Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
Data File : VL037832.D
Acq On : 12 Oct 2021 16:37
Operator : SY/AP
Sample : M4079-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : C0P47DUP

Quant Time: Oct 14 01:04:47 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	5.66	49	1209517	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.17	114	3579777	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.08	117	3077755	10.00	ppbv		-0.01
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.41	95	2115192	9.83	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.05	85	26961	0.140	ppbv		97
3) Chlorodifluoromethane	2.99	51	39094	0.168	ppbv	#	91
4) Chloromethane	3.15	50	3613	0.042	ppbv	#	76
9) Propene	3.01	41	56707	0.663	ppbv		100
10) Heptane	8.12	43	9493	0.049	ppbv	#	1
11) Trichlorofluoromethane	3.95	101	21566	0.125	ppbv		85
13) Ethanol	3.61	45	114789	16.415	ppbv		97
15) Acetone	3.85	43	1178379	10.853	ppbv		90
16) 1,3-Butadiene	3.31	39	102002	1.291	ppbv	#	20
17) tert-Butyl alcohol	4.31	59	54544	0.488	ppbv	#	83
19) Isopropyl Alcohol	3.97	45	10402	0.154	ppbv	#	96
20) Methylene Chloride	4.34	84	280406	5.111	ppbv		95
23) Vinyl Acetate	5.06	43	42987	0.264	ppbv	#	83
25) Ethyl Acetate	5.69	43	160892	0.528	ppbv	#	82
26) Hexane	5.68	57	225125	1.501	ppbv	#	44
27) Carbon Disulfide	4.55	76	17559	0.132	ppbv	#	1
29) Chloroform	5.74	83	276645	1.290	ppbv		95
30) Cyclohexane	7.12	84	3093	0.024	ppbv	#	1
34) 2-Butanone	5.24	43	268003	1.854	ppbv		99
36) Benzene	6.89	78	38261	0.125	ppbv	#	84
39) 1,2-Dichloropropane	7.17	63	817498	7.108	ppbv	#	28
41) Tetrahydrofuran	6.30	42	1445	0.020	ppbv	#	42
42) Bromodichloromethane	7.78	83	9430	0.045	ppbv	#	27
51) 2-Hexanone	10.14	43	11788	0.140	ppbv	#	1
52) Tetrachloroethene	11.22	164	2361070	19.848	ppbv		97
53) Toluene	9.80	91	22481	0.066	ppbv	#	1
58) Ethyl Benzene	12.70	91	260426	0.630	ppbv		93
59) m/p-Xylene	12.96	91	994678	2.804	ppbv		96
60) o-Xylene	13.68	91	318352	0.936	ppbv		96
66) Benzyl Chloride	16.97	91	593	0.029	ppbv	#	81
74) 1,2,4-Trimethylbenzene	16.75	105	43624	0.118	ppbv	#	80
79) Naphthalene	22.18	128	25889	0.115	ppbv	#	91
80) Naphthalene,2-methyl-	24.97	142	4729	0.078	ppbv	#	67

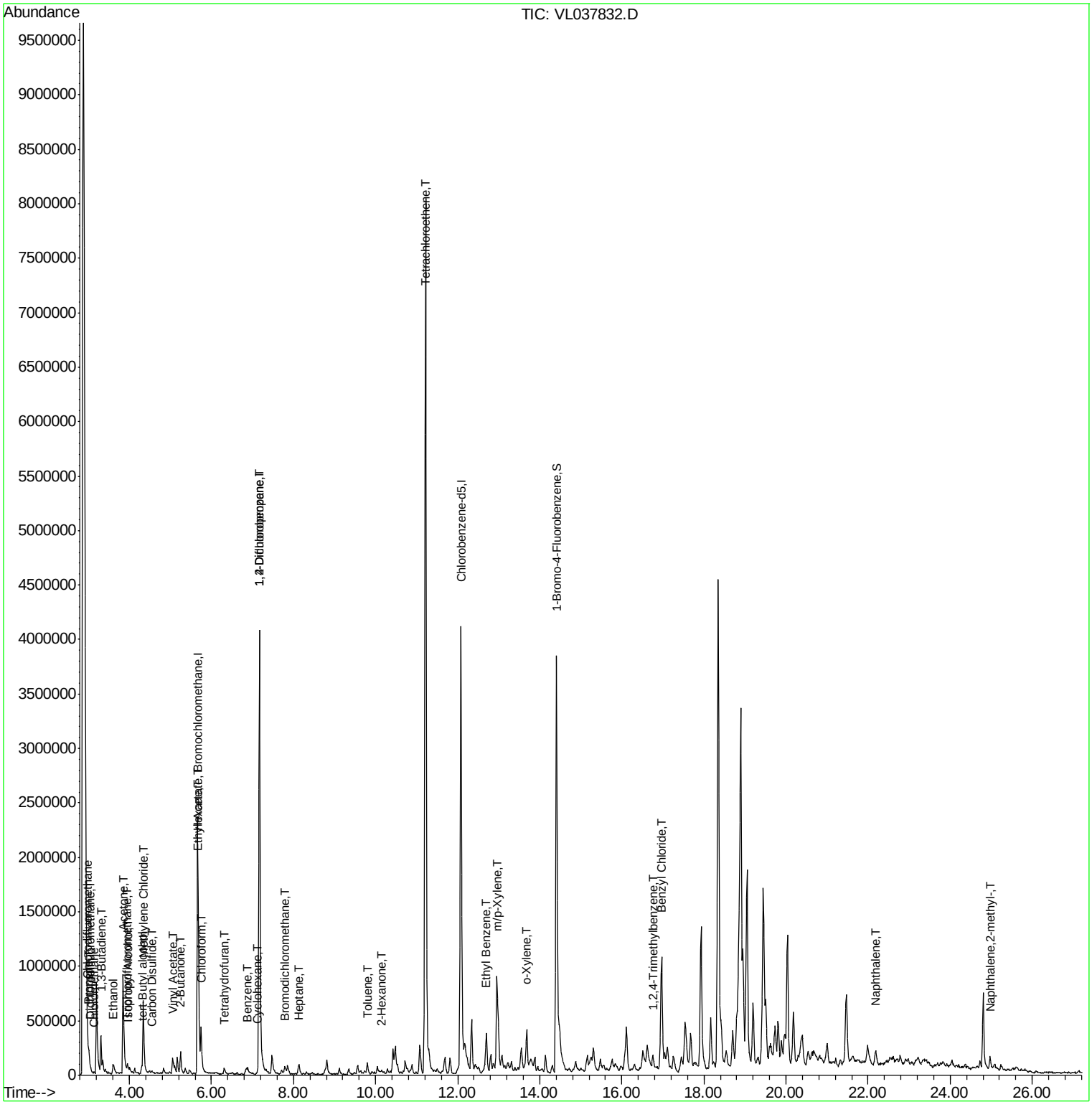
(#) = qualifier out of range (m) = manual integration (+) = signals summed

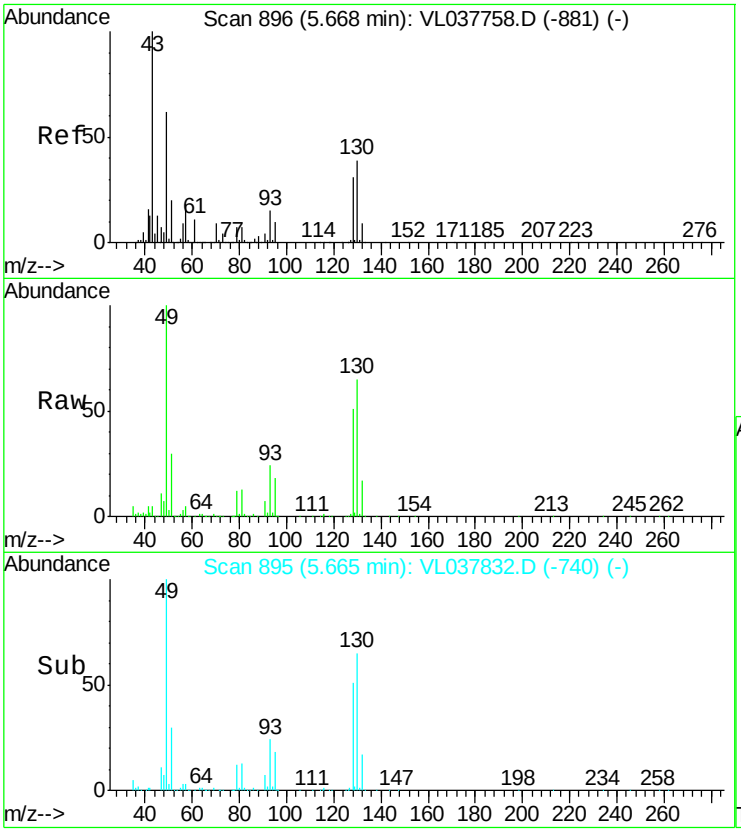
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
Data File : VL037832.D
Acq On : 12 Oct 2021 16:37
Operator : SY/AP
Sample : M4079-04DUP
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Quant Time: Oct 14 01:04:47 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



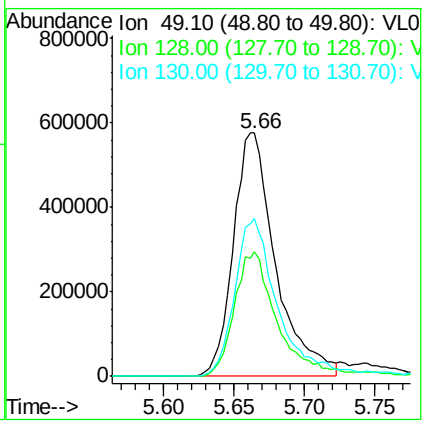


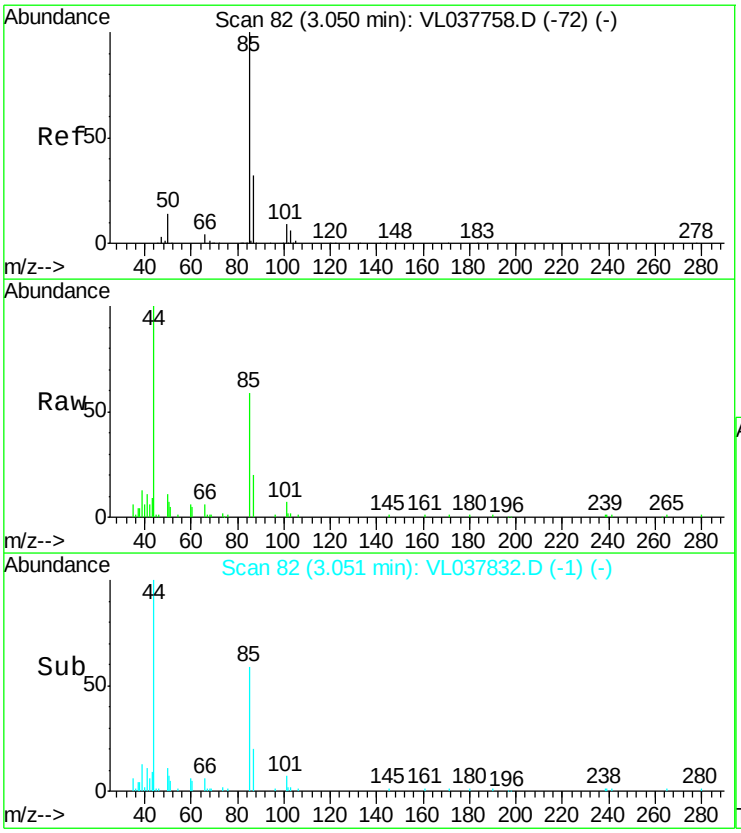
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 49 Resp: 1209517

Ion	Ratio	Lower	Upper
49	100		
128	53.1	27.1	81.3
130	69.2	33.2	99.6

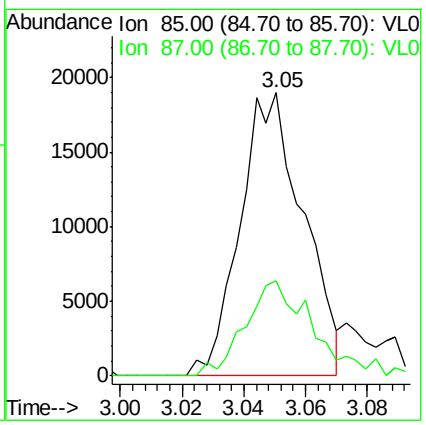


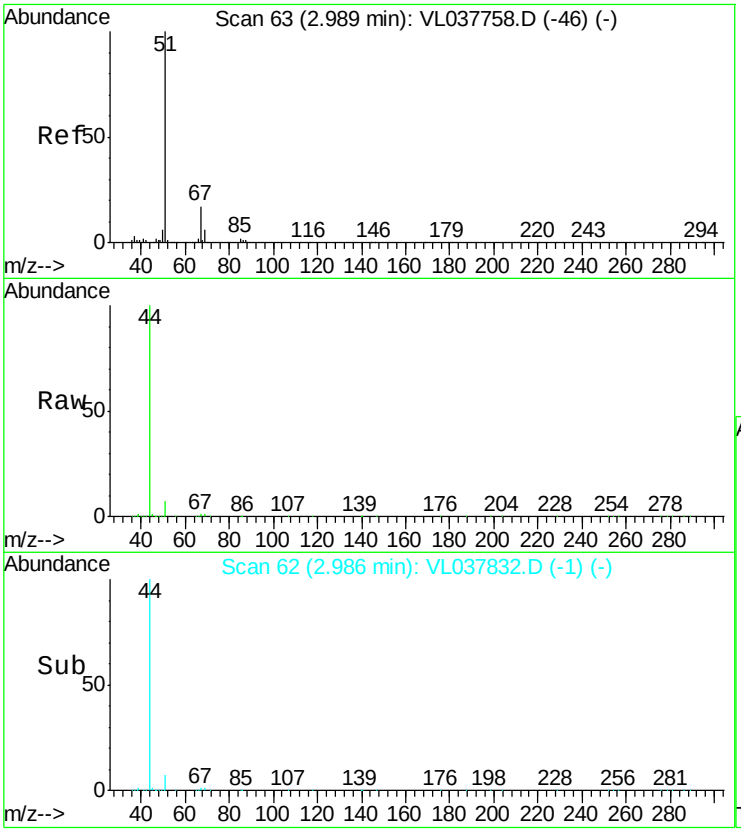


#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 3.05 min Scan# 82
Delta R.T. 0.00 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 85 Resp: 26961

Ion	Ratio	Lower	Upper
85	100		
87	33.6	25.7	38.5



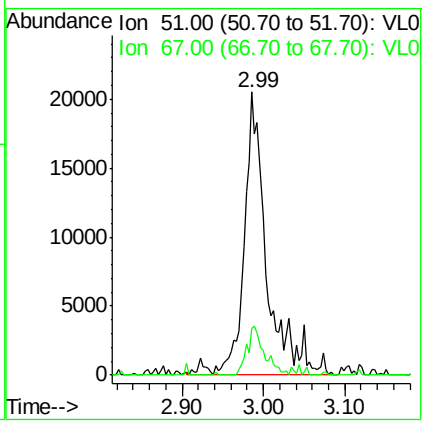


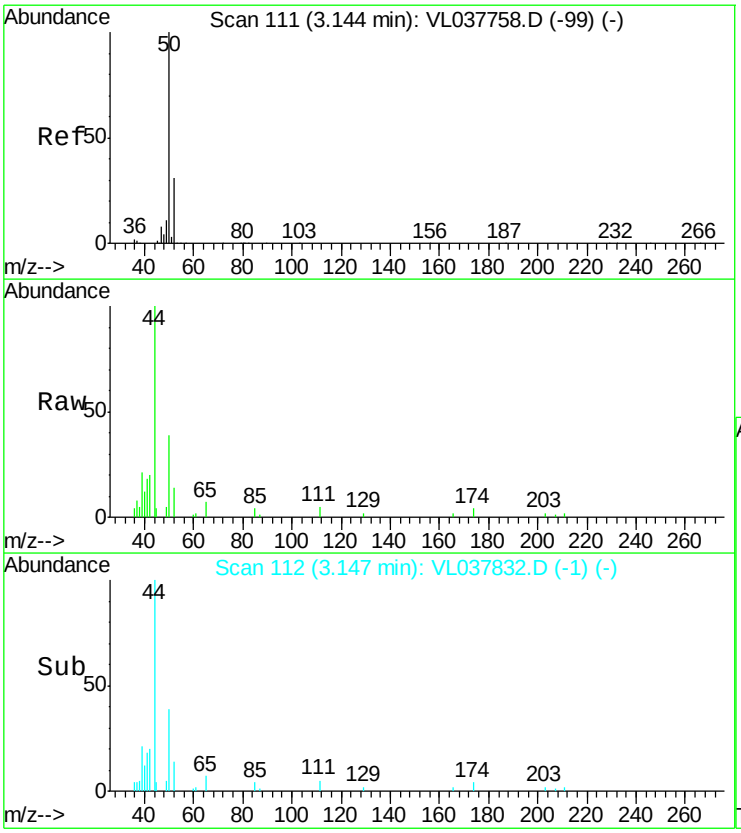
#3
Chlorodifluoromethane
Concen: 0.168 ppbv
RT: 2.99
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 51 Resp: 39094

Ion	Ratio	Lower	Upper
51	100		
67	13.1	13.5	20.3#

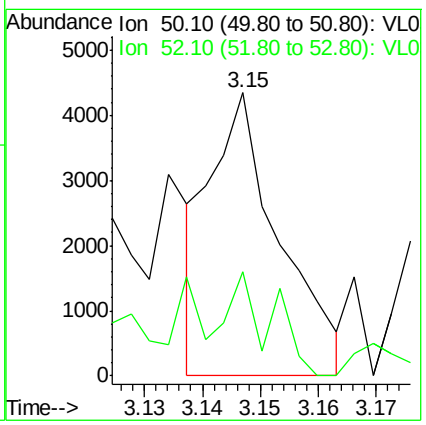


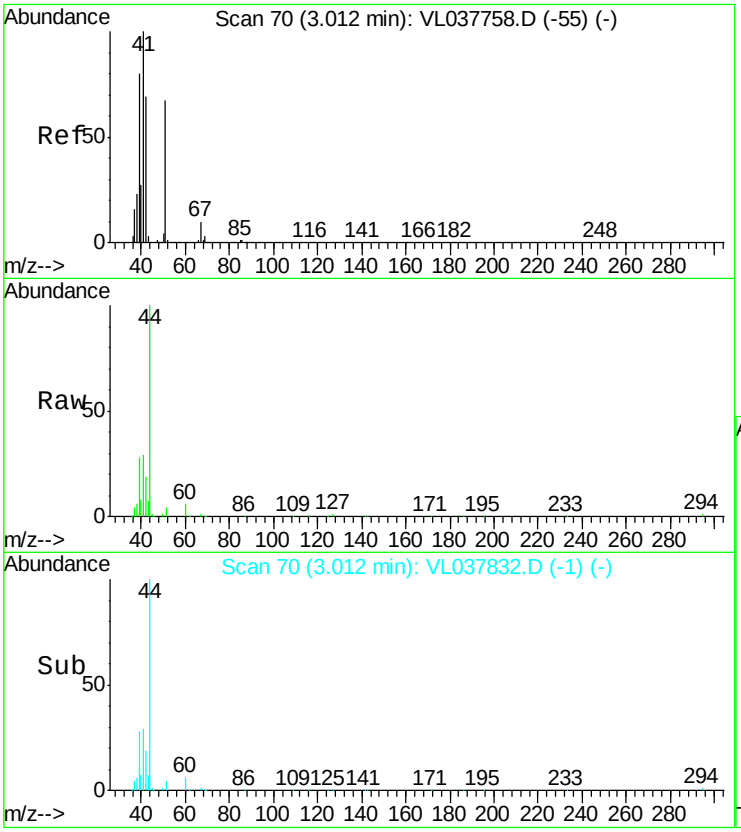


#4
Chloromethane
Concen: 0.042 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.00 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 50 Resp: 3613

Ion	Ratio	Lower	Upper
50	100		
52	43.4	24.4	36.6#



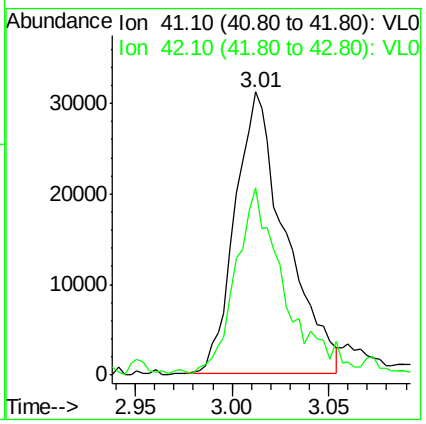


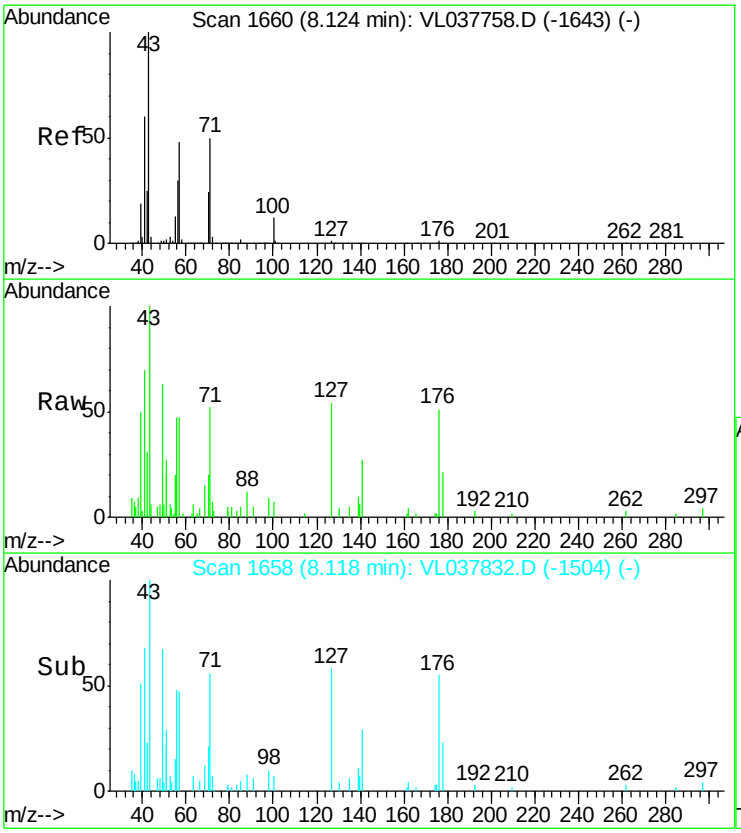
#9
Propene
Concen: 0.663 ppbv
RT: 3.01
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 41 Resp: 56707

Ion	Ratio	Lower	Upper
41	100		
42	67.9	54.2	81.2

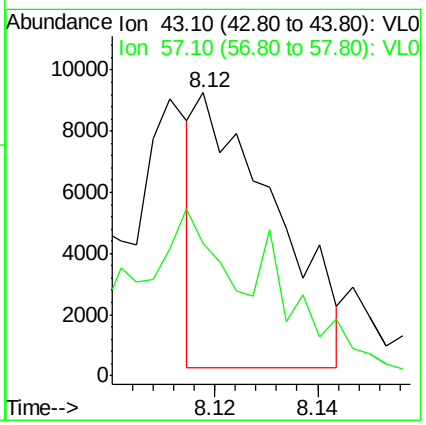


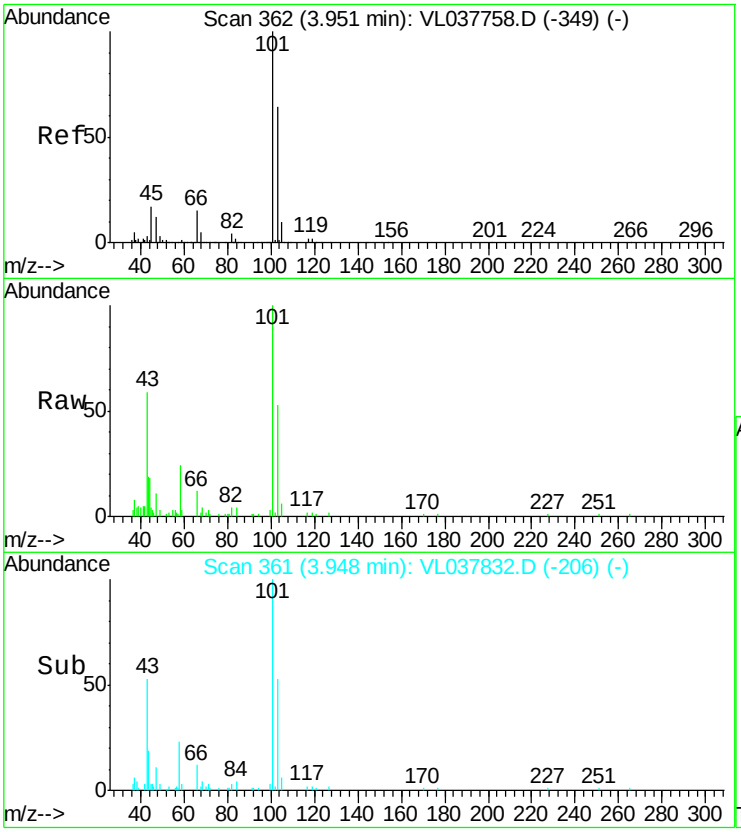


#10
Heptane
Concen: 0.049 ppbv
RT: 8.12 min Scan# 1658
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 43 Resp: 9493

Ion	Ratio	Lower	Upper
43	100		
57	132.5	40.0	60.0#



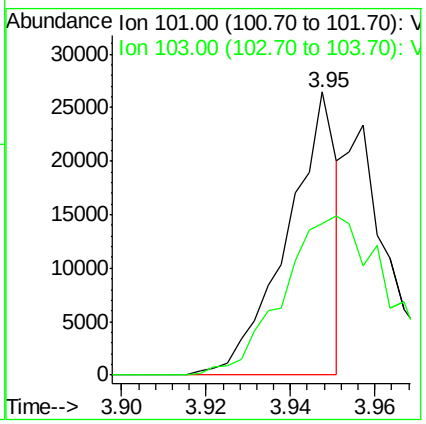


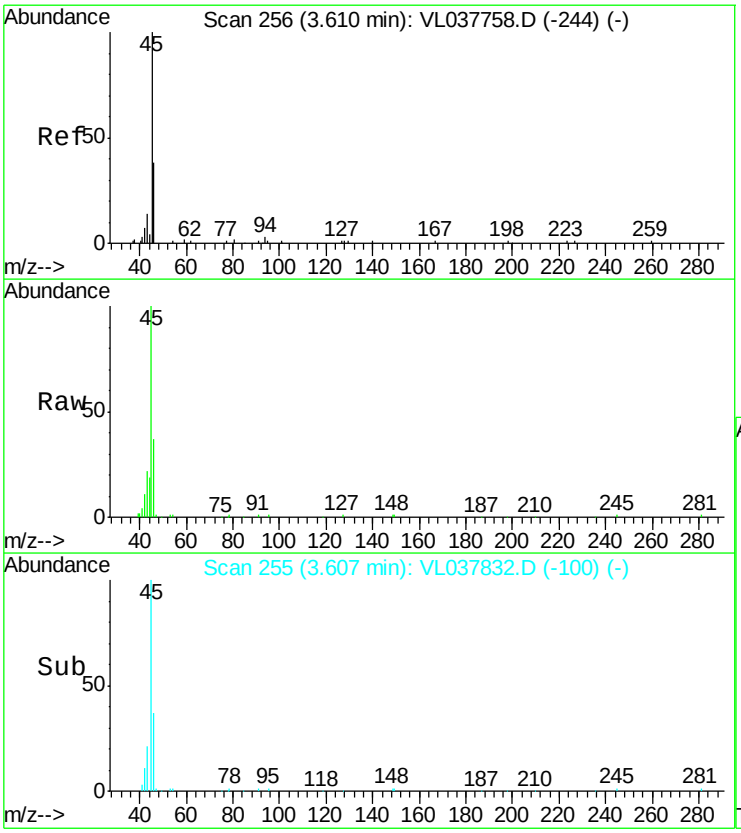
#11
Trichlorofluoromethane
Concen: 0.125 ppbv
RT: 3.95
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion:101 Resp: 21566

Ion	Ratio	Lower	Upper
101	100		
103	52.7	51.5	77.3

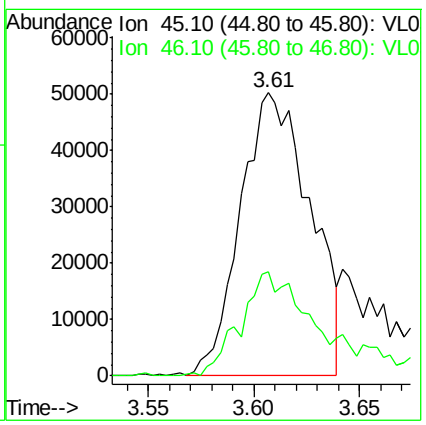


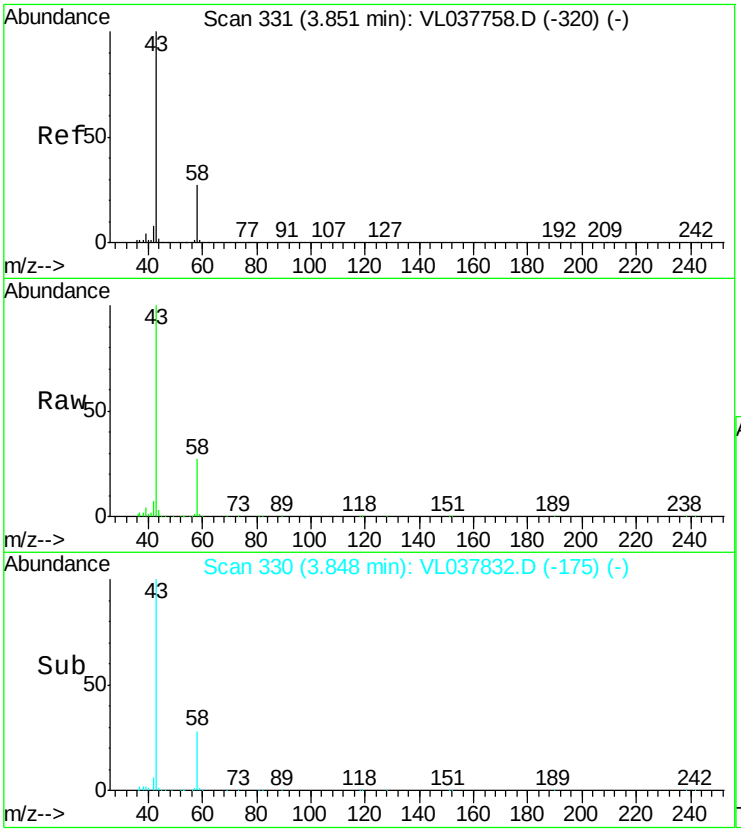


#13
Ethanol
Concen: 16.415 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 45 Resp: 114789

Ion	Ratio	Lower	Upper
45	100		
46	48.7	20.2	81.0



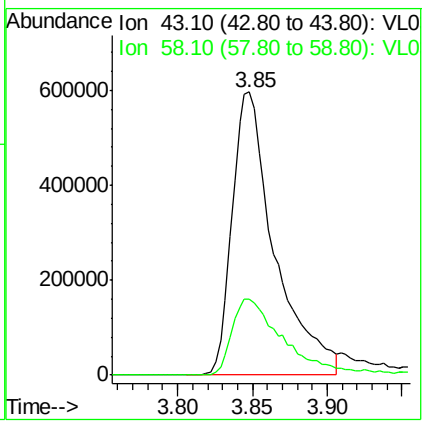


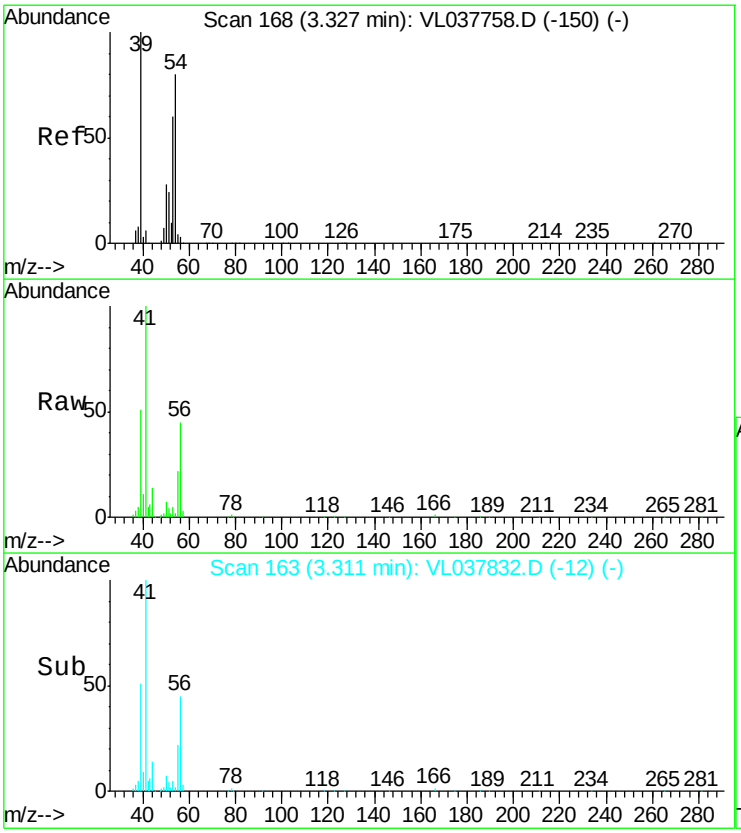
#15
Acetone
Concen: 10.853 ppbv
RT: 3.85
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 43 Resp: 1178379

Ion	Ratio	Lower	Upper
43	100		
58	34.3	23.0	34.6

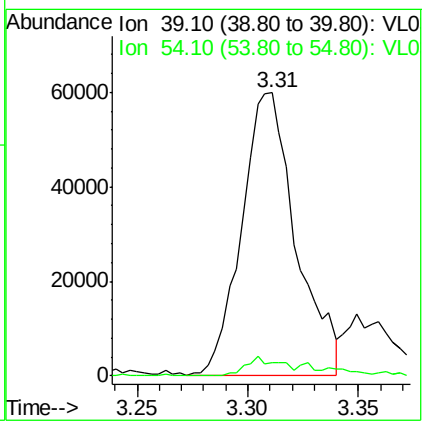


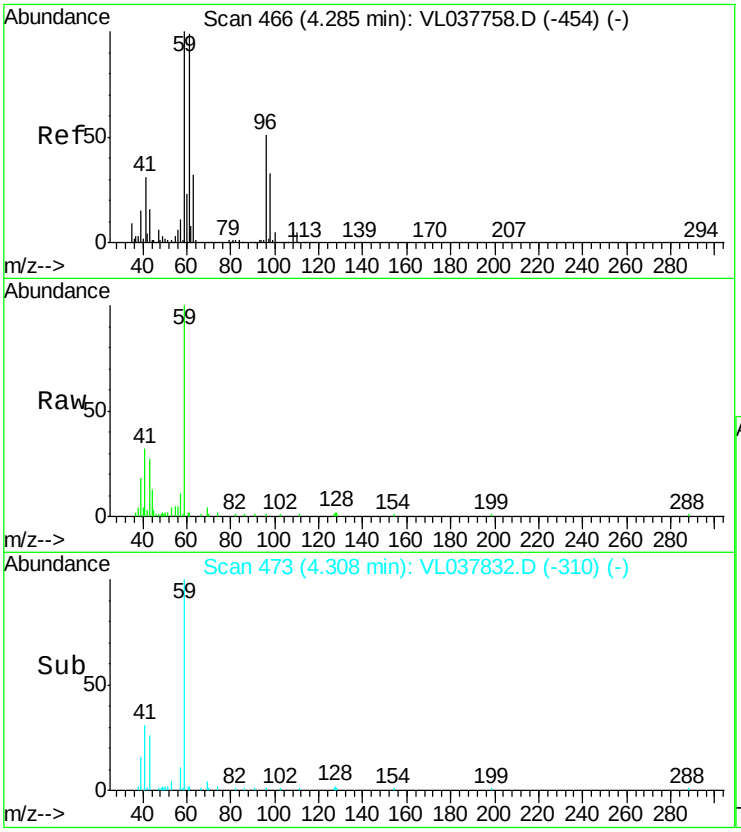


#16
1,3-Butadiene
Concen: 1.291 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.02 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 39 Resp: 102002

Ion	Ratio	Lower	Upper
39	100		
54	7.9	61.7	92.5#



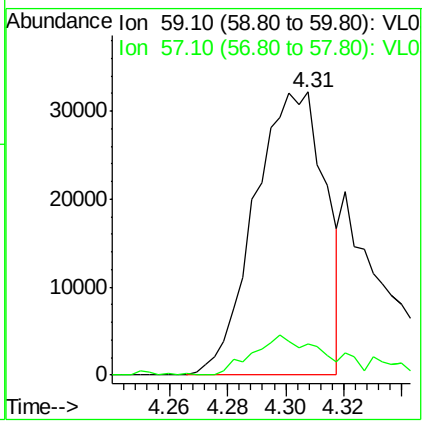


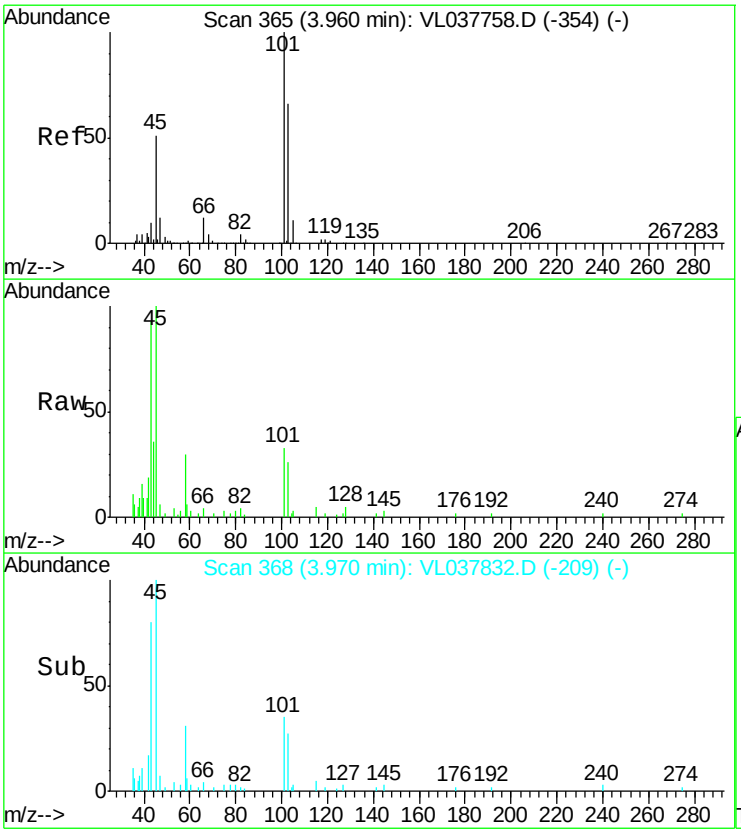
#17
tert-Butyl alcohol
Concen: 0.488 ppbv
RT: 4.31
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 59 Resp: 54544

Ion	Ratio	Lower	Upper
59	100		
57	17.1	8.6	13.0#

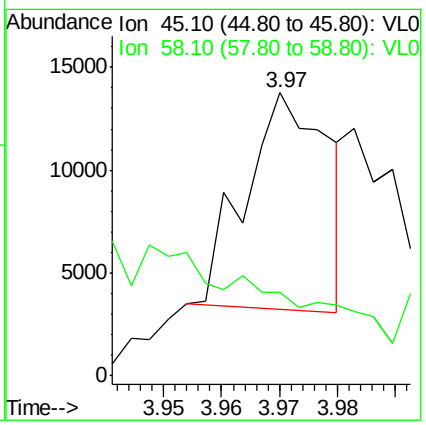


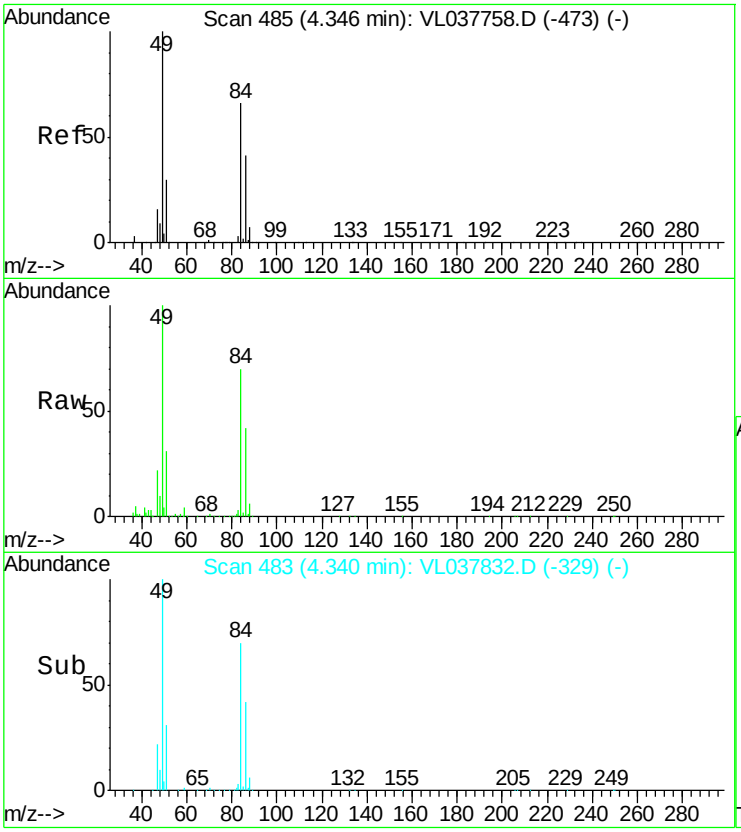


#19
Isopropyl Alcohol
Concen: 0.154 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 45 Resp: 10402

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.1	1.7#



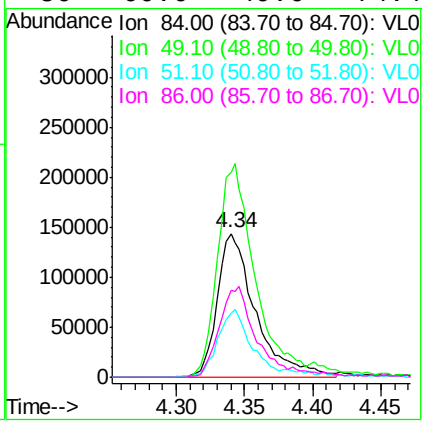


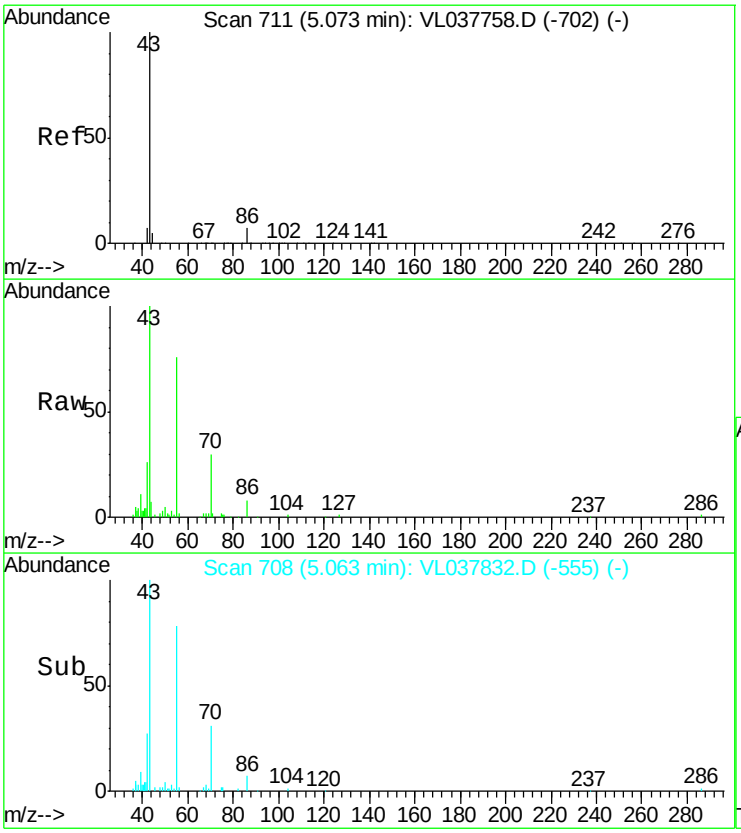
#20
Methylene Chloride
Concen: 5.111 ppbv
RT: 4.34
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 84 Resp: 280406

Ion	Ratio	Lower	Upper
84	100		
49	142.4	120.7	181.1
51	44.6	36.2	54.4
86	60.6	49.6	74.4

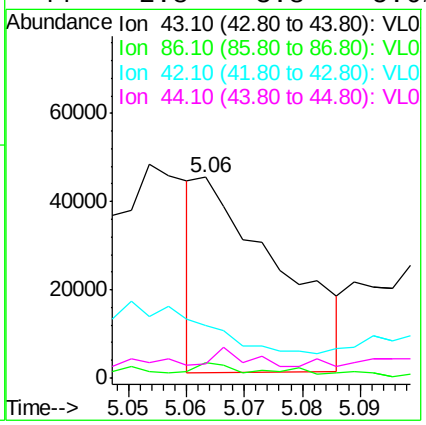


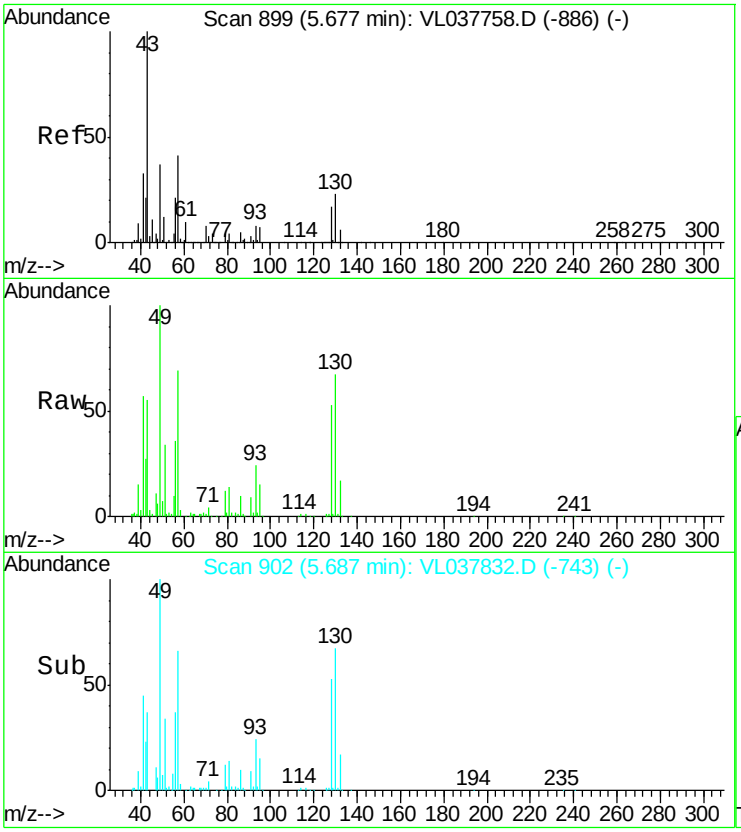


#23
Vinyl Acetate
Concen: 0.264 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 43 Resp: 42987

Ion	Ratio	Lower	Upper
43	100		
86	8.8	5.0	7.4#
42	19.5	7.4	11.0#
44	2.8	3.8	5.6#



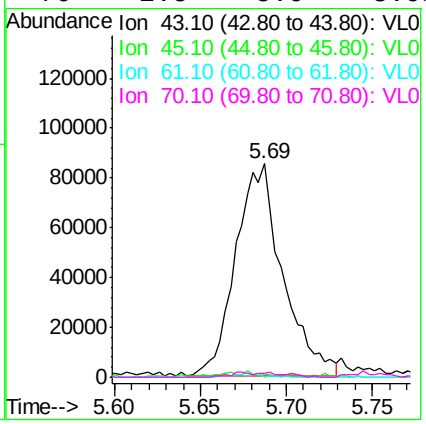


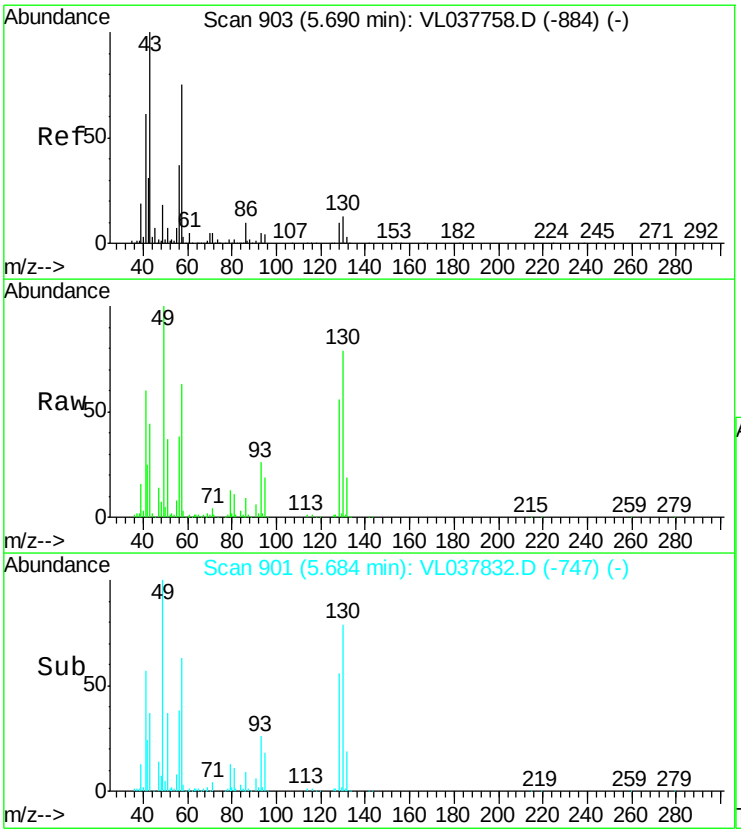
#25
Ethyl Acetate
Concen: 0.528 ppbv
RT: 5.69
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 43 Resp: 160892

Ion	Ratio	Lower	Upper
43	100		
45	3.8	8.1	12.1#
61	1.1	7.5	11.3#
70	2.5	5.9	8.9#

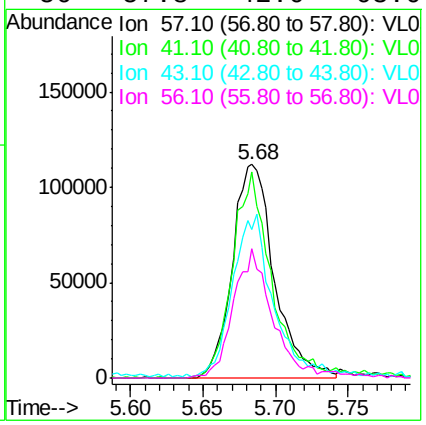


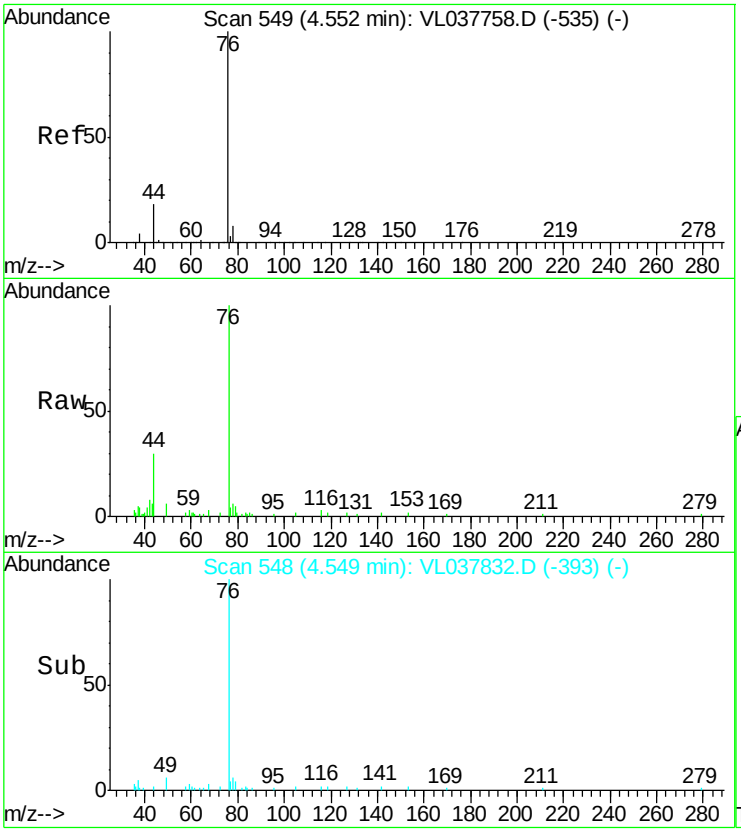


#26
Hexane
Concen: 1.501 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 57 Resp: 225125

Ion	Ratio	Lower	Upper
57	100		
41	93.2	69.6	104.4
43	74.2	171.4	257.0#
56	57.8	42.0	63.0



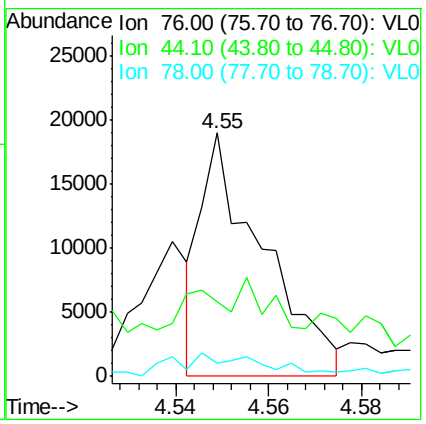


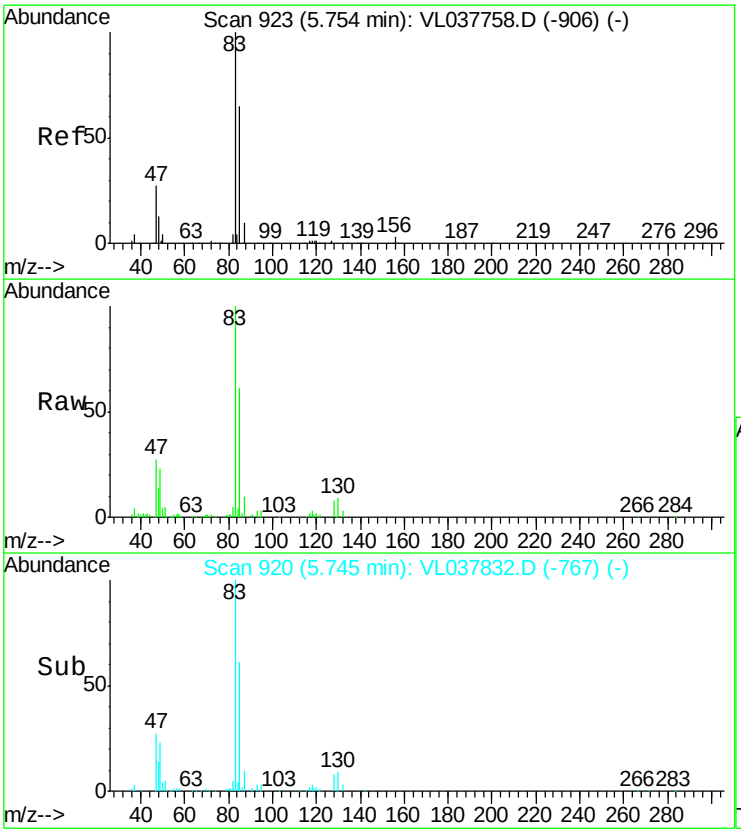
#27
Carbon Disulfide
Concen: 0.132 ppbv
RT: 4.55
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 76 Resp: 17559

Ion	Ratio	Lower	Upper
76	100		
44	85.4	14.3	21.5#
78	13.1	7.8	11.6#

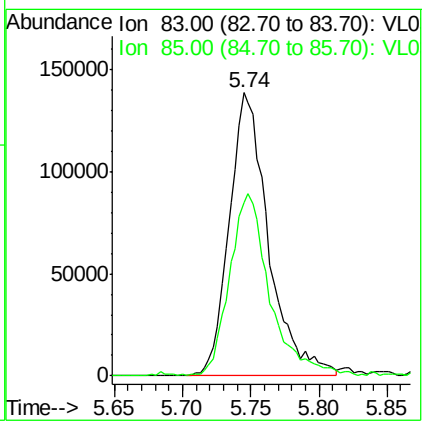


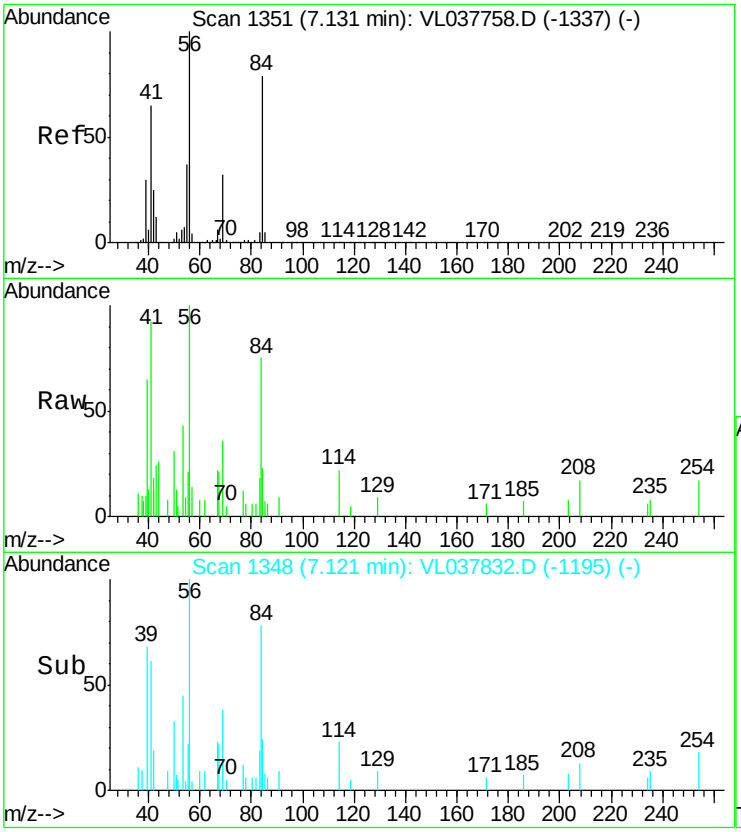


#29
Chloroform
Concen: 1.290 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 83 Resp: 276645

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.8	77.8



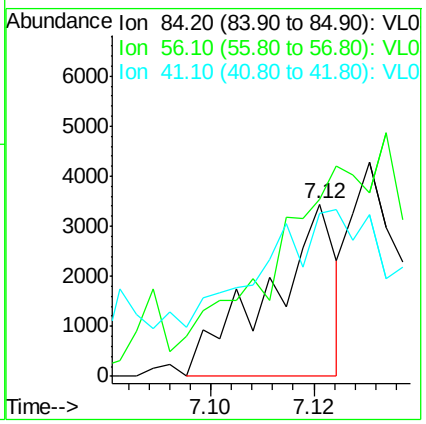


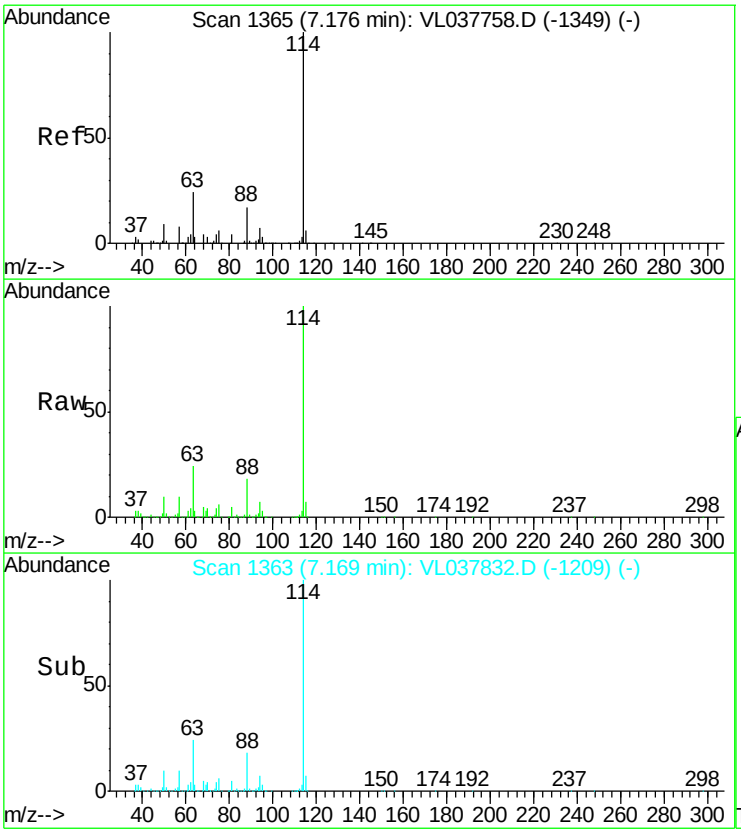
#30
Cyclohexane
Concen: 0.024 ppbv
RT: 7.12
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 84 Resp: 3093

Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.0	169.4#
41	280.6	69.1	103.7#

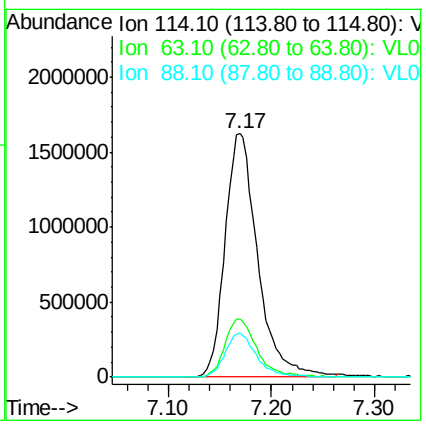


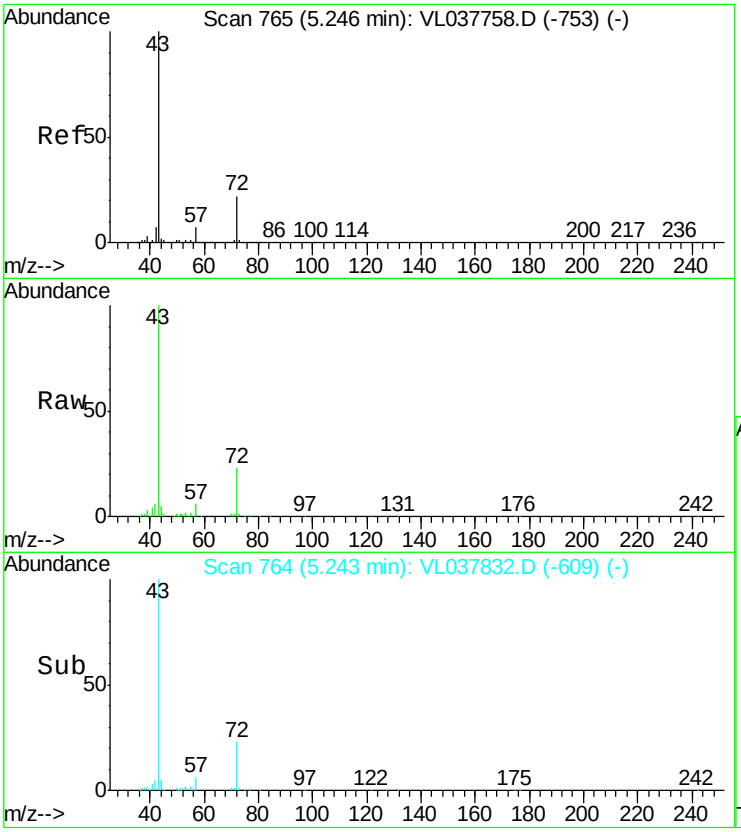


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion:114 Resp: 3579777

Ion	Ratio	Lower	Upper
114	100		
63	23.9	19.4	29.2
88	17.8	14.4	21.6



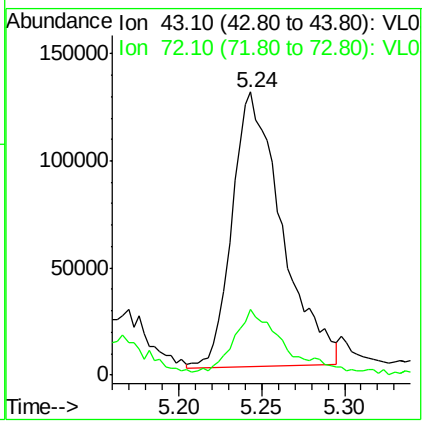


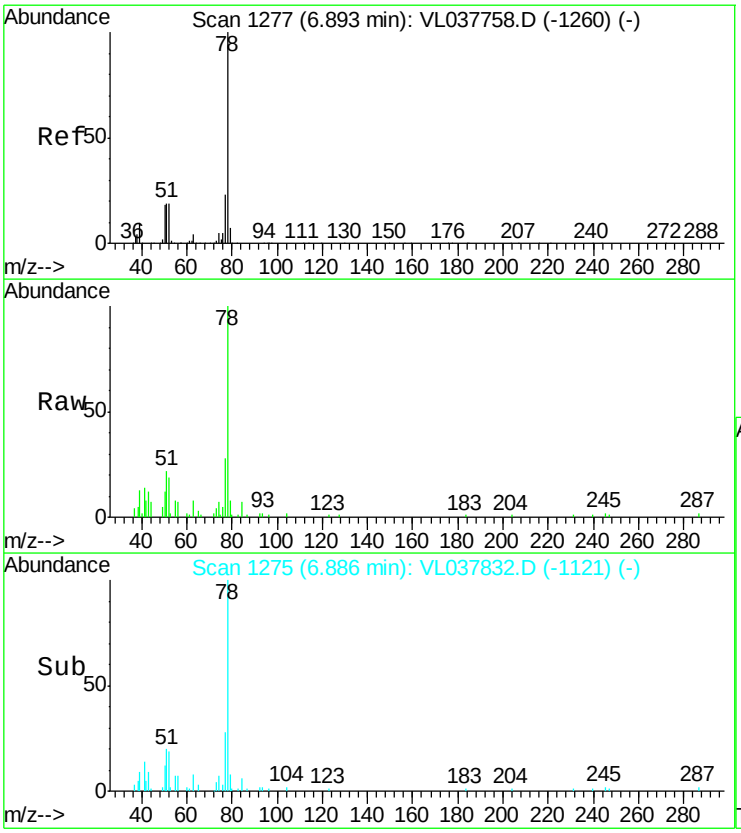
#34
2-Butanone
Concen: 1.854 ppbv
RT: 5.24
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 43 Resp: 268003

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.2	27.2

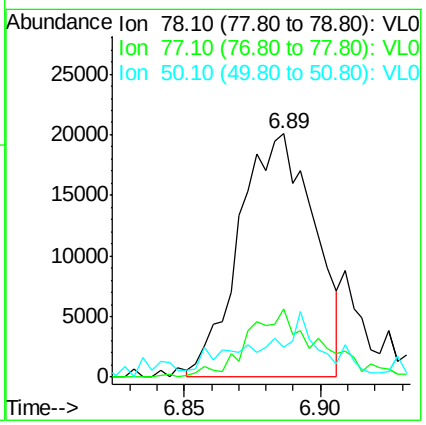


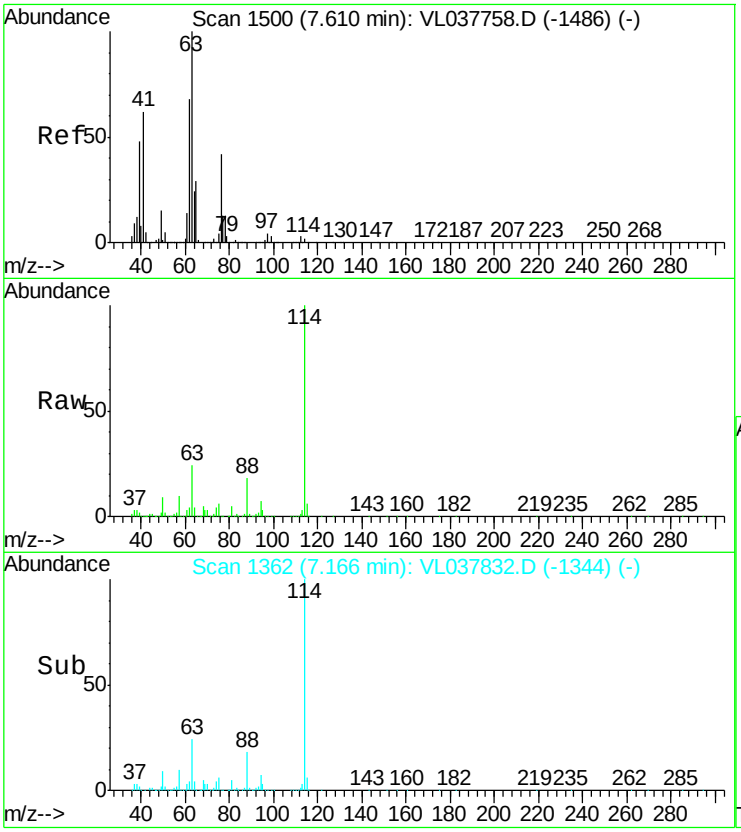


#36
Benzene
Concen: 0.125 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 78 Resp: 38261

Ion	Ratio	Lower	Upper
78	100		
77	27.9	18.8	28.2
50	6.8	14.7	22.1#



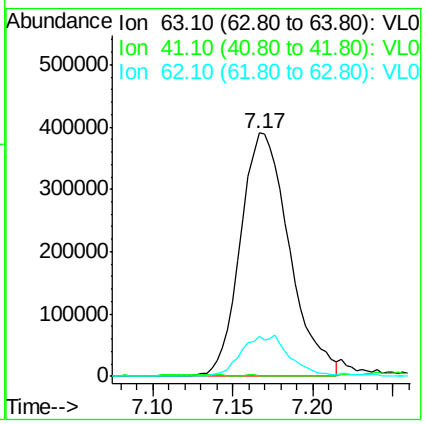


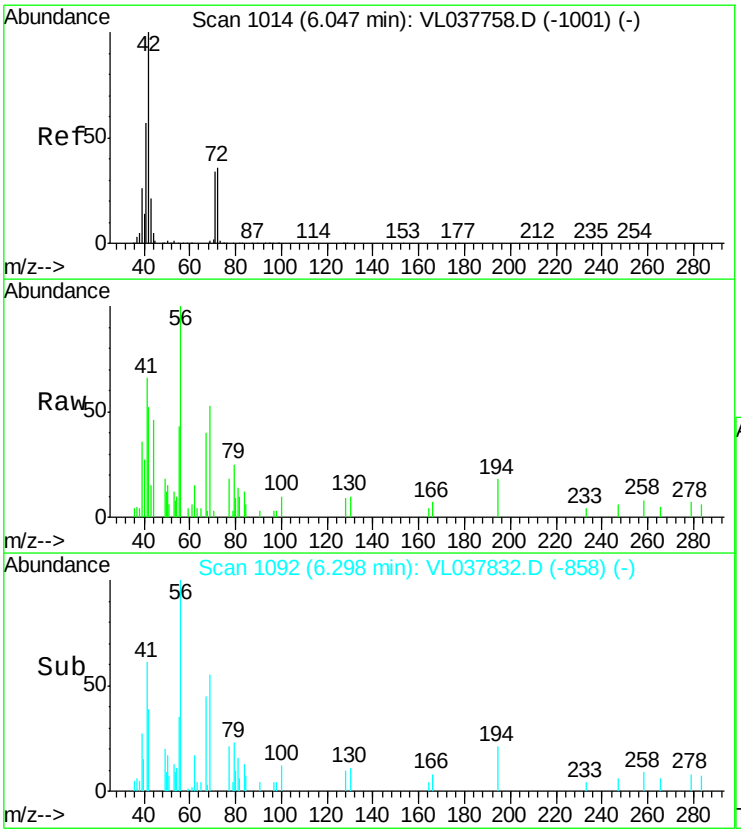
#39
1,2-Dichloropropane
Concen: 7.108 ppbv
RT: 7.17
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 63 Resp: 817498

Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.8	74.6#
62	16.6	54.6	82.0#

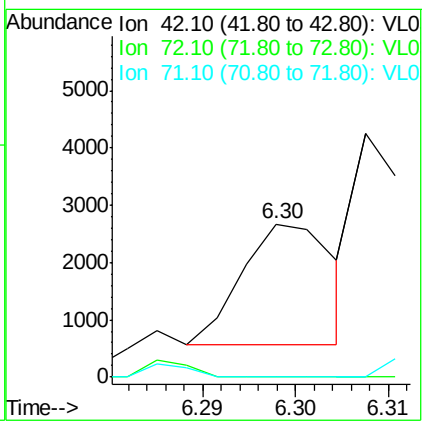


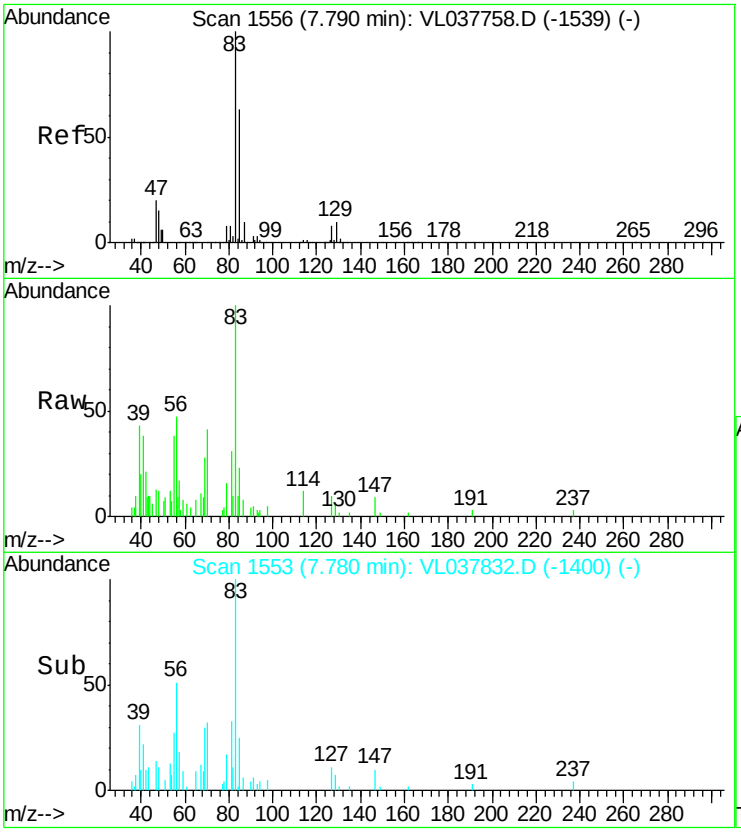


#41
Tetrahydrofuran
Concen: 0.020 ppbv
RT: 6.30 min Scan# 1092
Delta R.T. 0.25 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 42 Resp: 1445

Ion	Ratio	Lower	Upper
42	100		
72	7.0	31.9	47.9#
71	0.0	30.3	45.5#



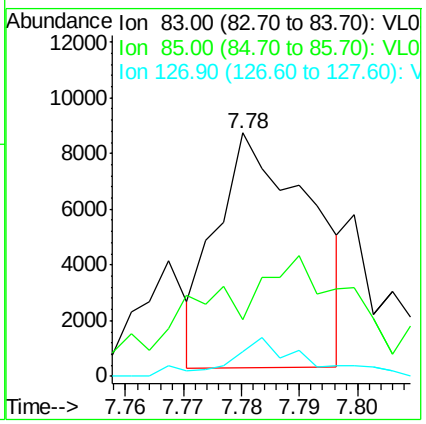


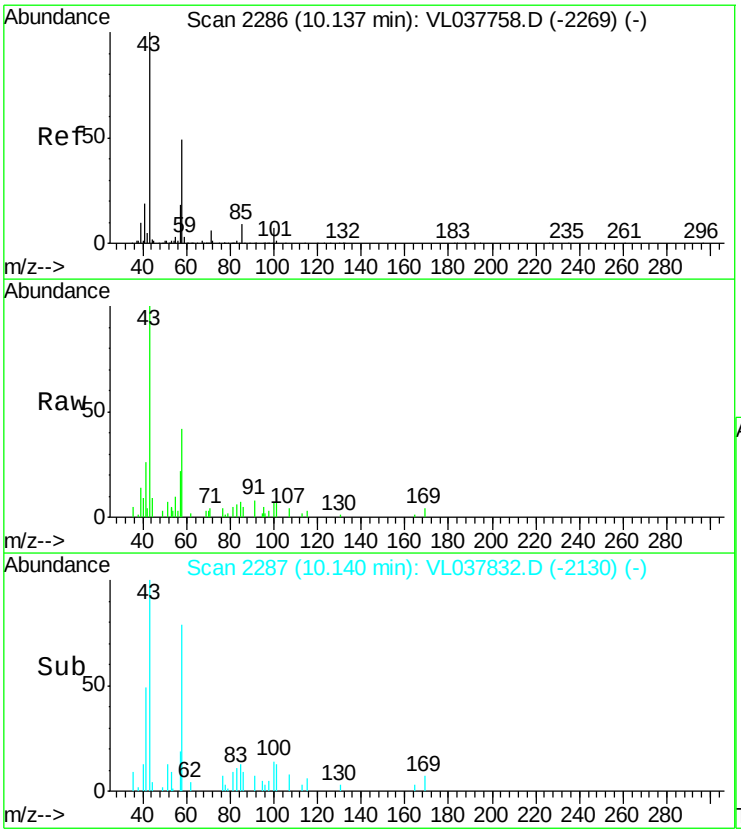
#42
Bromodichloromethane
Concen: 0.045 ppbv
RT: 7.78
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 83 Resp: 9430

Ion	Ratio	Lower	Upper
83	100		
85	0.0	50.6	75.8#
127	11.3	6.2	9.4#

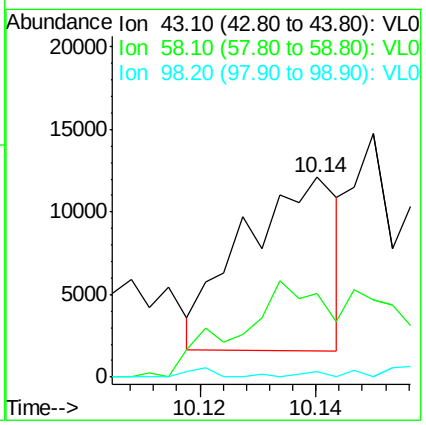


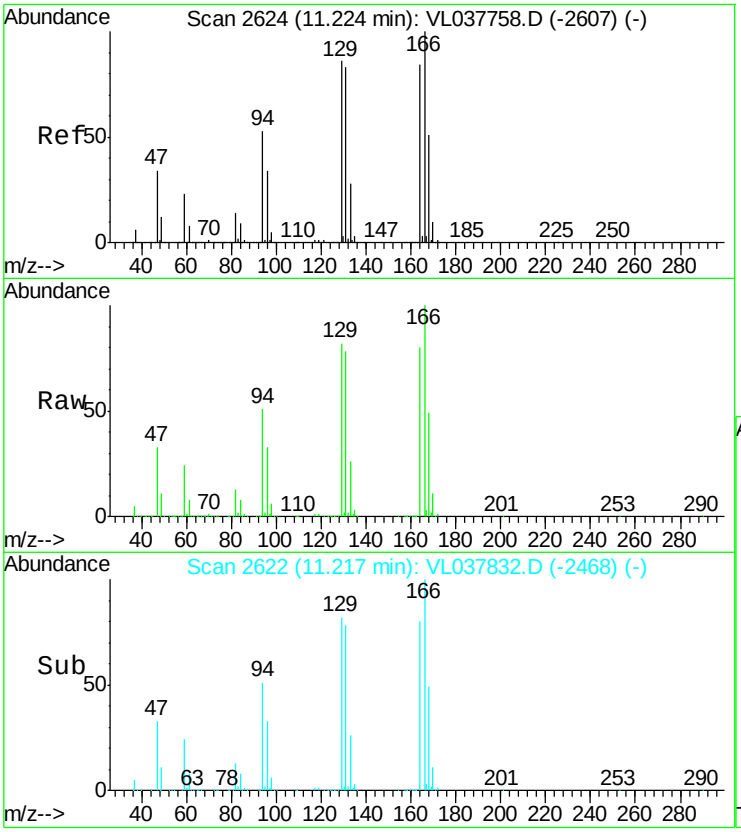


#51
2-Hexanone
Concen: 0.140 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.00 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 43 Resp: 11788

Ion	Ratio	Lower	Upper
43	100		
58	122.5	39.4	59.0#
98	0.0	0.3	0.5#



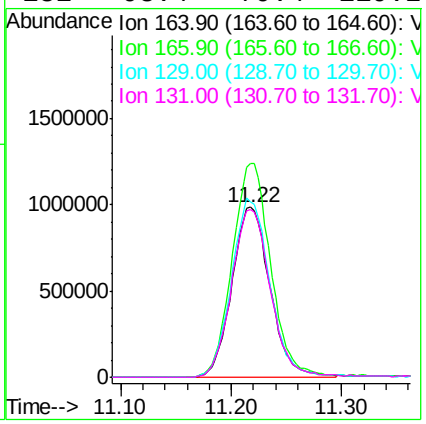


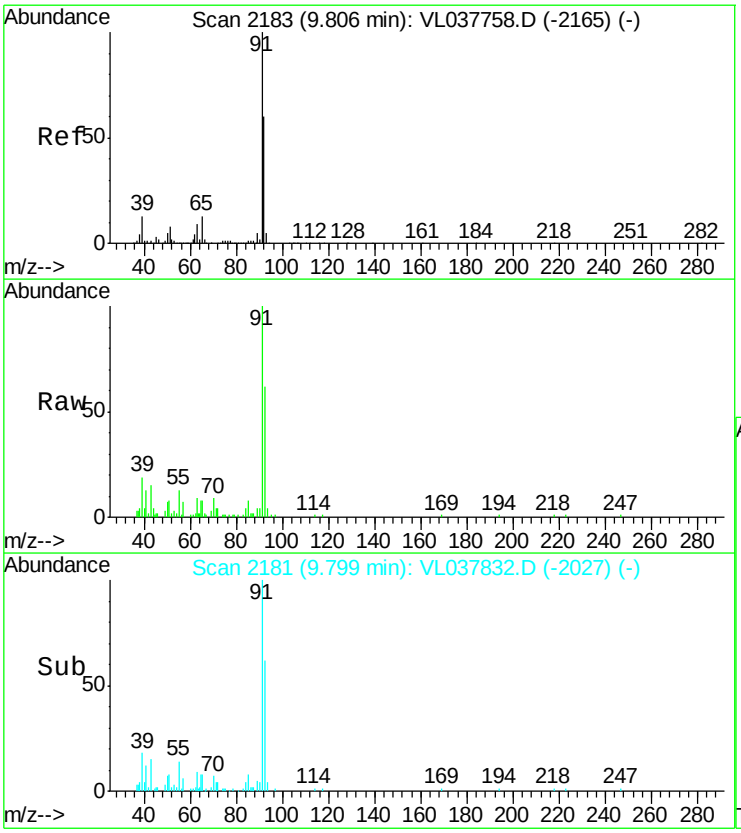
#52
Tetrachloroethene
Concen: 19.848 ppbv
RT: 11.22
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion:164 Resp: 2361070

Ion	Ratio	Lower	Upper
164	100		
166	125.5	95.4	143.2
129	103.4	82.2	123.4
131	98.4	79.4	119.2

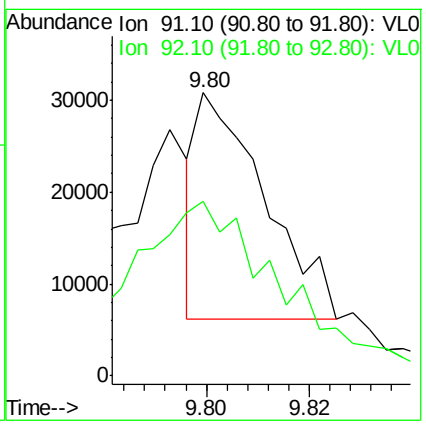


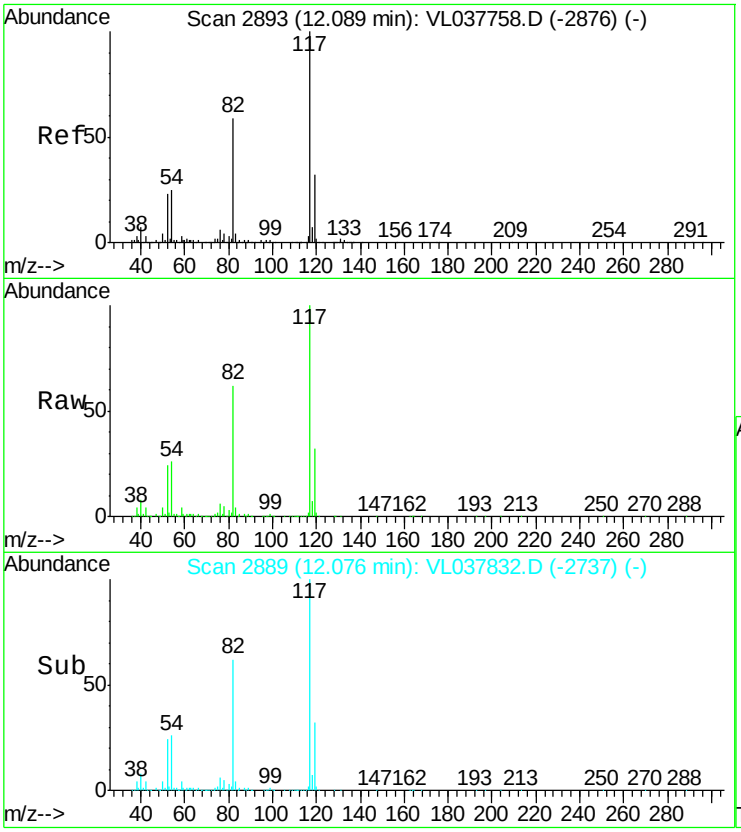


#53
Toluene
Concen: 0.066 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 22481

Ion	Ratio	Lower	Upper
91	100		
92	183.9	48.4	72.6#



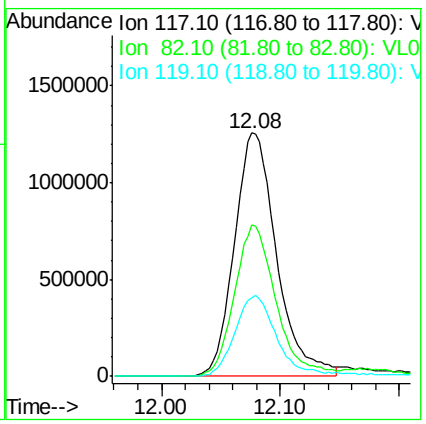


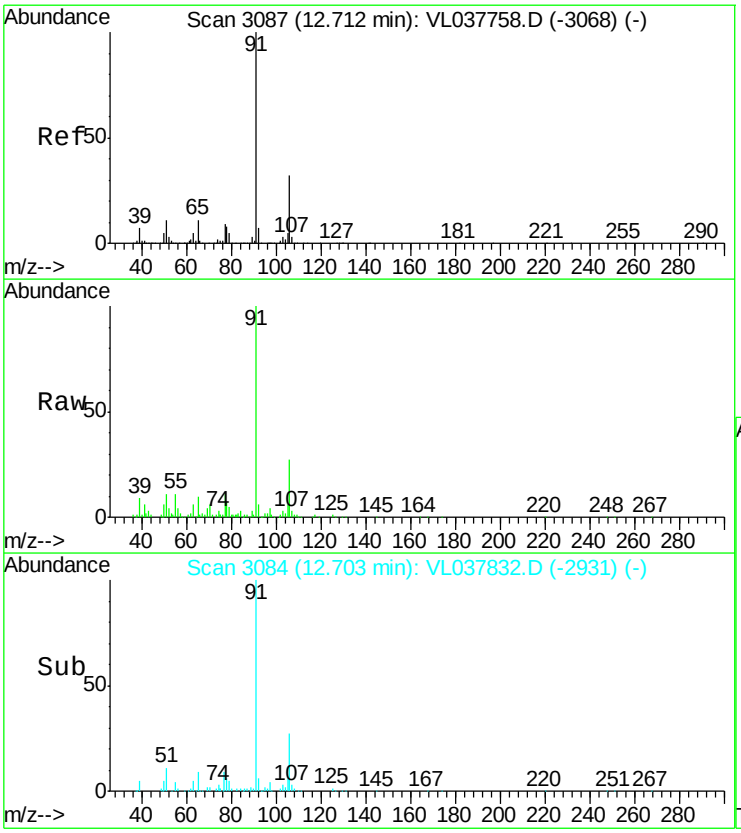
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion:117 Resp: 3077755

Ion	Ratio	Lower	Upper
117	100		
82	61.3	52.2	78.2
119	34.5	26.0	39.0

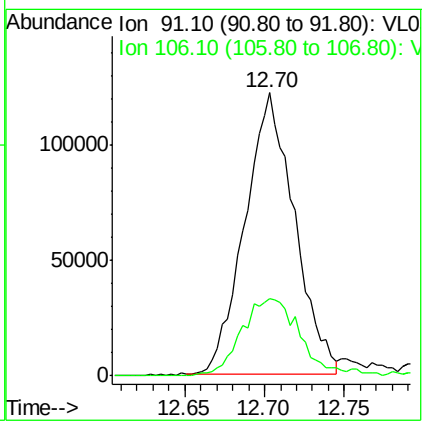


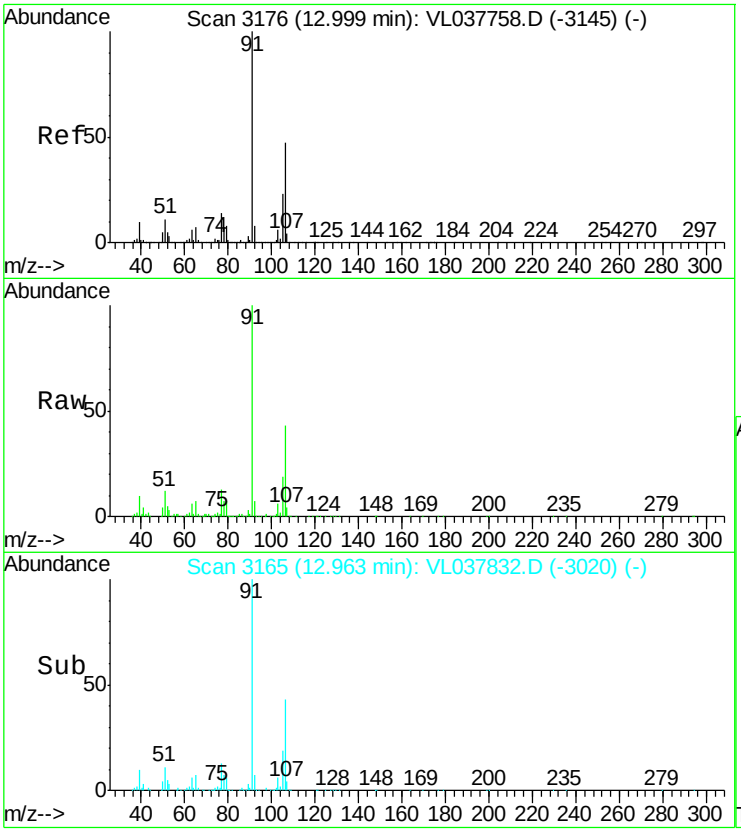


#58
Ethyl Benzene
Concen: 0.630 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 260426

Ion	Ratio	Lower	Upper
91	100		
106	27.6	25.3	37.9



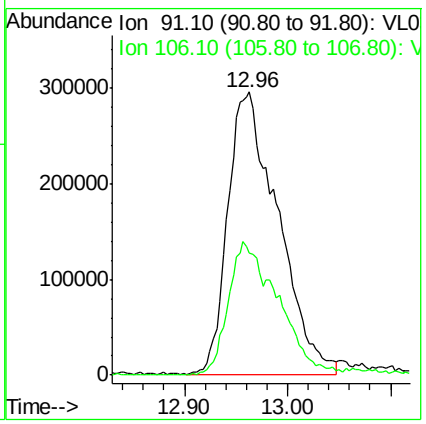


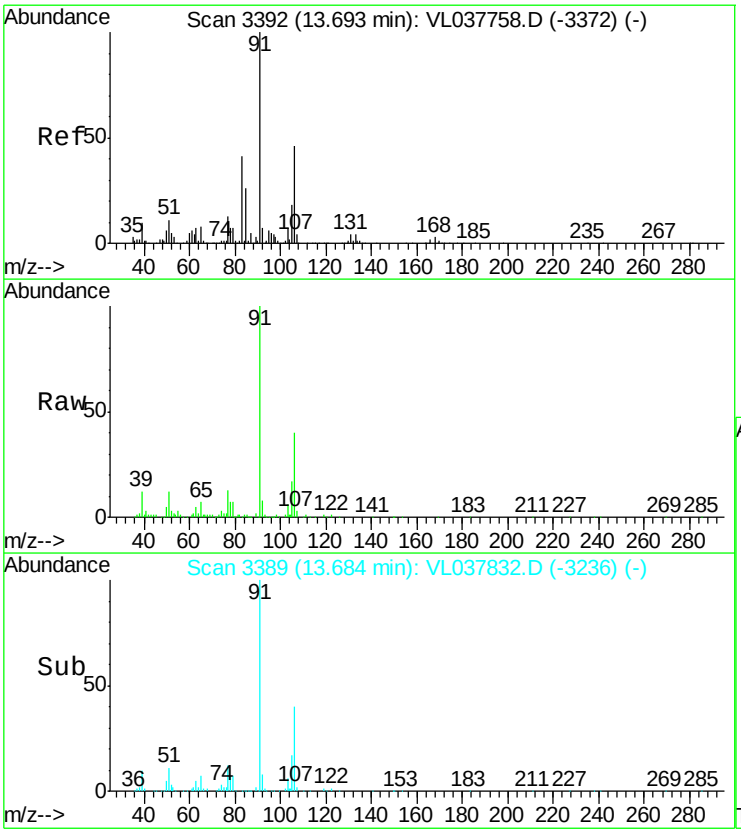
#59
m/p-Xylene
Concen: 2.804 ppbv
RT: 12.96
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 91 Resp: 994678

Ion	Ratio	Lower	Upper
91	100		
106	48.7	36.7	55.1

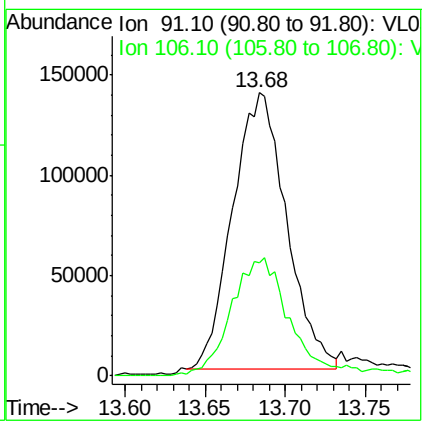


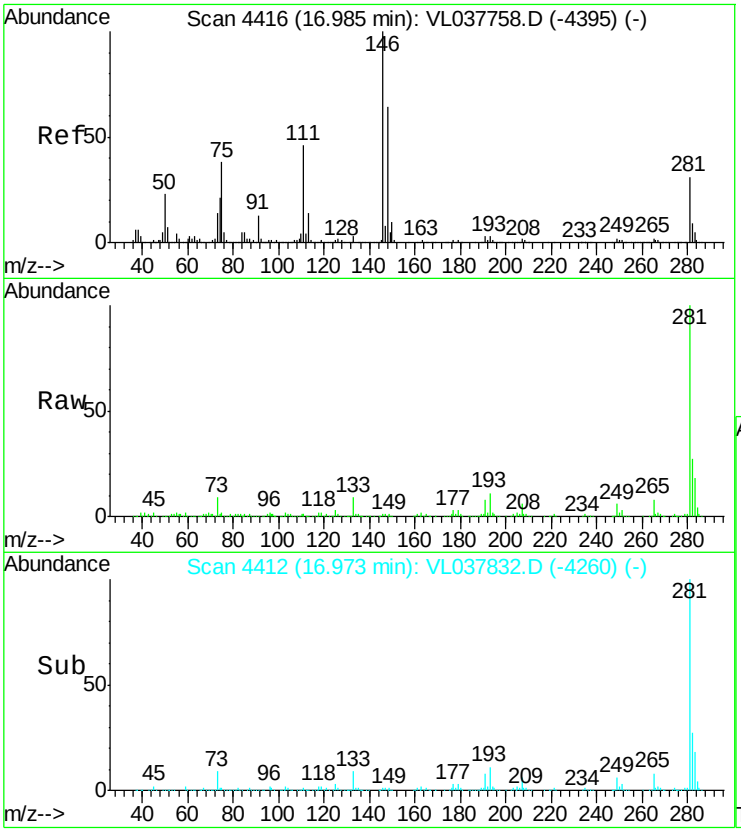


#60
o-Xylene
Concen: 0.936 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 91 Resp: 318352

Ion	Ratio	Lower	Upper
91	100		
106	49.9	23.5	70.5



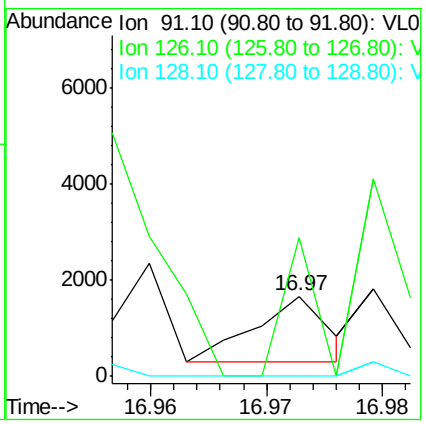


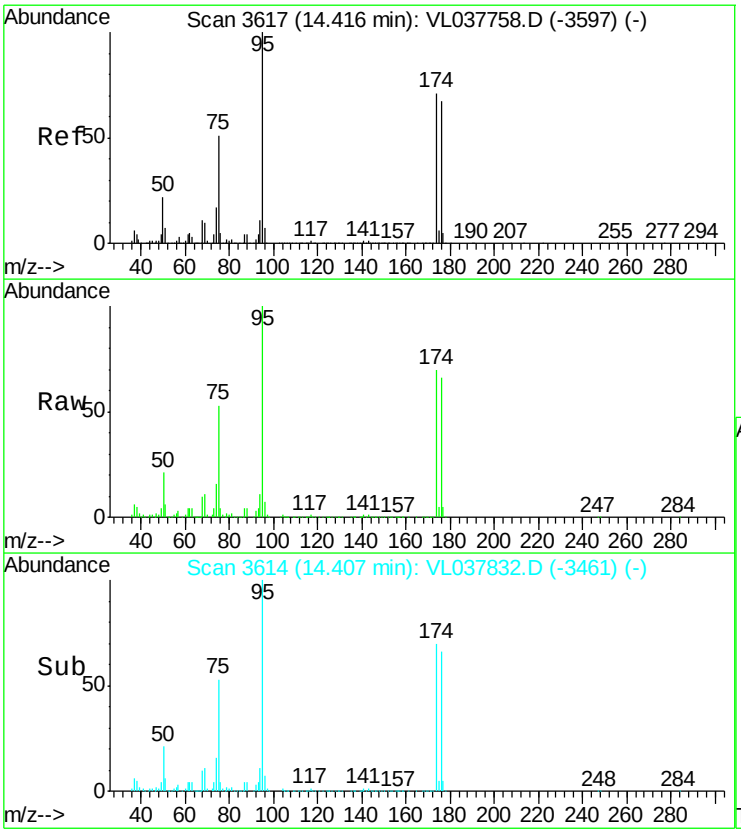
#66
Benzyl Chloride
Concen: 0.029 ppbv
RT: 16.97
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion: 91 Resp: 593

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

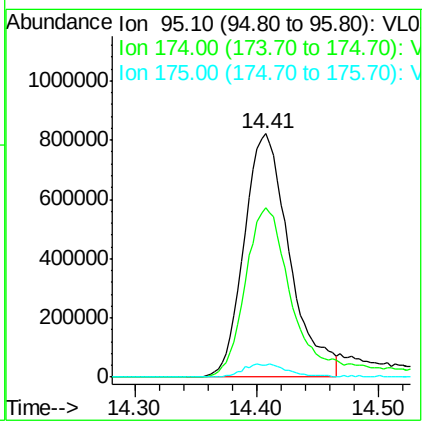


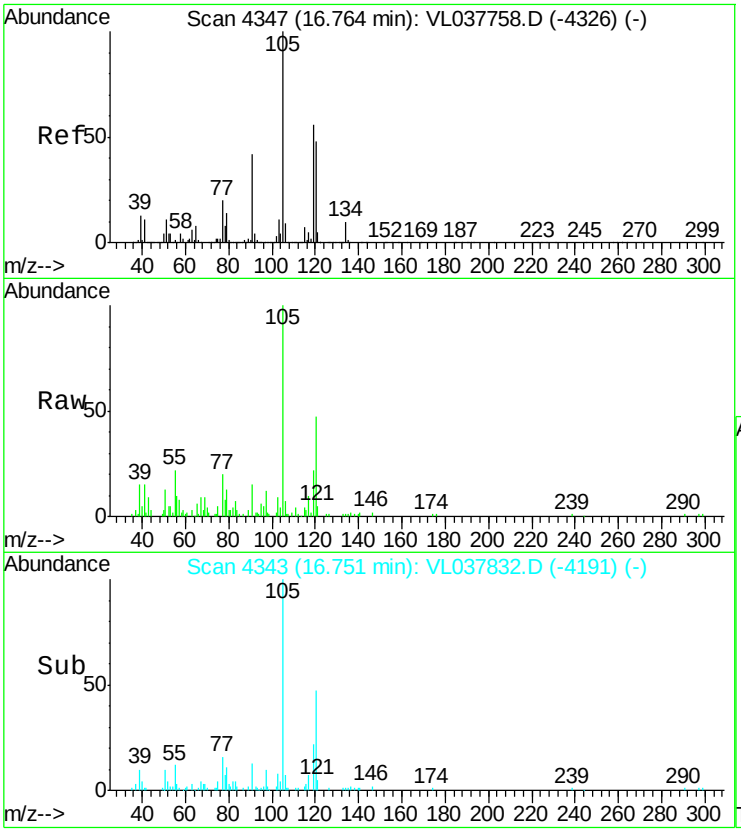


#68
1-Bromo-4-Fluorobenzene
Concen: 9.828 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion: 95 Resp: 2115192

Ion	Ratio	Lower	Upper
95	100		
174	78.2	57.8	86.6
175	5.7	4.7	7.1



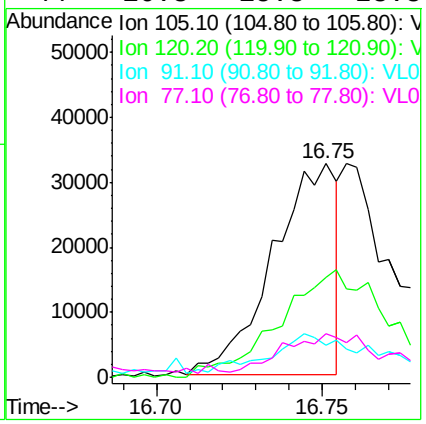


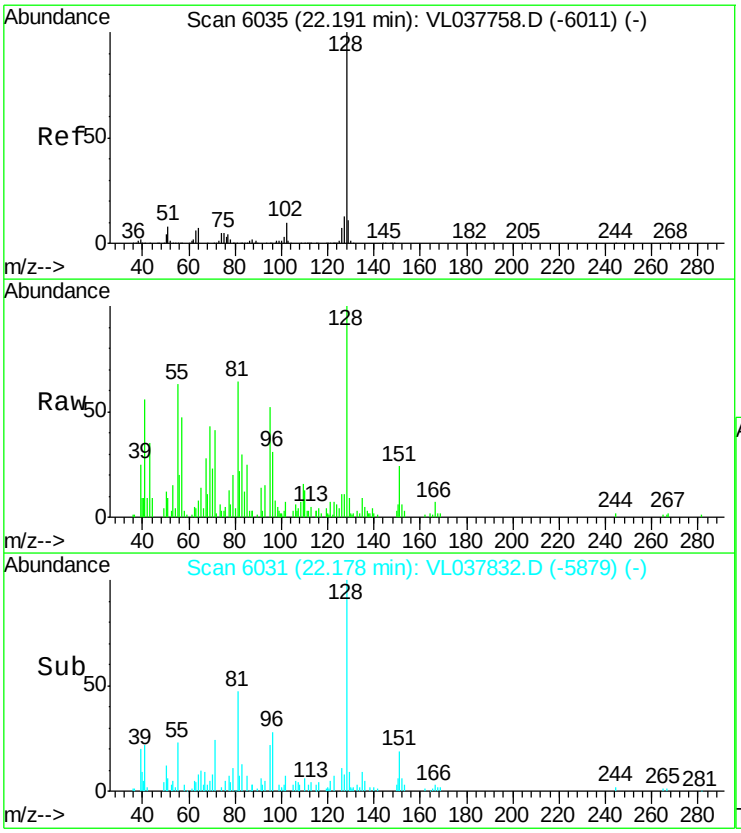
#74
1,2,4-Trimethylbenzene
Concen: 0.118 ppbv
RT: 16.75
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion:105 Resp: 43624

Ion	Ratio	Lower	Upper
105	100		
120	47.3	38.4	57.6
91	13.3	34.2	51.2#
77	16.3	15.8	23.8

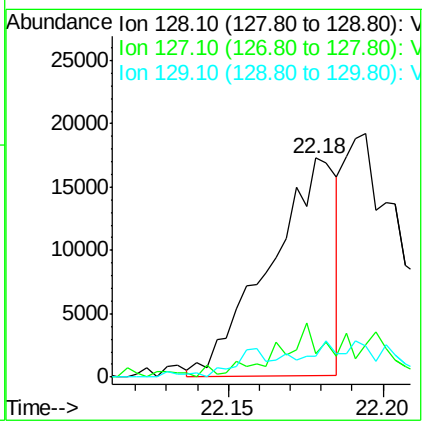


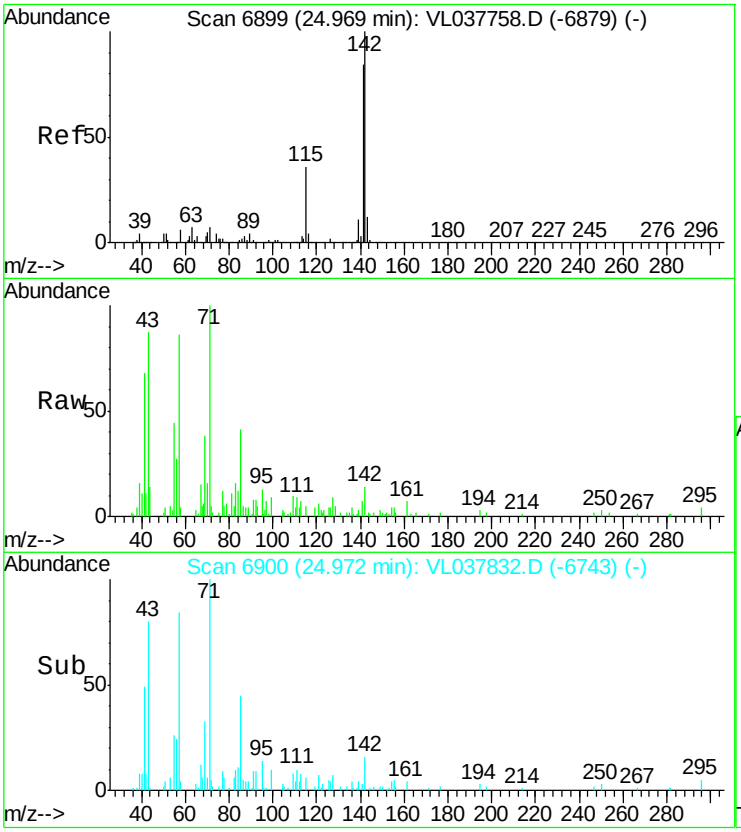


#79
Naphthalene
Concen: 0.115 ppbv
RT: 22.18 min Scan# 6031
Delta R.T. -0.01 min
Lab File: VL037832.D
Acq: 12 Oct 2021 16:37

Tgt Ion:128 Resp: 25889

Ion	Ratio	Lower	Upper
128	100		
127	9.1	10.1	15.1#
129	8.3	9.1	13.7#





#80
Naphthalene,2-methyl-
Concen: 0.078 ppbv
RT: 24.97
Delta R.T
Lab File:
Acq: 12 Oct 2021 16:37

Instrument :
MSVOA_L
ClientSampleId :
C0P47DUP

Tgt Ion:142 Resp: 4729

Ion	Ratio	Lower	Upper
142	100		
141	109.9	68.6	102.8#
115	65.4	29.0	43.6#