

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037576.D
 Acq On : 8 Sep 2021 17:44
 Operator : SY/AP
 Sample : M3662-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Sep 09 09:12:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1218615	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4881710	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4103617	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2944799	10.10	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

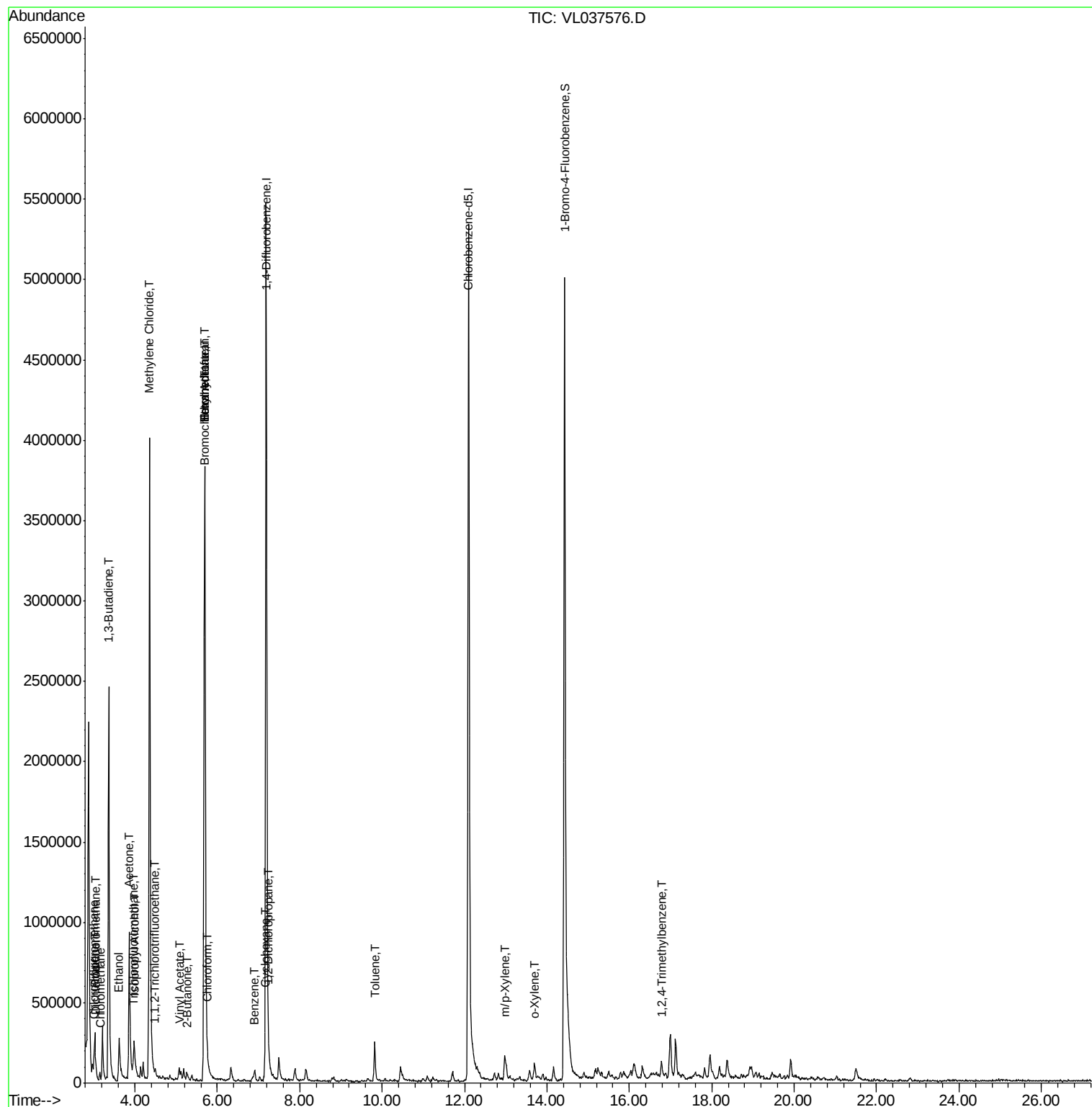
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	53532	0.274	ppbv	94
3) Chlorodifluoromethane	2.99	51	157957	0.677	ppbv #	78
4) Chloromethane	3.15	50	48951	0.587	ppbv #	82
9) Propene	3.02	41	32591	0.390	ppbv #	31
11) Trichlorofluoromethane	3.96	101	54292	0.296	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5834	0.043	ppbv #	1
13) Ethanol	3.62	45	389674	47.963	ppbv	92
15) Acetone	3.86	43	1191378	9.606	ppbv	99
16) 1,3-Butadiene	3.36	39	337933	4.248	ppbv #	12
19) Isopropyl Alcohol	3.98	45	250419	3.524	ppbv #	83
20) Methylene Chloride	4.35	84	1669836	26.892	ppbv	97
23) Vinyl Acetate	5.07	43	67727	0.370	ppbv #	84
25) Ethyl Acetate	5.70	43	997267	3.168	ppbv #	78
26) Hexane	5.70	57	1345101	8.738	ppbv #	48
29) Chloroform	5.76	83	9798	0.045	ppbv	84
30) Cyclohexane	7.15	84	5455	0.043	ppbv #	1
34) 2-Butanone	5.26	43	53671	0.269	ppbv #	70
36) Benzene	6.91	78	23455	0.057	ppbv #	81
39) 1,2-Dichloropropane	7.25	63	12470	0.079	ppbv #	27
41) Tetrahydrofuran	5.70	42	518326	5.398	ppbv #	48
53) Toluene	9.82	91	181607	0.388	ppbv	98
59) m/p-Xylene	13.01	91	24239	0.049	ppbv #	30
60) o-Xylene	13.71	91	33740	0.073	ppbv #	29
74) 1,2,4-Trimethylbenzene	16.78	105	42283	0.078	ppbv #	73

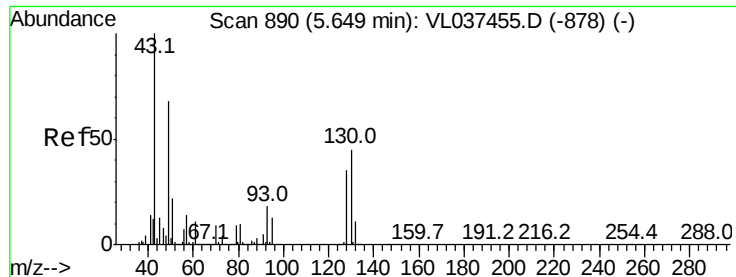
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

QA-1

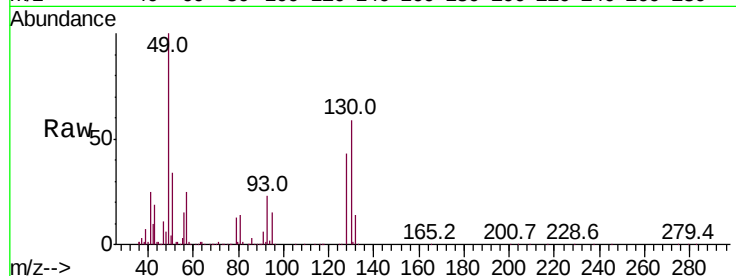
Tot Ion: 49 Resp: 1218615

Ion Ratio Lower Upper

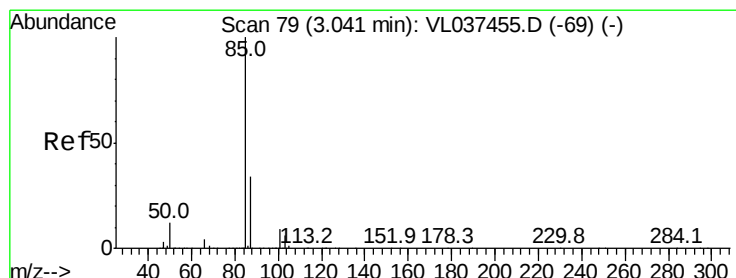
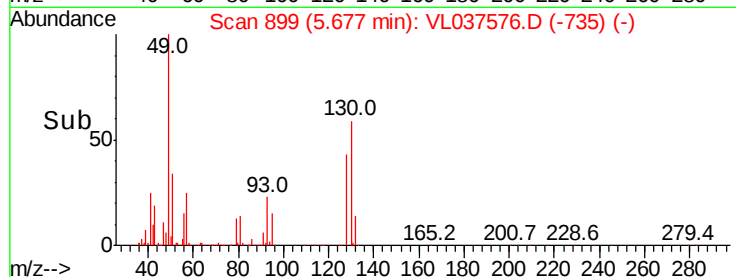
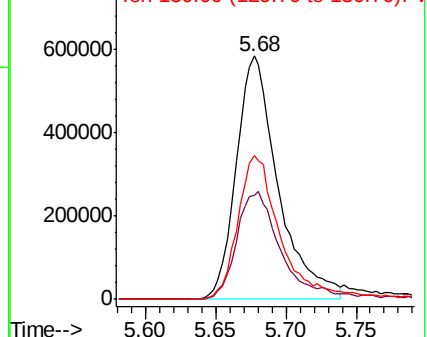
49 100

128 49.0 27.5 82.4

130 62.9 34.0 101.8



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: 0.274 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL037576.D

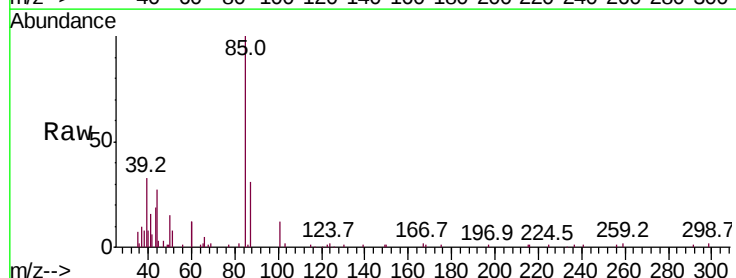
Acq: 8 Sep 2021 17:44

Tgt Ion: 85 Resp: 53532

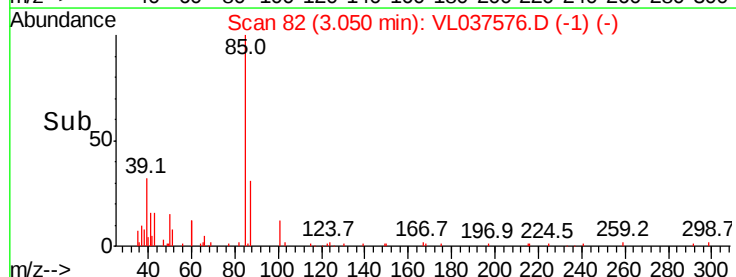
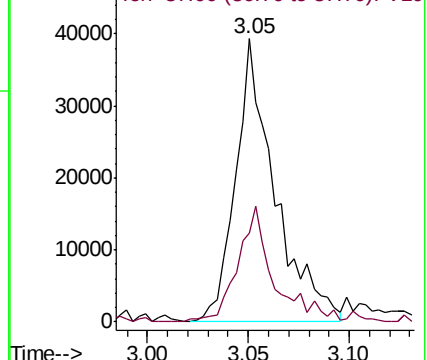
Ion Ratio Lower Upper

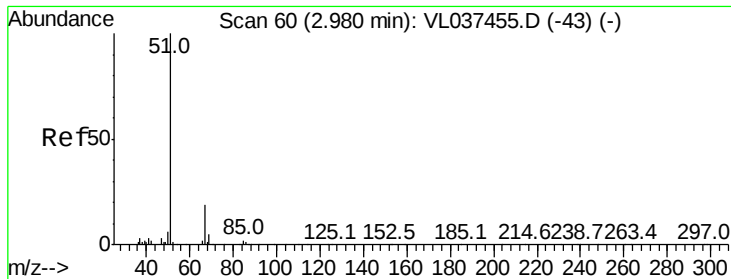
85 100

87 31.0 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

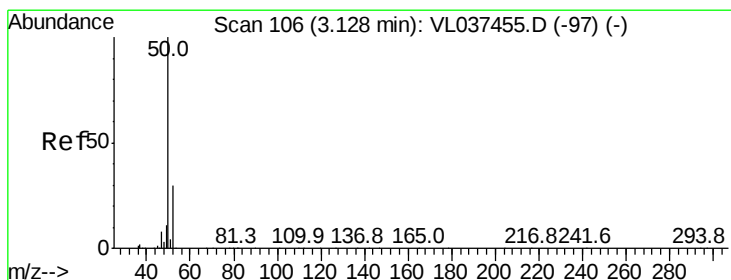
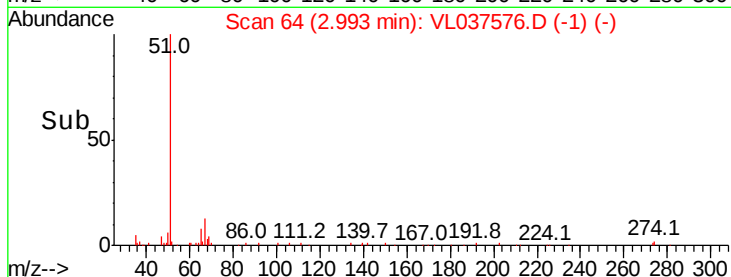
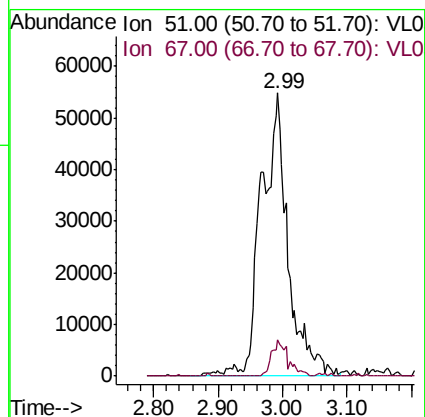
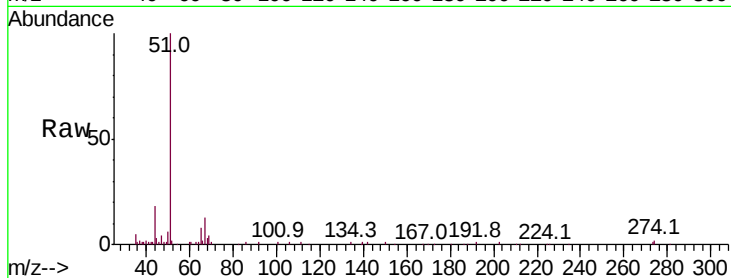




#3
Chlorodifluoromethane
Concen: 0.677 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

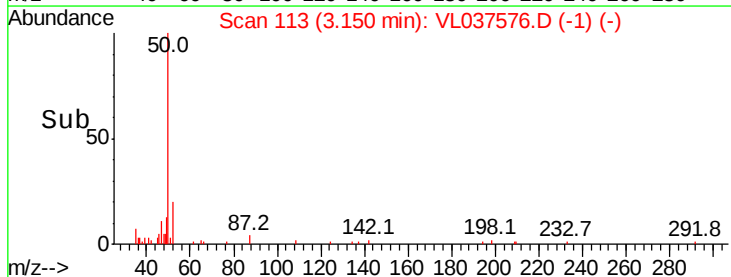
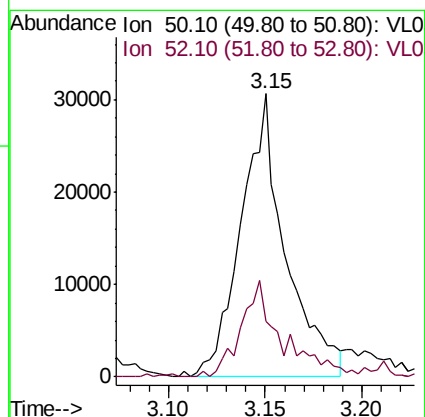
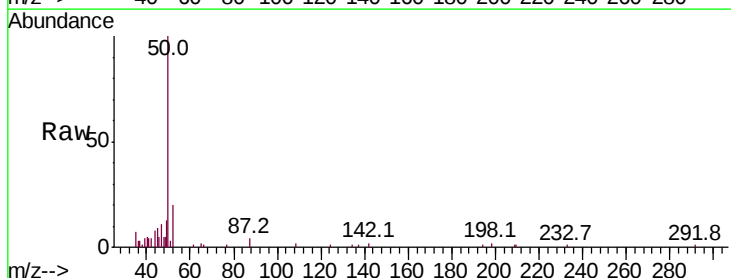
Instrument :
MSVOA_L
ClientSampleId :
OA-1

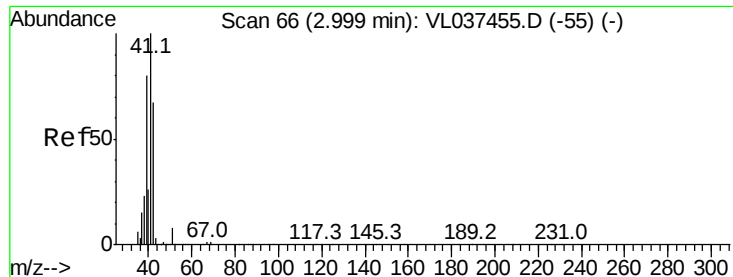
Tot Ion: 51 Resp: 157957
Ion Ratio Lower Upper
51 100
67 7.8 14.2 21.2#



#4
Chloromethane
Concen: 0.587 ppbv
RT: 3.15 min Scan# 113
Delta R.T. 0.02 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 50 Resp: 48951
Ion Ratio Lower Upper
50 100
52 20.3 24.0 36.0#





#9

Propene

Concen: 0.390 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.02 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

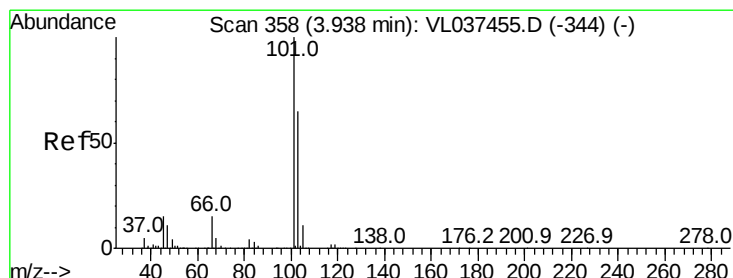
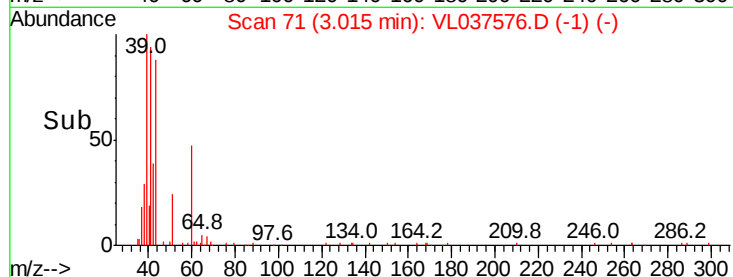
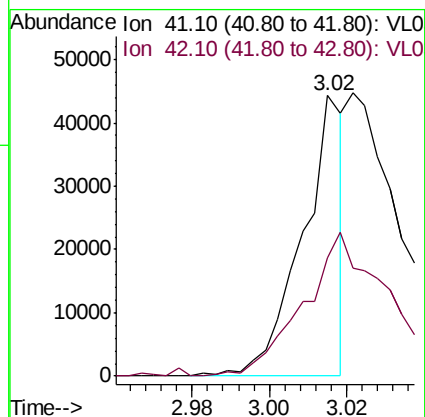
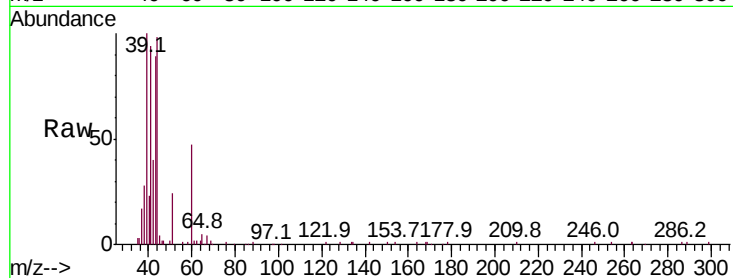
OA-1

Tot Ion: 41 Resp: 32591

Ion Ratio Lower Upper

41 100

42 122.8 53.7 80.5#



#11

Trichlorofluoromethane

Concen: 0.296 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

Lab File: VL037576.D

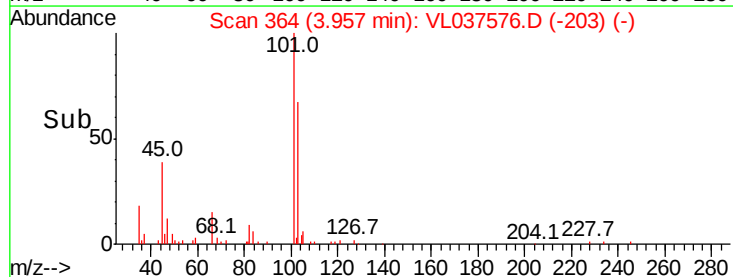
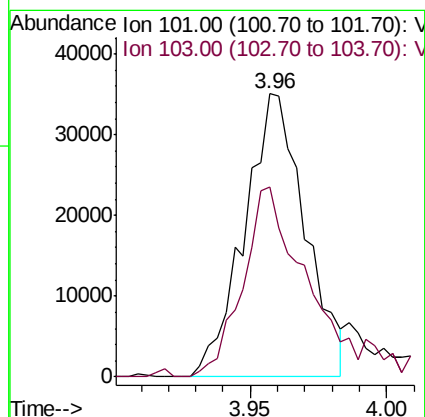
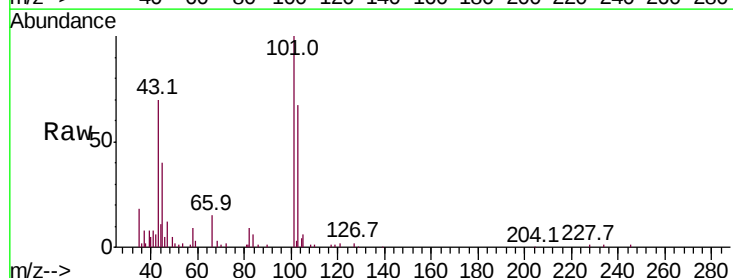
Acq: 8 Sep 2021 17:44

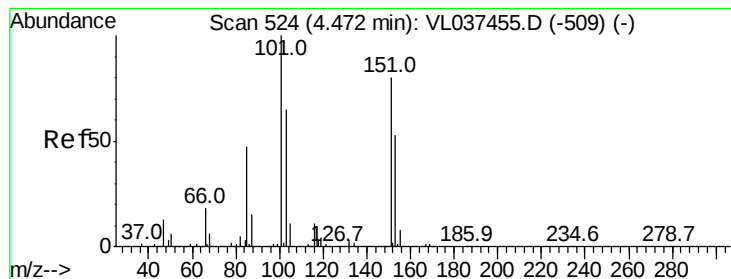
Tgt Ion:101 Resp: 54292

Ion Ratio Lower Upper

101 100

103 67.1 51.8 77.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.043 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.02 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

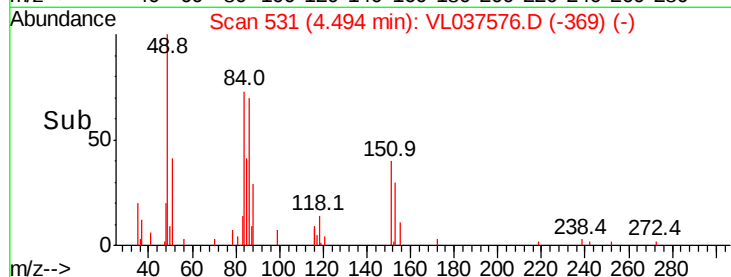
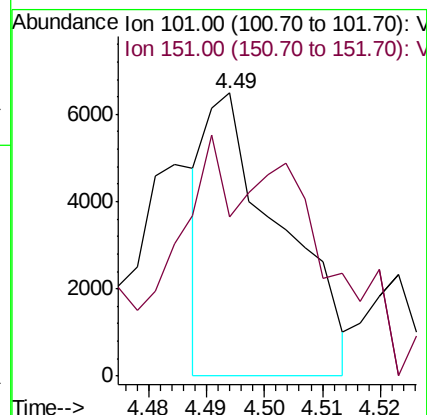
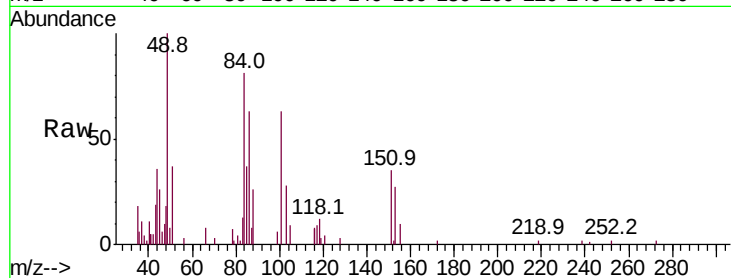
OA-1

Tot Ion:101 Resp: 5834

Ion Ratio Lower Upper

101 100

151 166.6 63.7 95.5#



#13

Ethanol

Concen: 47.963 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037576.D

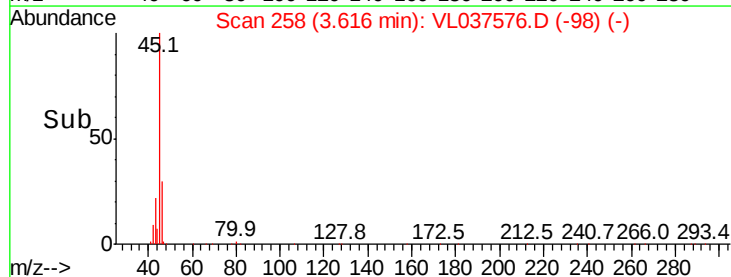
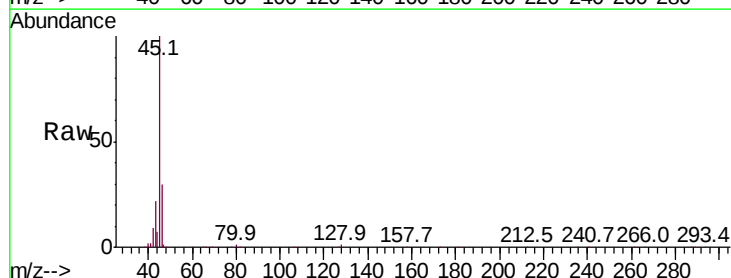
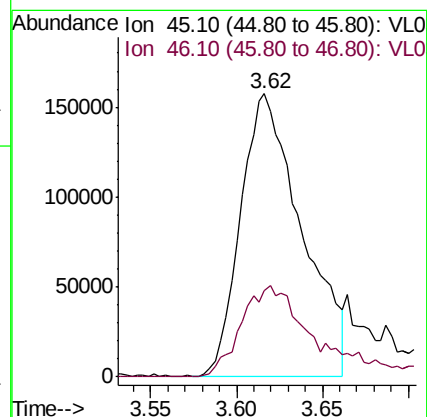
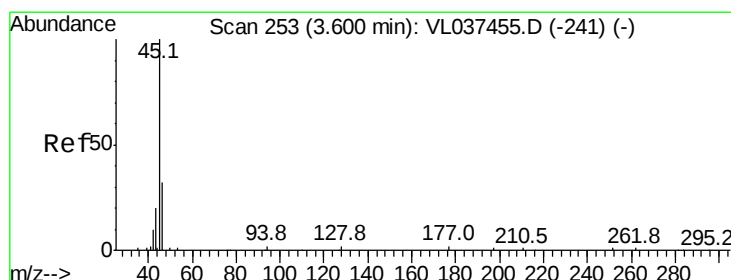
Acq: 8 Sep 2021 17:44

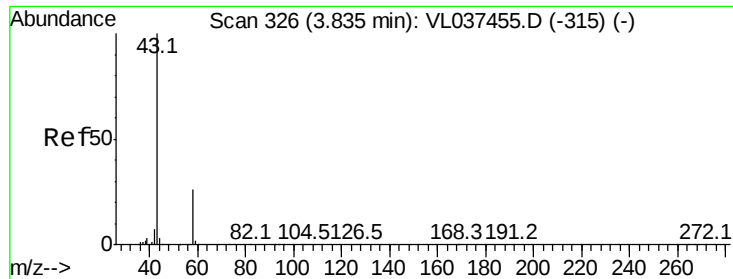
Tgt Ion: 45 Resp: 389674

Ion Ratio Lower Upper

45 100

46 40.2 14.1 56.5

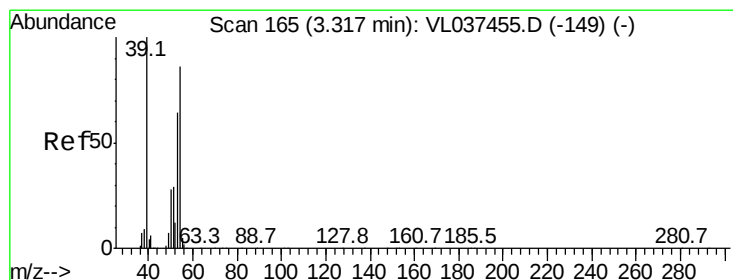
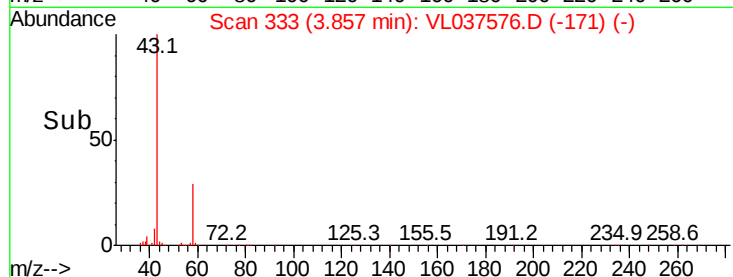
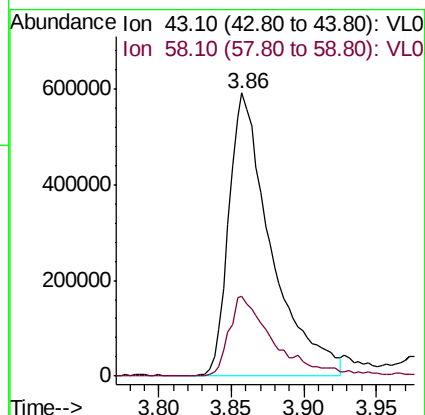
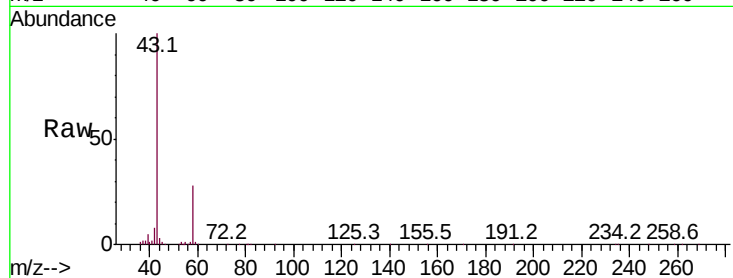




#15
Acetone
Concen: 9.606 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

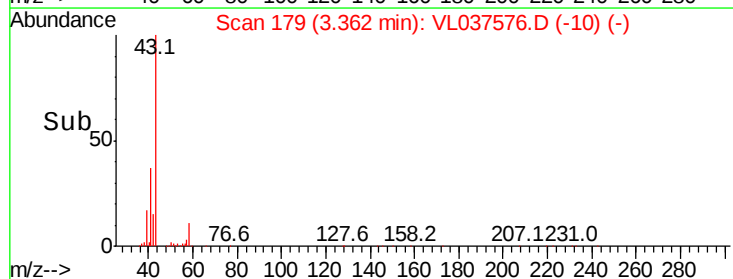
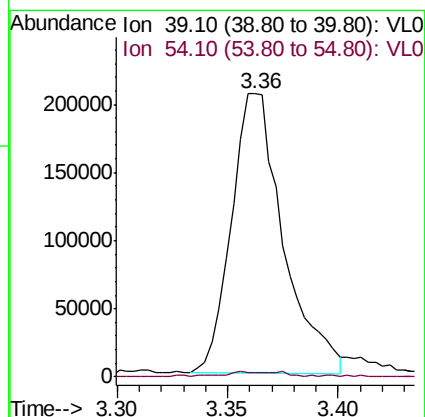
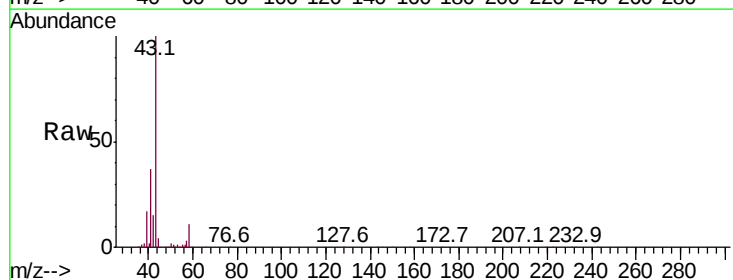
Instrument :
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OA-1

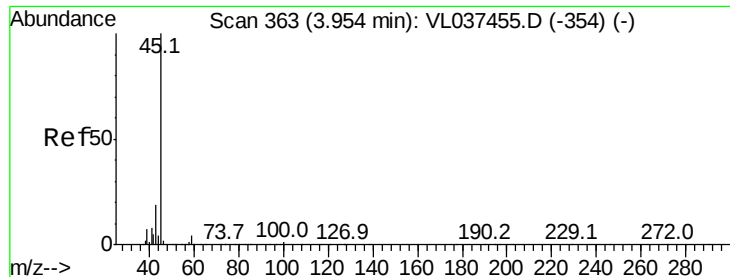
Tot Ion: 43 Resp: 1191378
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2



#16
1,3-Butadiene
Concen: 4.248 ppbv
RT: 3.36 min Scan# 179
Delta R.T. 0.04 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 39 Resp: 337933
Ion Ratio Lower Upper
39 100
54 2.6 63.7 95.5#





#19

Isopropyl Alcohol

Concen: 3.524 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.03 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

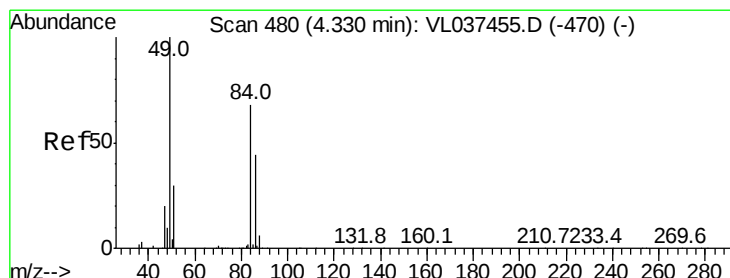
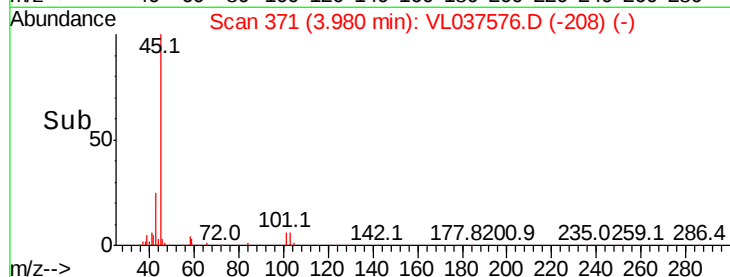
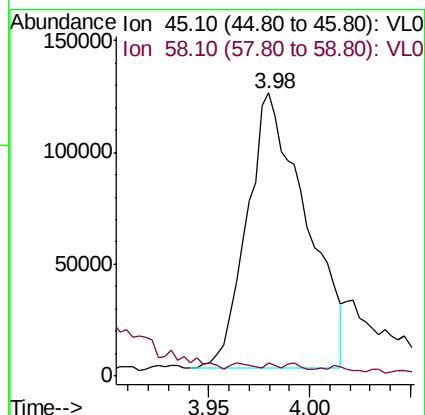
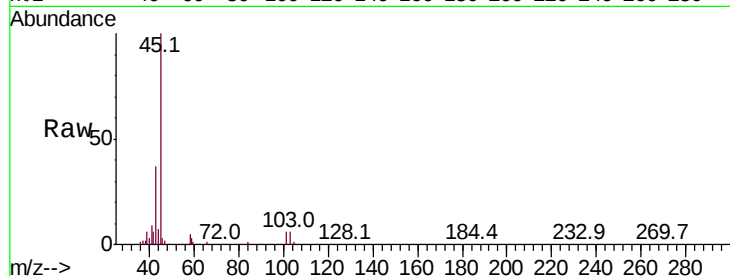
QA-1

Tot Ion: 45 Resp: 250419

Ion Ratio Lower Upper

45 100

58 7.9 1.4 2.2#



#20

Methylene Chloride

Concen: 26.892 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Tgt Ion: 84 Resp: 1669836

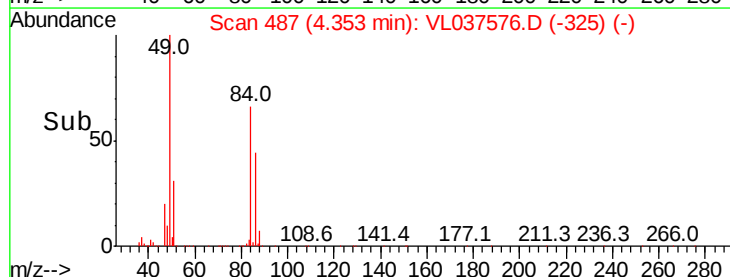
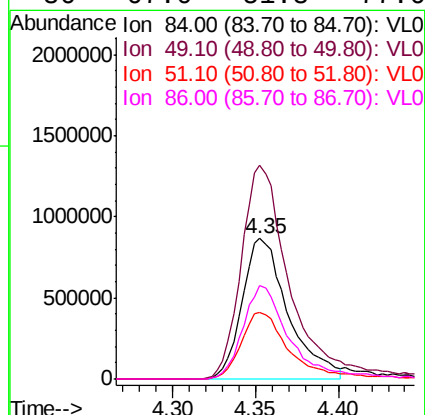
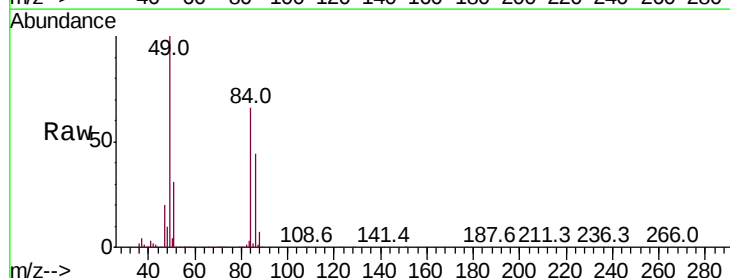
Ion Ratio Lower Upper

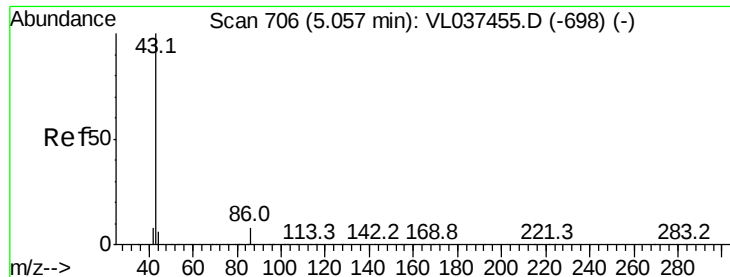
84 100

49 152.0 118.2 177.2

51 47.4 36.6 55.0

86 67.0 51.8 77.6

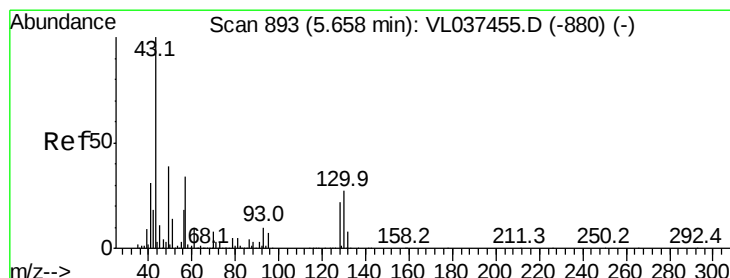
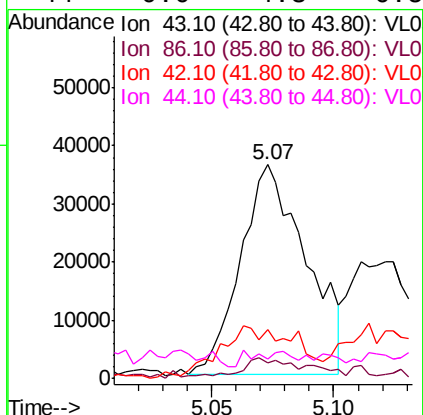
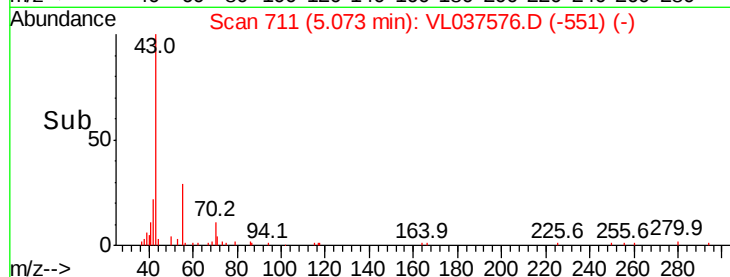
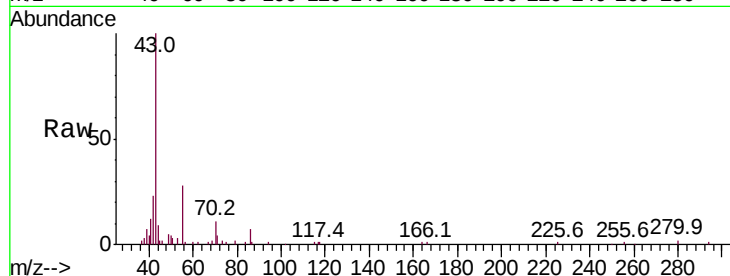




#23
 Vinyl Acetate
 Concen: 0.370 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. 0.02 min
 Lab File: VL037576.D
 Acq: 8 Sep 2021 17:44

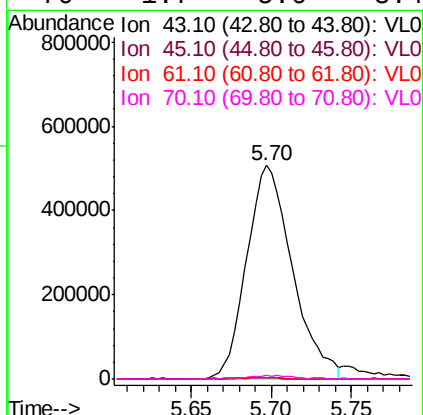
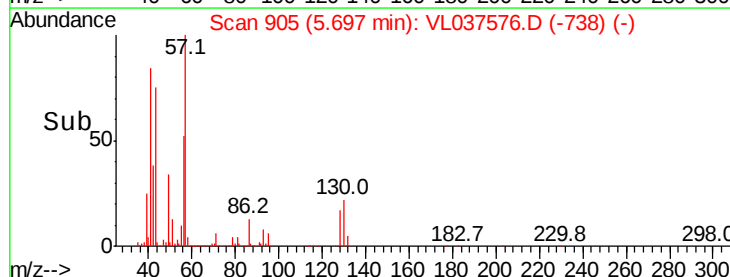
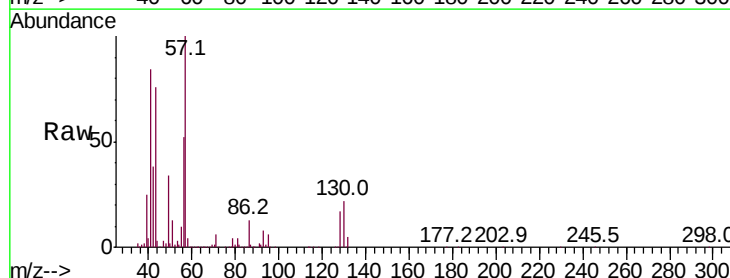
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

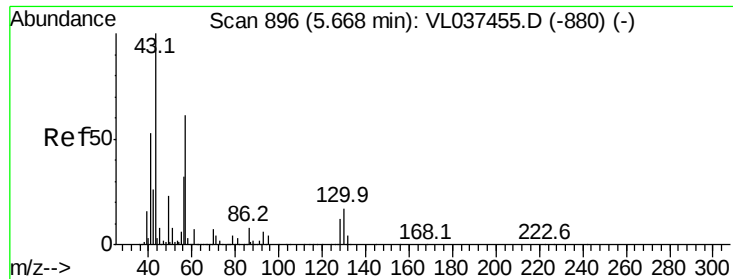
Tot Ion:	43	Resp:	67727
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.7	8.5
42	19.4	7.4	11.2#
44	0.0	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 3.168 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.04 min
 Lab File: VL037576.D
 Acq: 8 Sep 2021 17:44

Tgt Ion:	43	Resp:	997267
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.0	12.0#
61	0.7	8.0	12.0#
70	1.7	5.6	8.4#

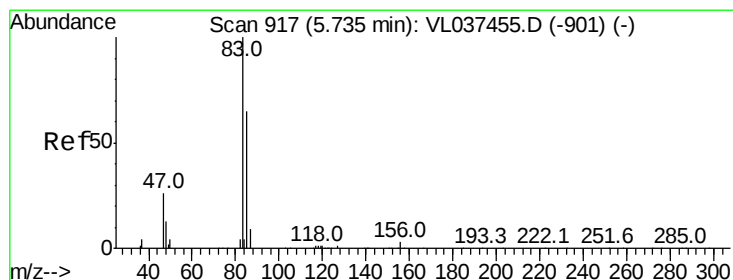
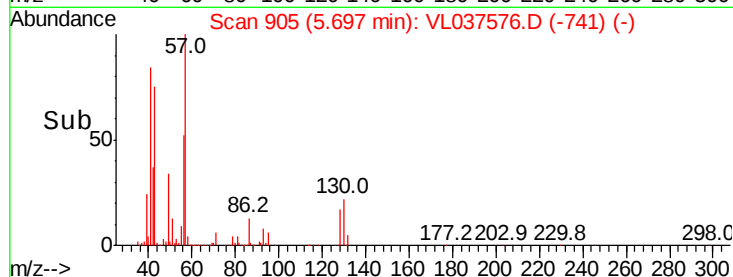
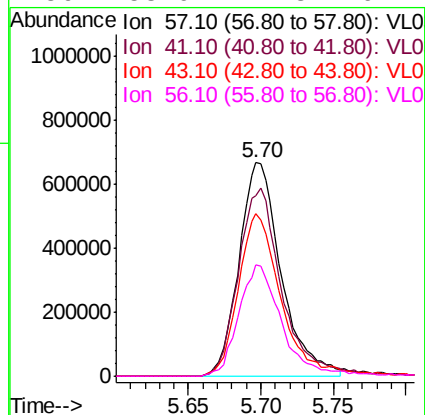
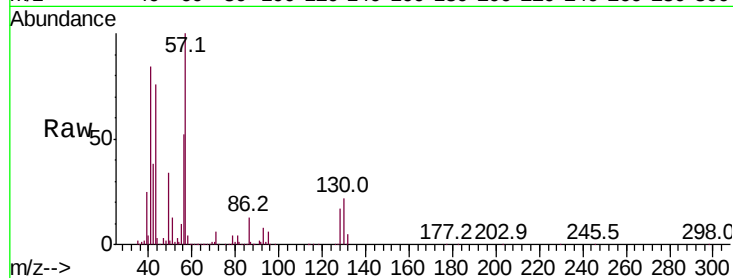




#26
Hexane
Concen: 8.738 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

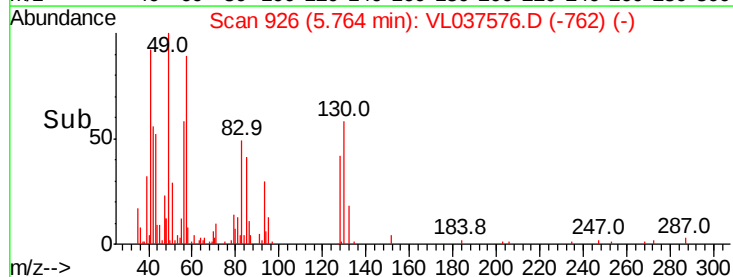
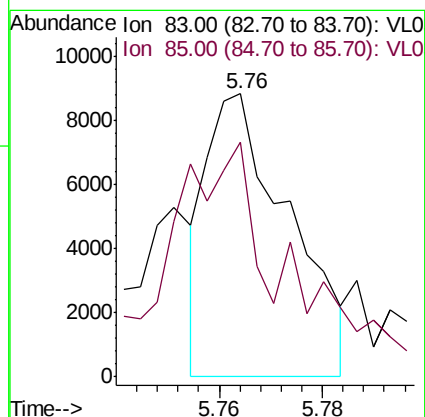
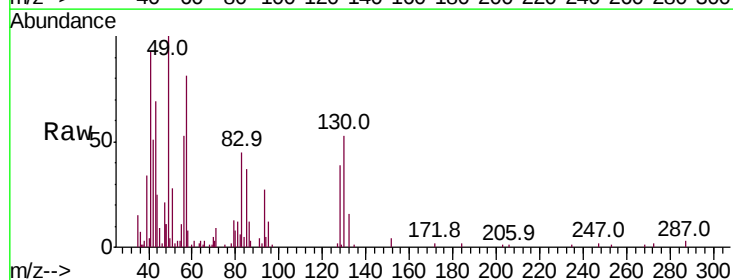
Instrument :
MSVOA_L
ClientSampleId :
OA-1

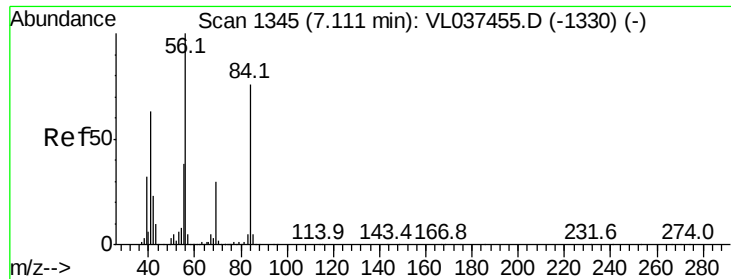
Tot Ion: 57 Resp: 1345101
Ion Ratio Lower Upper
57 100
41 92.3 72.3 108.5
43 79.1 172.3 258.5#
56 53.9 42.8 64.2



#29
Chloroform
Concen: 0.045 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.03 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 83 Resp: 9798
Ion Ratio Lower Upper
83 100
85 77.9 52.3 78.5

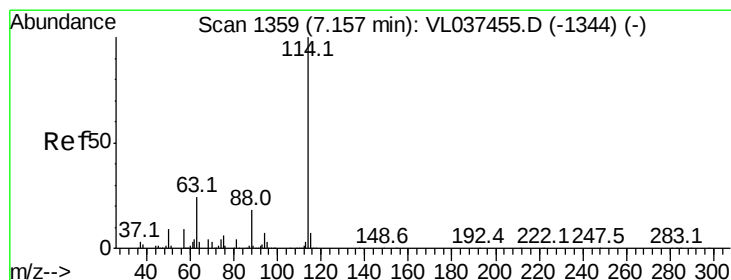
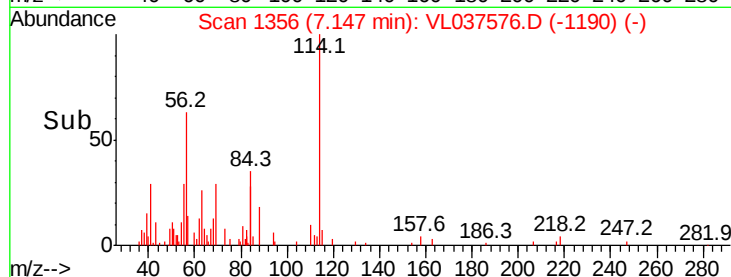
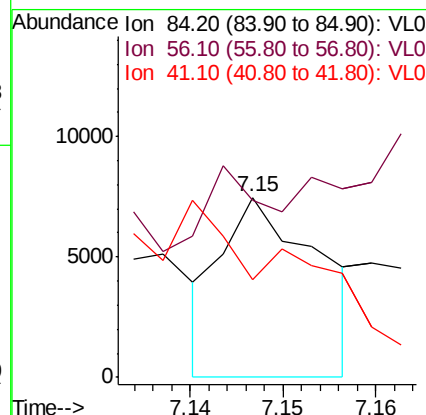
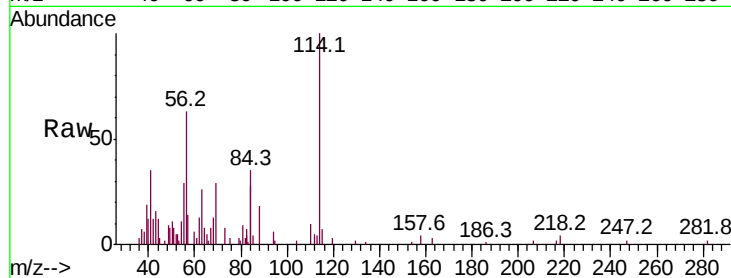




#30
Cvclohexane
Concen: 0.043 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. 0.04 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

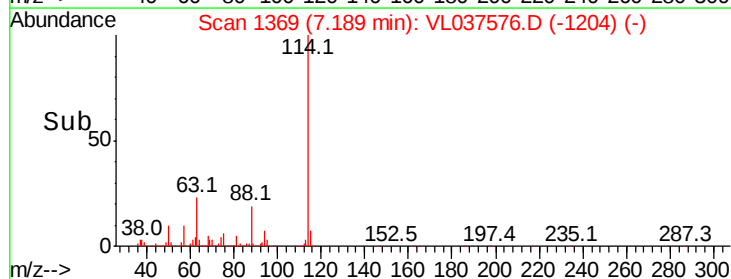
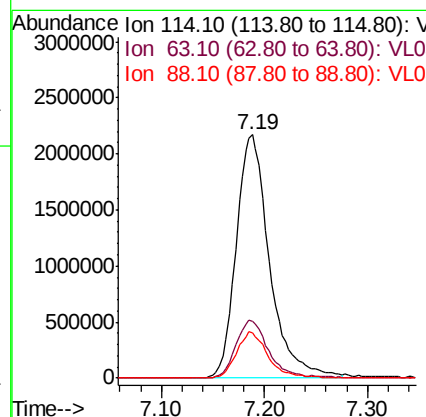
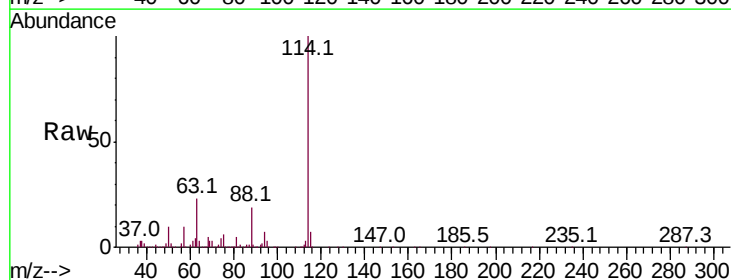
Instrument :
MSVOA_L
ClientSampleId :
OA-1

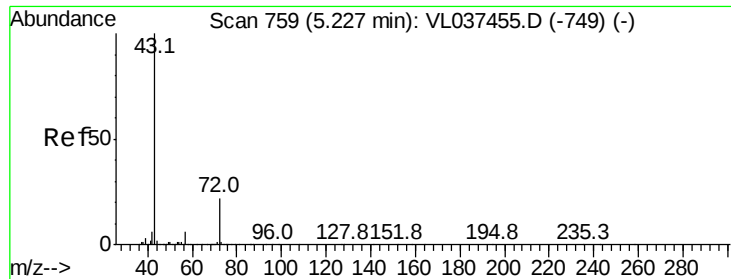
Tot Ion: 84 Resp: 5455
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 0.0 67.0 100.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.03 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 114 Resp: 4881710
Ion Ratio Lower Upper
114 100
63 23.8 19.3 28.9
88 18.4 14.2 21.4

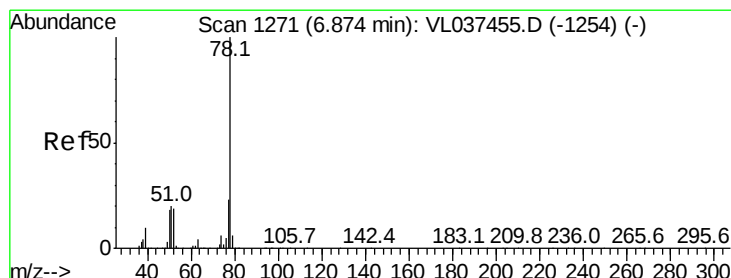
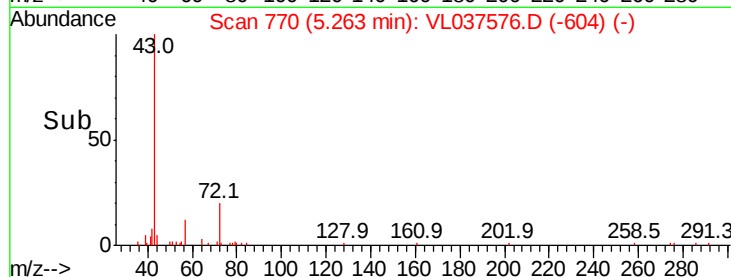
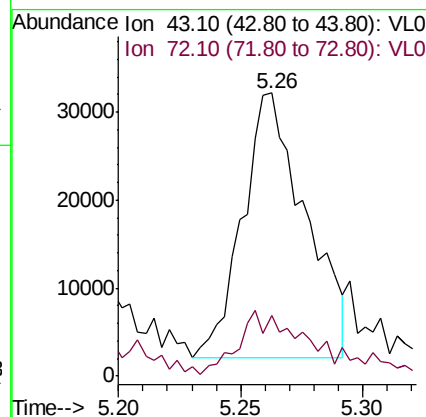
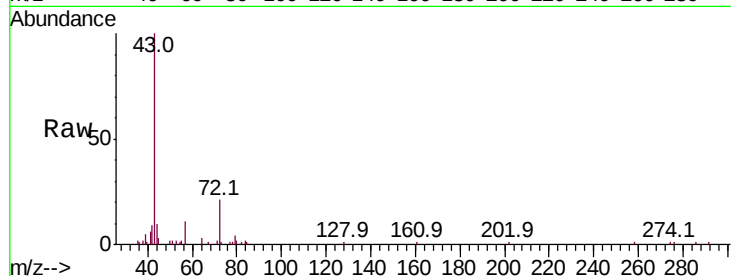




#34
2-Butanone
Concen: 0.269 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.04 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

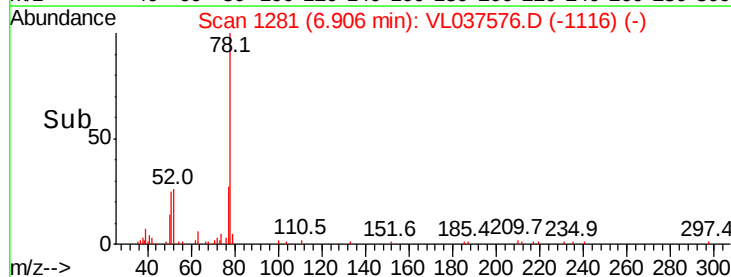
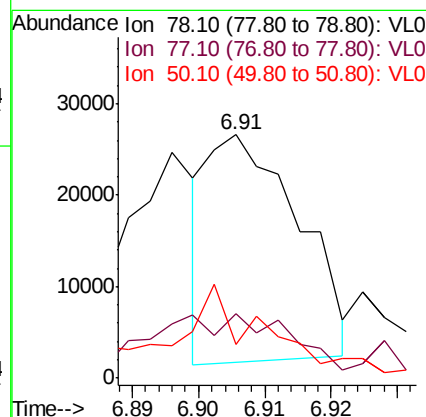
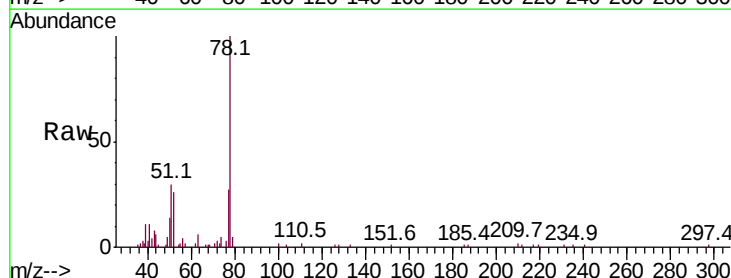
Instrument :
MSVOA_L
ClientSampleId :
OA-1

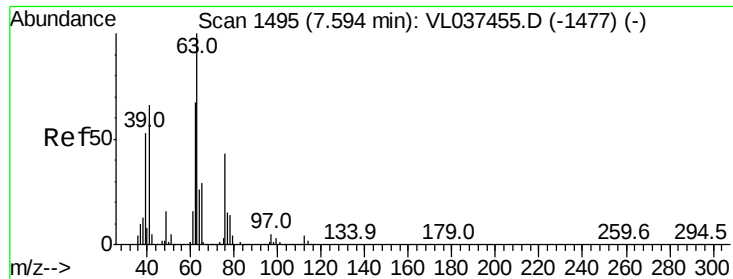
Tot Ion: 43 Resp: 53671
Ion Ratio Lower Upper
43 100
72 36.0 17.4 26.0#



#36
Benzene
Concen: 0.057 ppbv
RT: 6.91 min Scan# 1281
Delta R.T. 0.03 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 78 Resp: 23455
Ion Ratio Lower Upper
78 100
77 30.6 18.2 27.4#
50 7.8 14.6 21.8#





#39

1,2-Dichloropropane

Concen: 0.079 ppbv

RT: 7.25 min Scan# 1387

Delta R.T. -0.35 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

OA-1

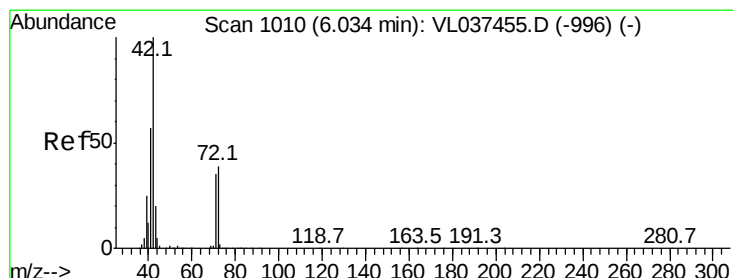
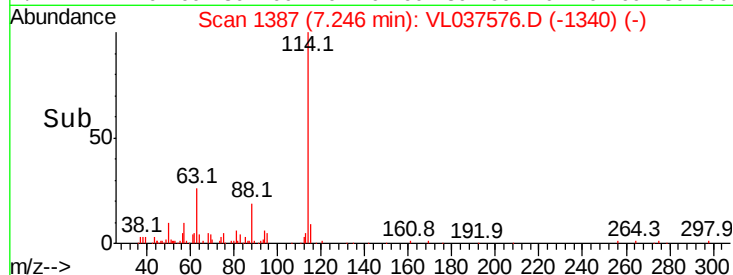
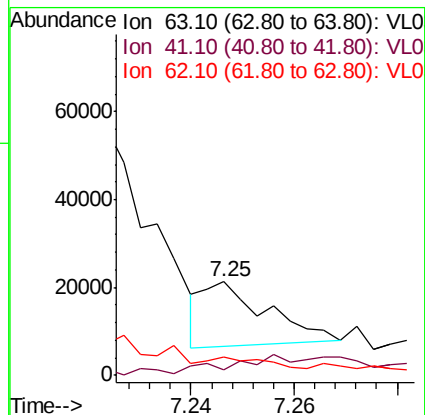
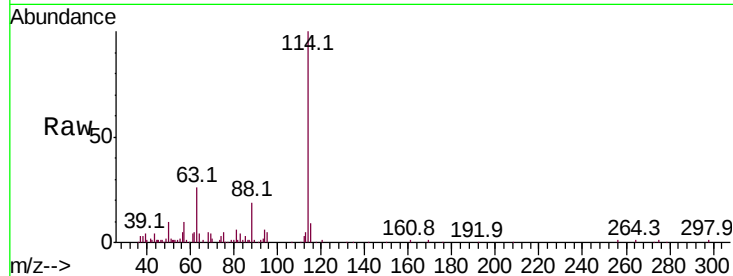
Tot Ion: 63 Resp: 12470

Ion Ratio Lower Upper

63 100

41 0.0 52.4 78.6#

62 16.6 53.6 80.4#



#41

Tetrahydrofuran

Concen: 5.398 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.34 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

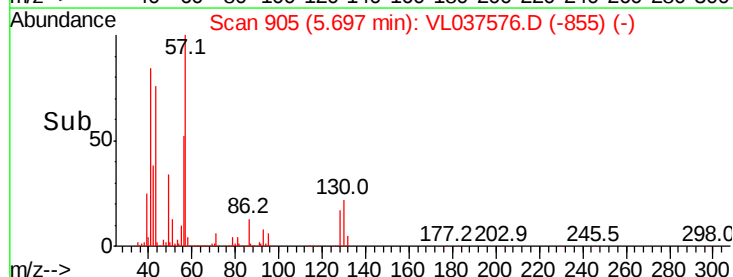
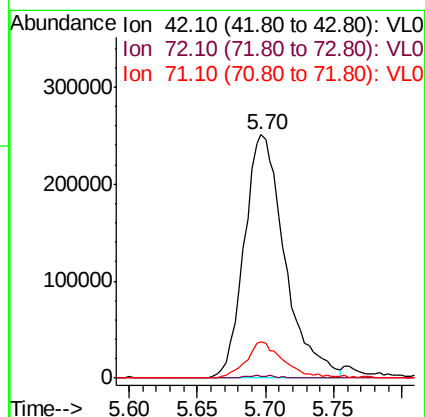
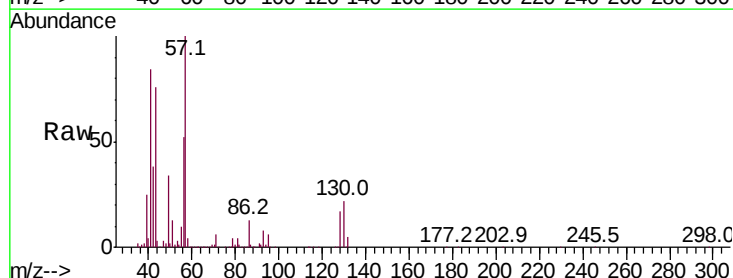
Tgt Ion: 42 Resp: 518326

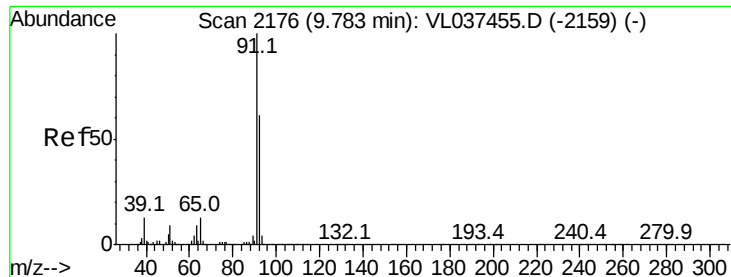
Ion Ratio Lower Upper

42 100

72 0.8 32.2 48.4#

71 14.2 30.5 45.7#





#53

Toluene

Concen: 0.388 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

Instrument :

MSVOA_L

ClientSampleId :

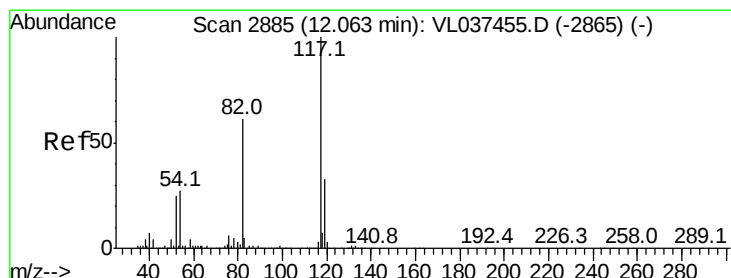
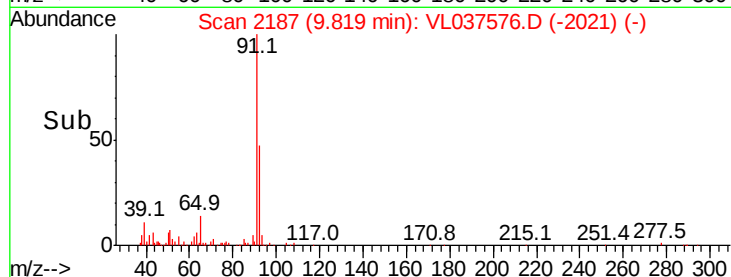
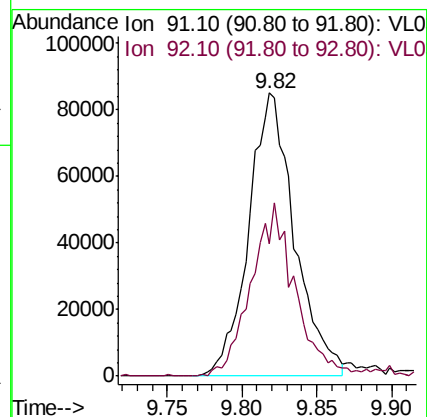
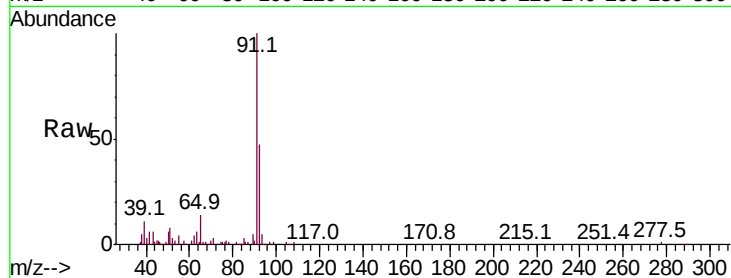
QA-1

Tot Ion: 91 Resp: 181607

Ion Ratio Lower Upper

91 100

92 59.3 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL037576.D

Acq: 8 Sep 2021 17:44

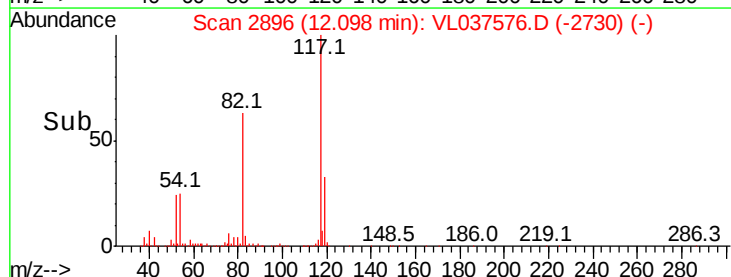
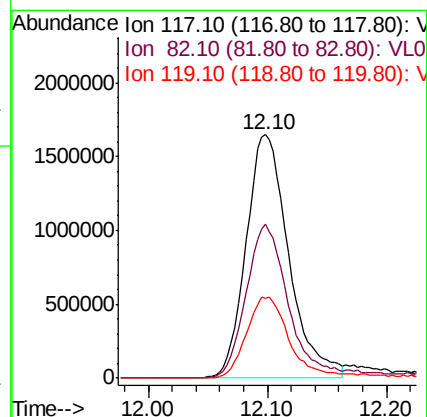
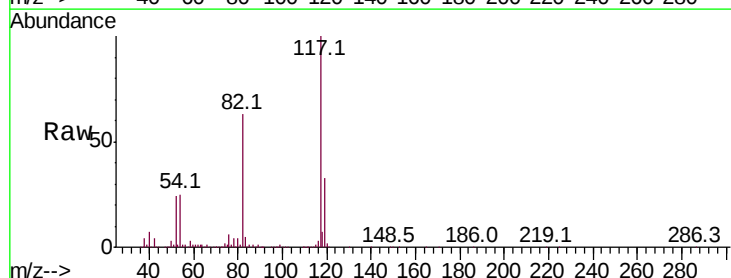
Tgt Ion: 117 Resp: 4103617

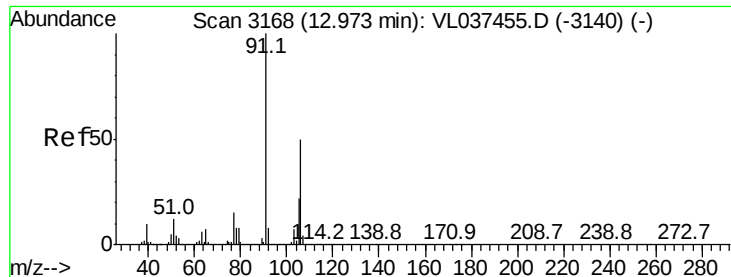
Ion Ratio Lower Upper

117 100

82 66.4 52.9 79.3

119 35.0 24.8 37.2

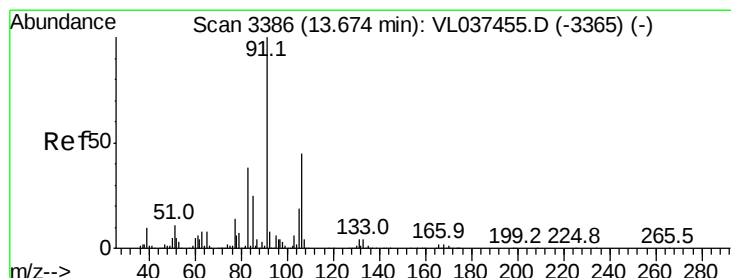
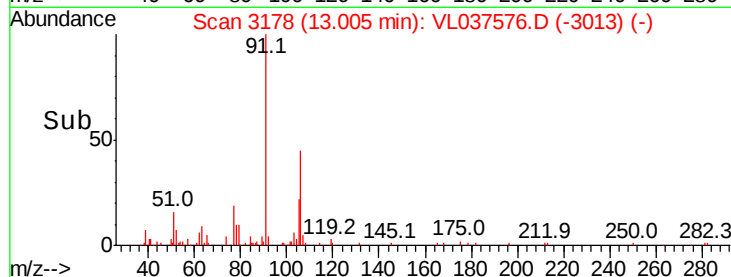
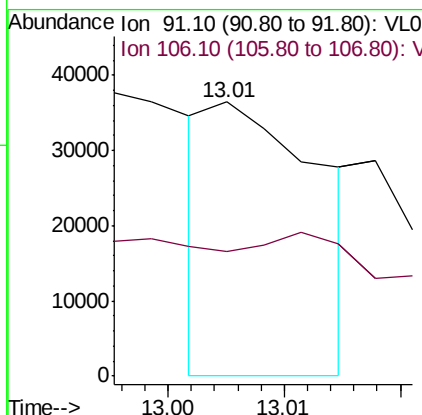
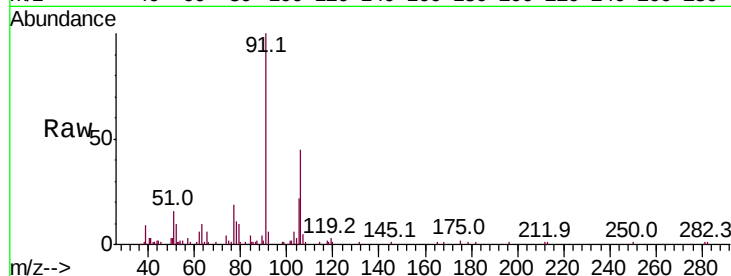




#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. 0.03 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

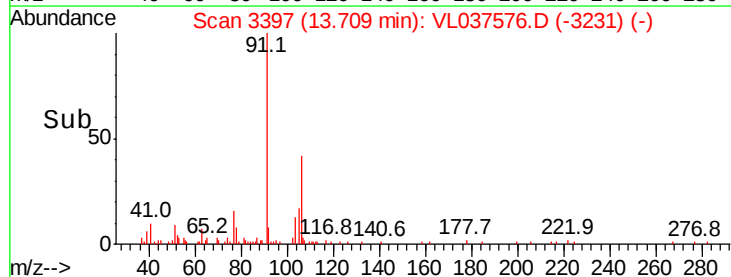
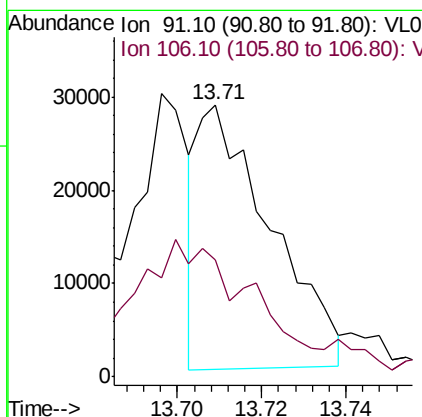
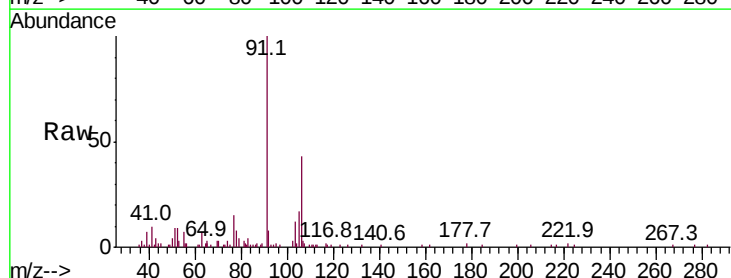
Instrument :
MSVOA_L
ClientSampleId :
OA-1

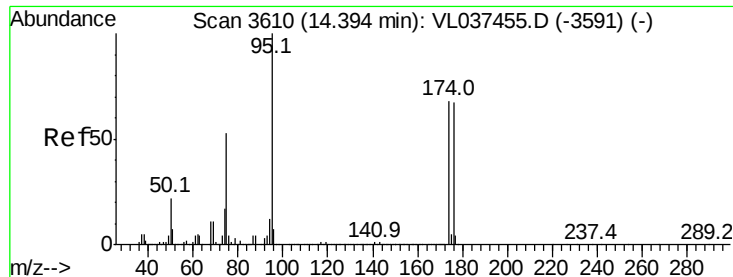
Tot Ion: 91 Resp: 24239
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#



#60
o-Xylene
Concen: 0.073 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. 0.04 min
Lab File: VL037576.D
Acq: 8 Sep 2021 17:44

Tgt Ion: 91 Resp: 33740
Ion Ratio Lower Upper
91 100
106 0.0 23.7 71.1#

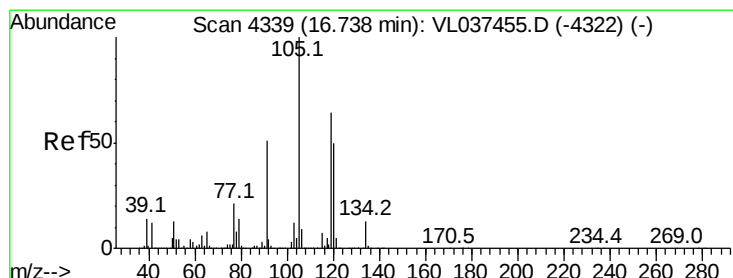
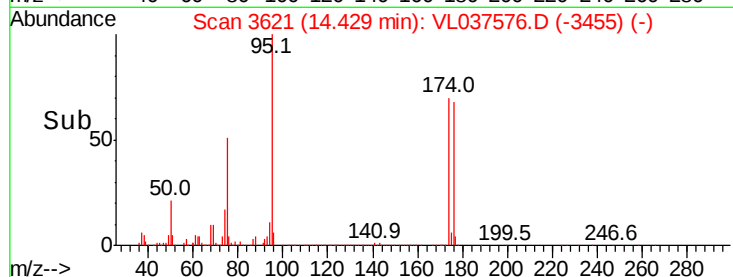
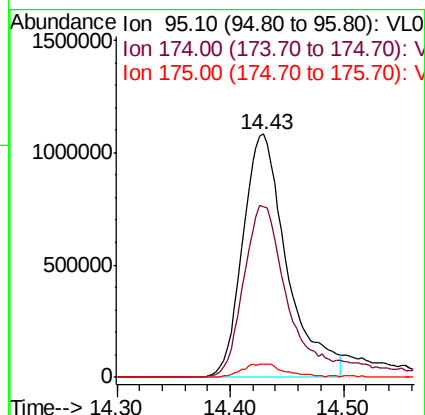
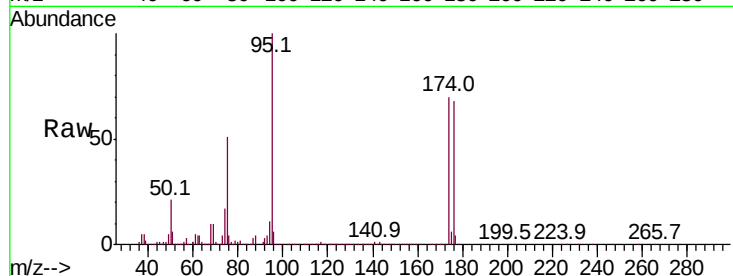




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.101 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. 0.04 min
 Lab File: VL037576.D
 Acq: 8 Sep 2021 17:44

Instrument :
 MSVOA_L
 ClientSampleID :
 OA-1

Tot Ion: 95 Resp: 2944799
 Ion Ratio Lower Upper
 95 100
 174 79.0 59.6 89.4
 175 5.4 4.6 7.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.078 ppbv
 RT: 16.78 min Scan# 4352
 Delta R.T. 0.04 min
 Lab File: VL037576.D
 Acq: 8 Sep 2021 17:44

Tgt Ion: 105 Resp: 42283
 Ion Ratio Lower Upper
 105 100
 120 47.1 40.4 60.6
 91 16.0 44.6 67.0#
 77 18.2 17.8 26.6

