Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037792.D
Acq On : 6 Oct 2021 3:07
Operator : SY/AP
Sample : M4012-16
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P11

Quant Time: Oct 06 04:50:14 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.64	49	1248020	10.00	ppbv		-0.03
33) 1,4-Difluorobenzene	7.15	114	3578261	10.00	ppbv		-0.03
55) Chlorobenzene-d5	12.06	117	3116582	10.00	ppbv		-0.03
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.38	95	2179168	10.00	ppbv		-0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.03	85	22080	0.111	ppbv		98
3) Chlorodifluoromethane	2.97	51	36385	0.152	ppbv	#	77
4) Chloromethane	3.12	50	10645	0.121	ppbv	#	34
9) Propene	3.00	41	9251	0.105	ppbv	#	16
10) Heptane	8.09	43	12448	0.062	ppbv	#	27
11) Trichlorofluoromethane	3.93	101	39997	0.225	ppbv		100
12) 1,1,2-Trichlorotrifluoroet	4.47	101	4298	0.032	ppbv	#	1
13) Ethanol	3.59	45	461057	63.896	ppbv		82
15) Acetone	3.83	43	854510	7.627	ppbv		100
17) tert-Butyl alcohol	3.94	59	199053	1.725	ppbv		99
19) Isopropyl Alcohol	3.94	45	5455767	78.275	ppbv	#	99
20) Methylene Chloride	4.33	84	72153	1.275	ppbv		90
21) Allyl Chloride	4.65	41	6182	0.062	ppbv	#	1
23) Vinyl Acetate	5.05	43	27695	0.165	ppbv	#	1
25) Ethyl Acetate	5.65	43	207684	0.661	ppbv		97
26) Hexane	5.67	57	141021	0.911	ppbv	#	74
27) Carbon Disulfide	4.53	76	402087	2.931	ppbv		97
29) Chloroform	5.73	83	15843	0.072	ppbv		87
30) Cyclohexane	7.09	84	4787	0.036	ppbv	#	1
31) cis-1,2-Dichloroethene	5.65	61	4182	0.030	ppbv	#	30
34) 2-Butanone	5.22	43	160118	1.108	ppbv	#	90
36) Benzene	6.87	78	22210	0.073	ppbv	#	82
39) 1,2-Dichloropropane	7.15	63	852024	7.411	ppbv	#	28
41) Tetrahydrofuran	6.03	42	1839	0.026	ppbv	#	2
50) 4-Methyl-2-Pentanone	8.72	43	9440	0.050	ppbv	#	38
51) 2-Hexanone	10.10	43	1815	0.022	ppbv	#	29
52) Tetrachloroethene	11.20	164	2481236	20.867	ppbv		97
53) Toluene	9.78	91	410474	1.212	ppbv		98
58) Ethyl Benzene	12.67	91	40882	0.098	ppbv		99
59) m/p-Xylene	12.97	91	31877	0.089	ppbv	#	30
60) o-Xylene	13.66	91	74208	0.216	ppbv		99
61) Styrene	13.49	104	7699	0.046	ppbv	#	1
66) Benzyl Chloride	16.95	91	1580	0.076	ppbv	#	1
71) 2-Chlorotoluene	15.52	91	6959	0.021	ppbv	#	44
74) 1,2,4-Trimethylbenzene	16.73	105	63357	0.170	ppbv	#	66
75) 1,3-Dichlorobenzene	16.96	146	159859	0.692	ppbv	#	1
79) Naphthalene	22.14	128	16882	0.074	ppbv		95

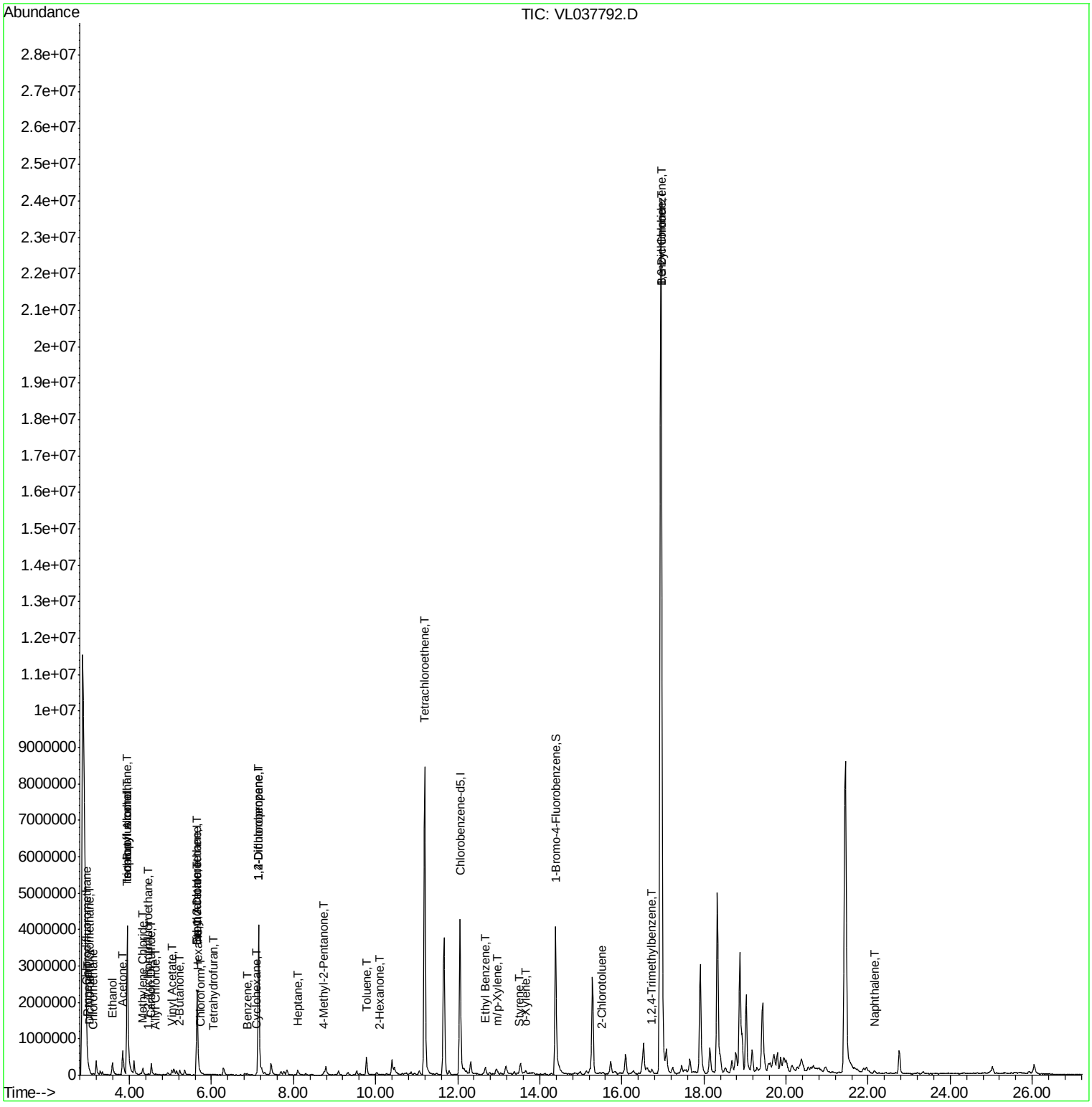
(#) = qualifier out of range (m) = manual integration (+) = signals summed

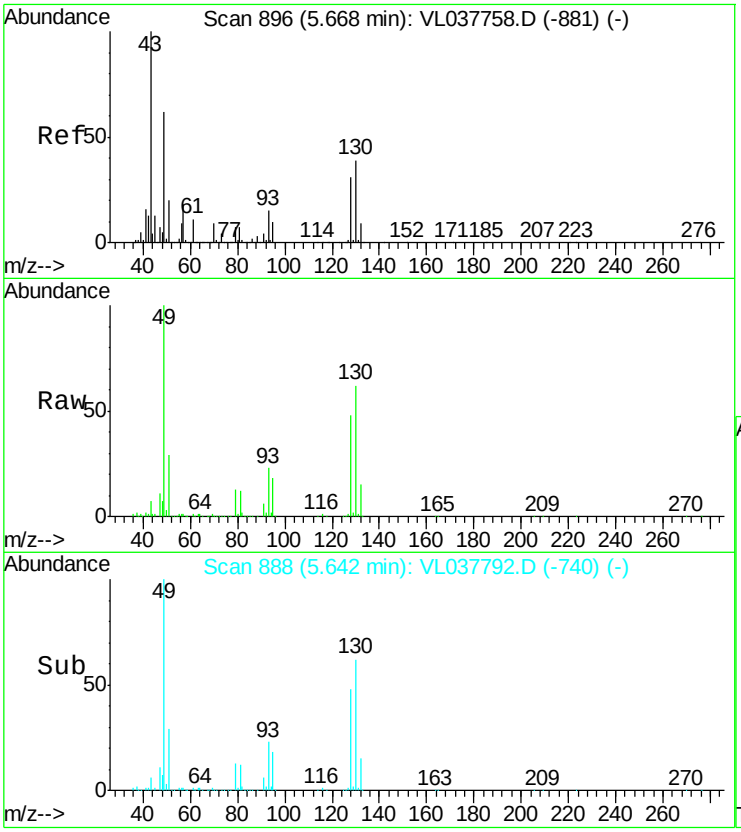
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
Data File : VL037792.D
Acq On : 6 Oct 2021 3:07
Operator : SY/AP
Sample : M4012-16
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P11

Quant Time: Oct 06 04:50:14 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration



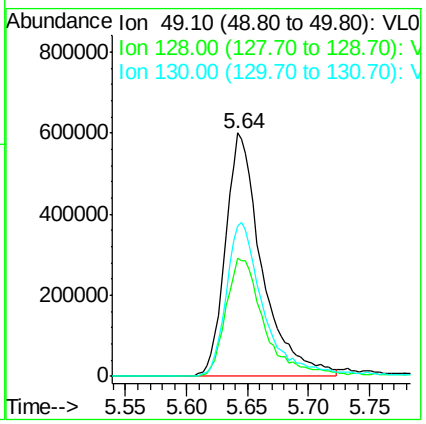


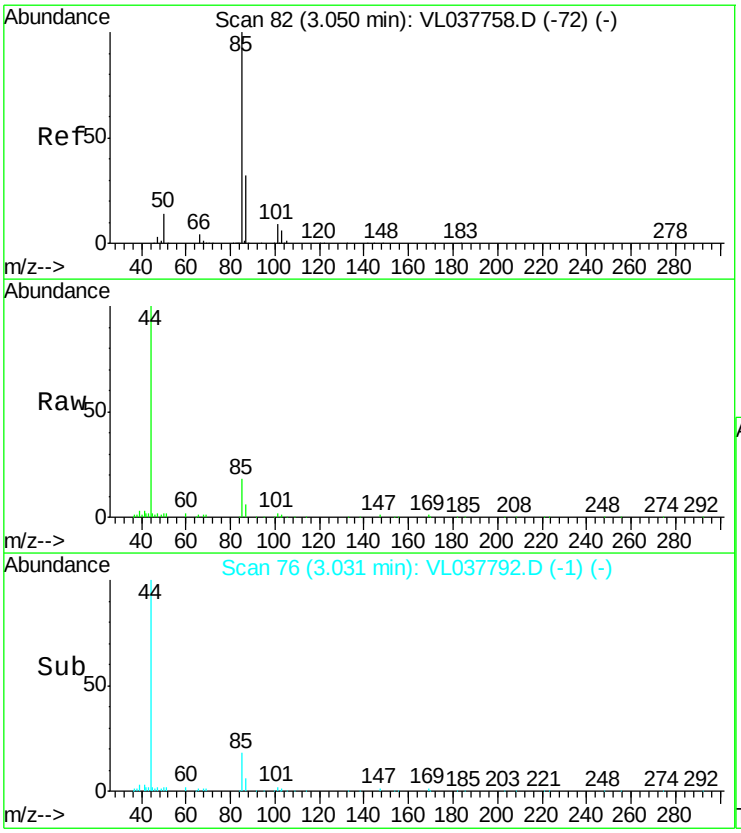
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 888
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 49 Resp: 1248020

Ion	Ratio	Lower	Upper
49	100		
128	52.0	27.1	81.3
130	66.3	33.2	99.6

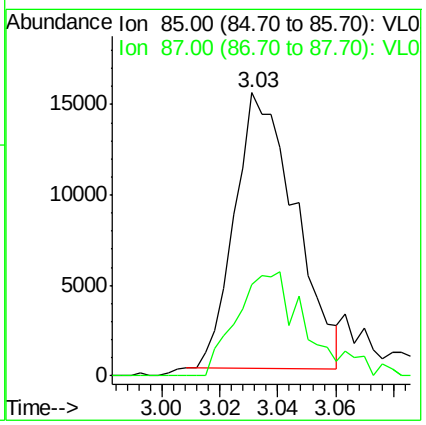


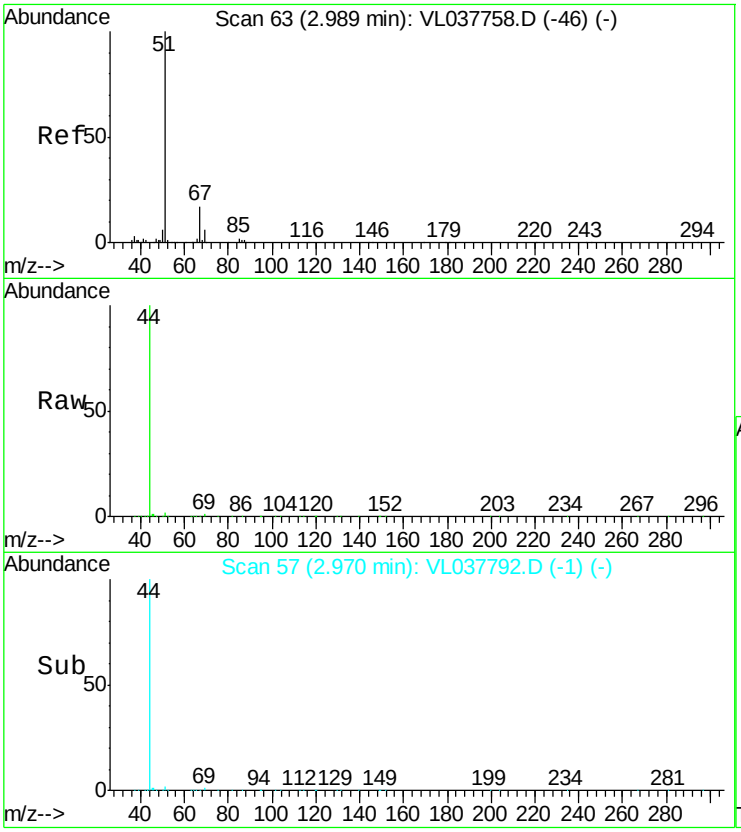


#2
Dichlorodifluoromethane
Concen: 0.111 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 85 Resp: 22080

Ion	Ratio	Lower	Upper
85	100		
87	33.3	25.7	38.5



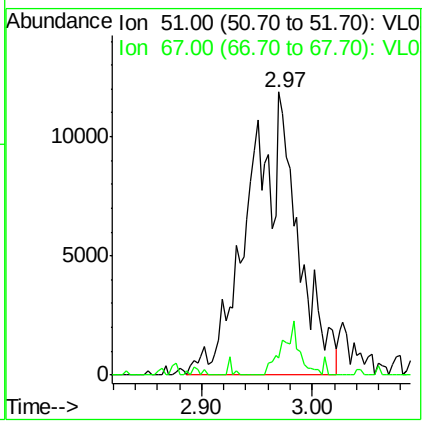


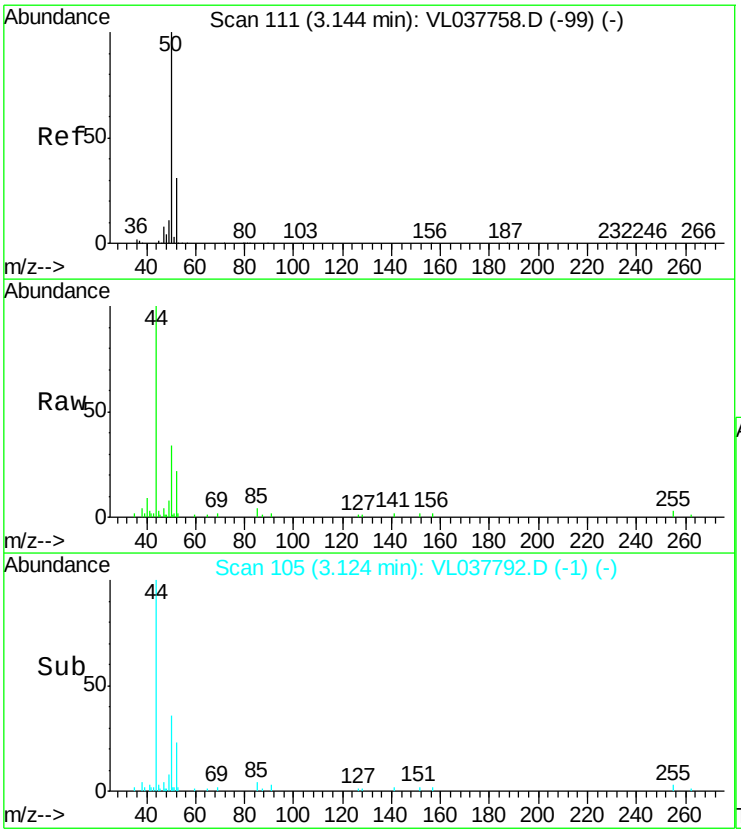
#3
Chlorodifluoromethane
Concen: 0.152 ppbv
RT: 2.97 min Scan# 57
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 51 Resp: 36385

Ion	Ratio	Lower	Upper
51	100		
67	7.1	13.5	20.3#

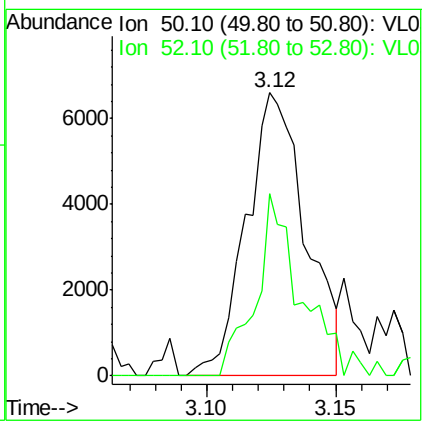


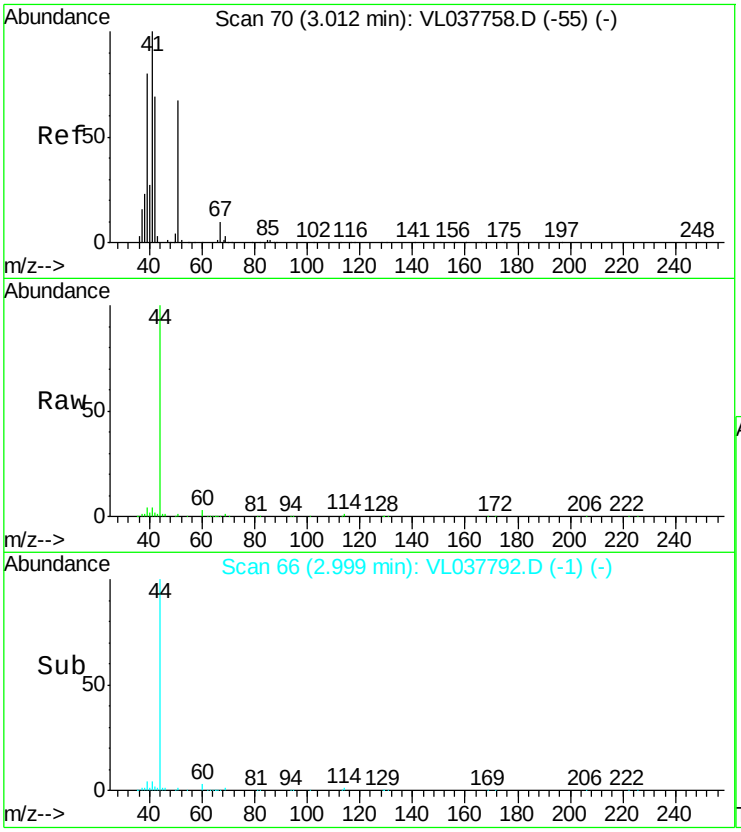


#4
Chloromethane
Concen: 0.121 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 50 Resp: 10645

Ion	Ratio	Lower	Upper
50	100		
52	66.5	24.4	36.6#



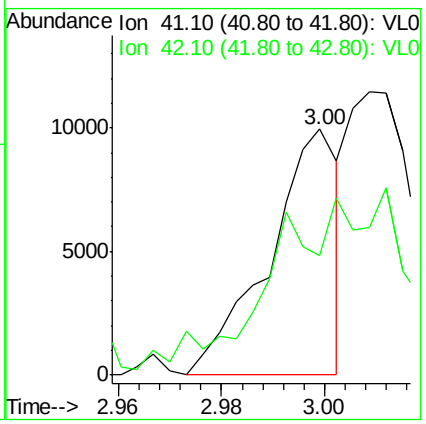


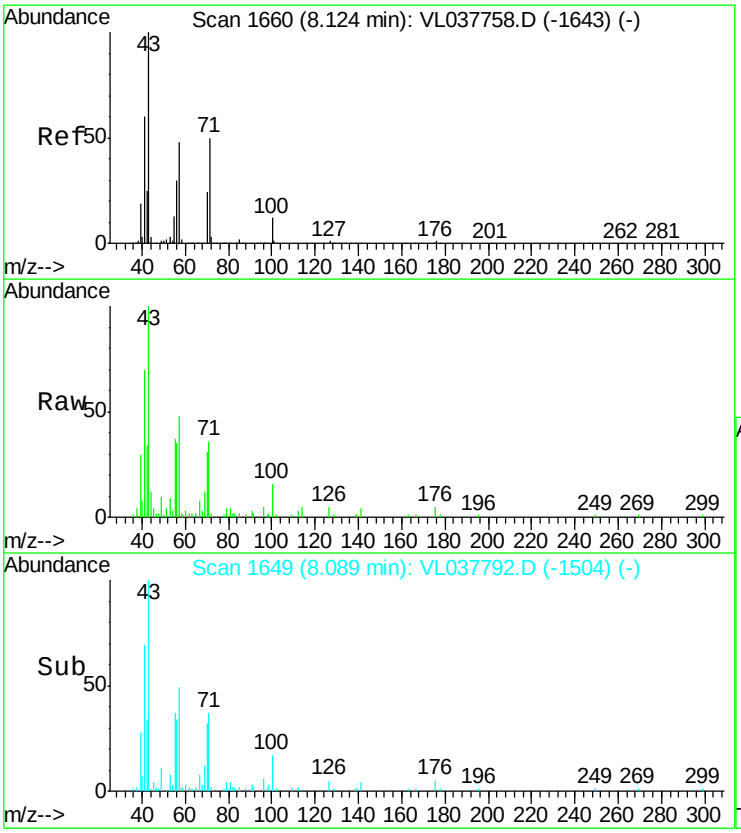
#9
Propene
Concen: 0.105 ppbv
RT: 3.00 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 41 Resp: 9251

Ion	Ratio	Lower	Upper
41	100		
42	0.0	54.2	81.2#

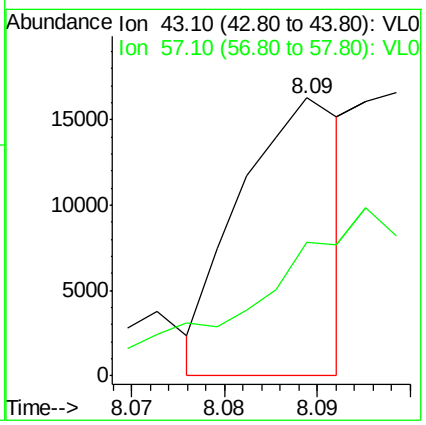


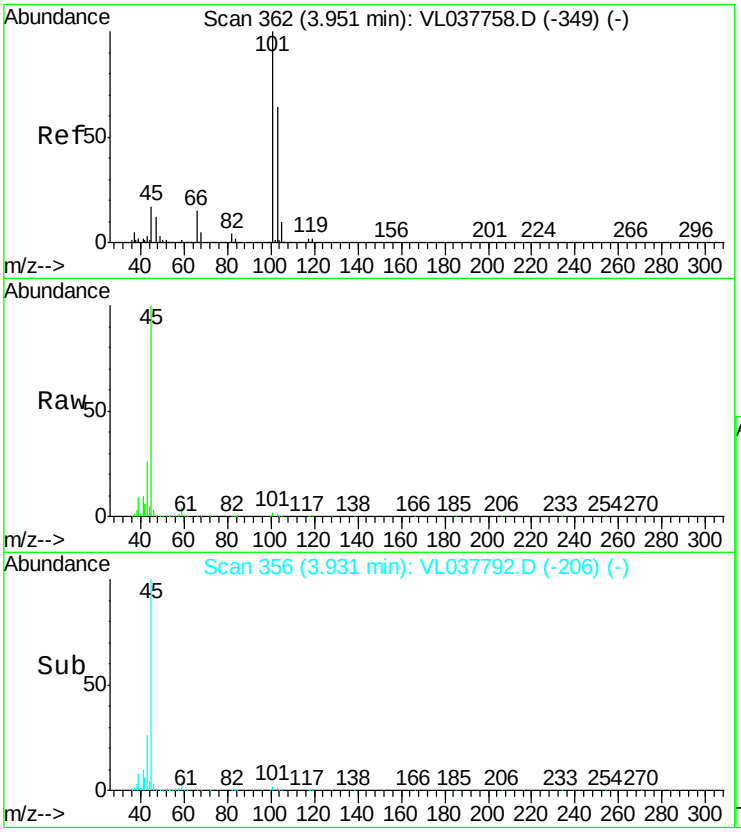


#10
Heptane
Concen: 0.062 ppbv
RT: 8.09 min Scan# 1649
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 12448

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.0	60.0#



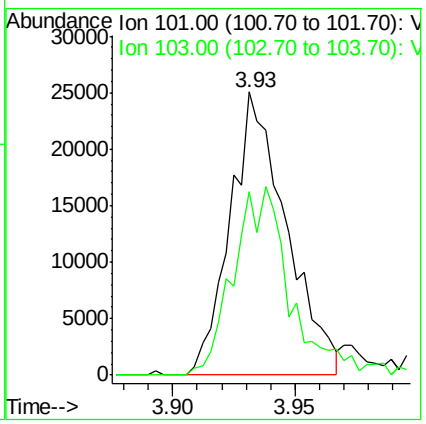


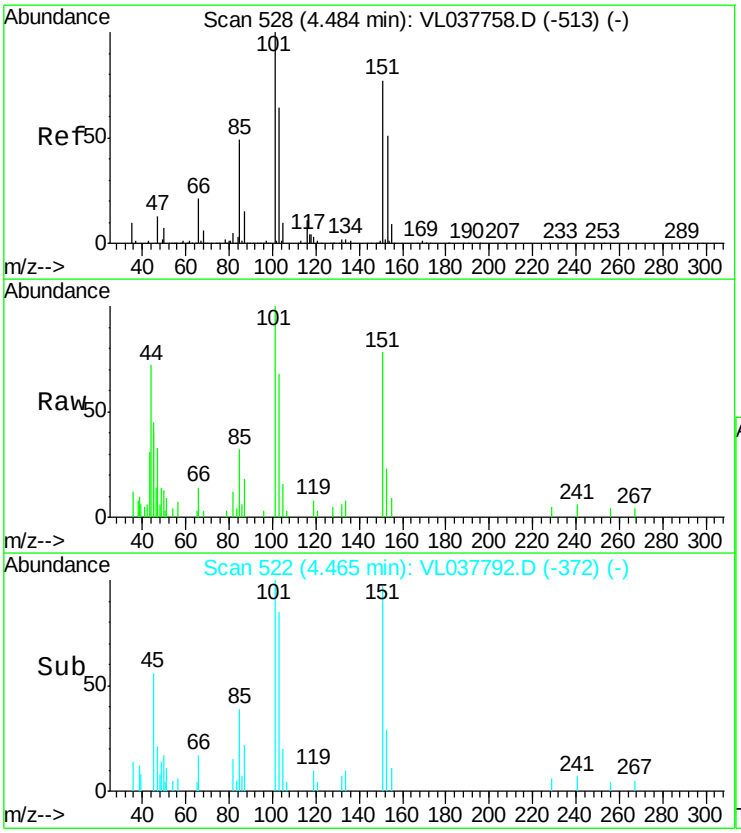
#11
Trichlorofluoromethane
Concen: 0.225 ppbv
RT: 3.93 min Scan# 356
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion:101 Resp: 39997

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.5	77.3

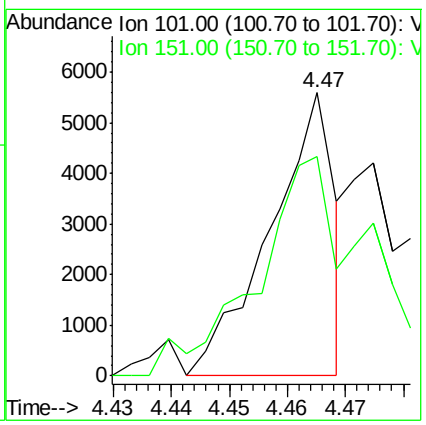


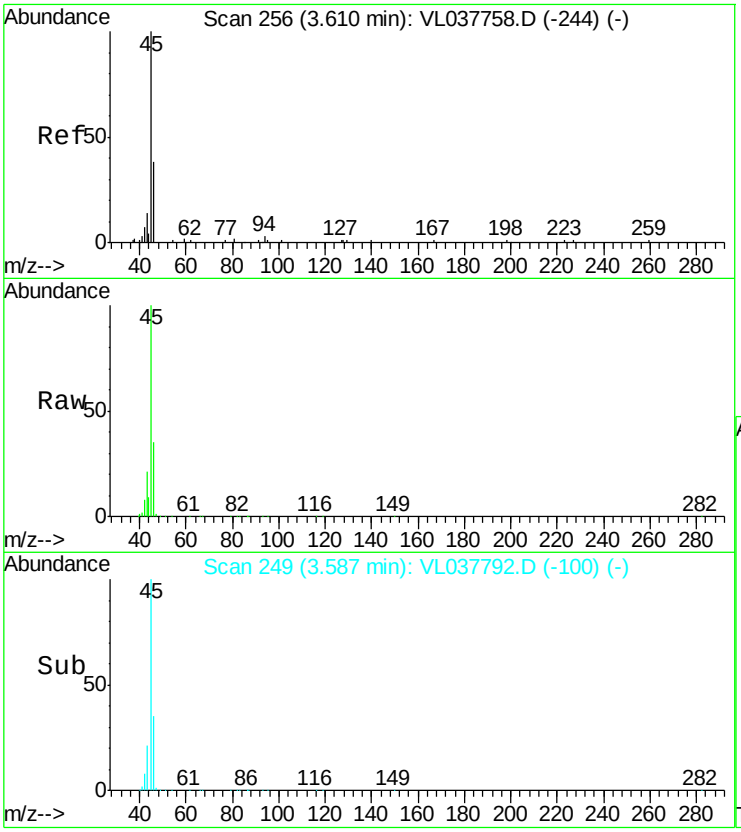


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.032 ppbv
RT: 4.47 min Scan# 522
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion:101 Resp: 4298

Ion	Ratio	Lower	Upper
101	100		
151	176.6	62.9	94.3#



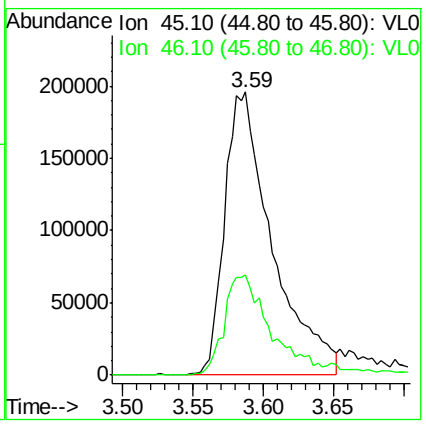


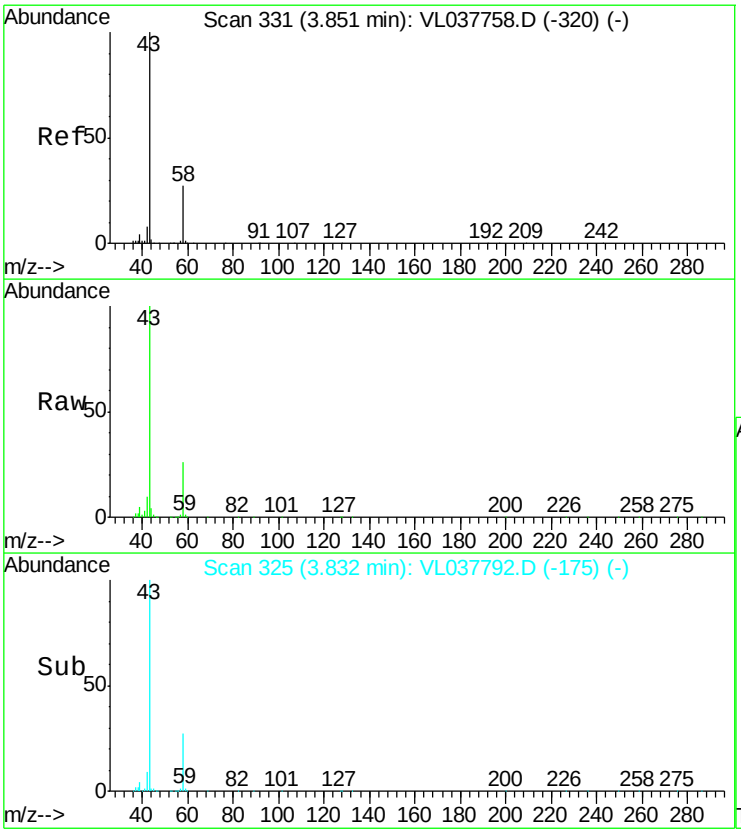
#13
Ethanol
Concen: 63.896 ppbv
RT: 3.59 min Scan# 249
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 45 Resp: 461057

Ion	Ratio	Lower	Upper
45	100		
46	37.8	20.2	81.0

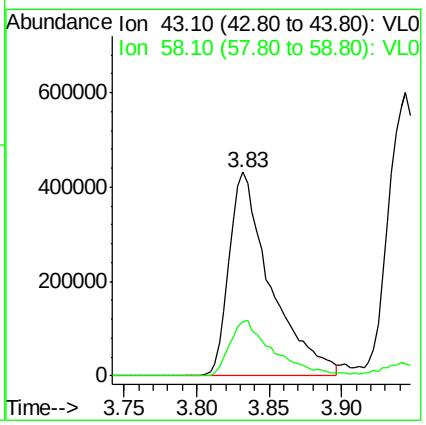


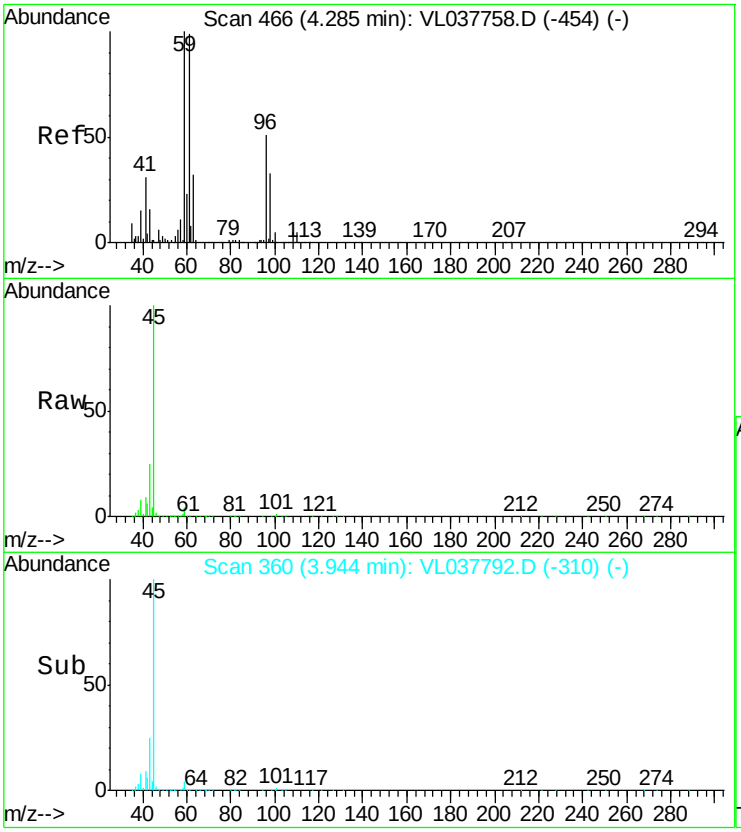


#15
Acetone
Concen: 7.627 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 854510

Ion	Ratio	Lower	Upper
43	100		
58	28.8	23.0	34.6



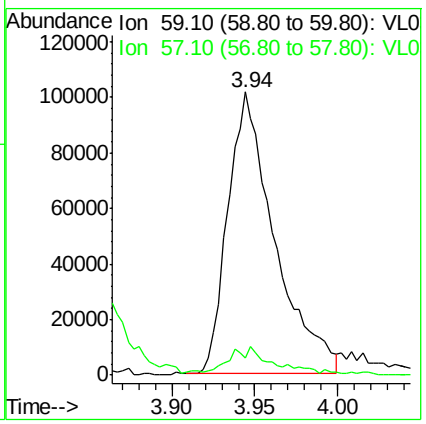


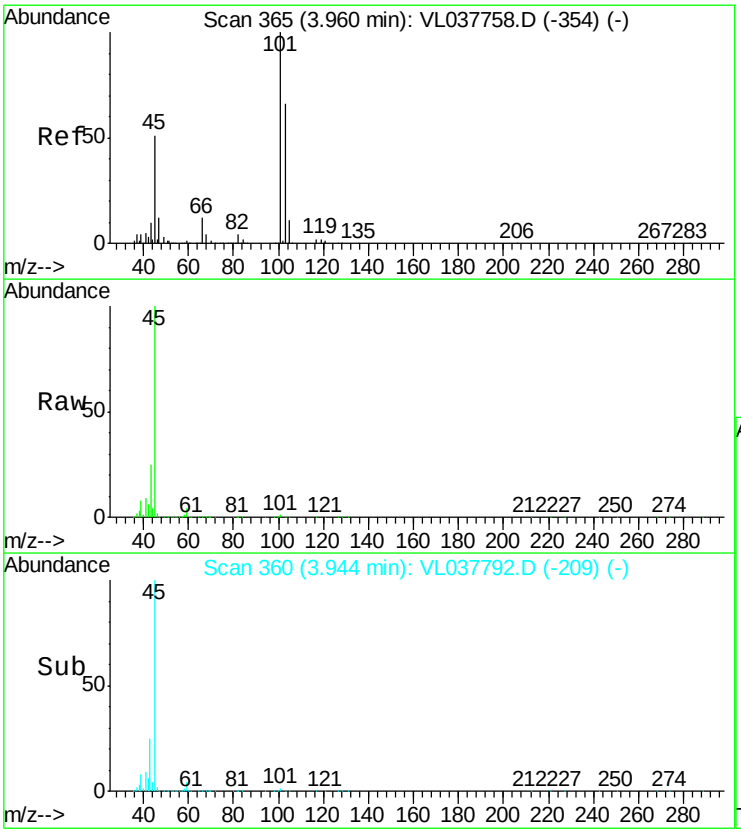
#17
tert-Butyl alcohol
Concen: 1.725 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.34 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 59 Resp: 199053

Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.6	13.0

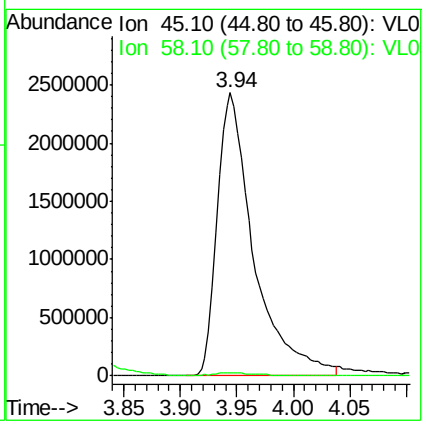


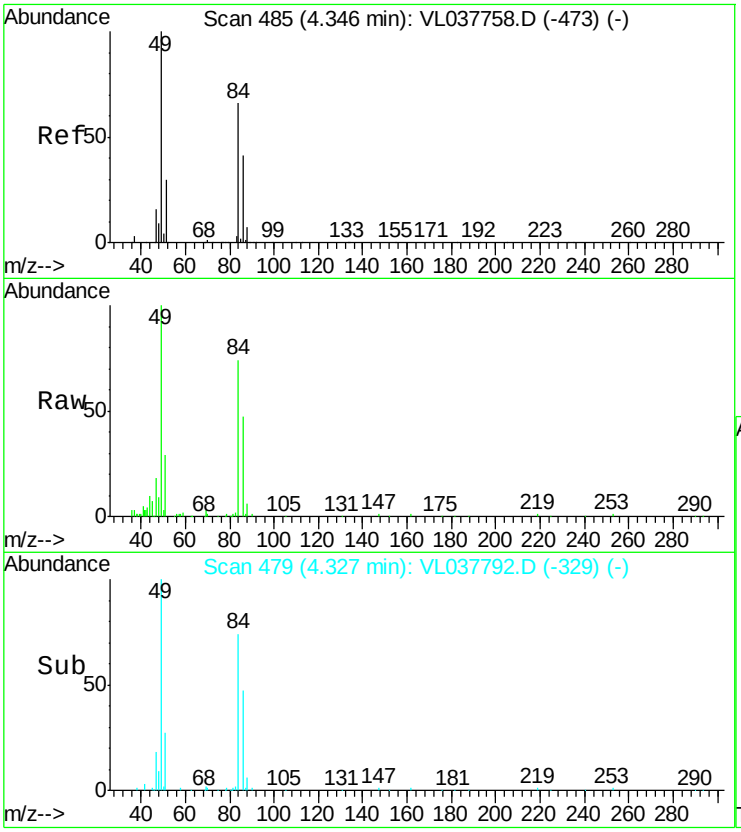


#19
Isopropyl Alcohol
Concen: 78.275 ppbv
RT: 3.94 min Scan# 360
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 45 Resp: 5455767

Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.1	1.7#



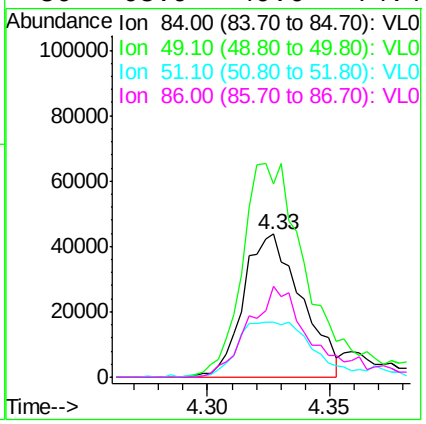


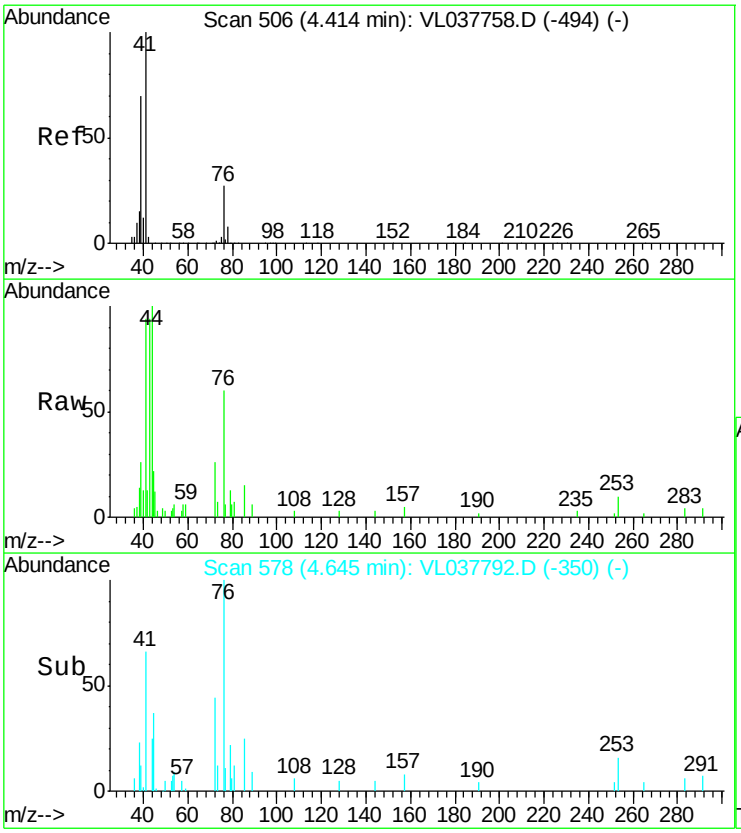
#20
Methylene Chloride
Concen: 1.275 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 84 Resp: 72153

Ion	Ratio	Lower	Upper
84	100		
49	134.7	120.7	181.1
51	37.4	36.2	54.4
86	63.9	49.6	74.4

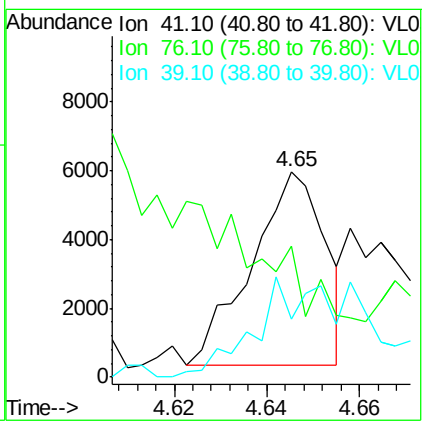


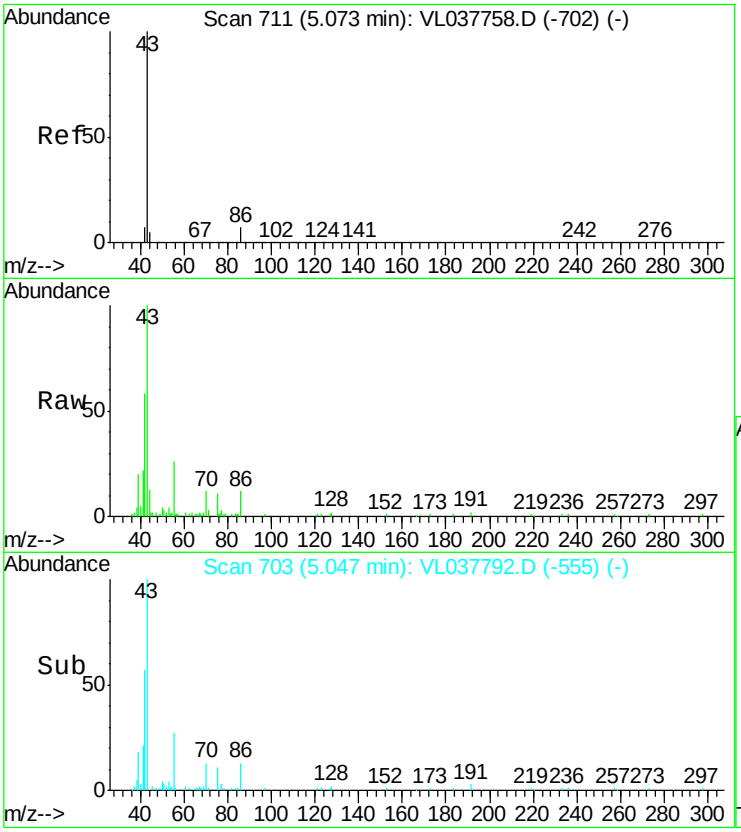


#21
Allyl Chloride
Concen: 0.062 ppbv
RT: 4.65 min Scan# 578
Delta R.T. 0.23 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 41 Resp: 6182

Ion	Ratio	Lower	Upper
41	100		
76	7128.6	22.4	33.6#
39	0.0	58.0	87.0#



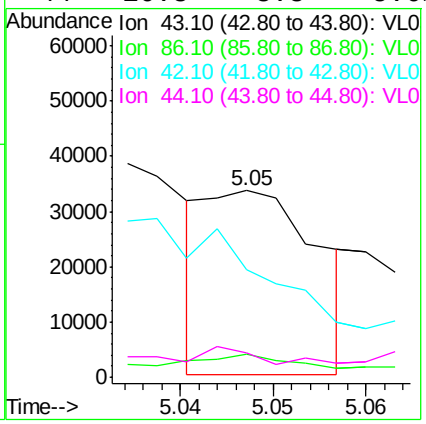


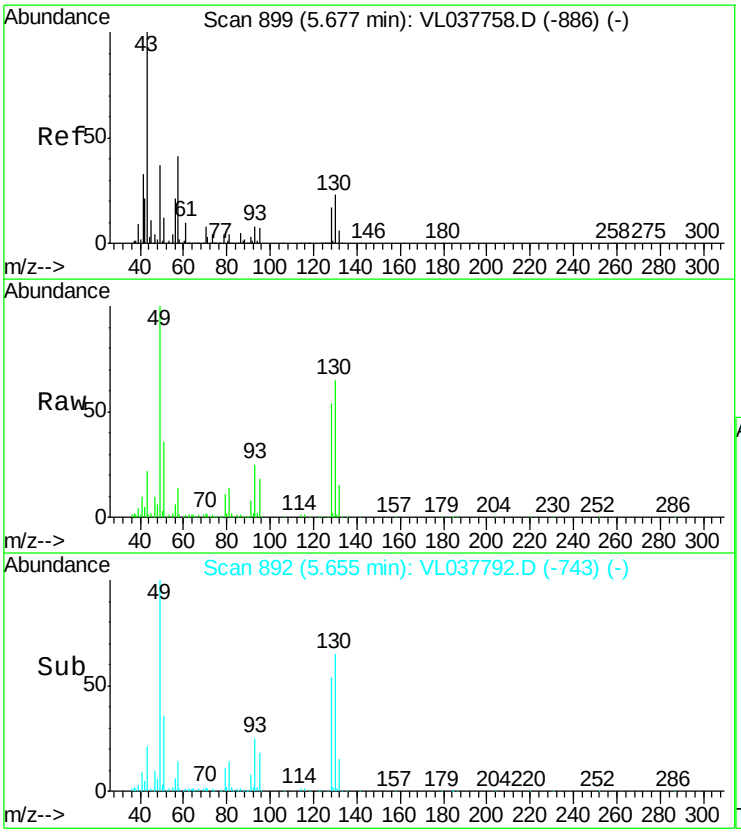
#23
Vinyl Acetate
Concen: 0.165 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 43 Resp: 27695

Ion	Ratio	Lower	Upper
43	100		
86	23.6	5.0	7.4#
42	92.0	7.4	11.0#
44	16.8	3.8	5.6#

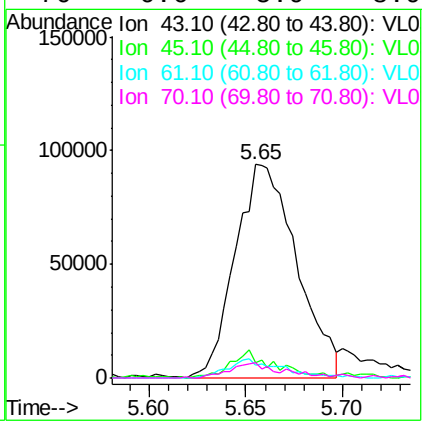


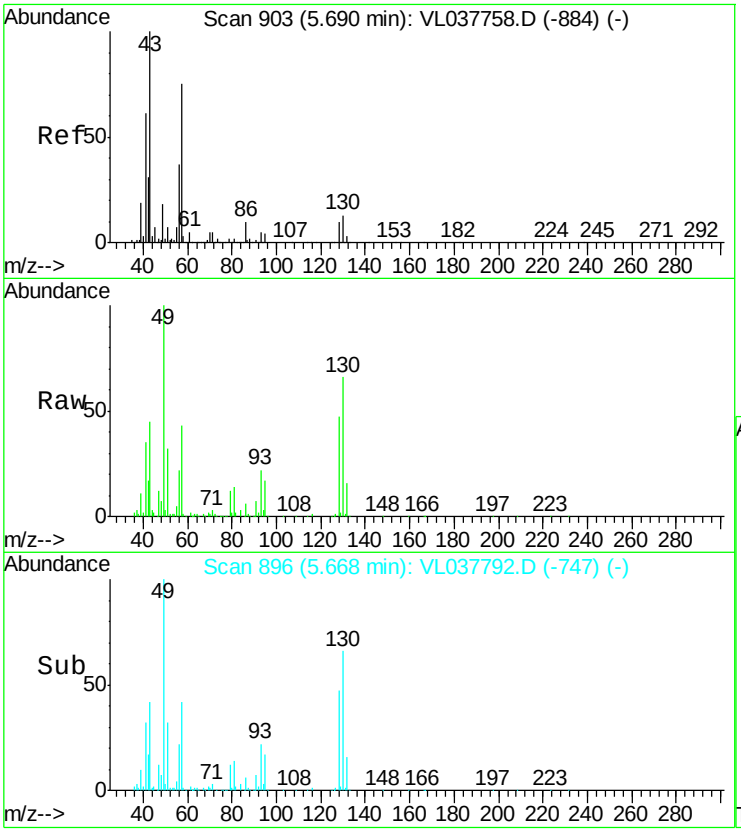


#25
Ethyl Acetate
Concen: 0.661 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 207684

Ion	Ratio	Lower	Upper
43	100		
45	9.2	8.1	12.1
61	7.9	7.5	11.3
70	6.6	5.9	8.9



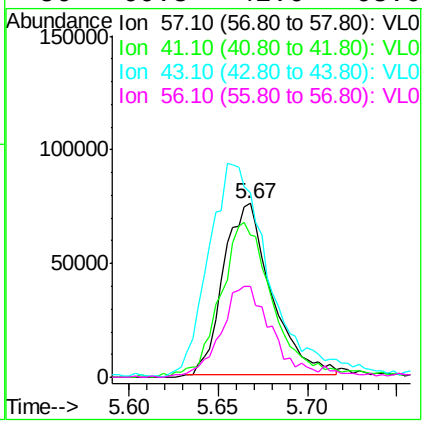


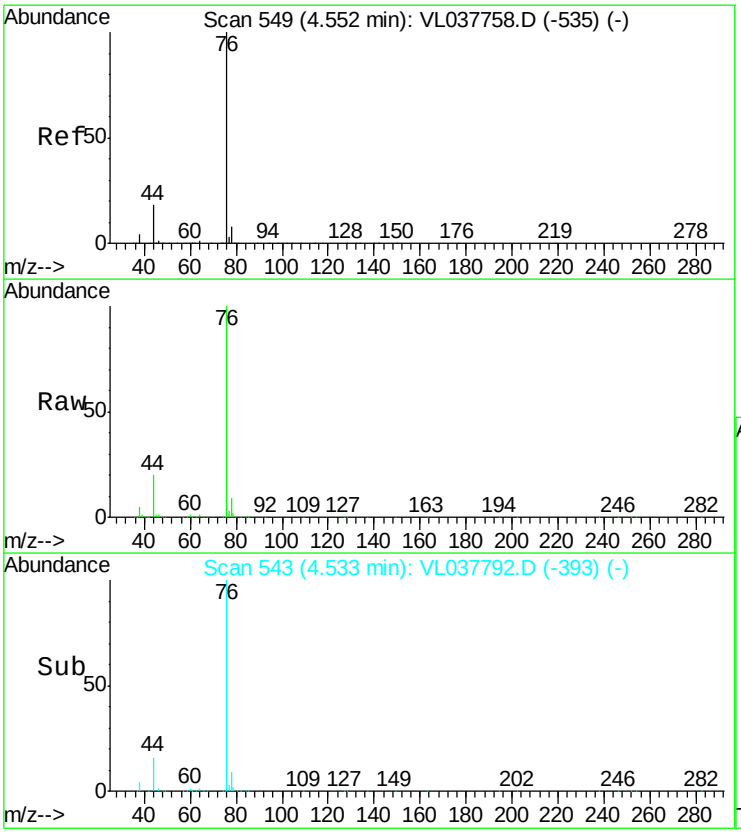
#26
Hexane
Concen: 0.911 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 57 Resp: 141021

Ion	Ratio	Lower	Upper
57	100		
41	103.3	69.6	104.4
43	161.2	171.4	257.0#
56	60.3	42.0	63.0

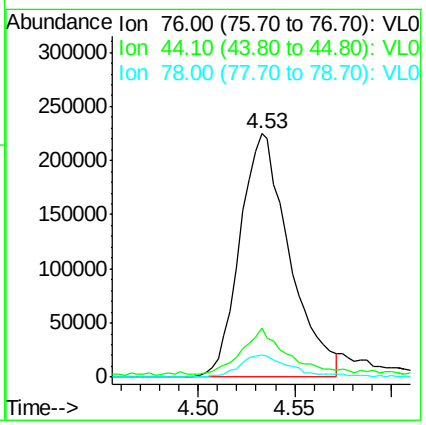


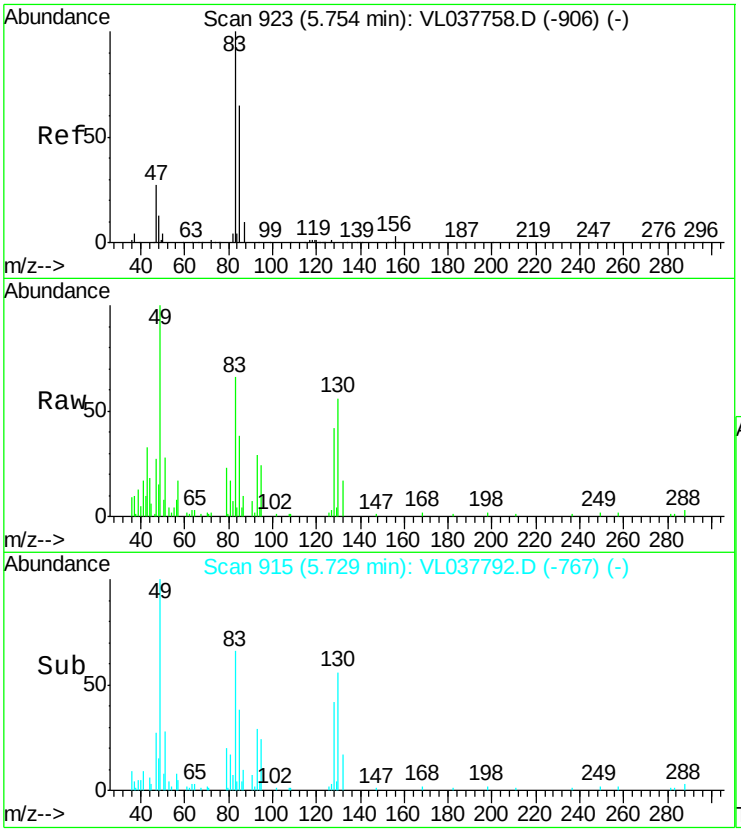


#27
Carbon Disulfide
Concen: 2.931 ppbv
RT: 4.53 min Scan# 543
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 76 Resp: 402087

Ion	Ratio	Lower	Upper
76	100		
44	19.9	14.3	21.5
78	10.1	7.8	11.6



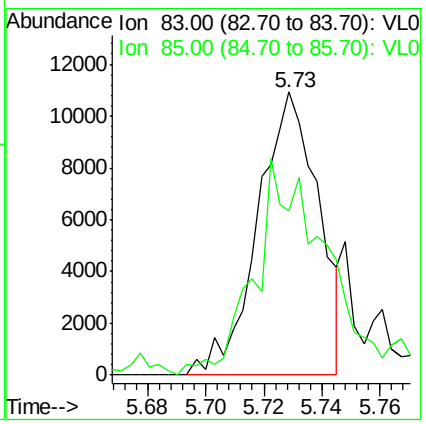


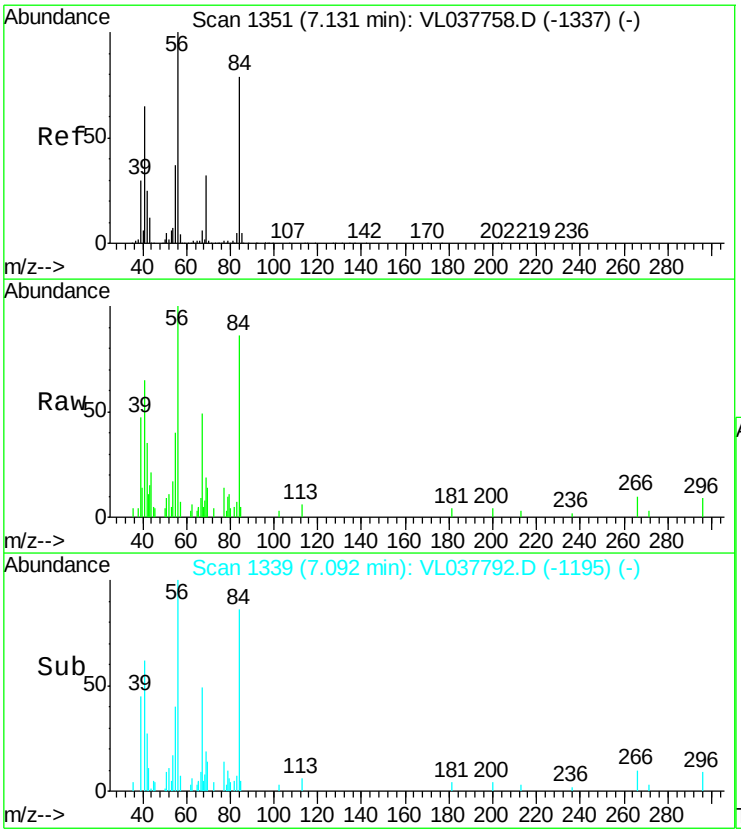
#29
Chloroform
Concen: 0.072 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 83 Resp: 15843

Ion	Ratio	Lower	Upper
83	100		
85	54.2	51.8	77.8

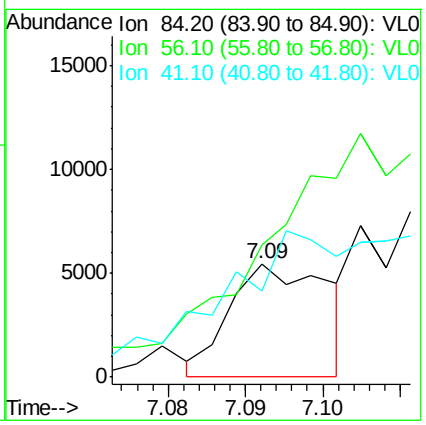


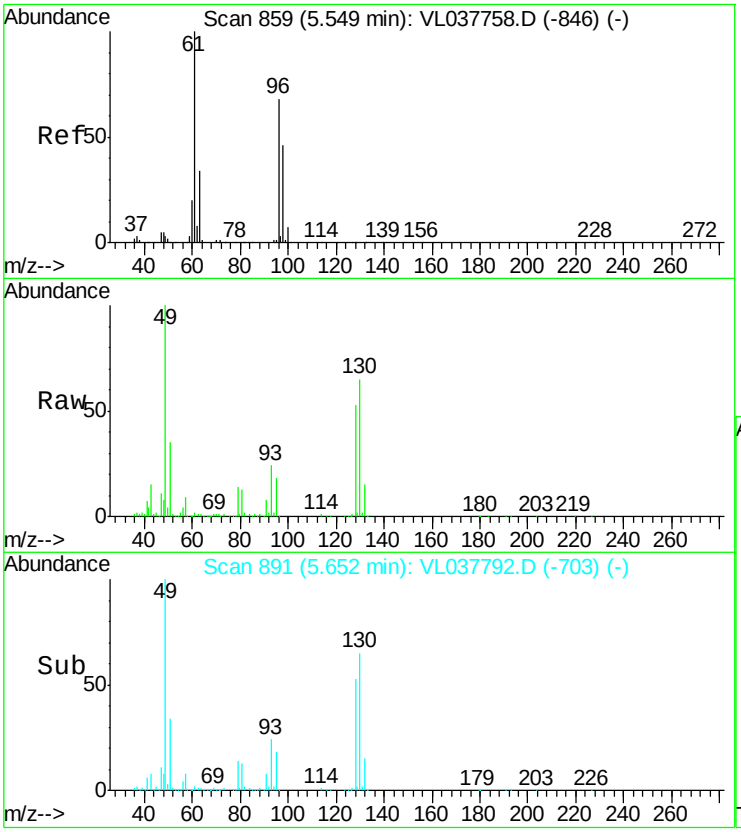


#30
Cyclohexane
Concen: 0.036 ppbv
RT: 7.09 min Scan# 1339
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 84 Resp: 4787

Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.0	169.4#
41	0.0	69.1	103.7#



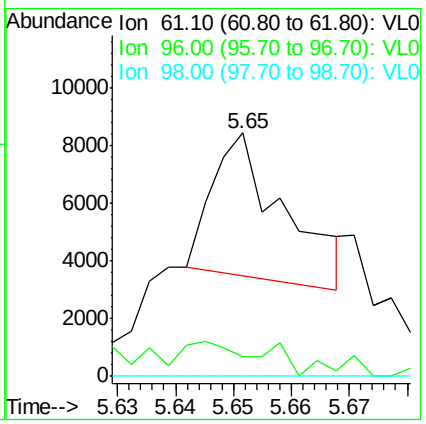


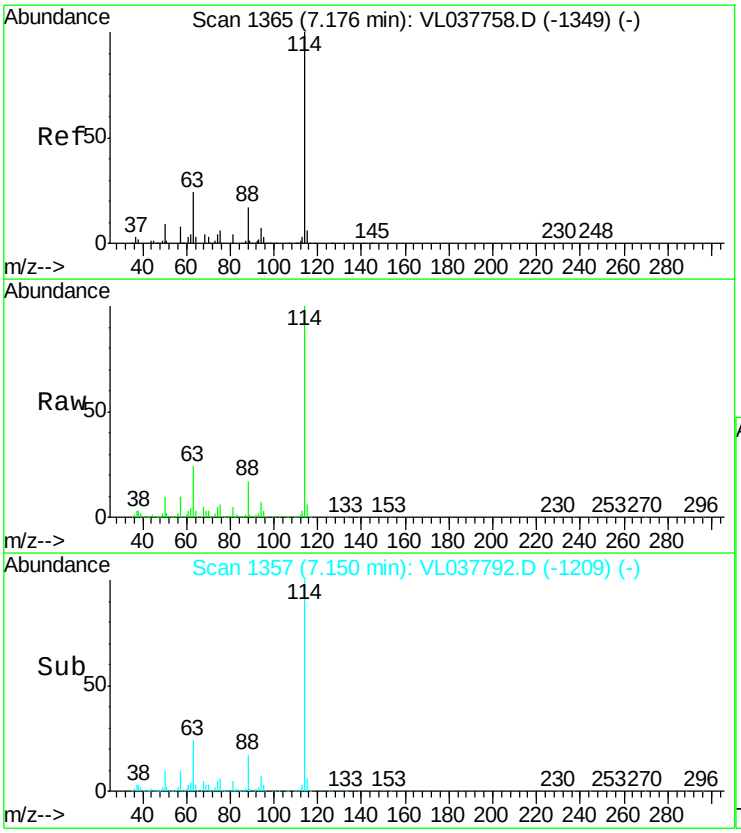
#31
cis-1,2-Dichloroethene
Concen: 0.030 ppbv
RT: 5.65 min Scan# 891
Delta R.T. 0.10 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 61 Resp: 4182

Ion	Ratio	Lower	Upper
61	100		
96	11.1	54.2	81.2#
98	0.0	36.6	54.8#

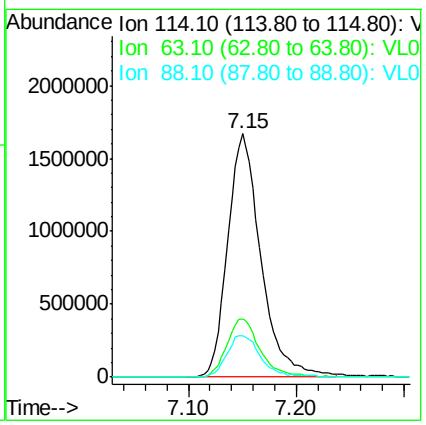


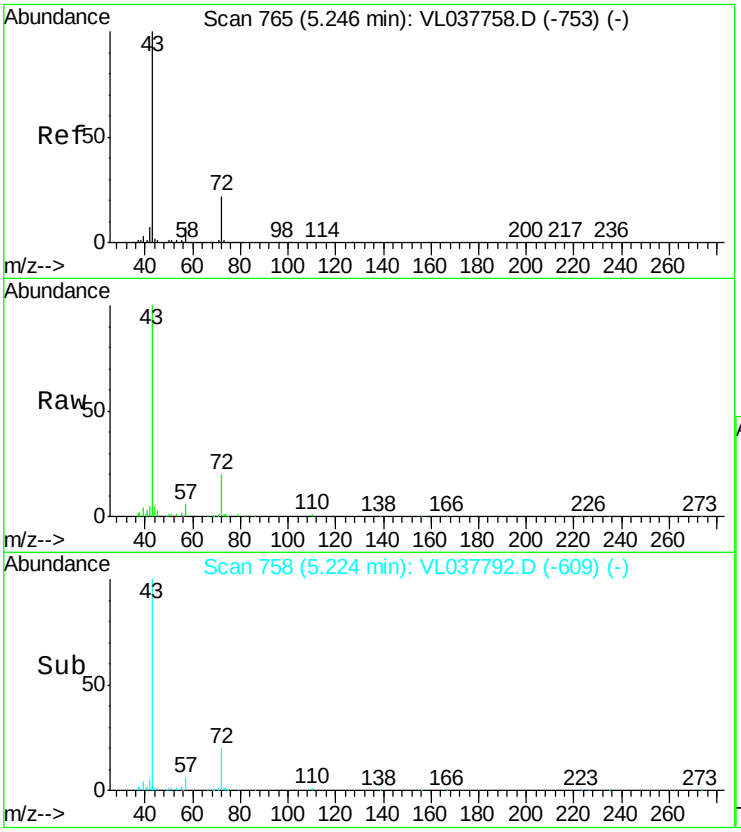


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion:114 Resp: 3578261

Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.4	29.2
88	17.8	14.4	21.6



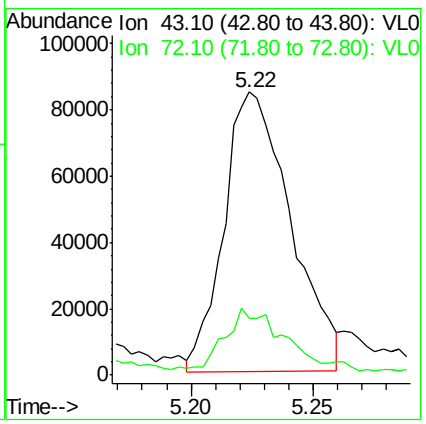


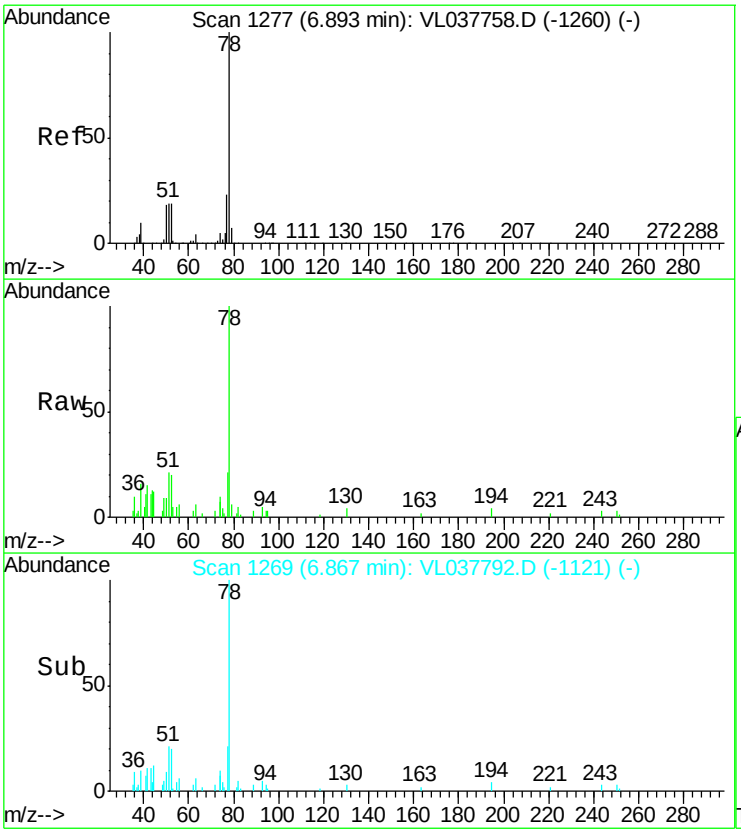
#34
2-Butanone
Concen: 1.108 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 43 Resp: 160118

Ion	Ratio	Lower	Upper
43	100		
72	27.3	18.2	27.2#

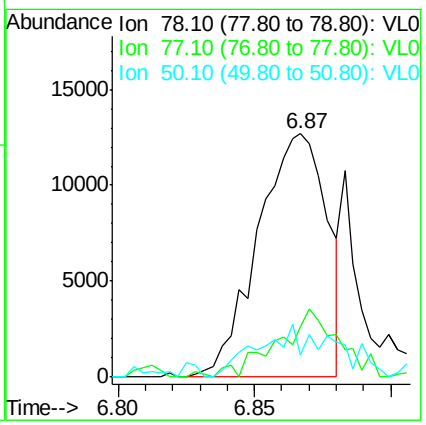


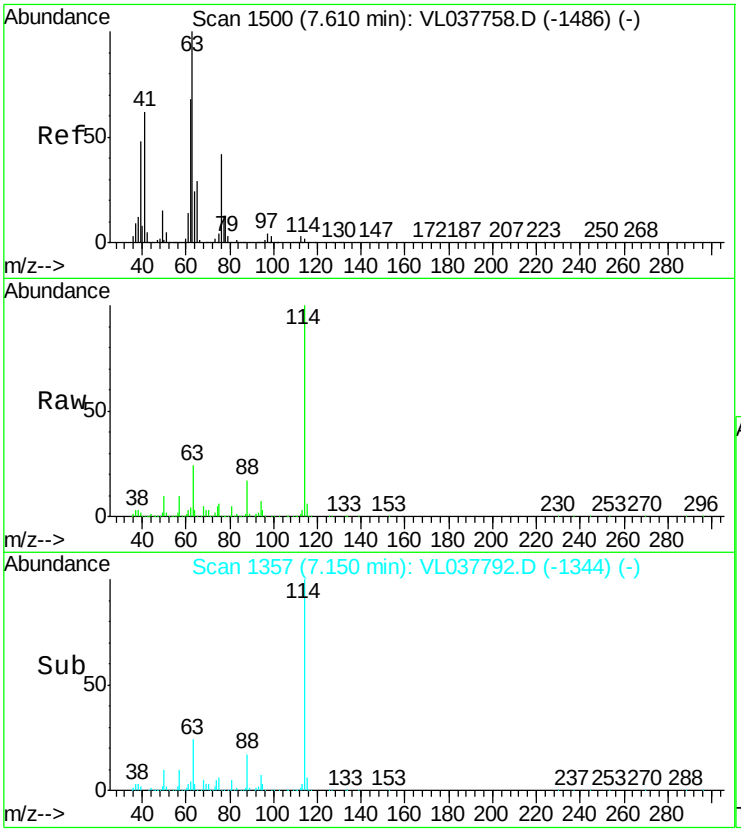


#36
Benzene
Concen: 0.073 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 78 Resp: 22210

Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.8	28.2
50	3.2	14.7	22.1#



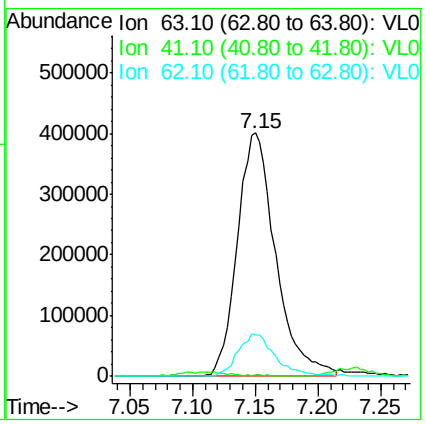


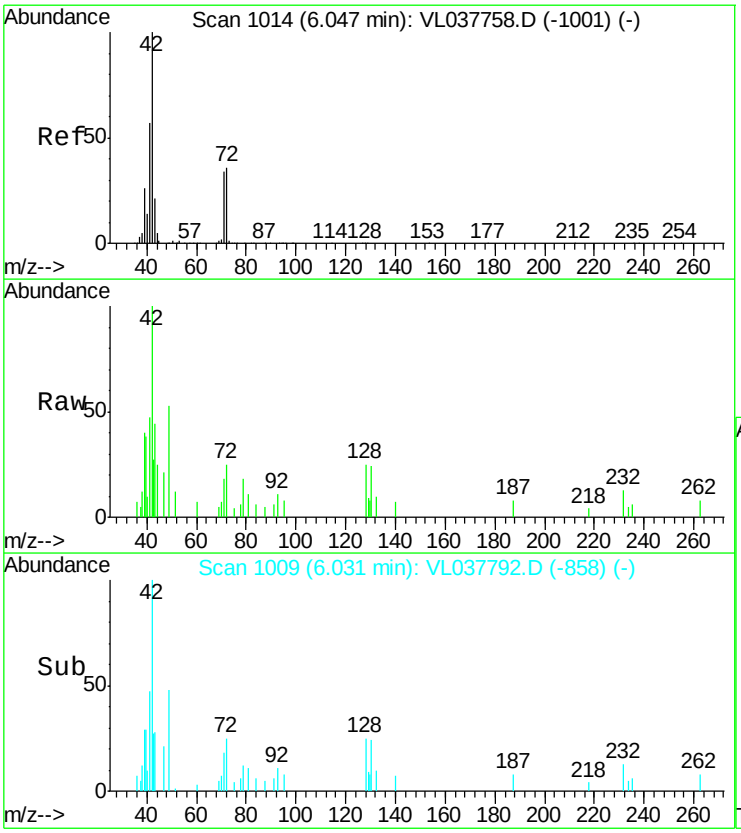
#39
1,2-Dichloropropane
Concen: 7.411 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.46 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 63 Resp: 852024

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	16.7	54.6	82.0#

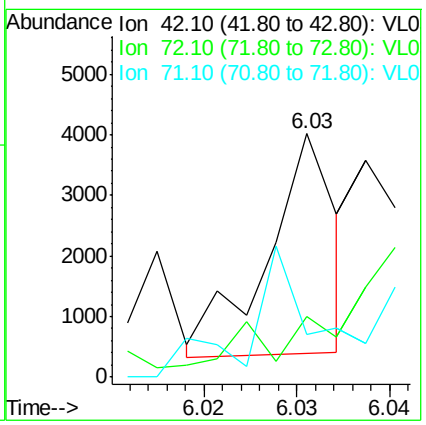


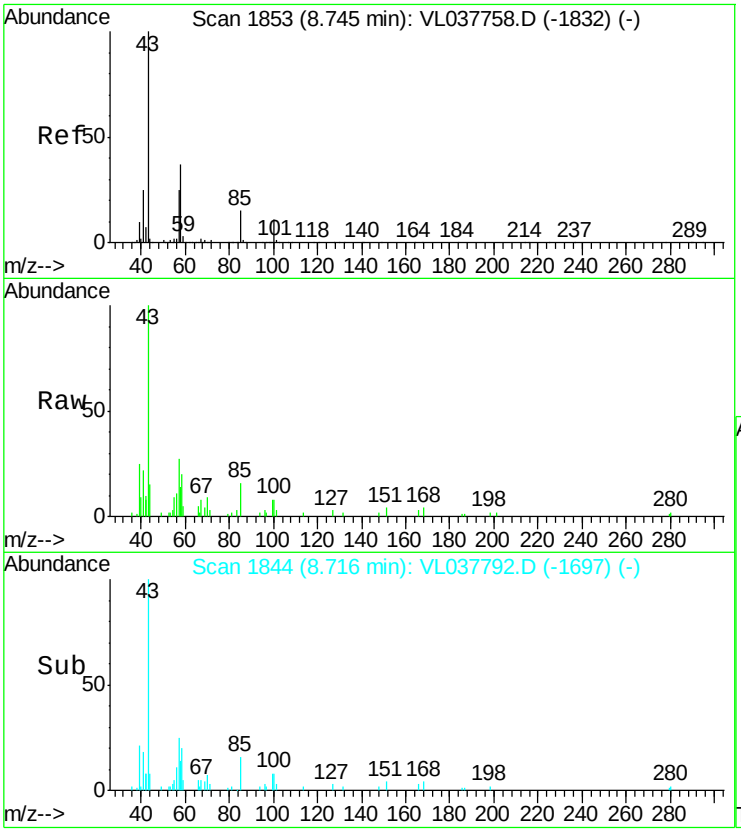


#41
Tetrahydrofuran
Concen: 0.026 ppbv
RT: 6.03 min Scan# 1009
Delta R.T. -0.02 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 42 Resp: 1839

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.9	47.9#
71	118.2	30.3	45.5#



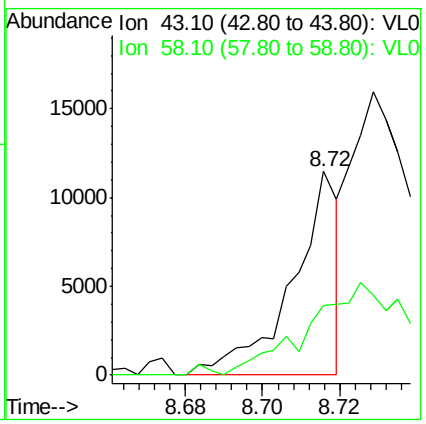


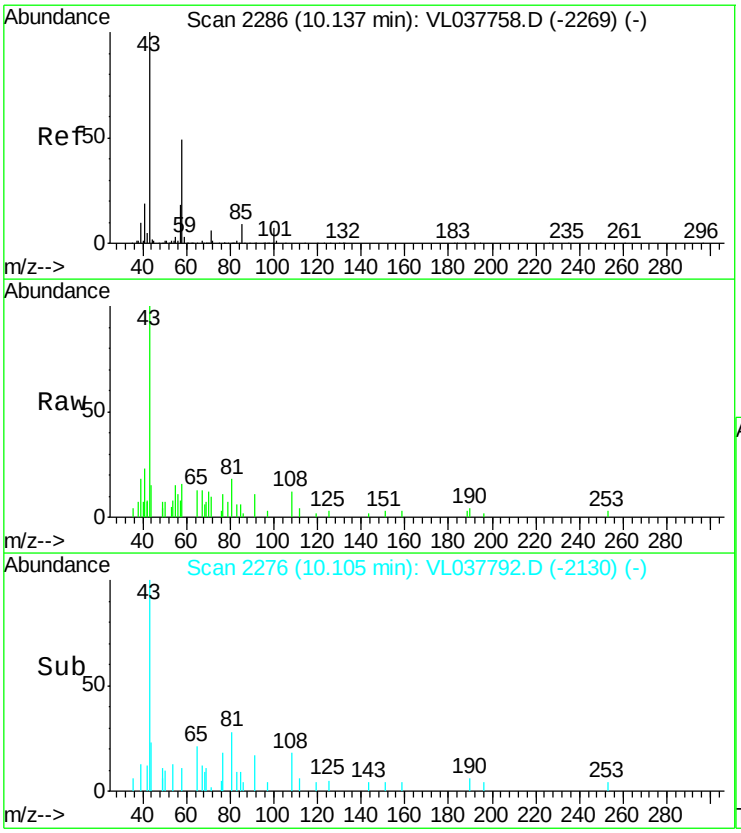
#50
4-Methyl-2-Pentanone
Concen: 0.050 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 43 Resp: 9440

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.0#

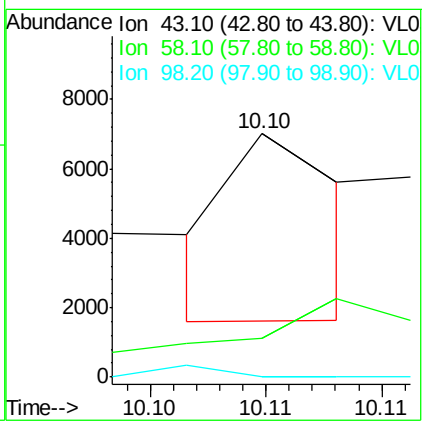


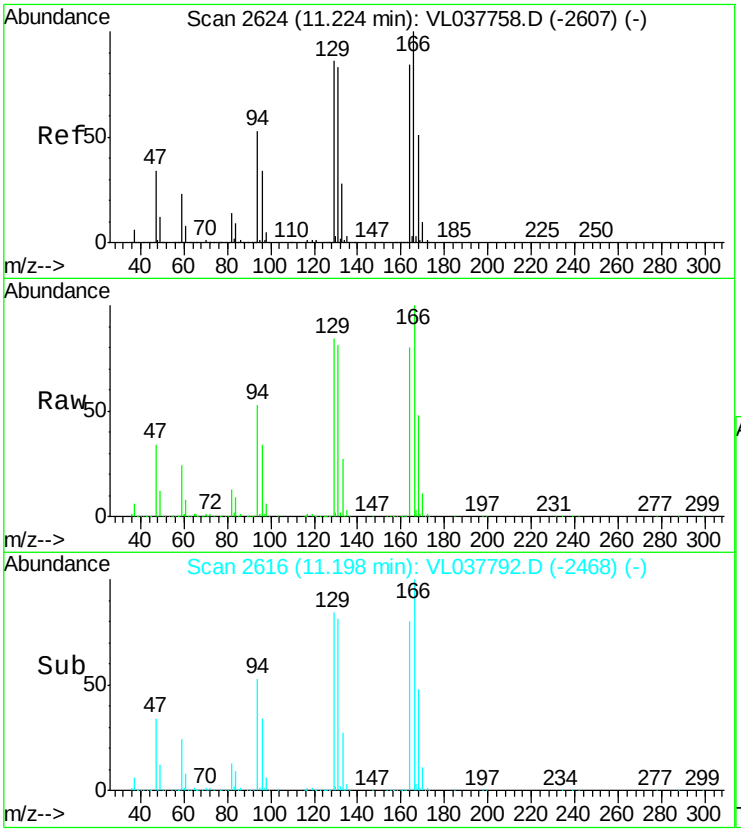


#51
2-Hexanone
Concen: 0.022 ppbv
RT: 10.10 min Scan# 2276
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 43 Resp: 1815

Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.4	59.0#
98	0.0	0.3	0.5#



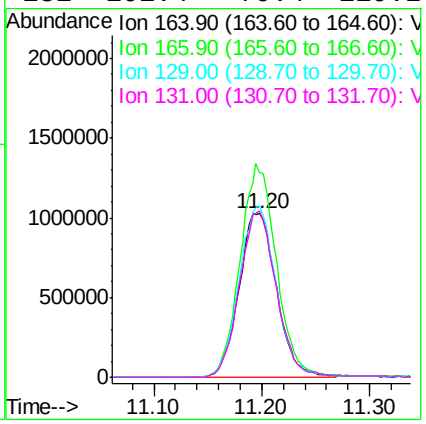


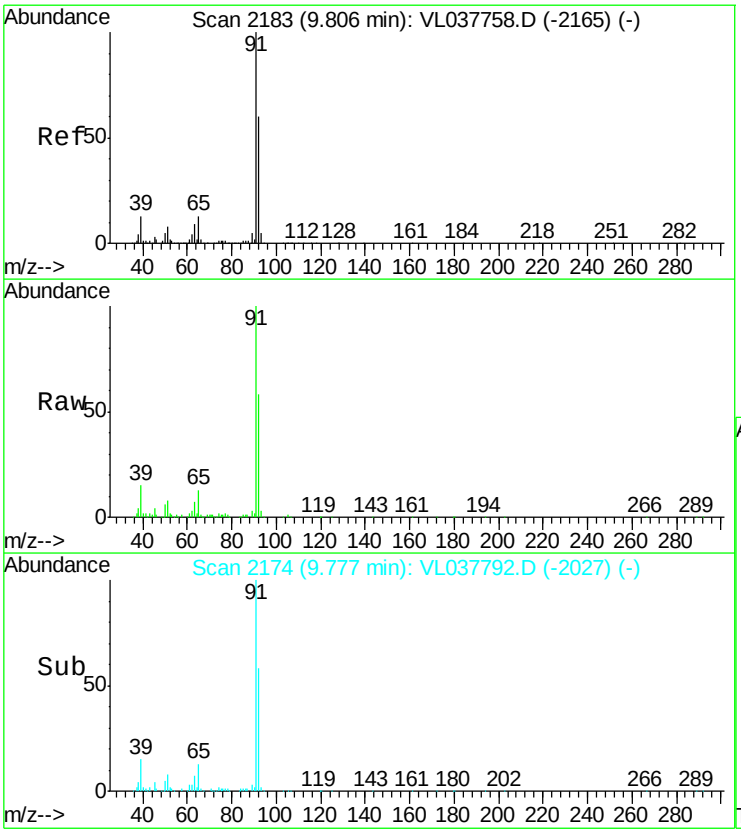
#52
Tetrachloroethene
Concen: 20.867 ppbv
RT: 11.20 min Scan# 2616
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion:164 Resp: 2481236

Ion	Ratio	Lower	Upper
164	100		
166	125.0	95.4	143.2
129	105.1	82.2	123.4
131	101.4	79.4	119.2

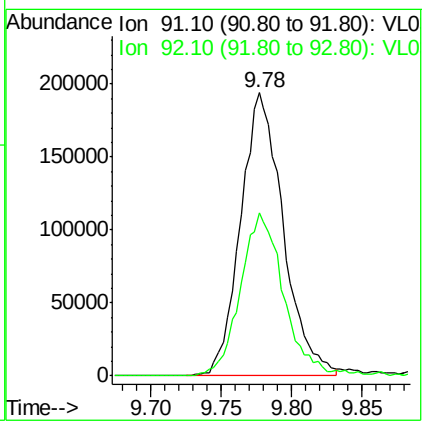


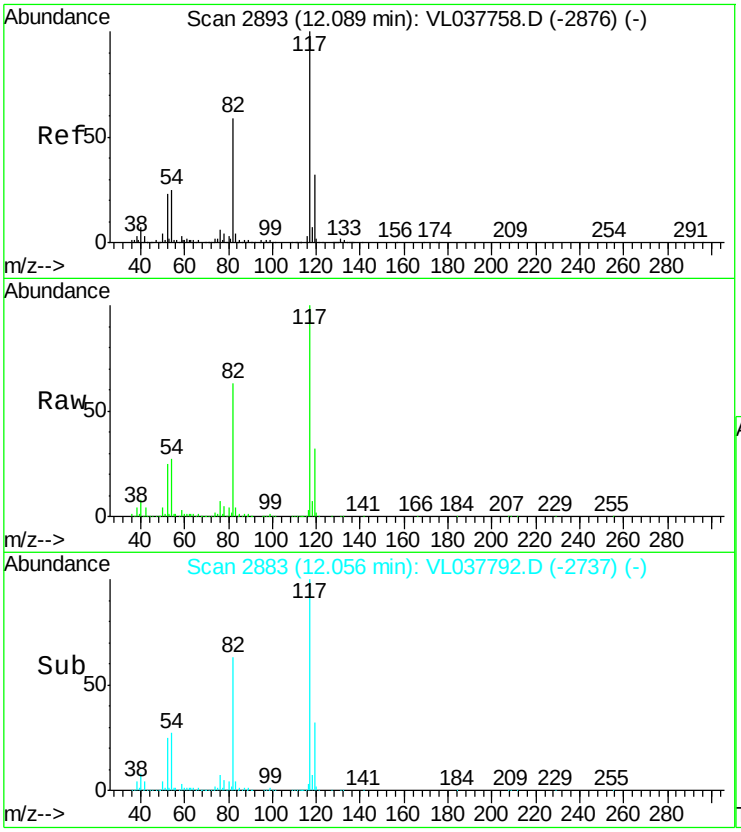


#53
Toluene
Concen: 1.212 ppbv
RT: 9.78 min Scan# 2174
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 410474

Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.4	72.6



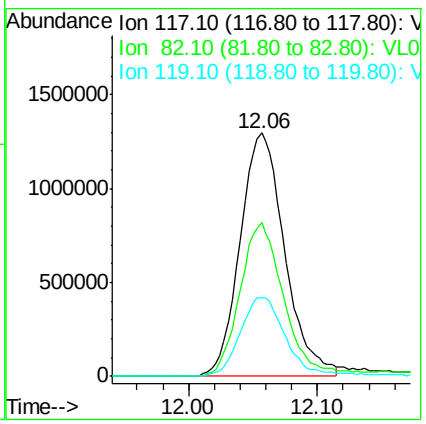


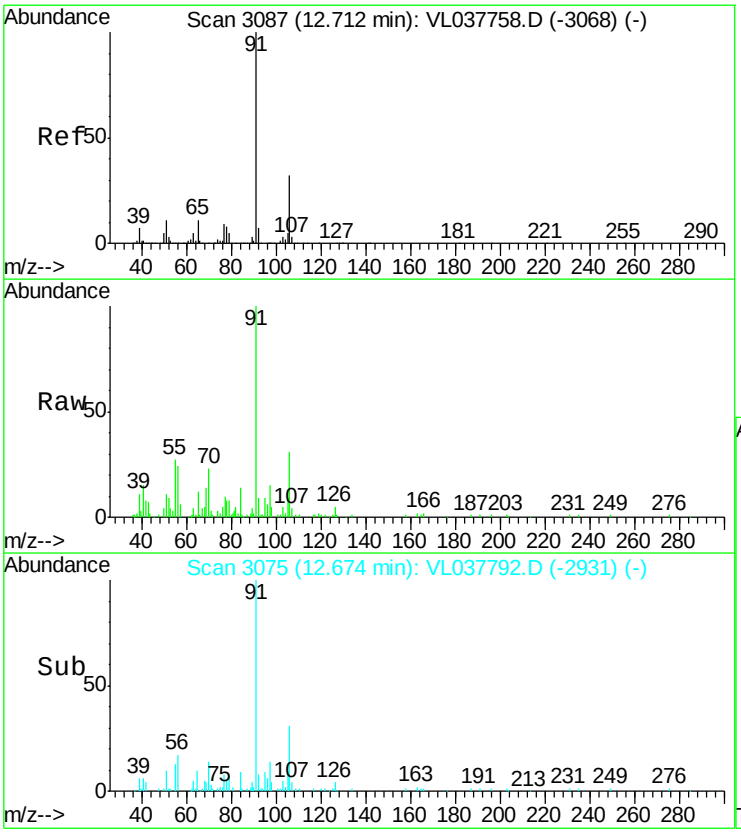
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2883
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion:117 Resp: 3116582

Ion	Ratio	Lower	Upper
117	100		
82	65.8	52.2	78.2
119	34.4	26.0	39.0

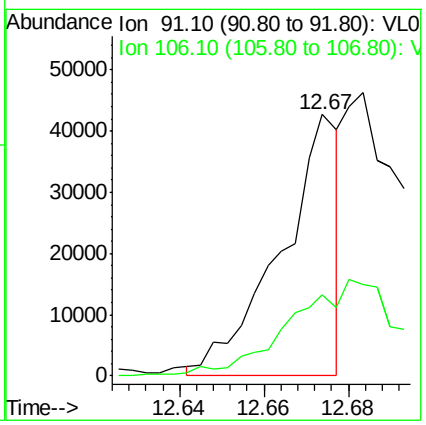


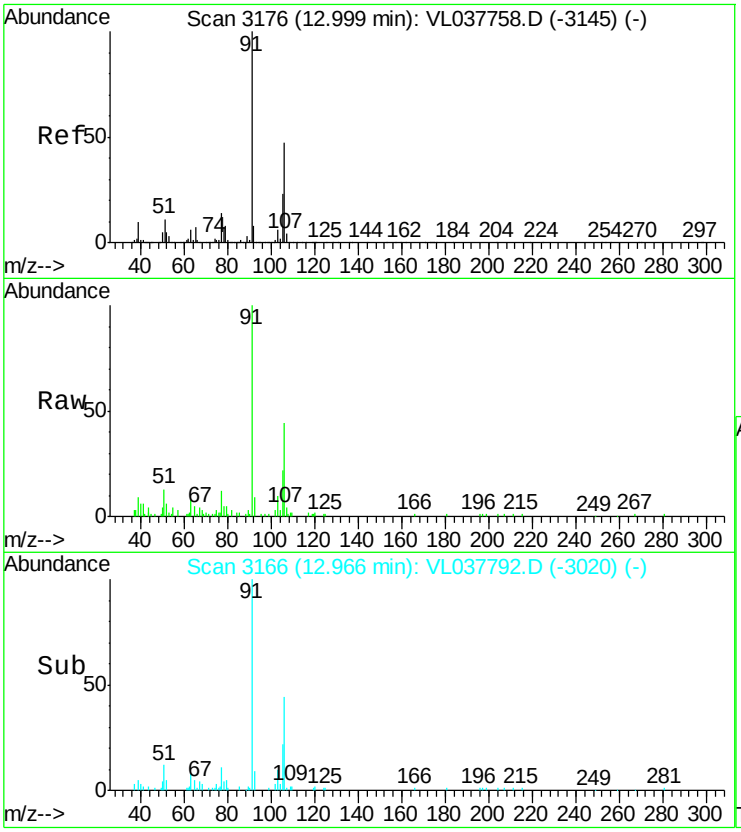


#58
Ethyl Benzene
Concen: 0.098 ppbv
RT: 12.67 min Scan# 3075
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 40882

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.3	37.9



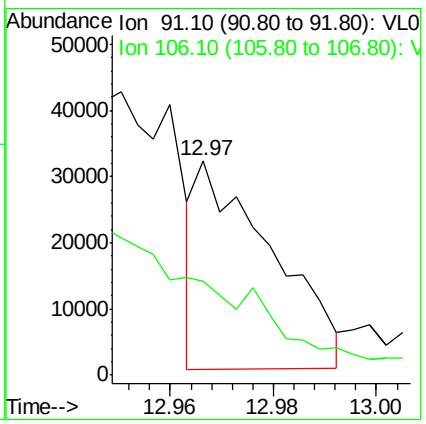


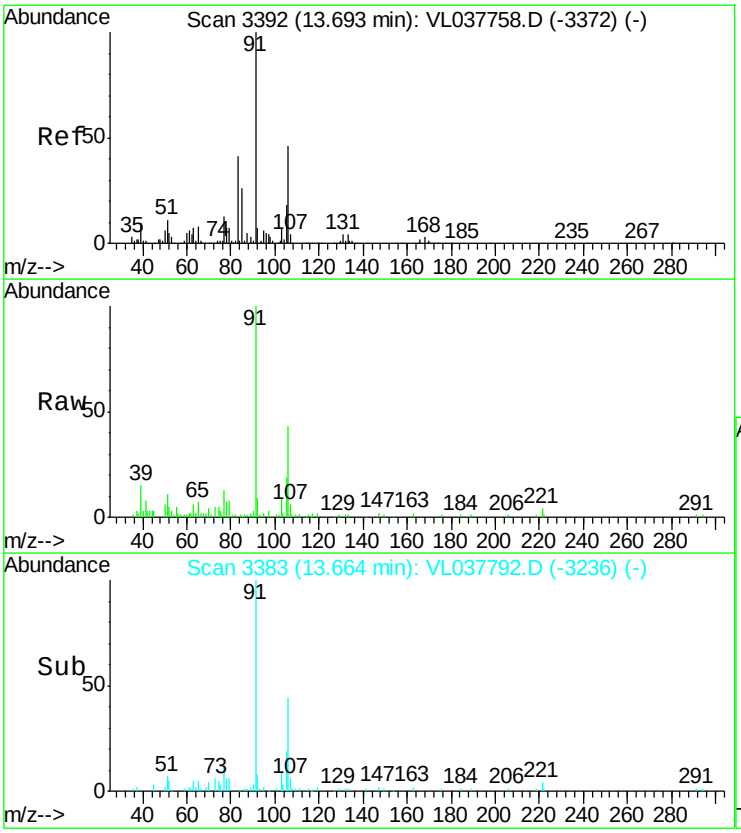
#59
m/p-Xylene
Concen: 0.089 ppbv
RT: 12.97 min Scan# 3166
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument : MSVOA_L
ClientSampleId : C0P11

Tgt Ion: 91 Resp: 31877

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1#

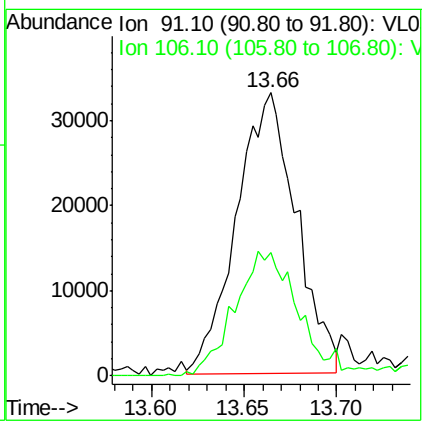


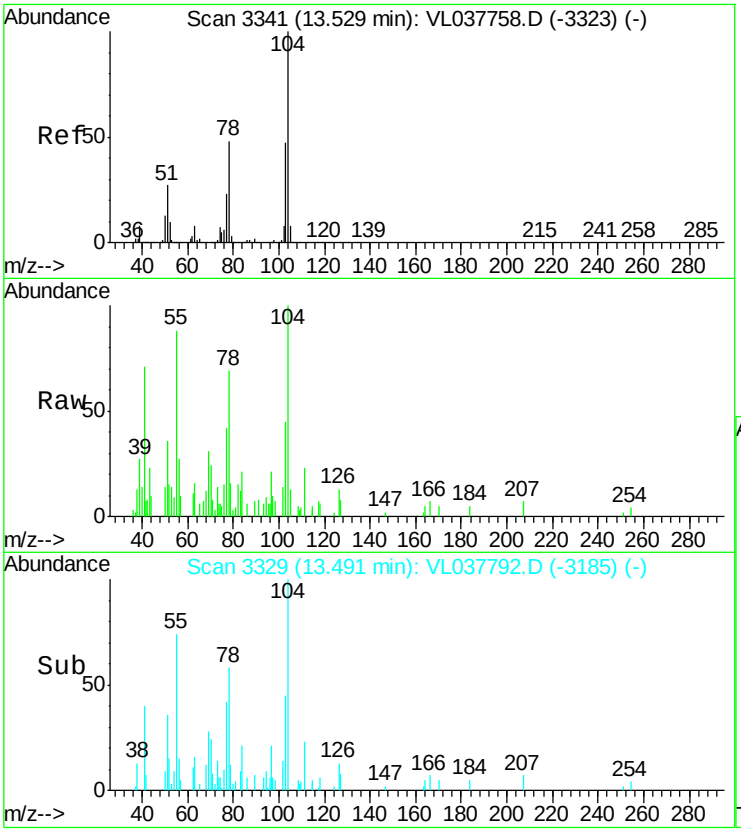


#60
o-Xylene
Concen: 0.216 ppbv
RT: 13.66 min Scan# 3383
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 74208

Ion	Ratio	Lower	Upper
91	100		
106	47.4	23.5	70.5



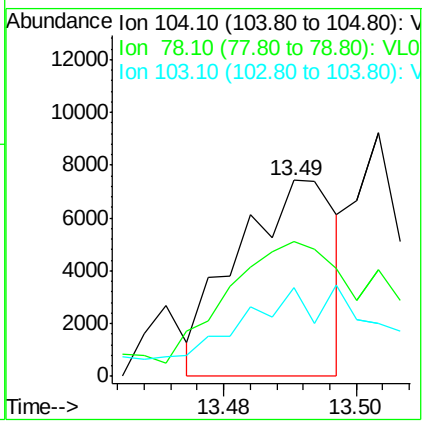


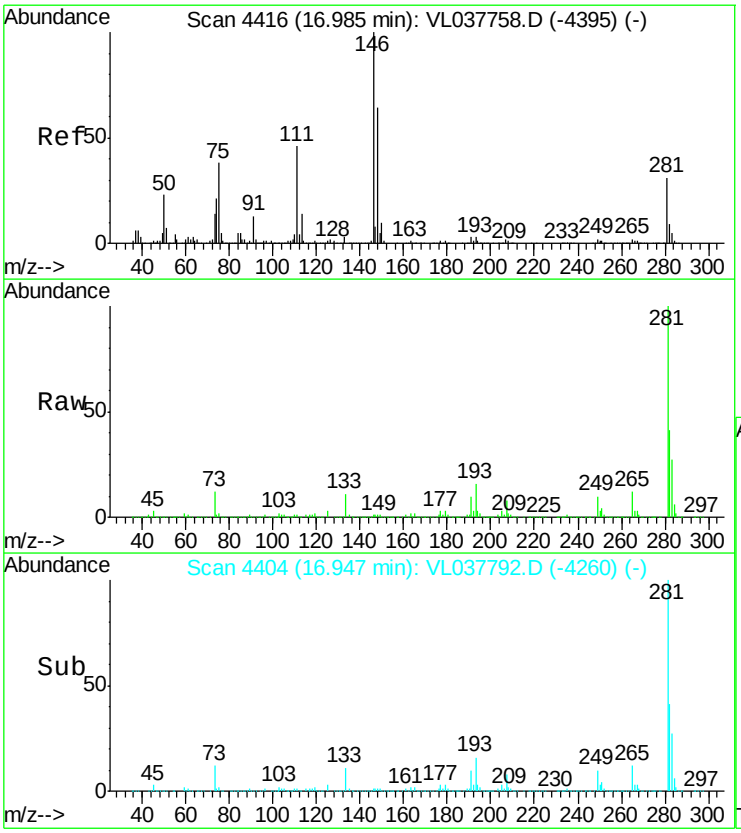
#61
Styrene
Concen: 0.046 ppbv
RT: 13.49 min Scan# 3329
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion:104 Resp: 7699

Ion	Ratio	Lower	Upper
104	100		
78	163.0	40.6	61.0#
103	0.0	39.6	59.4#

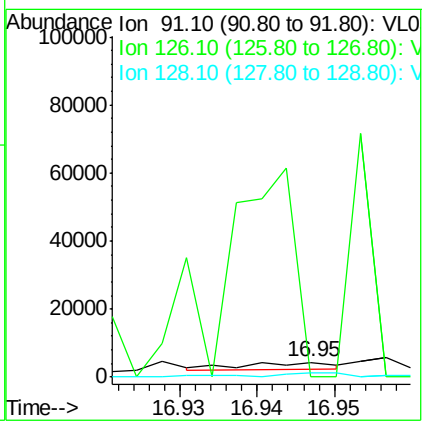


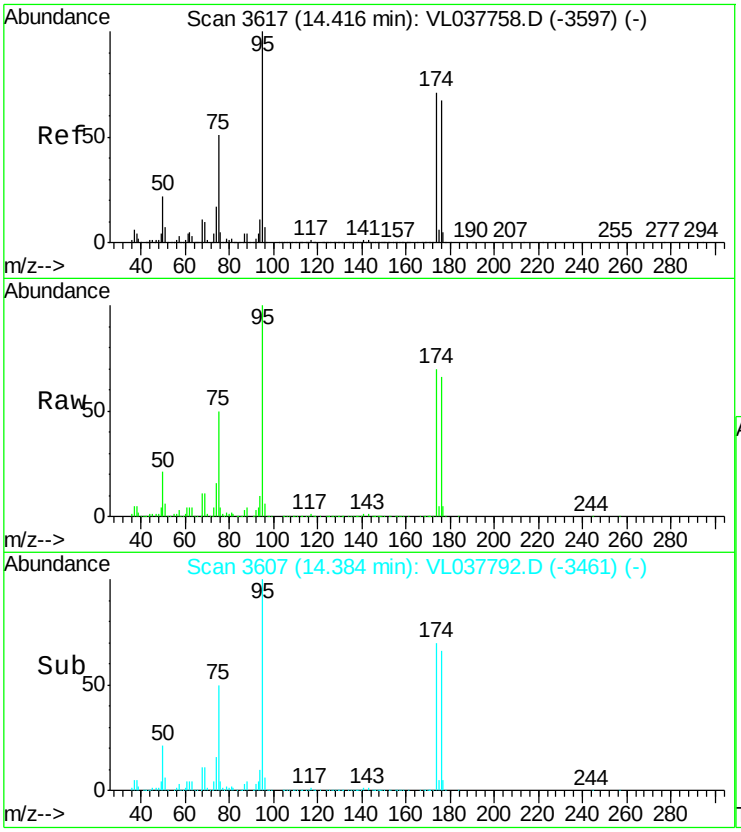


#66
Benzyl Chloride
Concen: 0.076 ppbv
RT: 16.95 min Scan# 4404
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 1580

Ion	Ratio	Lower	Upper
91	100		
126	0.0	0.0	0.0
128	64.7	5.3	7.9#



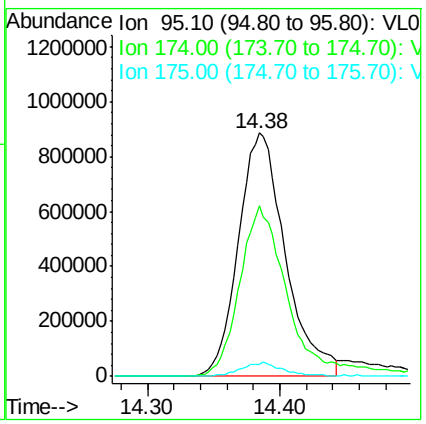


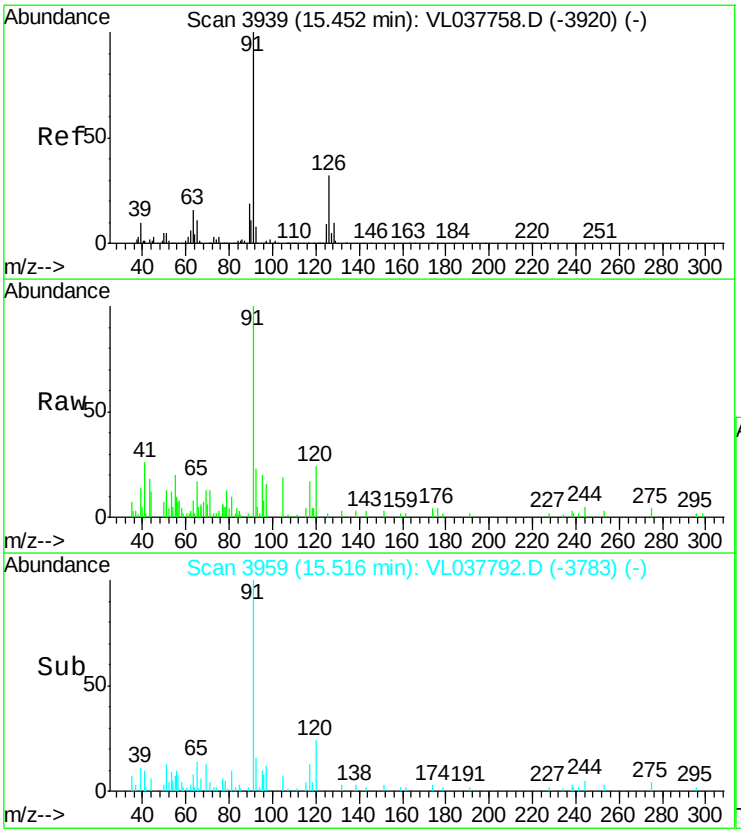
#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 14.38 min Scan# 3607
Delta R.T. -0.03 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion: 95 Resp: 2179168

Ion	Ratio	Lower	Upper
95	100		
174	75.4	57.8	86.6
175	5.6	4.7	7.1

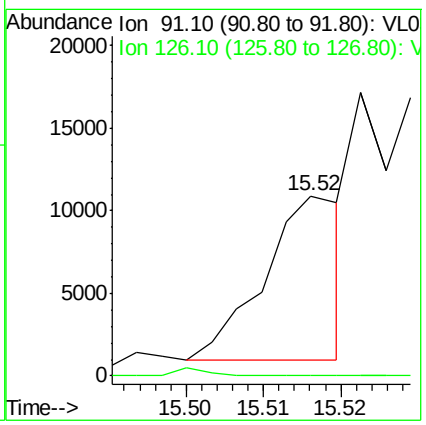


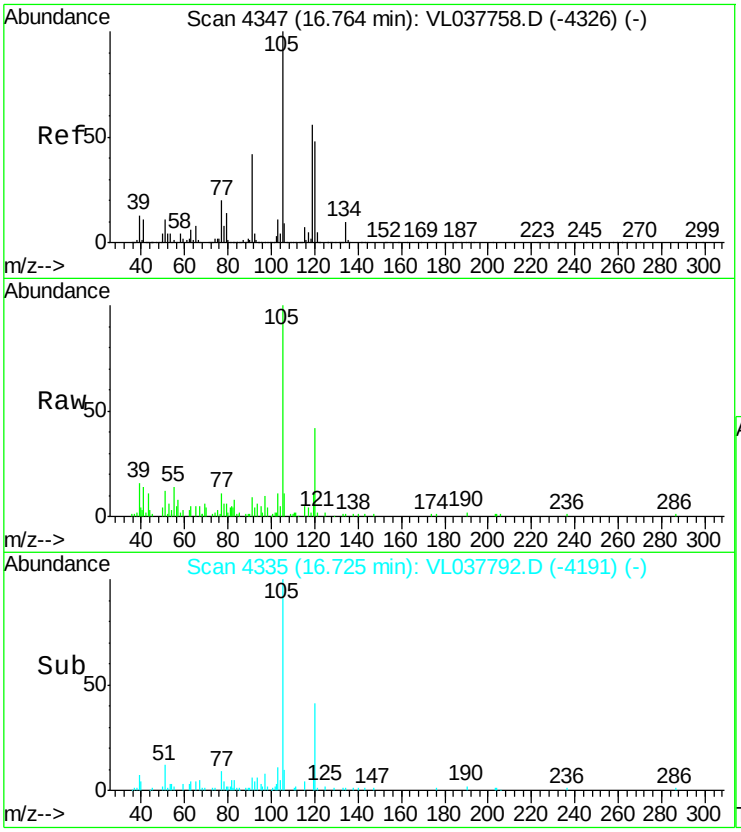


#71
2-Chlorotoluene
Concen: 0.021 ppbv
RT: 15.52 min Scan# 3959
Delta R.T. 0.06 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion: 91 Resp: 6959

Ion	Ratio	Lower	Upper
91	100		
126	1.9	13.6	54.6#



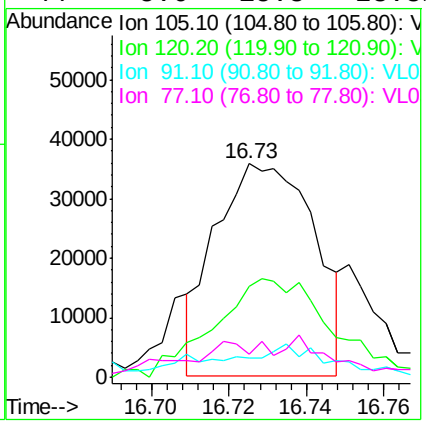


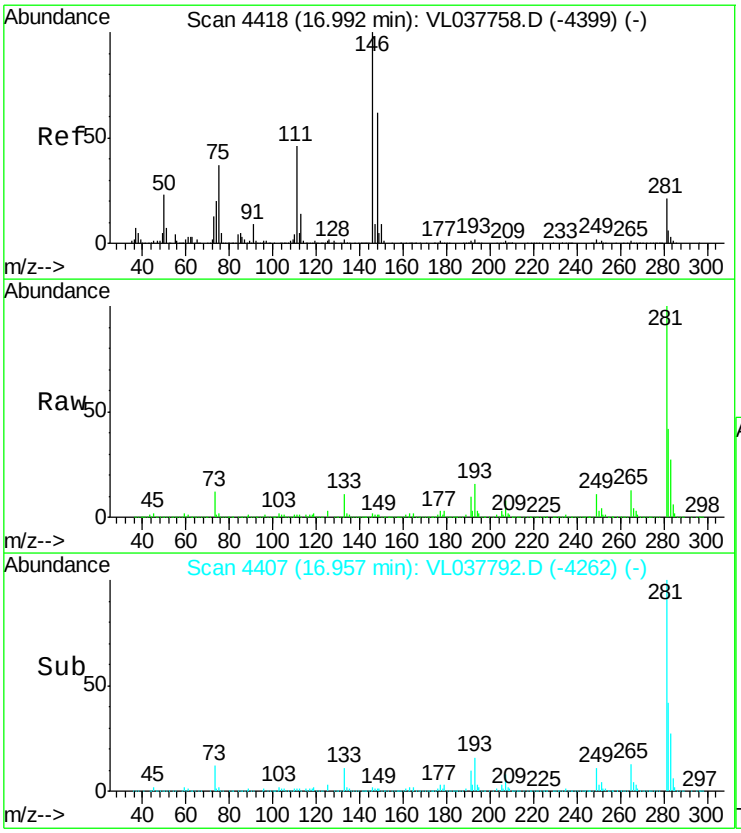
#74
1,2,4-Trimethylbenzene
Concen: 0.170 ppbv
RT: 16.73 min Scan# 4335
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion:105 Resp: 63357

Ion	Ratio	Lower	Upper
105	100		
120	43.1	38.4	57.6
91	1.3	34.2	51.2#
77	5.6	15.8	23.8#

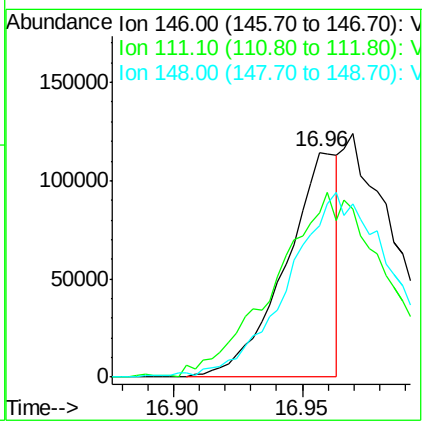


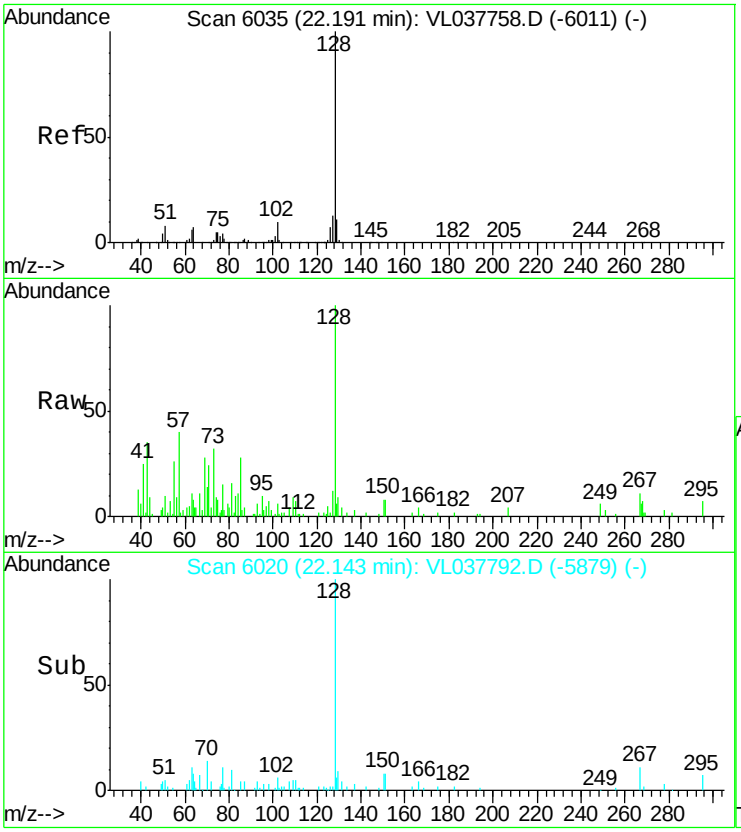


#75
1,3-Dichlorobenzene
Concen: 0.692 ppbv
RT: 16.96 min Scan# 4407
Delta R.T. -0.04 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Tgt Ion:146 Resp: 159859

Ion	Ratio	Lower	Upper
146	100		
111	184.7	22.8	68.4#
148	179.1	32.8	98.3#





#79
Naphthalene
Concen: 0.074 ppbv
RT: 22.14 min Scan# 6020
Delta R.T. -0.05 min
Lab File: VL037792.D
Acq: 6 Oct 2021 3:07

Instrument :
MSVOA_L
ClientSampleId :
C0P11

Tgt Ion:128 Resp: 16882

Ion	Ratio	Lower	Upper
128	100		
127	10.1	10.1	15.1
129	12.7	9.1	13.7