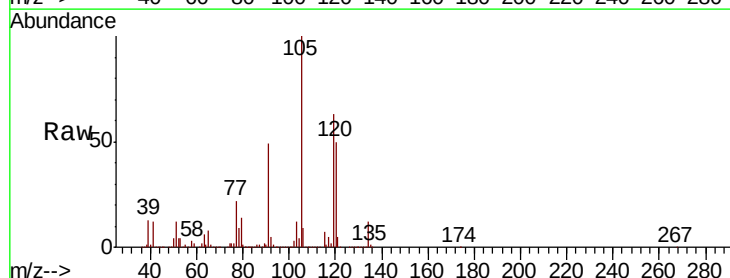
Ion Ratio Lower Upper

105 100

120 49.7 40.6 61.0

91 48.4 37.4 56.0

77 21.6 16.2 24.4

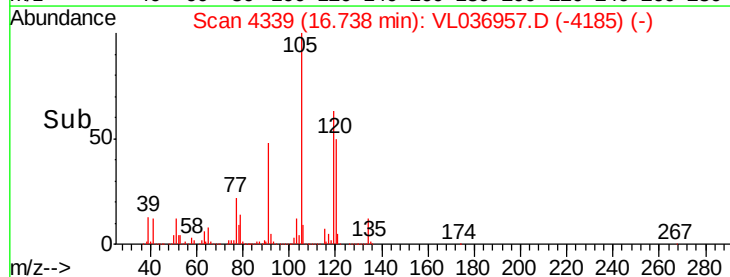
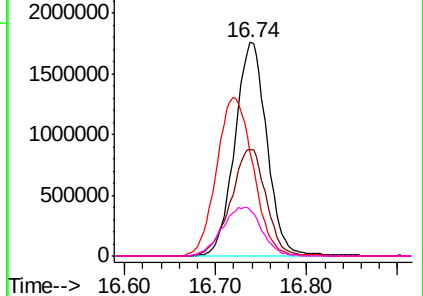


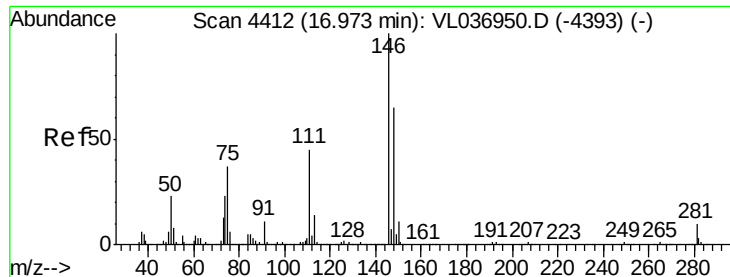
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.567 ppbv

RT: 16.97 min Scan# 4412

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

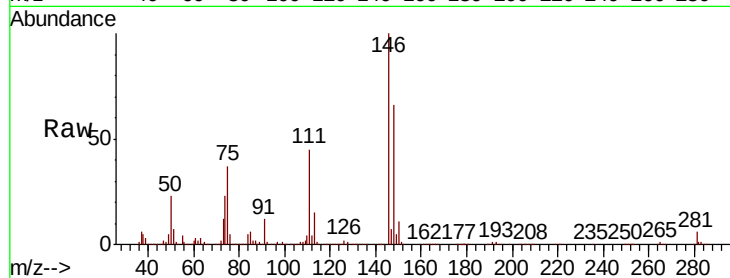
Tot Ion:146 Resp: 2700340

Ion Ratio Lower Upper

146 100

111 45.0 22.2 66.6

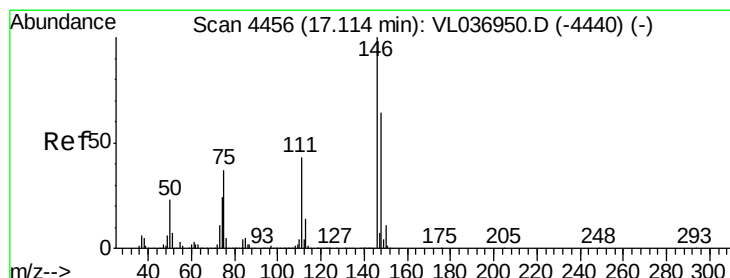
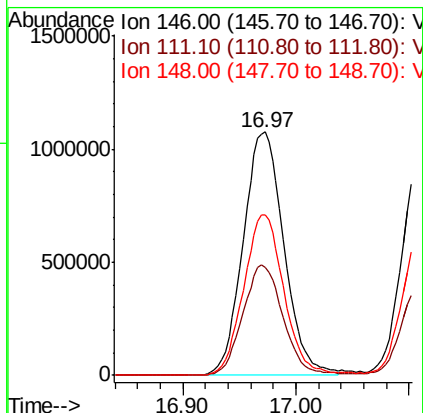
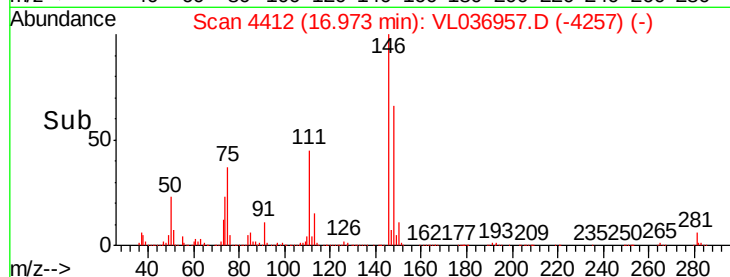
148 65.5 32.3 96.8



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



#76

1,4-Dichlorobenzene

Concen: 7.531 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

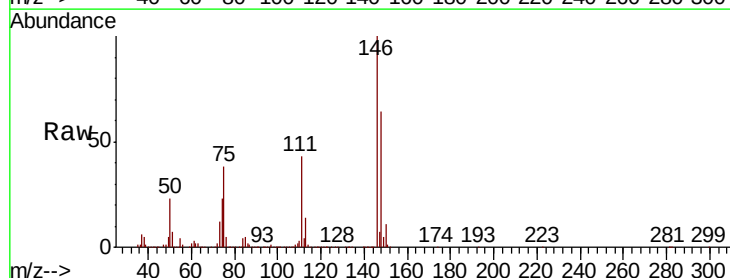
Tgt Ion:146 Resp: 2634953

Ion Ratio Lower Upper

146 100

111 44.3 22.6 67.7

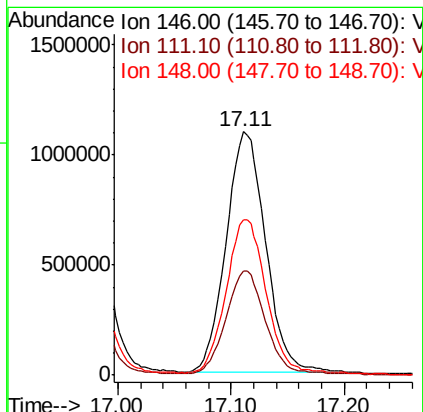
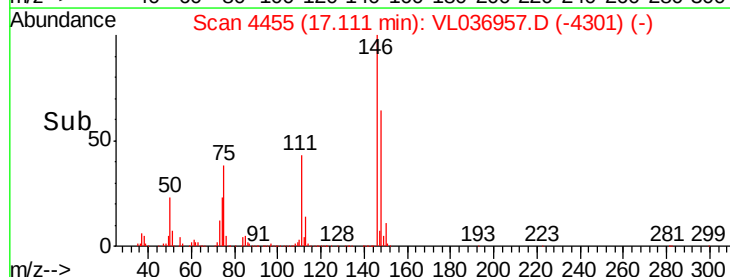
148 67.9 33.5 100.5

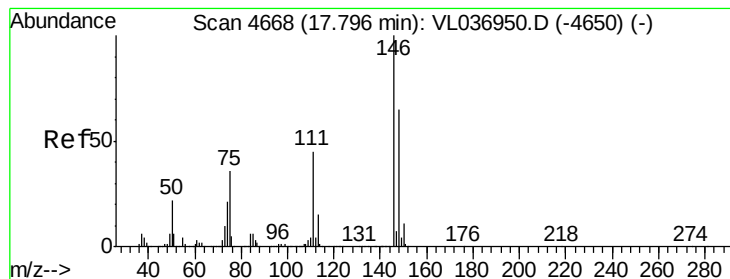


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 7.526 ppbv

RT: 17.79 min Scan# 4667

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

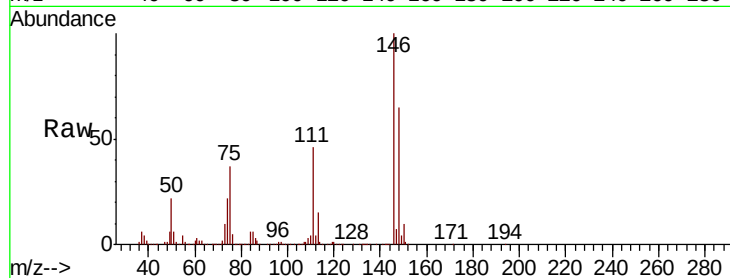
Tot Ion:146 Resp: 2616462

Ion Ratio Lower Upper

146 100

111 45.9 23.1 69.2

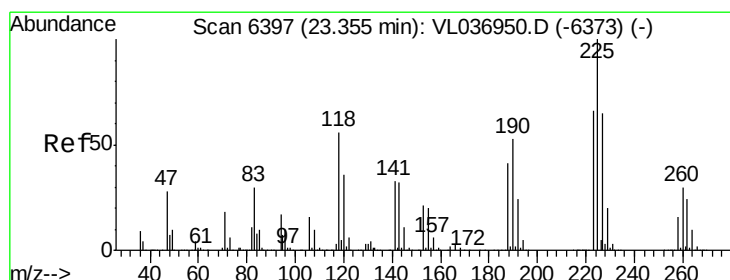
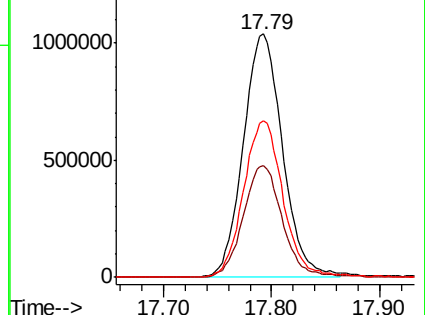
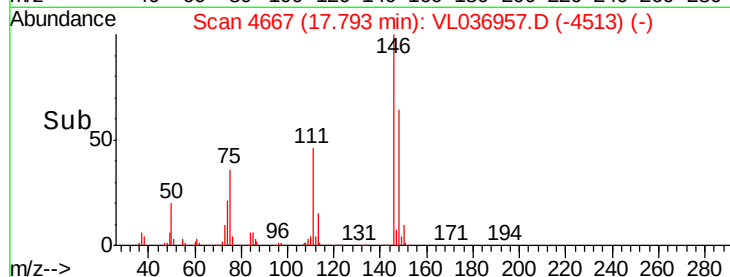
148 65.3 32.5 97.4



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: 6.614 ppbv

RT: 23.35 min Scan# 6396

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

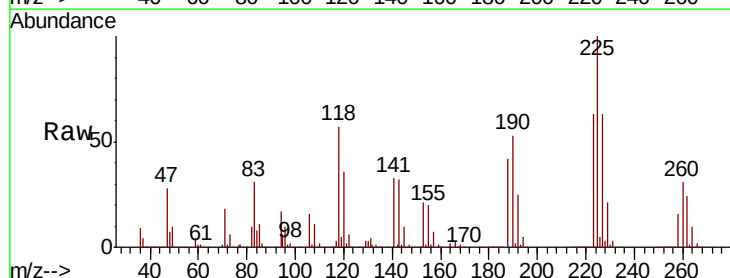
Tgt Ion:225 Resp: 1933500

Ion Ratio Lower Upper

225 100

223 63.9 51.9 77.9

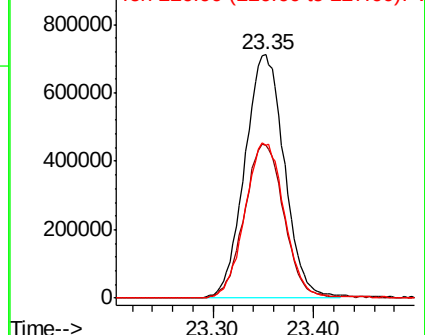
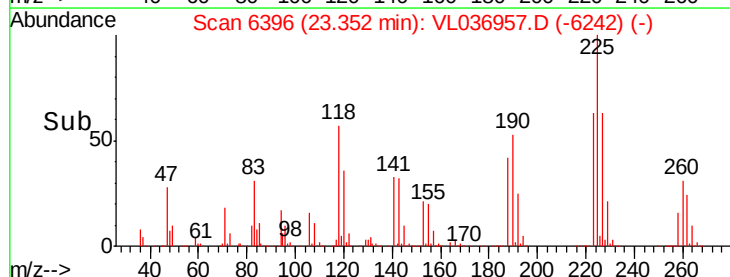
227 64.5 51.8 77.6

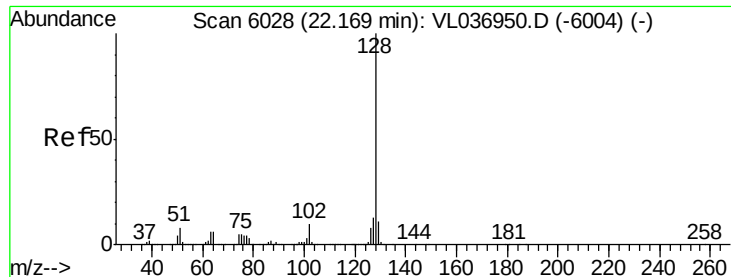


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

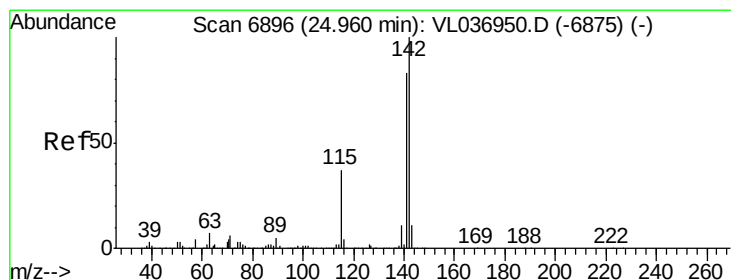
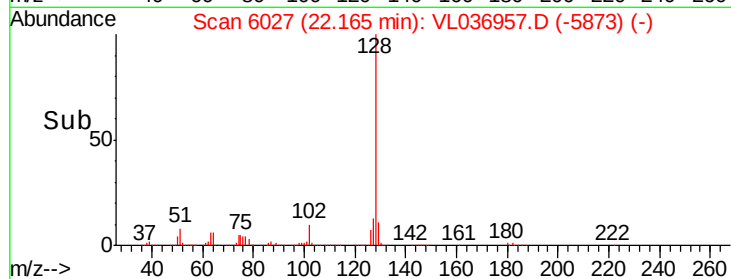
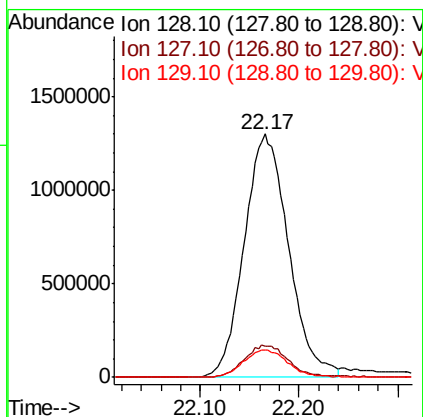
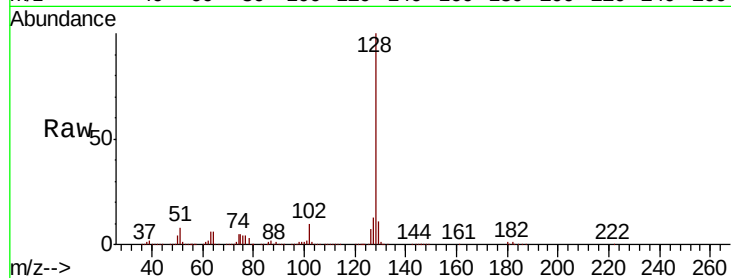




#79
Naphthalene
Concen: 8.676 ppbv
RT: 22.17 min Scan# 6027
Delta R.T. -0.00 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

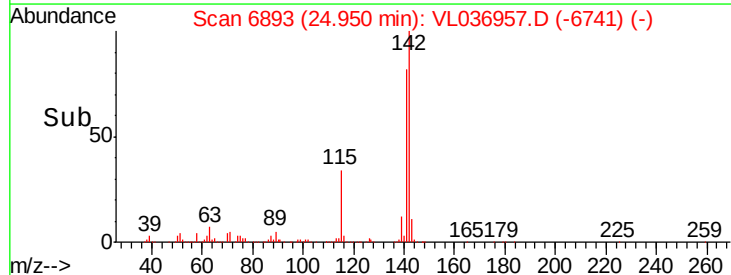
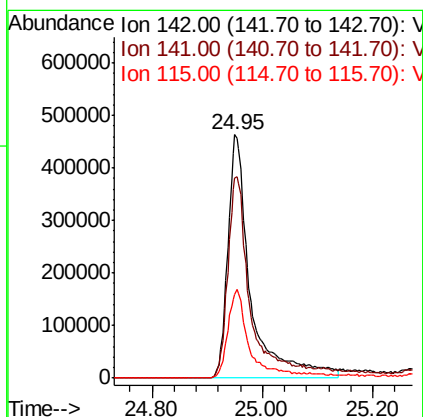
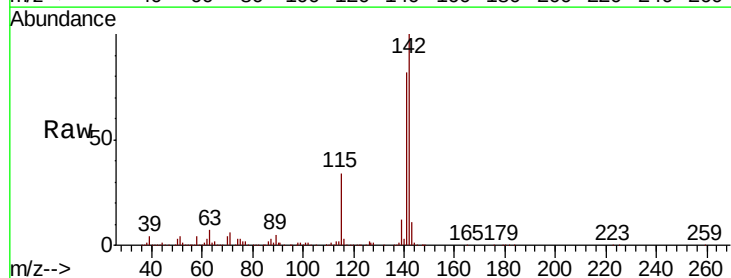
Instrument :
MSVOA_L
ClientSampleId :
ICVVL051821

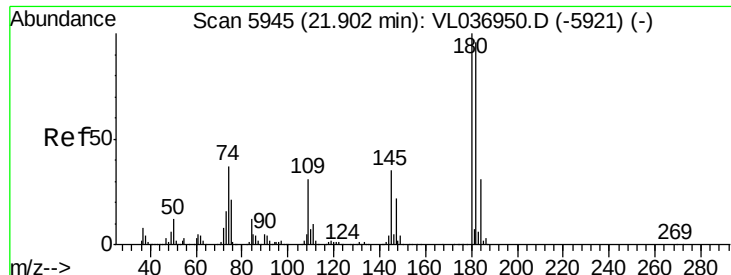
Tot Ion:128 Resp: 4044687
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.3 9.0 13.6



#80
Naphthalene,2-methyl-
Concen: 13.122 ppbv
RT: 24.95 min Scan# 6893
Delta R.T. -0.01 min
Lab File: VL036957.D
Acq: 18 May 2021 6:25

Tgt Ion:142 Resp: 1330227
Ion Ratio Lower Upper
142 100
141 89.9 69.3 103.9
115 34.4 29.1 43.7





#81

1,2,4-Trichlorobenzene

Concen: 8.051 ppbv

RT: 21.90 min Scan# 5944

Delta R.T. -0.00 min

Lab File: VL036957.D

Acq: 18 May 2021 6:25

Instrument :

MSVOA_L

ClientSampleId :

ICVVL051821

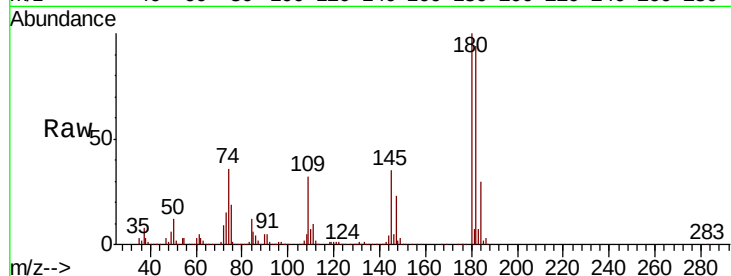
Tot Ion:180 Resp: 2287918

Ion Ratio Lower Upper

180 100

182 99.5 81.7 122.5

184 30.9 24.9 37.3



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

