Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052919\

Quantitation Report (Not Reviewed)

Data File : VL033856.D
Acq On : 30 May 2019 4:54
Operator : SY/AP
Sample : K3067-07
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : SG-4-20190523-0

Quant Time: May 30 06:24:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	5.76	49	717438	10.00	ppbv		0.00
33) 1,4-Difluorobenzene	7.29	114	1706577	10.00	ppbv		0.00
55) Chlorobenzene-d5	12.23	117	1766336	10.00	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	14.57	95	1442175	10.07	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.08	85	25270	0.167	ppbv		91
3) Chlorodifluoromethane	3.01	51	62625	0.762	ppbv	#	86
4) Chloromethane	3.17	50	11006	0.234	ppbv	#	86
9) Propene	3.03	41	14324	0.410	ppbv	#	44
10) Heptane	8.24	43	7908	0.080	ppbv	#	65
11) Trichlorofluoromethane	4.00	101	40086	0.278	ppbv		95
12) 1,1,2-Trichlorotrifluoroet	4.54	101	4435	0.044	ppbv	#	13
13) Ethanol	3.67	45	222085	19.658	ppbv		98
15) Acetone	3.89	43	1694071	17.019	ppbv		100
16) 1,3-Butadiene	3.34	39	42994	1.085	ppbv	#	13
17) tert-Butyl alcohol	4.37	59	59856	0.744	ppbv		95
19) Isopropyl Alcohol	4.04	45	249148	3.882	ppbv	#	94
20) Methylene Chloride	4.40	84	74442	1.942	ppbv		95
23) Vinyl Acetate	5.14	43	47379	0.361	ppbv	#	71
25) Ethyl Acetate	5.77	43	165568	0.947	ppbv	#	84
26) Hexane	5.77	57	197296	2.625	ppbv	#	42
27) Carbon Disulfide	4.62	76	69948	0.678	ppbv	#	90
29) Chloroform	5.84	83	10115	0.073	ppbv		96
30) Cyclohexane	7.24	84	3131	0.050	ppbv	#	1
31) cis-1,2-Dichloroethene	5.76	61	3502	0.047	ppbv	#	29
34) 2-Butanone	5.33	43	218379	2.064	ppbv		97
35) Carbon Tetrachloride	7.12	117	6164	0.045	ppbv	#	81
36) Benzene	6.99	78	77170	0.497	ppbv		98
38) Trichloroethene	7.95	130	10409	0.181	ppbv	#	84
39) 1,2-Dichloropropane	7.28	63	444622	7.682	ppbv	#	23
44) 2,2,4-Trimethylpentane	7.98	57	35412	0.135	ppbv	#	8
52) Tetrachloroethene	11.37	164	119377	2.188	ppbv		97
53) Toluene	9.94	91	595133	3.554	ppbv		99
58) Ethyl Benzene	12.85	91	15850	0.068	ppbv		92
59) m/p-Xylene	13.15	91	14279	0.070	ppbv	#	31
60) o-Xylene	13.85	91	41565	0.202	ppbv		100
61) Styrene	13.68	104	4303	0.031	ppbv	#	30
74) 1,2,4-Trimethylbenzene	16.92	105	58306	0.233	ppbv	#	75

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

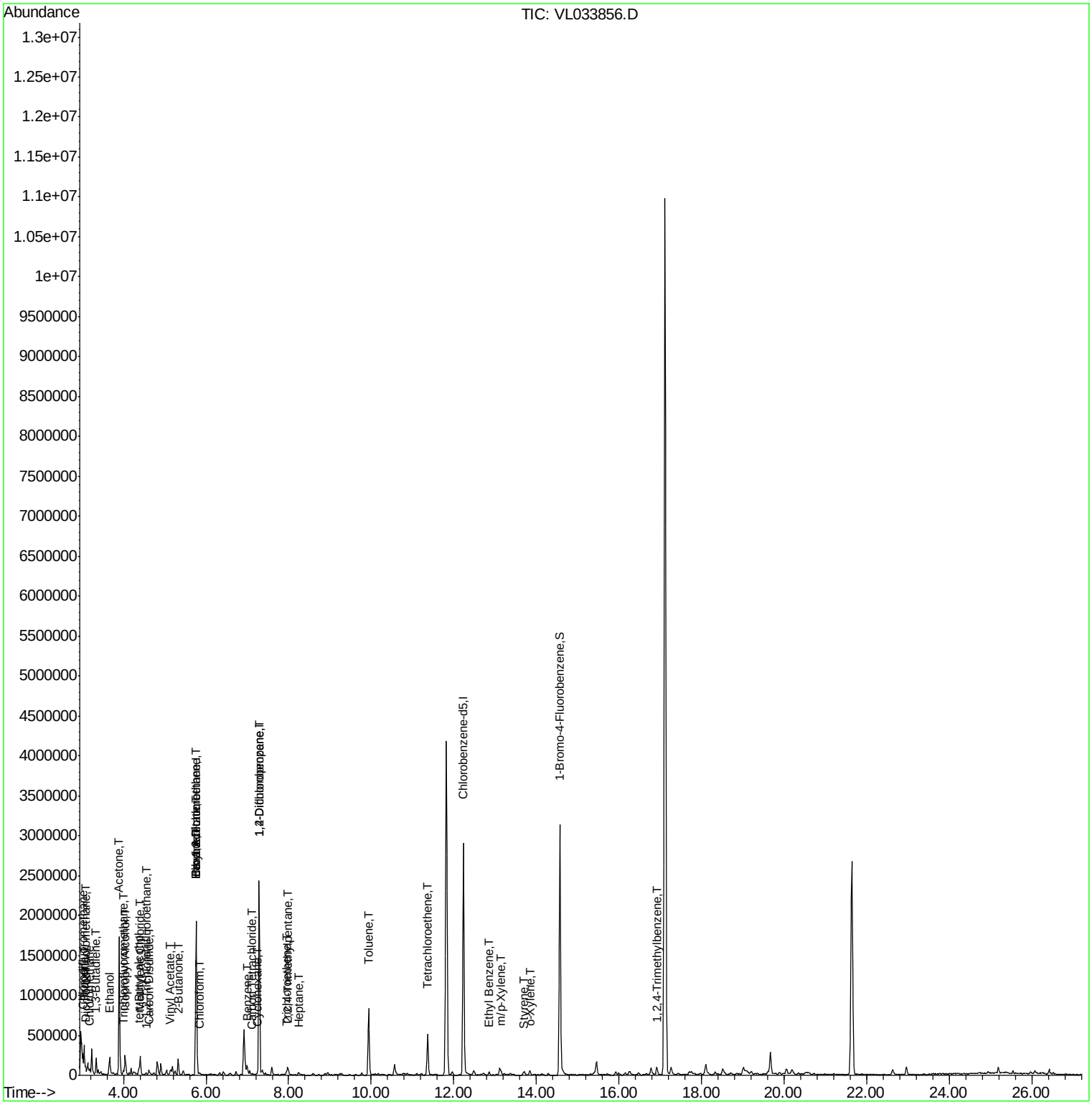
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL052919\

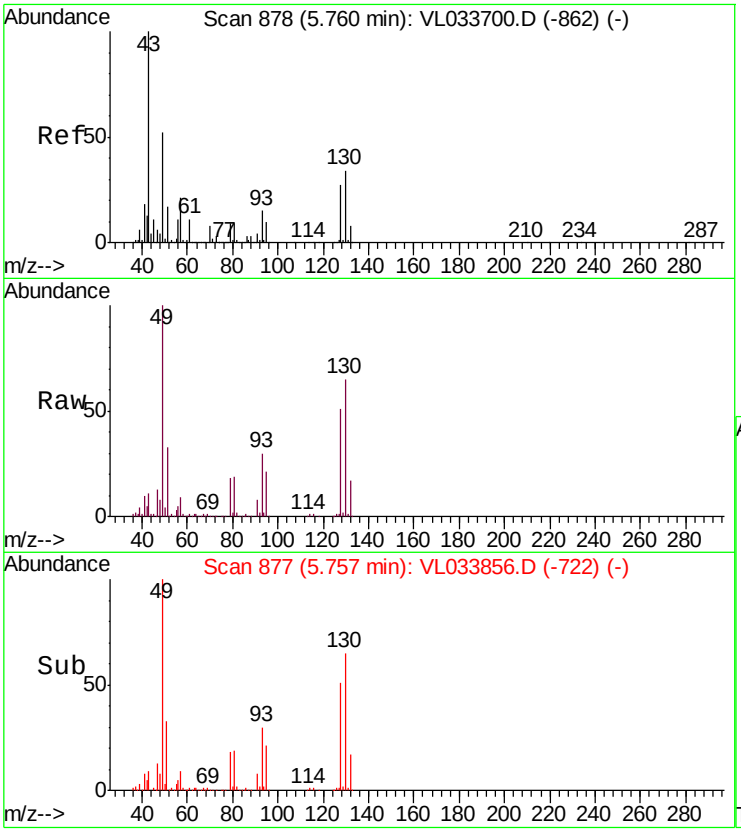
Quantitation Report (Not Reviewed)

Data File : VL033856.D
Acq On : 30 May 2019 4:54
Operator : SY/AP
Sample : K3067-07
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Quant Time: May 30 06:24:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri May 17 08:15:41 2019
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration



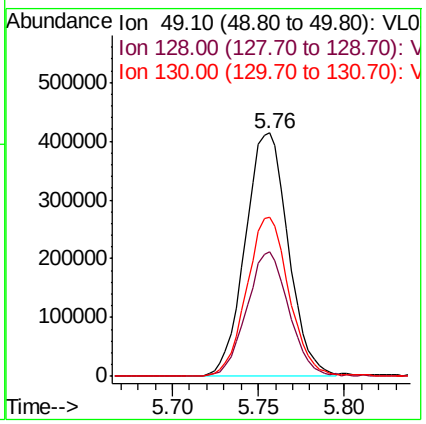


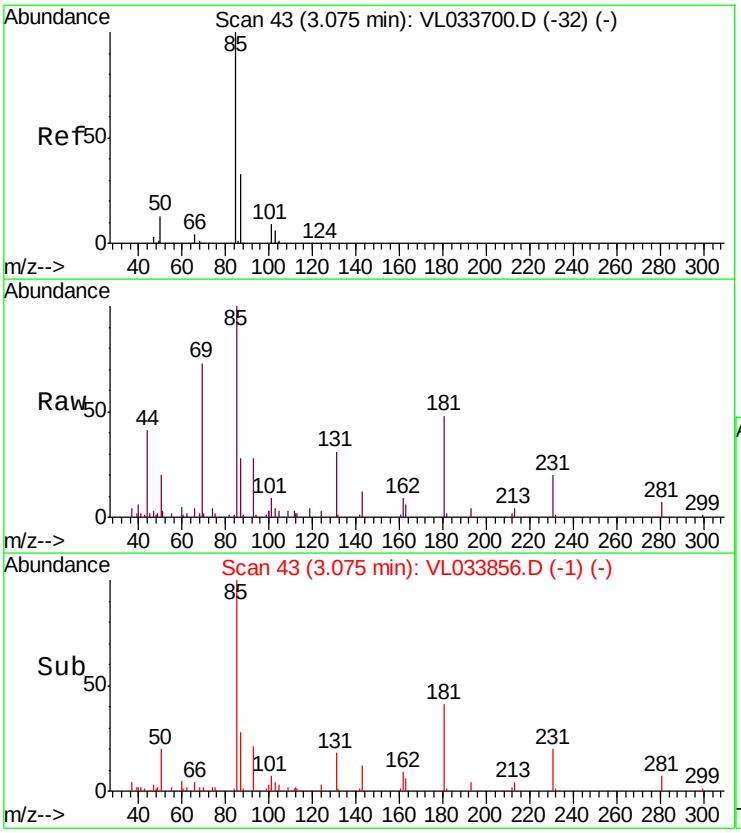
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 49 Resp: 717438

Ion	Ratio	Lower	Upper
49	100		
128	50.5	25.2	75.6
130	64.8	32.5	97.5

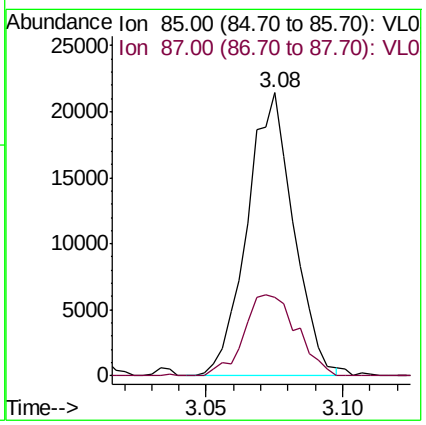


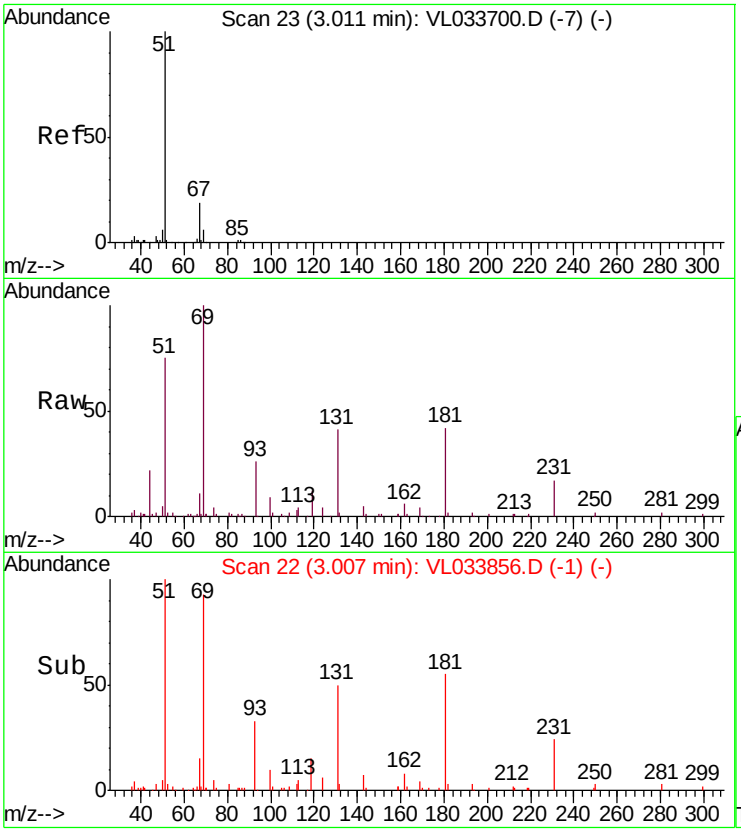


#2
Dichlorodifluoromethane
Concen: 0.167 ppbv
RT: 3.08 min Scan# 43
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 85 Resp: 25270

Ion	Ratio	Lower	Upper
85	100		
87	27.8	26.3	39.5



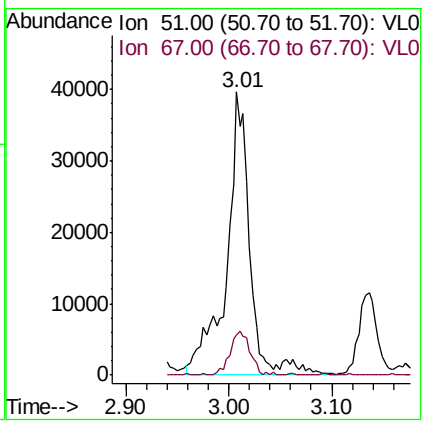


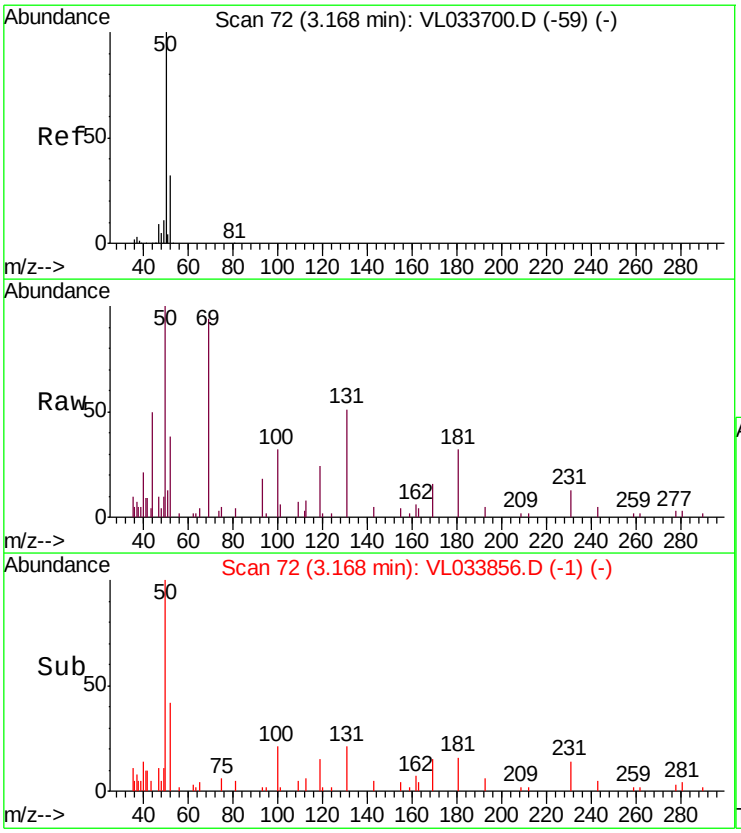
#3
Chlorodifluoromethane
Concen: 0.762 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 51 Resp: 62625

Ion	Ratio	Lower	Upper
51	100		
67	13.2	15.6	23.4#

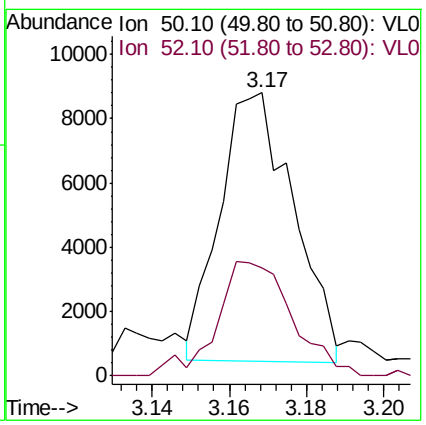


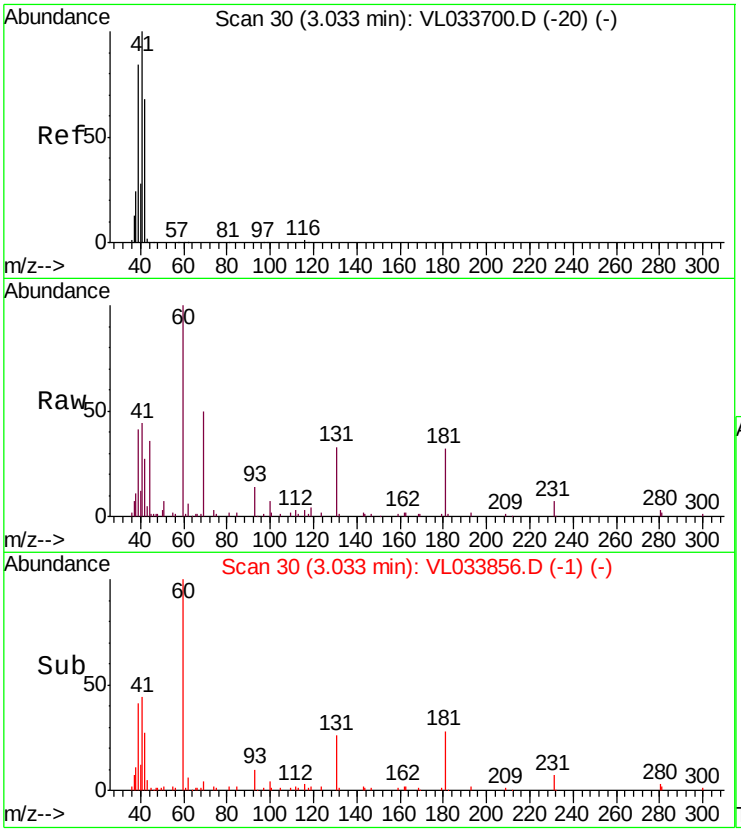


#4
Chloromethane
Concen: 0.234 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 50 Resp: 11006

Ion	Ratio	Lower	Upper
50	100		
52	39.8	25.7	38.5#



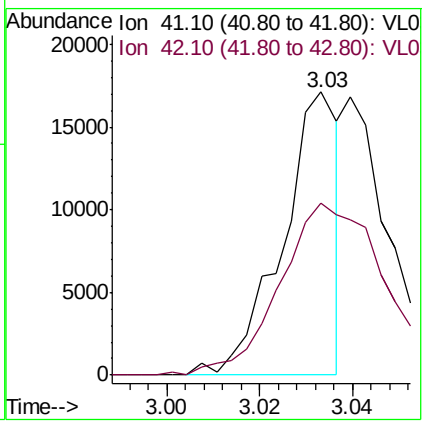


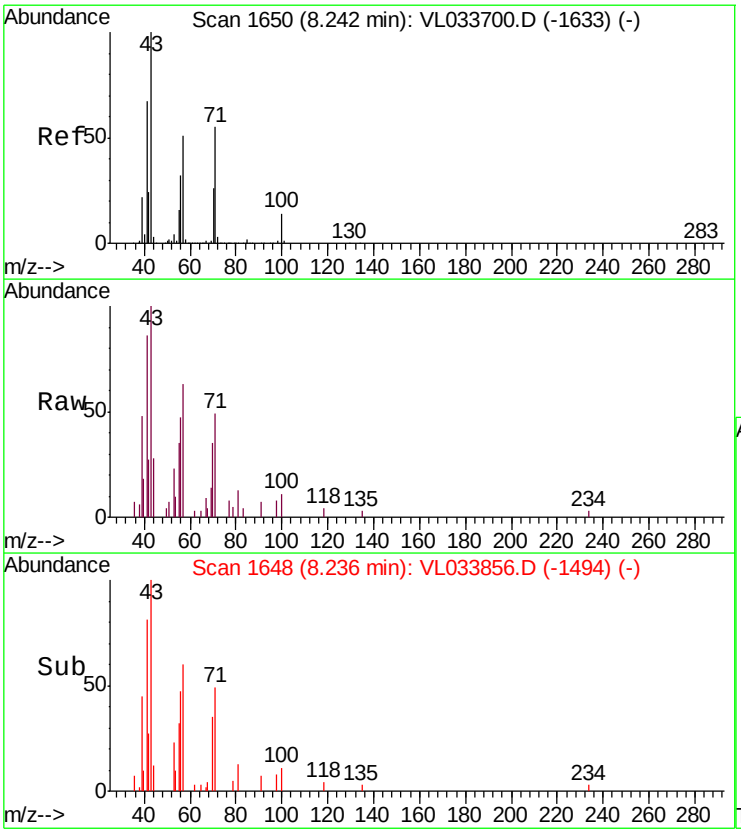
#9
Propene
Concen: 0.410 ppbv
RT: 3.03 min Scan# 30
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 41 Resp: 14324

Ion	Ratio	Lower	Upper
41	100		
42	116.3	56.1	84.1#

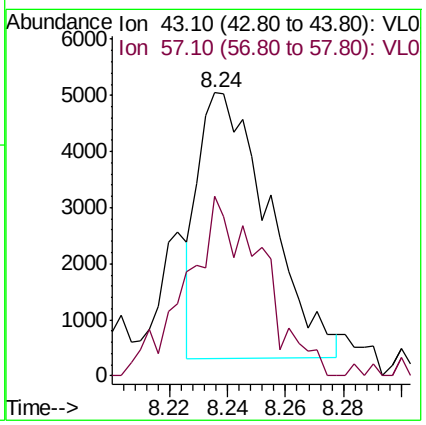


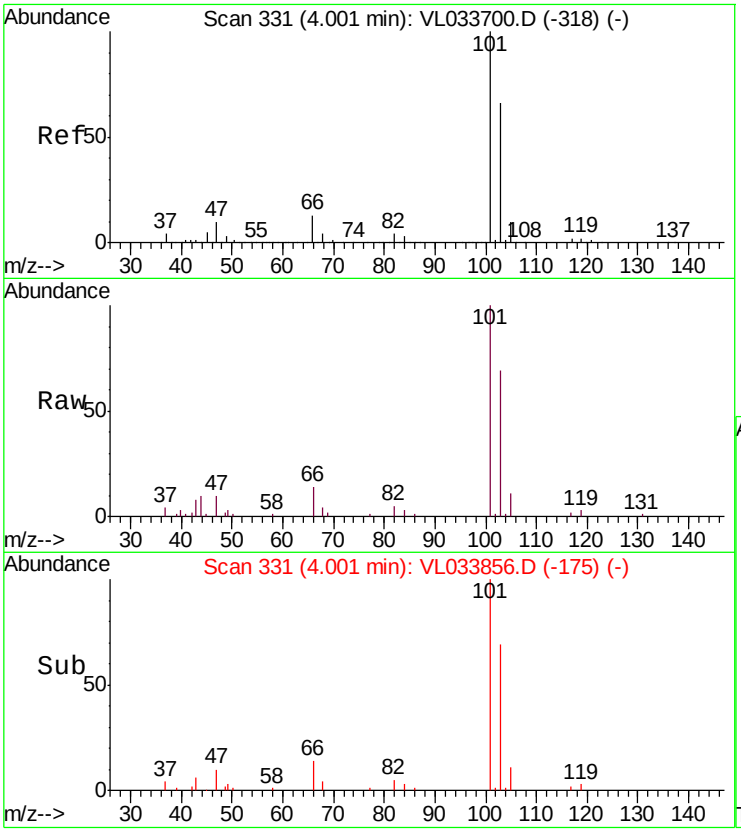


#10
Heptane
Concen: 0.080 ppbv
RT: 8.24 min Scan# 1648
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 43 Resp: 7908

Ion	Ratio	Lower	Upper
43	100		
57	76.0	41.4	62.0#



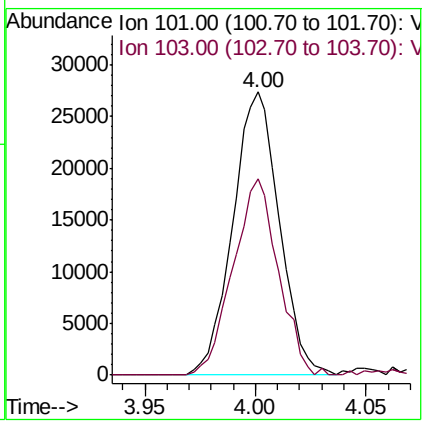


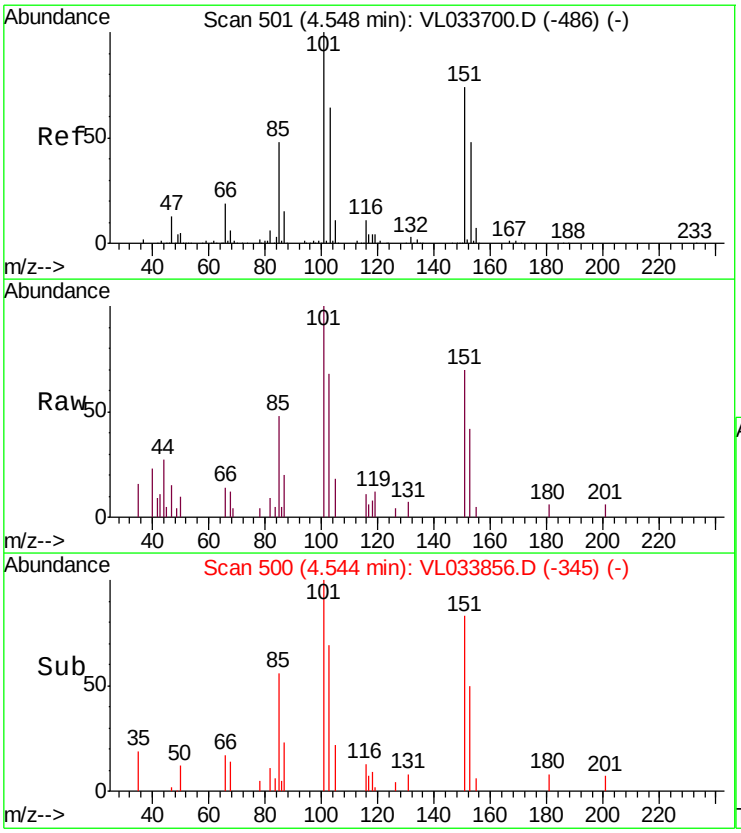
#11
Trichlorofluoromethane
Concen: 0.278 ppbv
RT: 4.00 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion:101 Resp: 40086

Ion	Ratio	Lower	Upper
101	100		
103	69.3	52.6	78.8

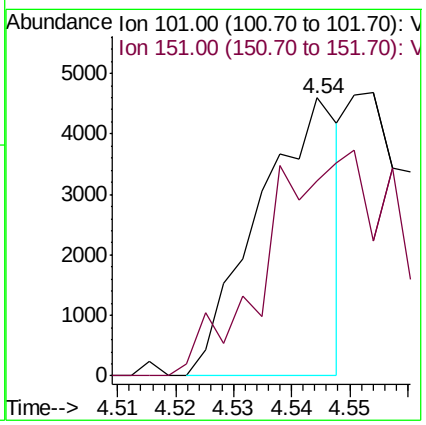


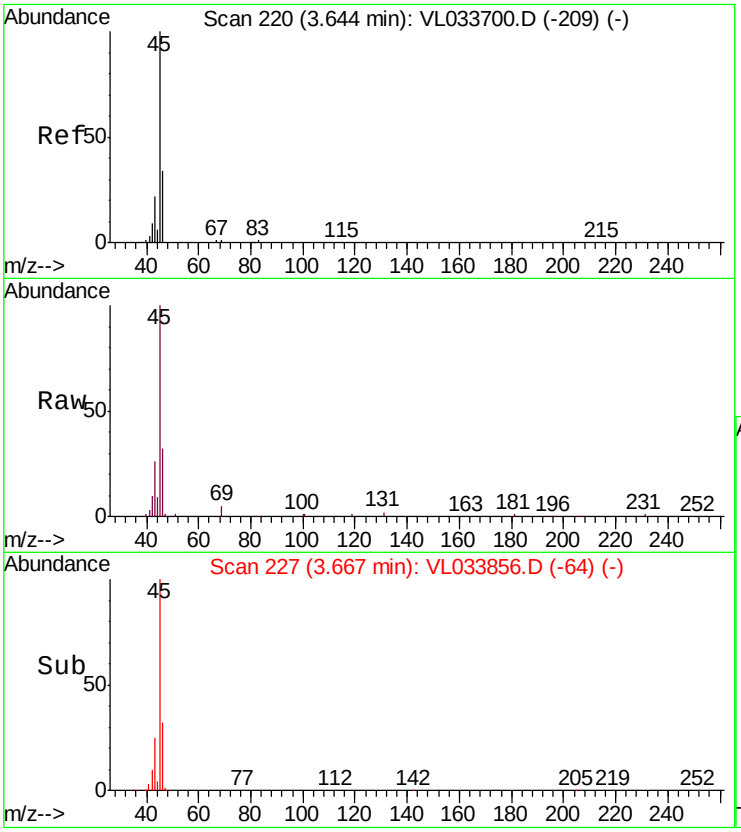


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.044 ppbv
RT: 4.54 min Scan# 500
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion:101 Resp: 4435

Ion	Ratio	Lower	Upper
101	100		
151	0.0	58.2	87.4#



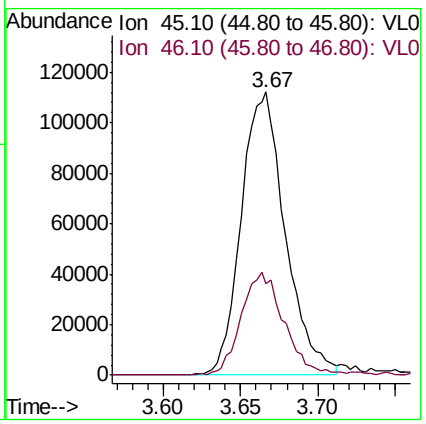


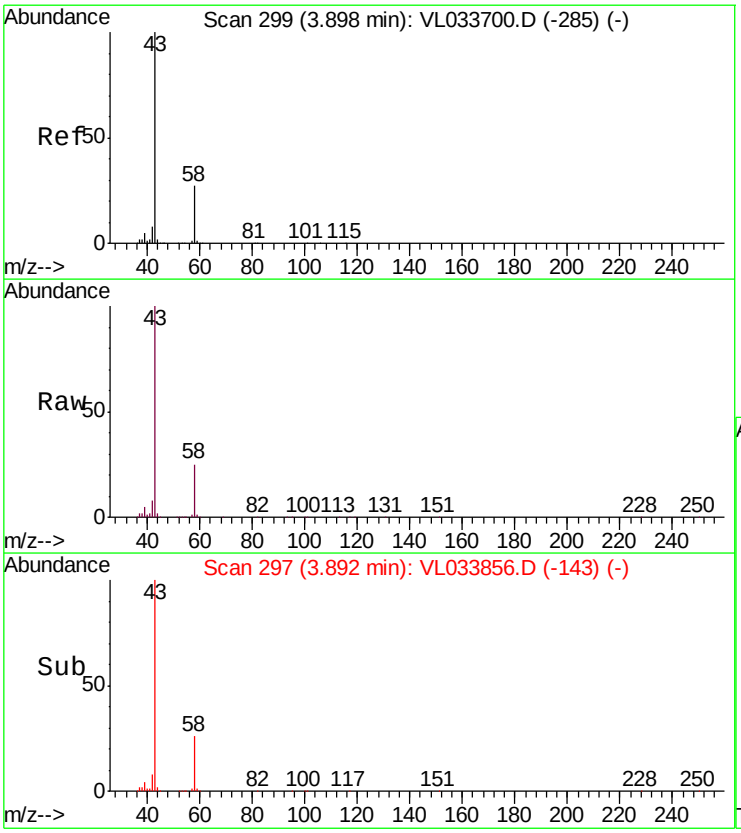
#13
Ethanol
Concen: 19.658 ppbv
RT: 3.67 min Scan# 227
Delta R.T. 0.02 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 45 Resp: 222085

Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.8	59.0

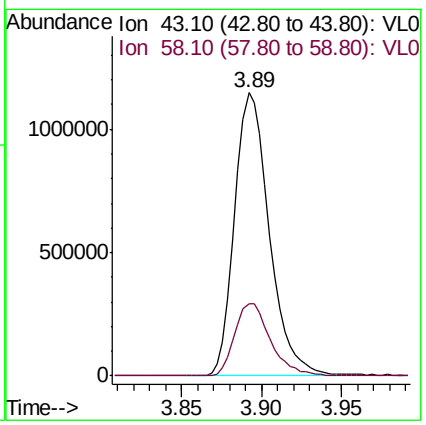


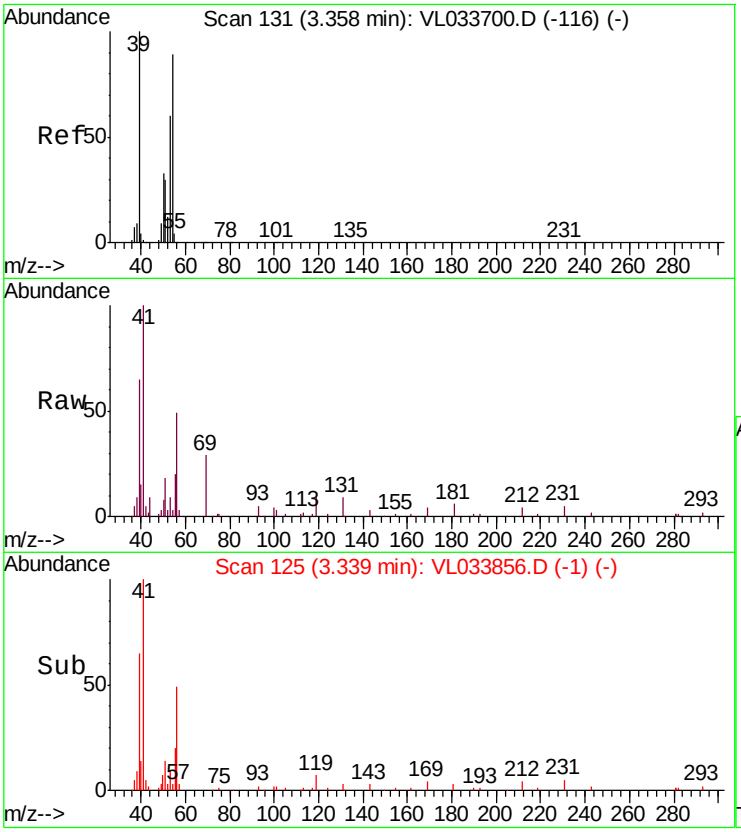


#15
Acetone
Concen: 17.019 ppbv
RT: 3.89 min Scan# 297
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 43 Resp: 1694071

Ion	Ratio	Lower	Upper
43	100		
58	26.6	21.3	31.9



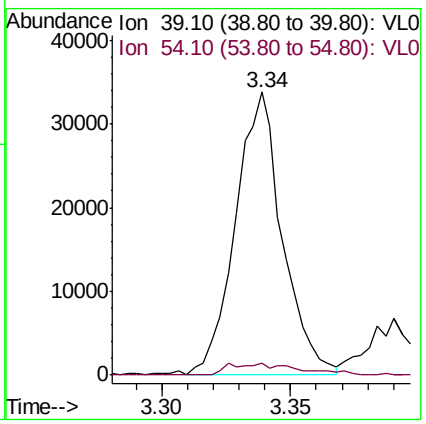


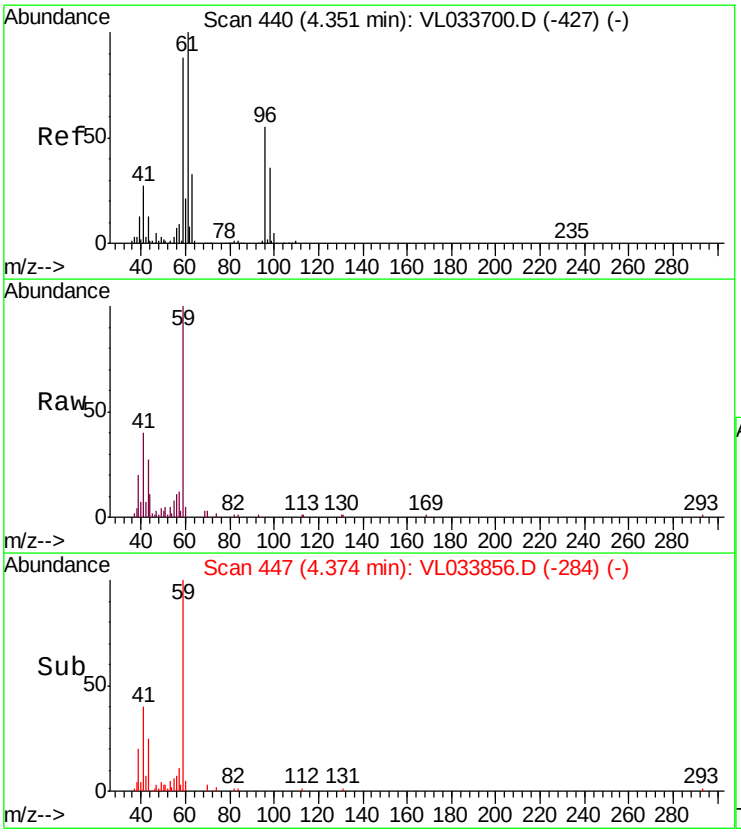
#16
1,3-Butadiene
Concen: 1.085 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.02 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 39 Resp: 42994

Ion	Ratio	Lower	Upper
39	100		
54	6.4	69.0	103.6#

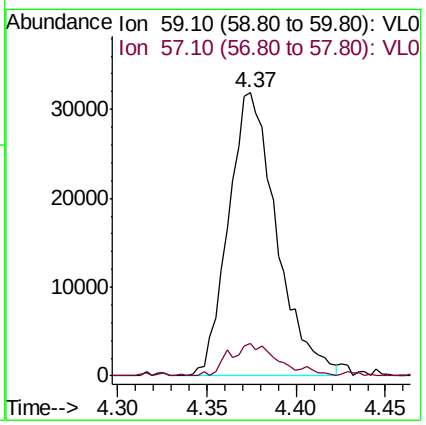


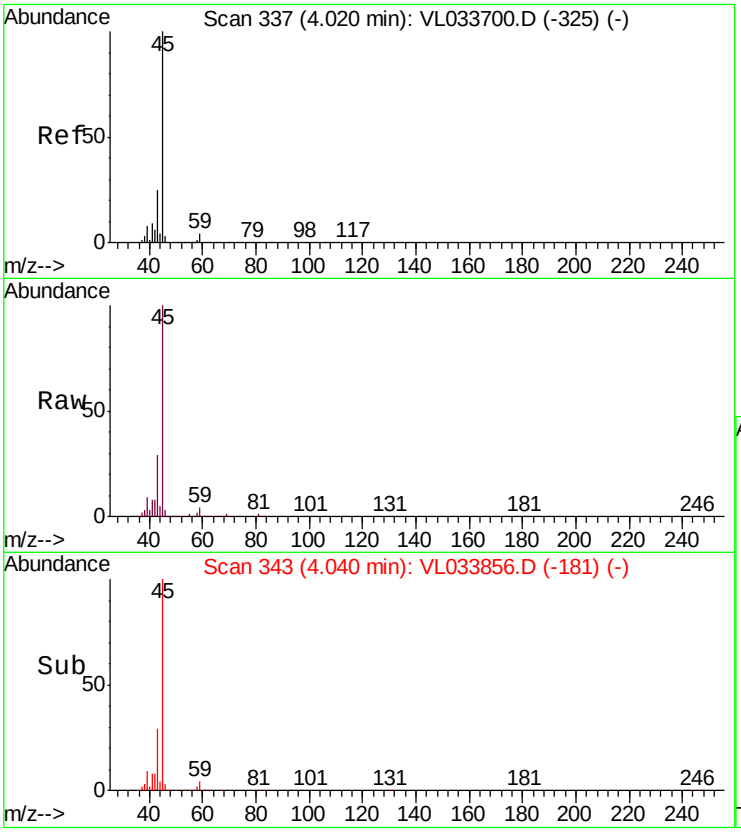


#17
tert-Butyl alcohol
Concen: 0.744 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 59 Resp: 59856

Ion	Ratio	Lower	Upper
59	100		
57	12.2	8.4	12.6



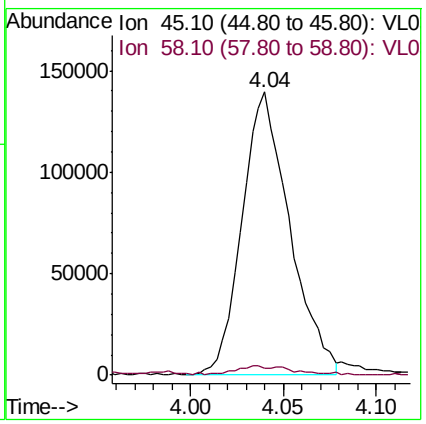


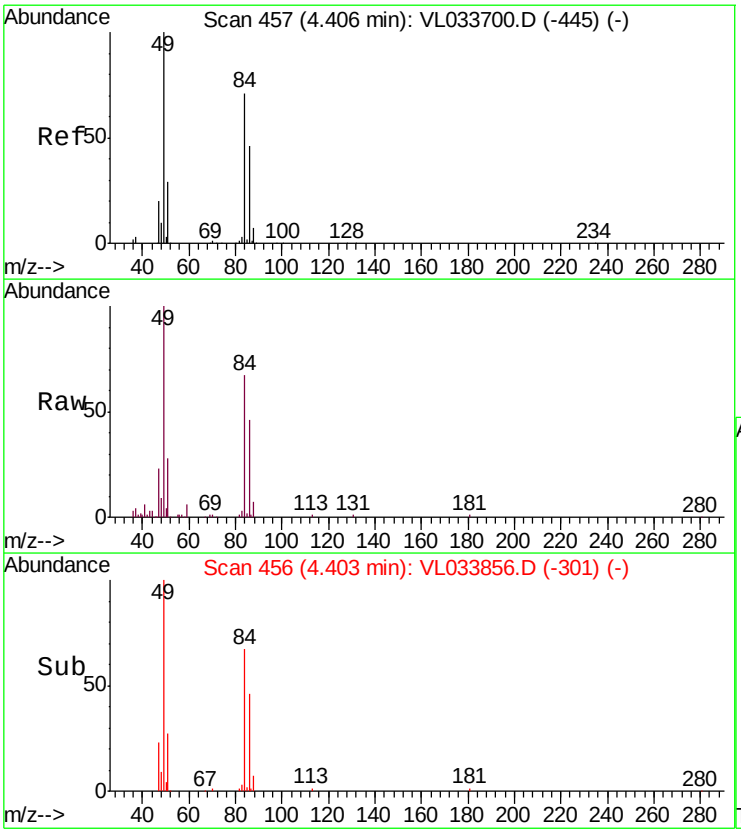
#19
Isopropyl Alcohol
Concen: 3.882 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.02 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 45 Resp: 249148

Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.6	2.4#

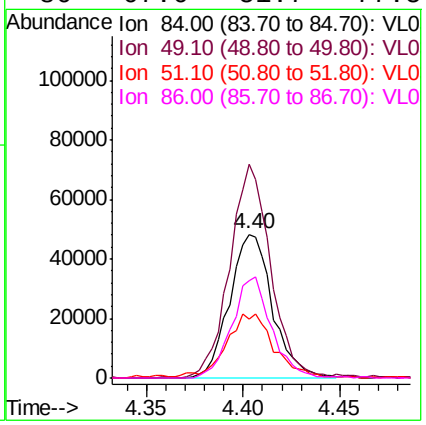


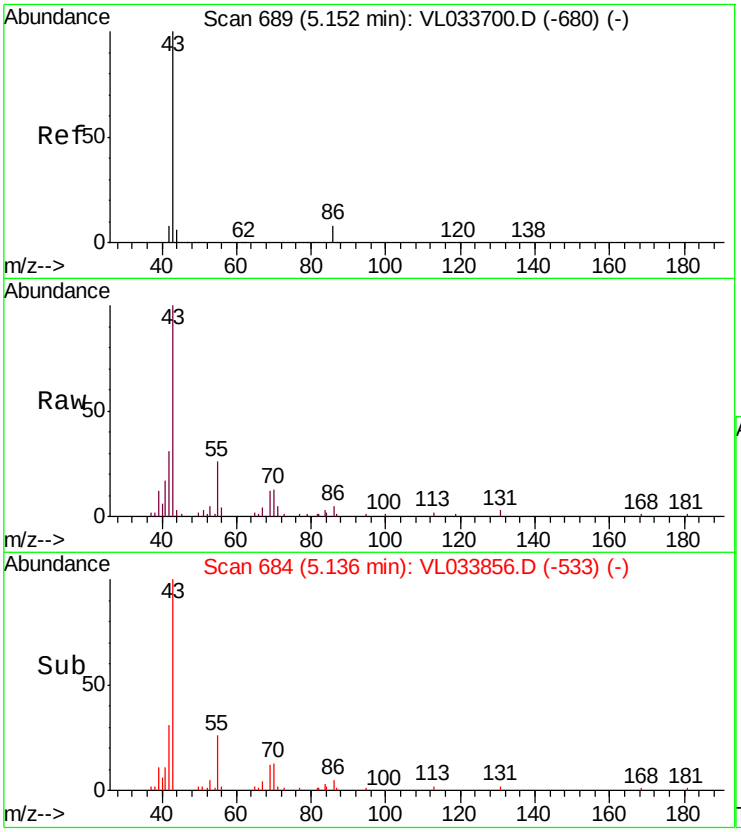


#20
Methylene Chloride
Concen: 1.942 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 84 Resp: 74442

Ion	Ratio	Lower	Upper
84	100		
49	148.0	112.8	169.2
51	40.6	33.4	50.0
86	67.6	51.7	77.5



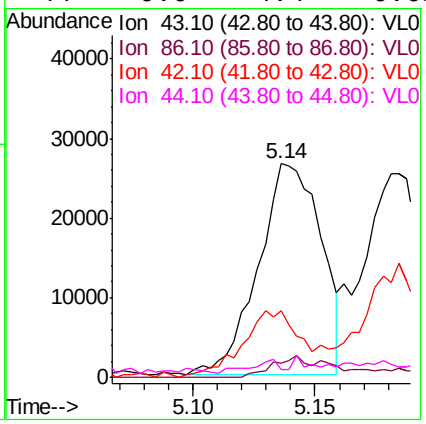


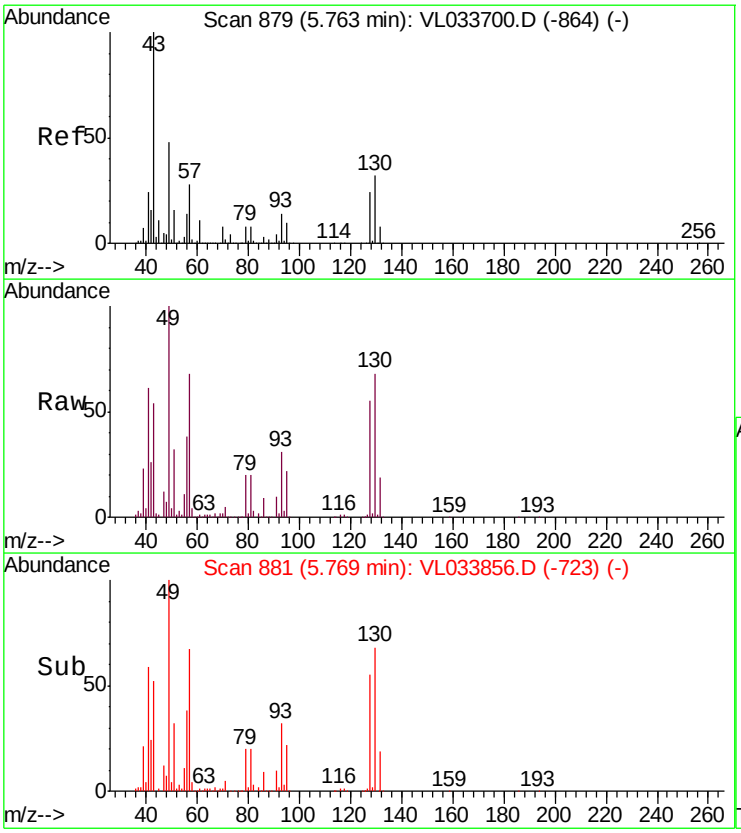
#23
Vinyl Acetate
Concen: 0.361 ppbv
RT: 5.14 min Scan# 684
Delta R.T. -0.02 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 43 Resp: 47379

Ion	Ratio	Lower	Upper
43	100		
86	6.7	6.0	9.0
42	30.5	7.5	11.3#
44	0.0	4.4	6.6#

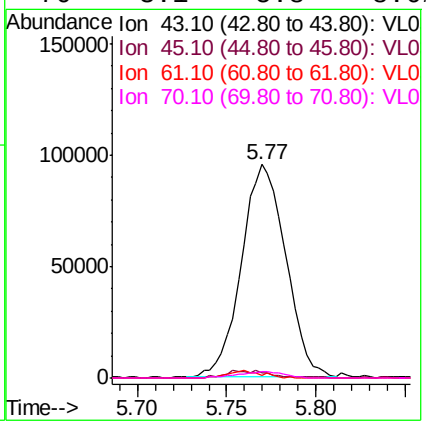


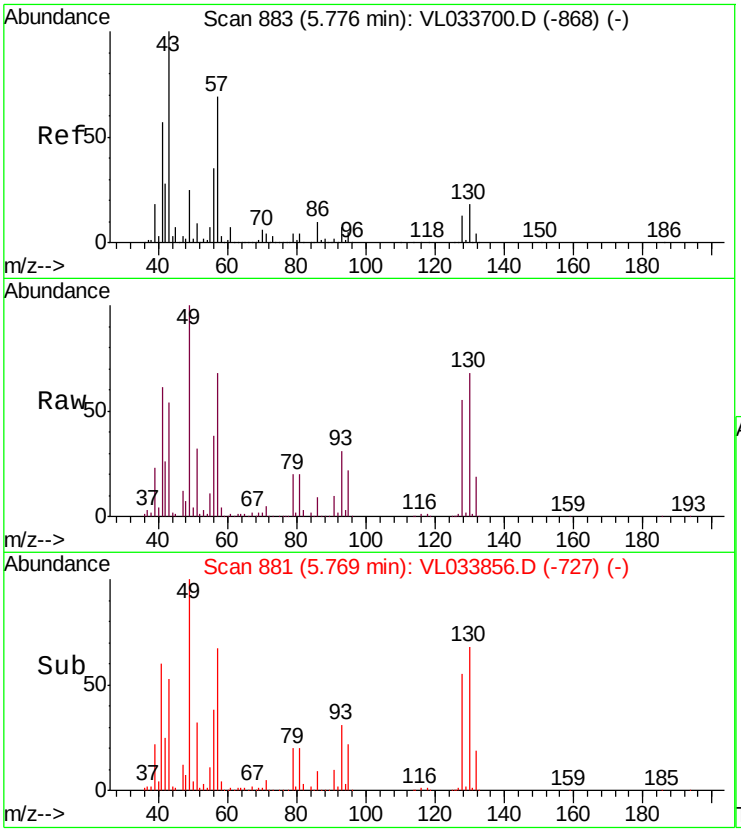


#25
Ethyl Acetate
Concen: 0.947 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 43 Resp: 165568

Ion	Ratio	Lower	Upper
43	100		
45	4.0	7.9	11.9#
61	2.7	7.7	11.5#
70	3.1	5.8	8.6#



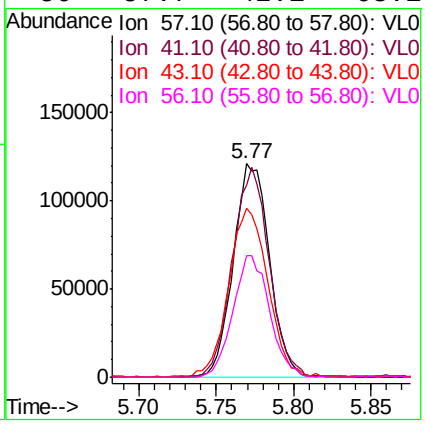


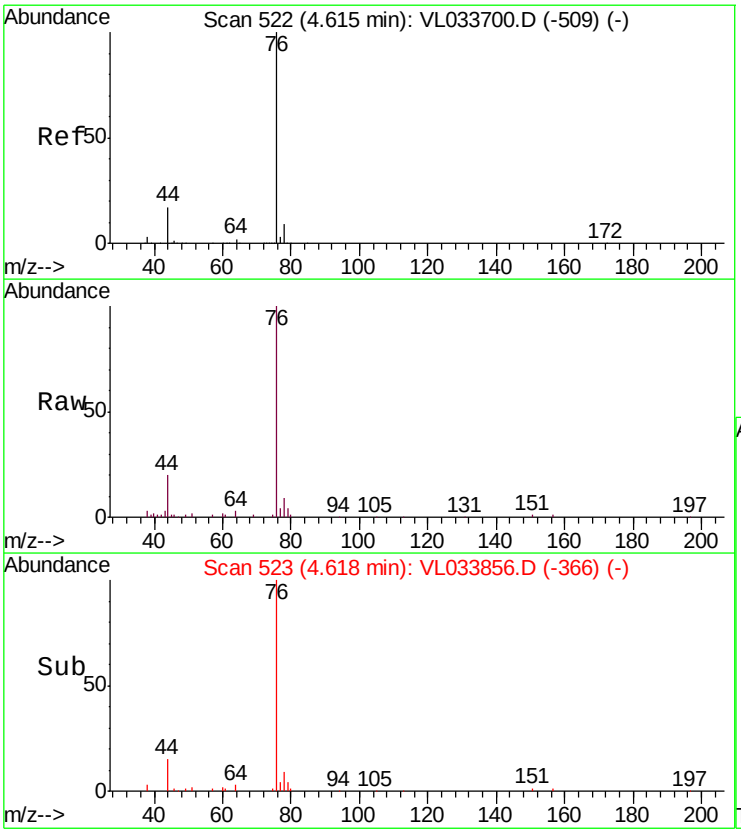
#26
Hexane
Concen: 2.625 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 57 Resp: 197296

Ion	Ratio	Lower	Upper
57	100		
41	99.8	69.8	104.6
43	85.8	181.8	272.6#
56	57.7	42.1	63.1

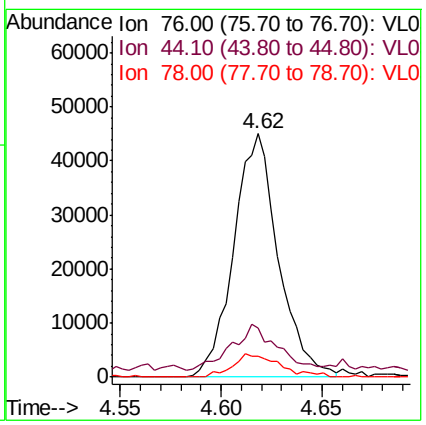


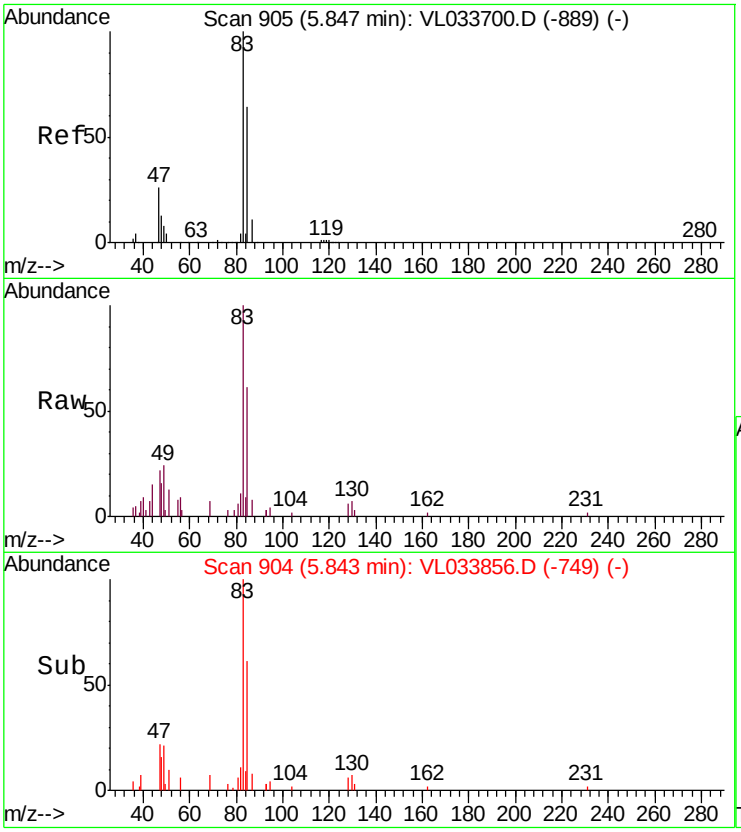


#27
Carbon Disulfide
Concen: 0.678 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 76 Resp: 69948

Ion	Ratio	Lower	Upper
76	100		
44	23.1	13.8	20.8#
78	10.1	7.4	11.0



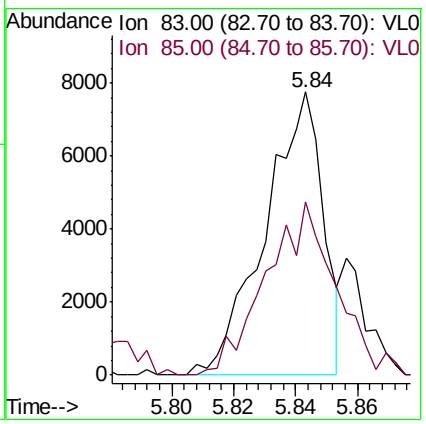


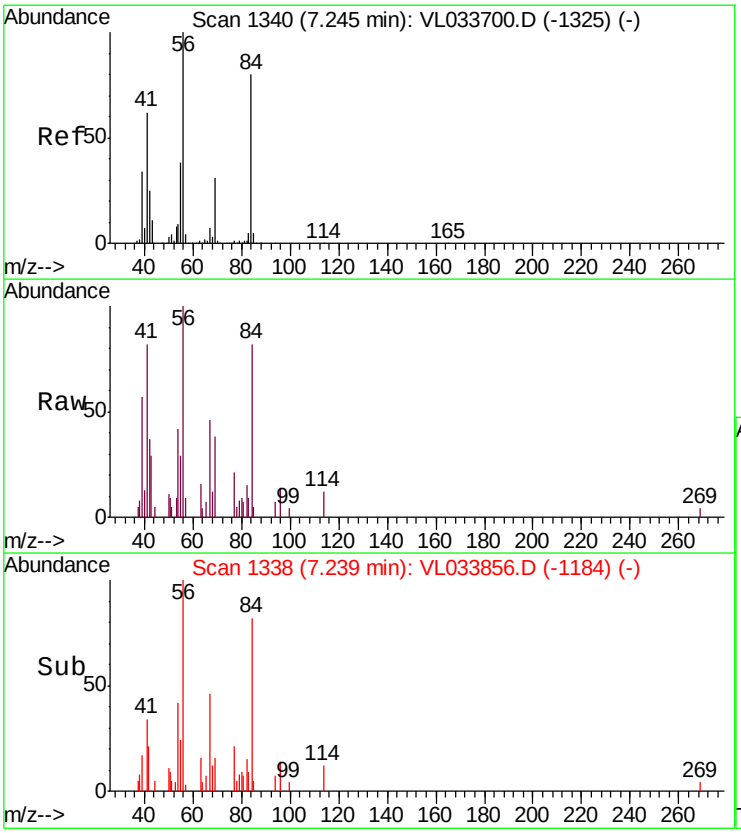
#29
Chloroform
Concen: 0.073 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 83 Resp: 10115

Ion	Ratio	Lower	Upper
83	100		
85	61.2	51.5	77.3

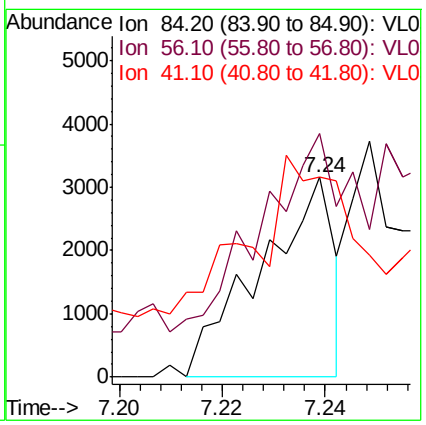


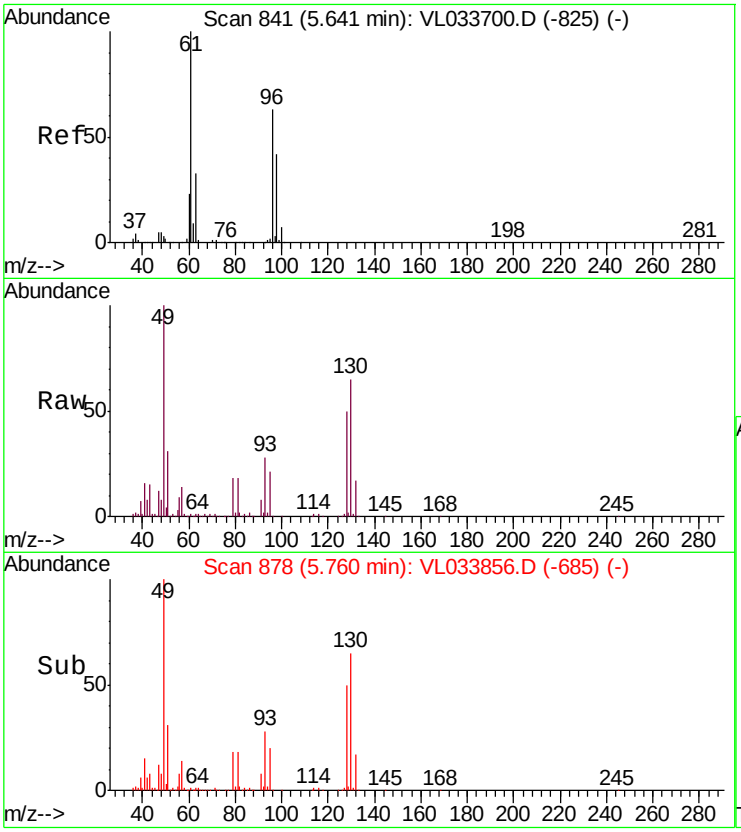


#30
Cyclohexane
Concen: 0.050 ppbv
RT: 7.24 min Scan# 1338
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 84 Resp: 3131

Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	0.0	66.0	99.0#



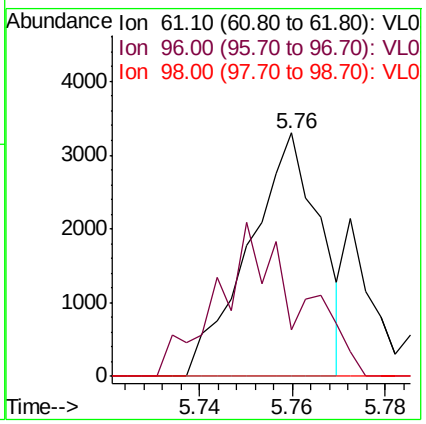


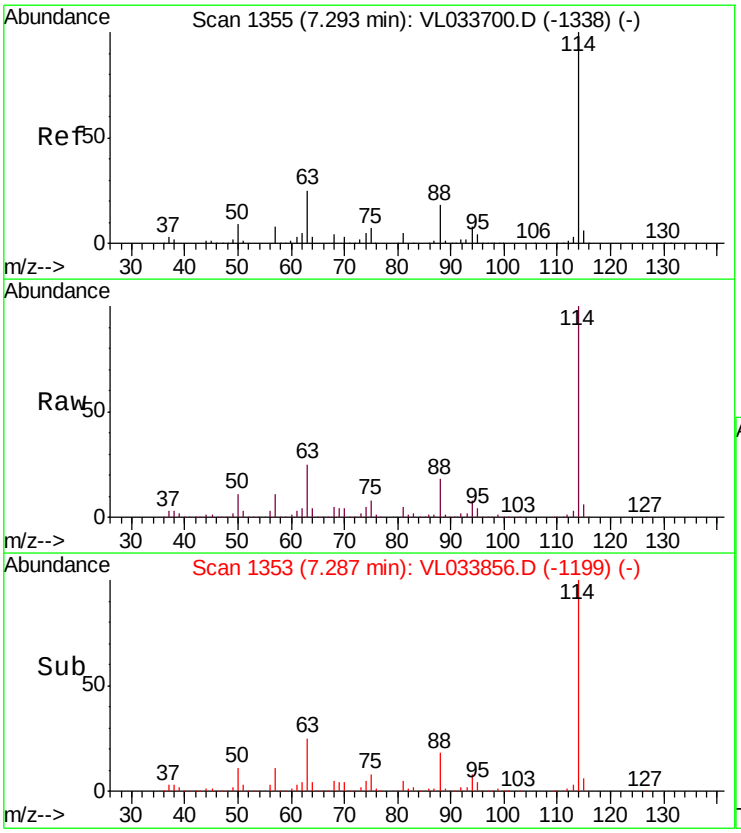
#31
cis-1,2-Dichloroethene
Concen: 0.047 ppbv
RT: 5.76 min Scan# 878
Delta R.T. 0.12 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 61 Resp: 3502

Ion	Ratio	Lower	Upper
61	100		
96	5.1	50.8	76.2#
98	0.0	33.3	49.9#

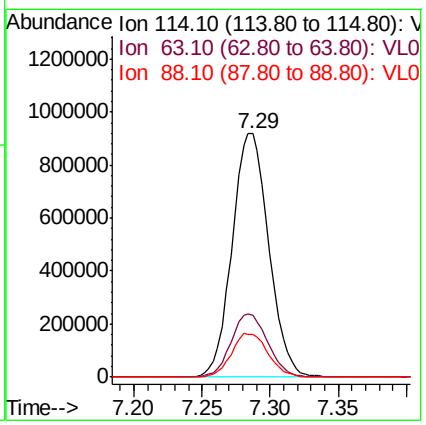


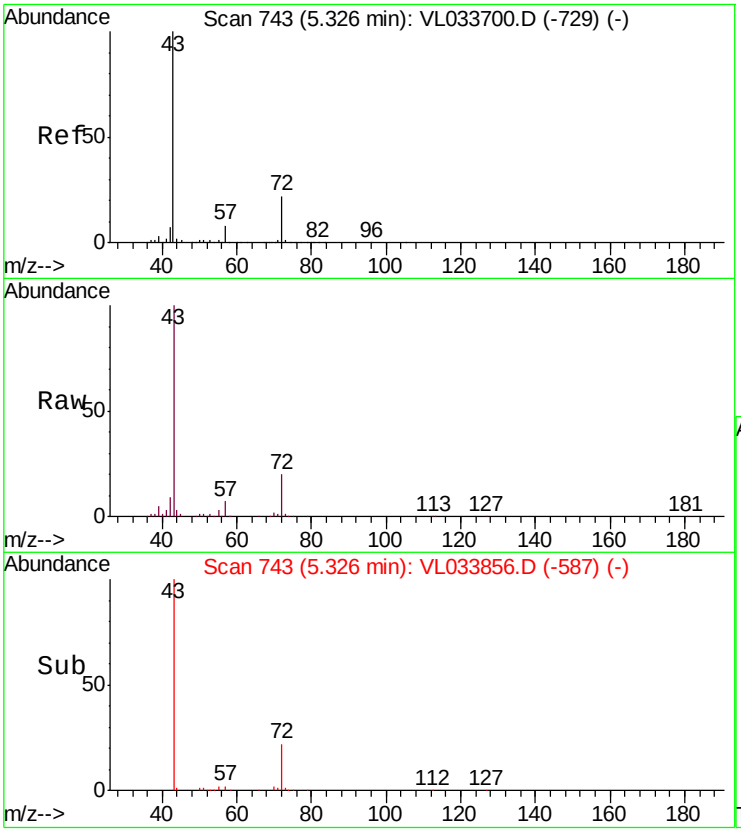


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion:114 Resp: 1706577

Ion	Ratio	Lower	Upper
114	100		
63	26.2	20.9	31.3
88	18.0	14.3	21.5



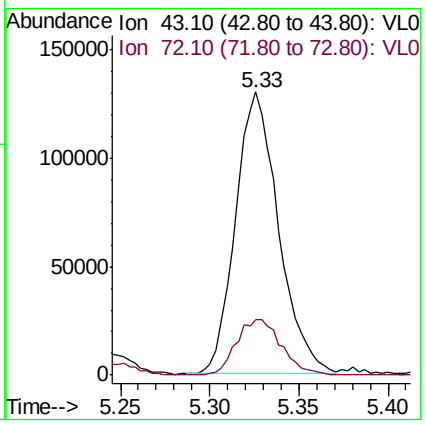


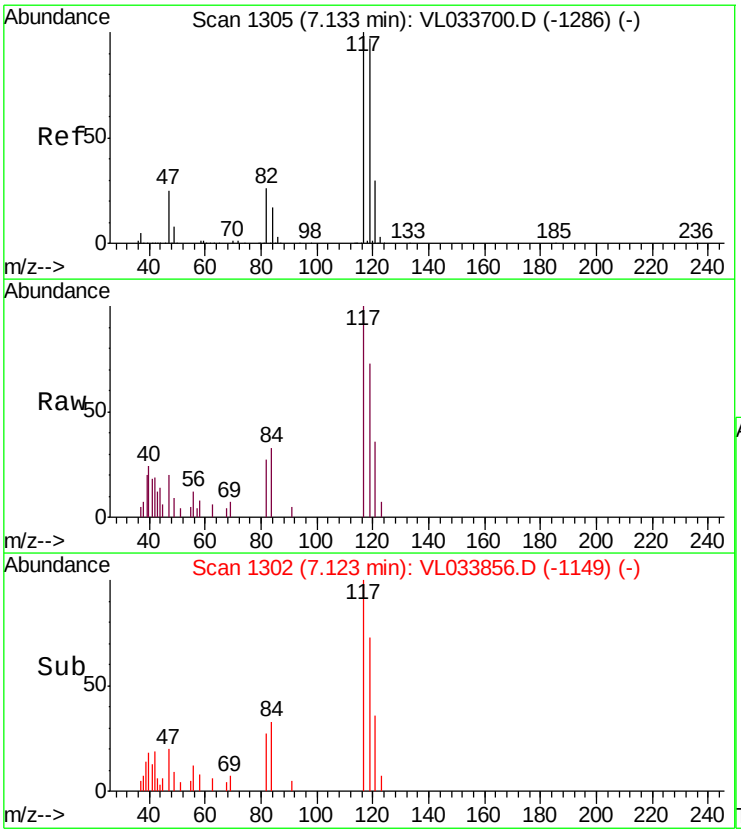
#34
2-Butanone
Concen: 2.064 ppbv
RT: 5.33 min Scan# 743
Delta R.T. 0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 43 Resp: 218379

Ion	Ratio	Lower	Upper
43	100		
72	20.8	17.8	26.6

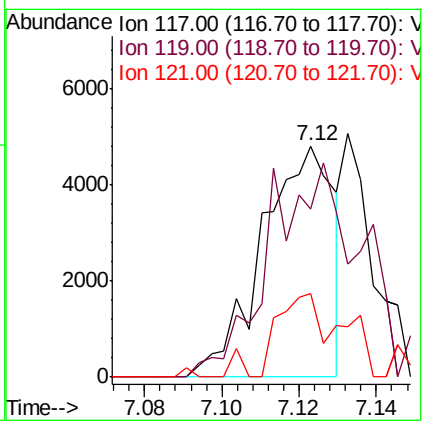


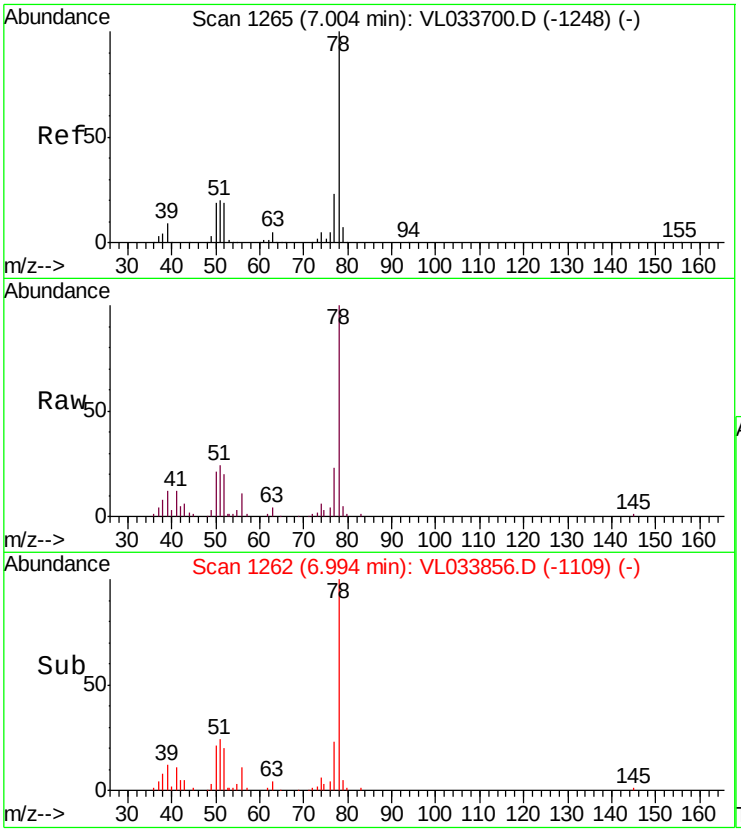


#35
Carbon Tetrachloride
Concen: 0.045 ppbv
RT: 7.12 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion:117 Resp: 6164

Ion	Ratio	Lower	Upper
117	100		
119	72.8	77.2	115.8#
121	31.7	24.1	36.1



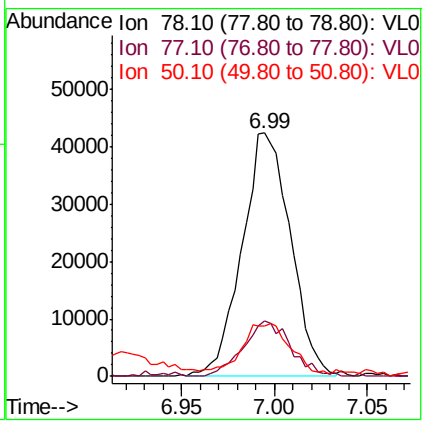


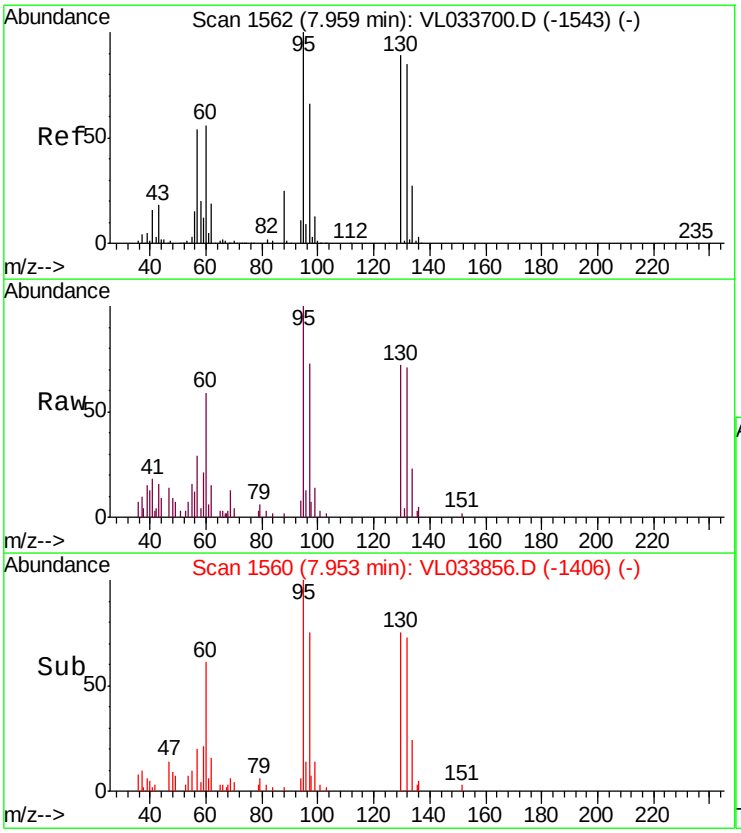
#36
Benzene
Concen: 0.497 ppbv
RT: 6.99 min Scan# 1262
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 78 Resp: 77170

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.4	27.6
50	17.9	15.5	23.3

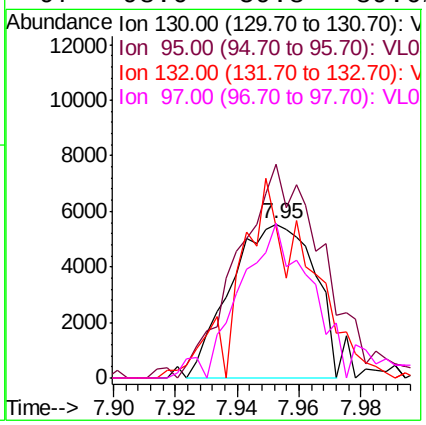


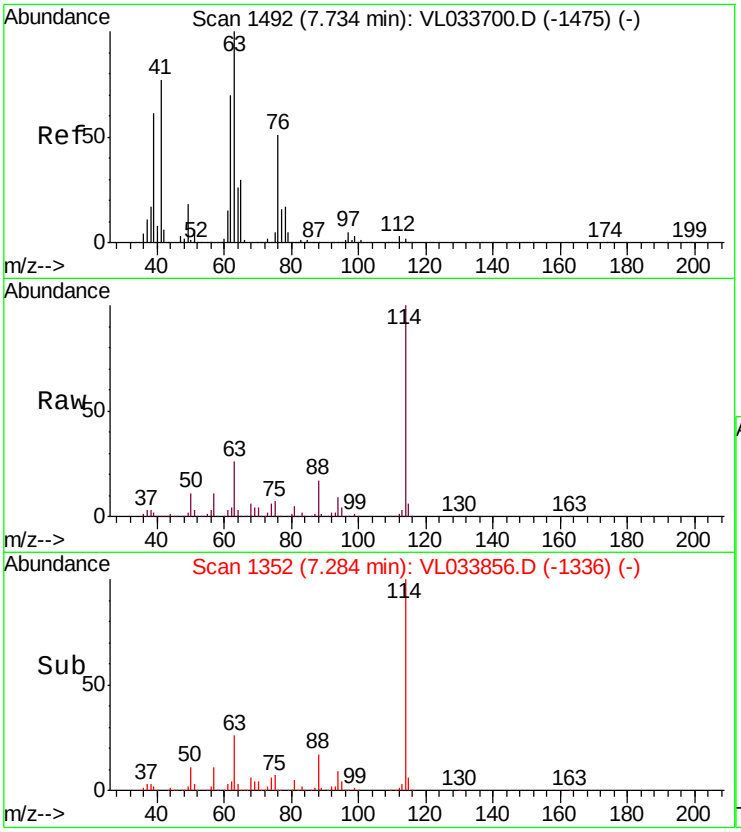


#38
Trichloroethene
Concen: 0.181 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion:130 Resp: 10409

Ion	Ratio	Lower	Upper
130	100		
95	129.9	90.2	135.4
132	89.6	76.4	114.6
97	98.0	59.8	89.6#



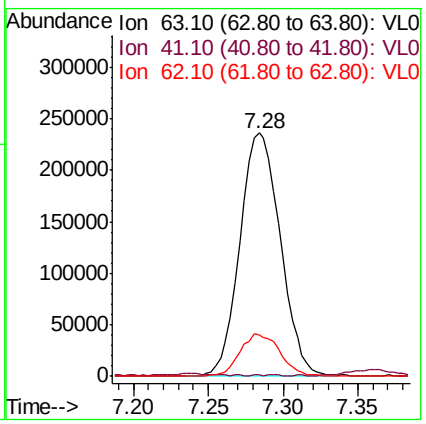


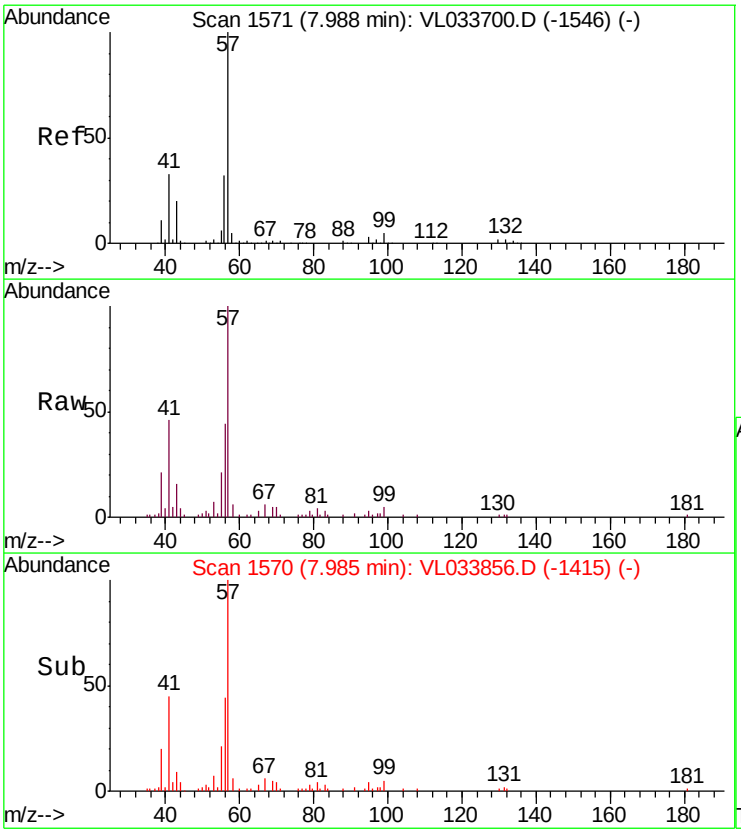
#39
1,2-Dichloropropane
Concen: 7.682 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.45 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument : MSVOA_L
ClientSampleId : SG-4-20190523-0

Tgt Ion: 63 Resp: 444622

Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.5	92.3#
62	17.1	56.2	84.4#

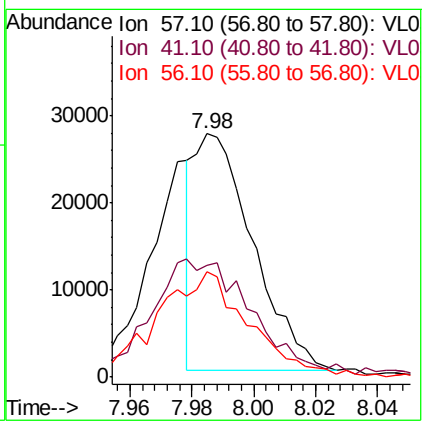


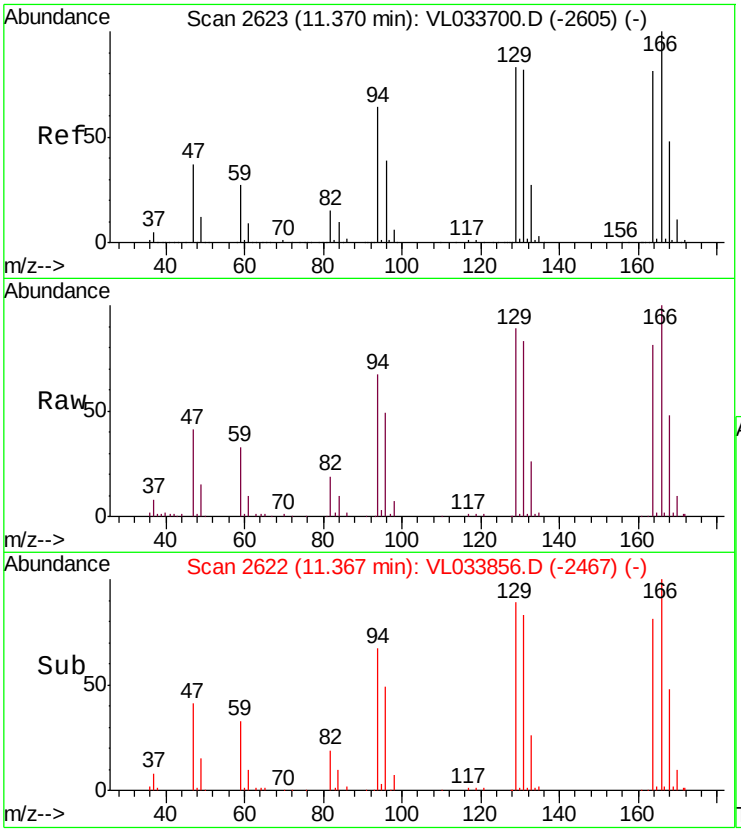


#44
2,2,4-Trimethylpentane
Concen: 0.135 ppbv
RT: 7.98 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 57 Resp: 35412

Ion	Ratio	Lower	Upper
57	100		
41	91.1	25.4	38.0#
56	72.6	24.7	37.1#



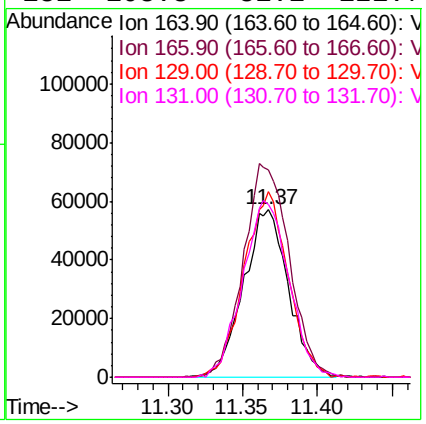


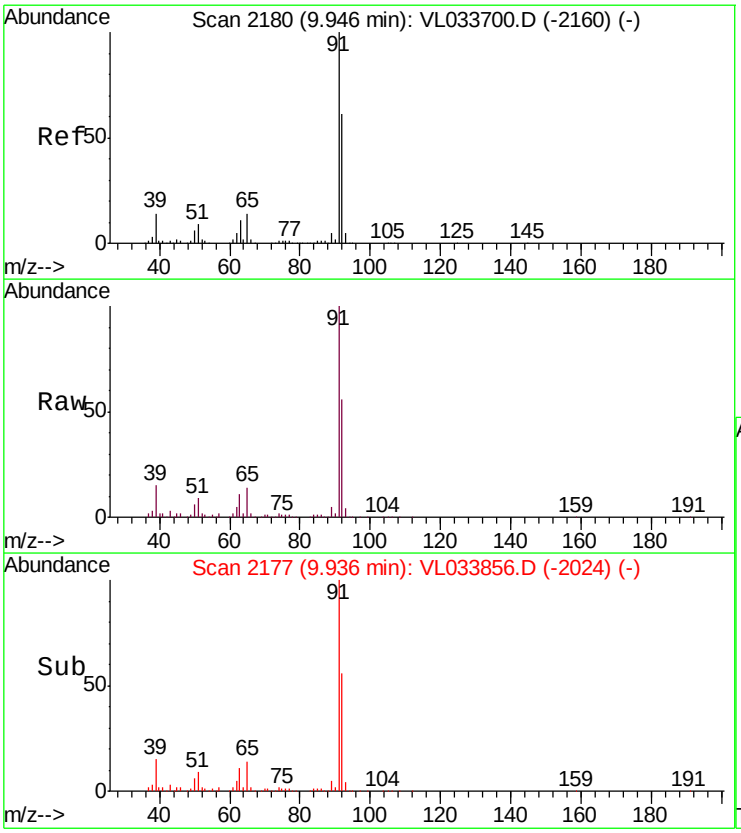
#52
Tetrachloroethene
Concen: 2.188 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument : MSVOA_L
ClientSampleId : SG-4-20190523-0

Tgt Ion:164 Resp: 119377

Ion	Ratio	Lower	Upper
164	100		
166	123.5	98.9	148.3
129	110.5	81.8	122.6
131	103.3	81.1	121.7

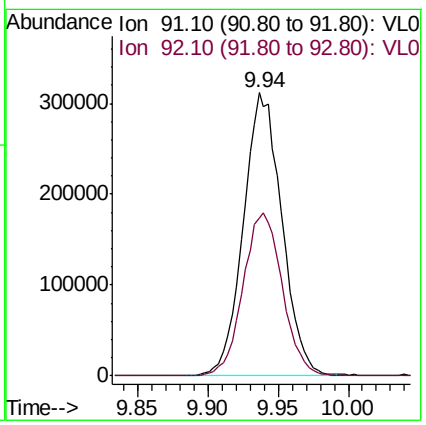


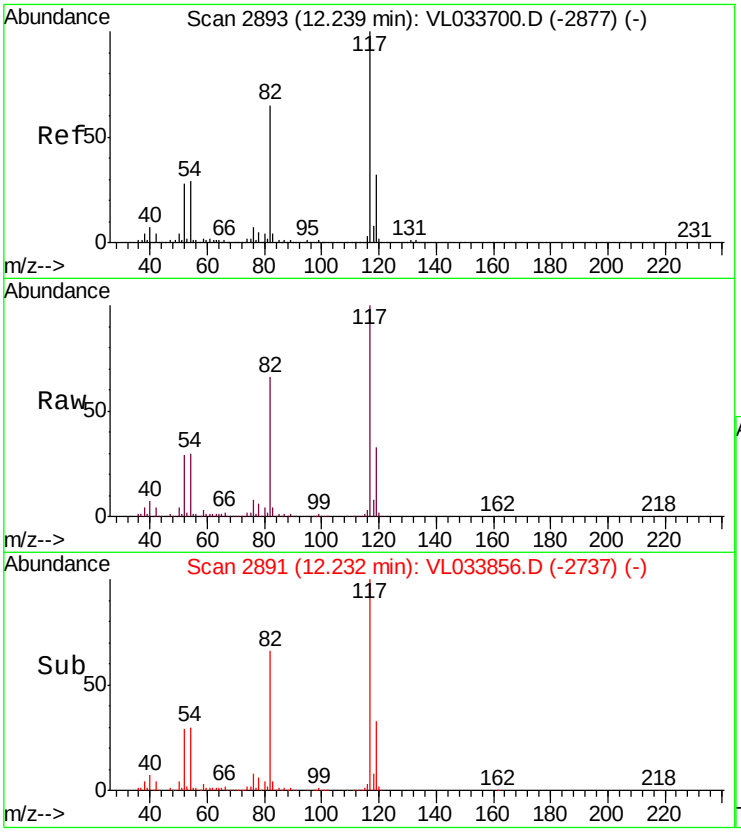


#53
Toluene
Concen: 3.554 ppbv
RT: 9.94 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 91 Resp: 595133

Ion	Ratio	Lower	Upper
91	100		
92	58.9	47.6	71.4



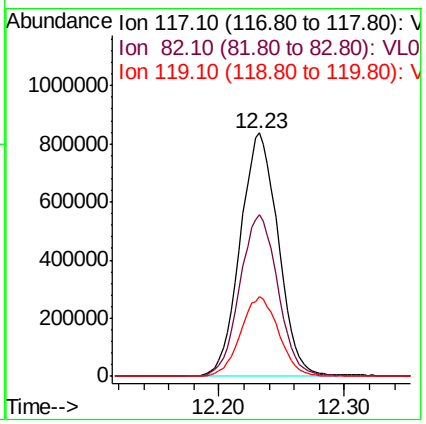


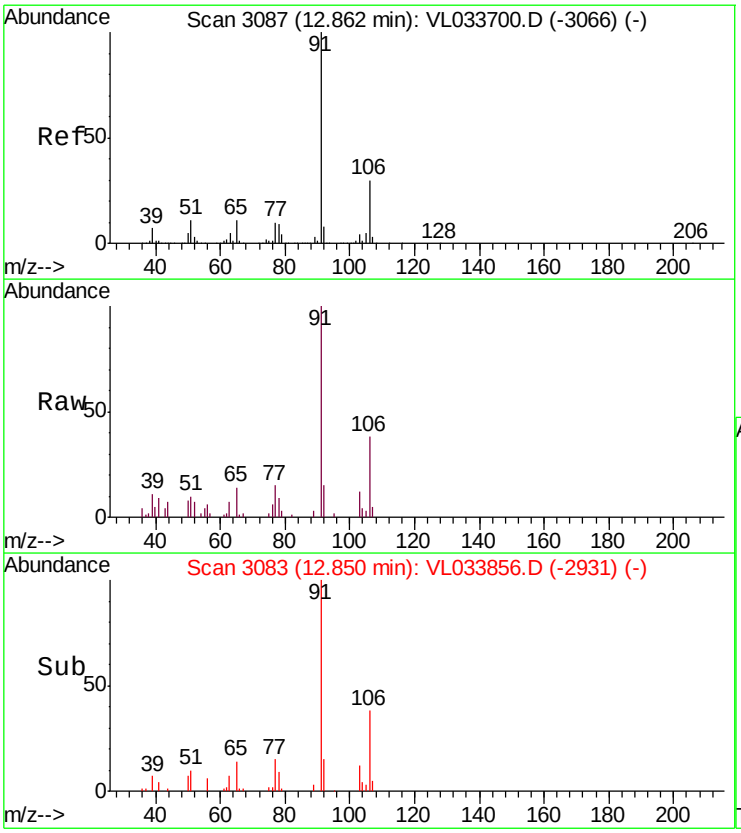
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument : MSVOA_L
ClientSampleId : SG-4-20190523-0

Tgt Ion:117 Resp: 1766336

Ion	Ratio	Lower	Upper
117	100		
82	66.8	49.4	74.0
119	32.8	24.9	37.3

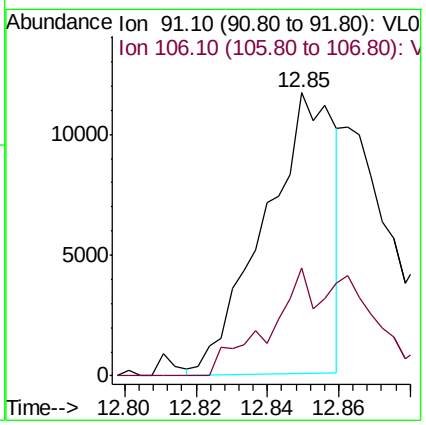


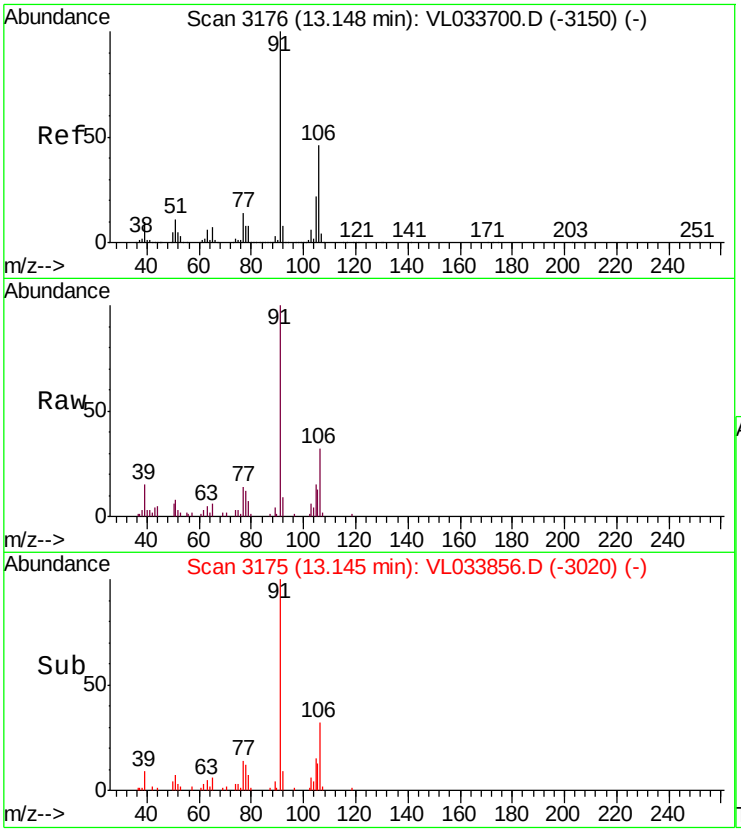


#58
Ethyl Benzene
Concen: 0.068 ppbv
RT: 12.85 min Scan# 3083
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 91 Resp: 15850

Ion	Ratio	Lower	Upper
91	100		
106	34.0	23.9	35.9



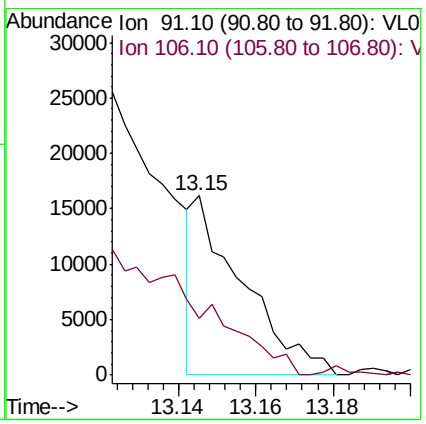


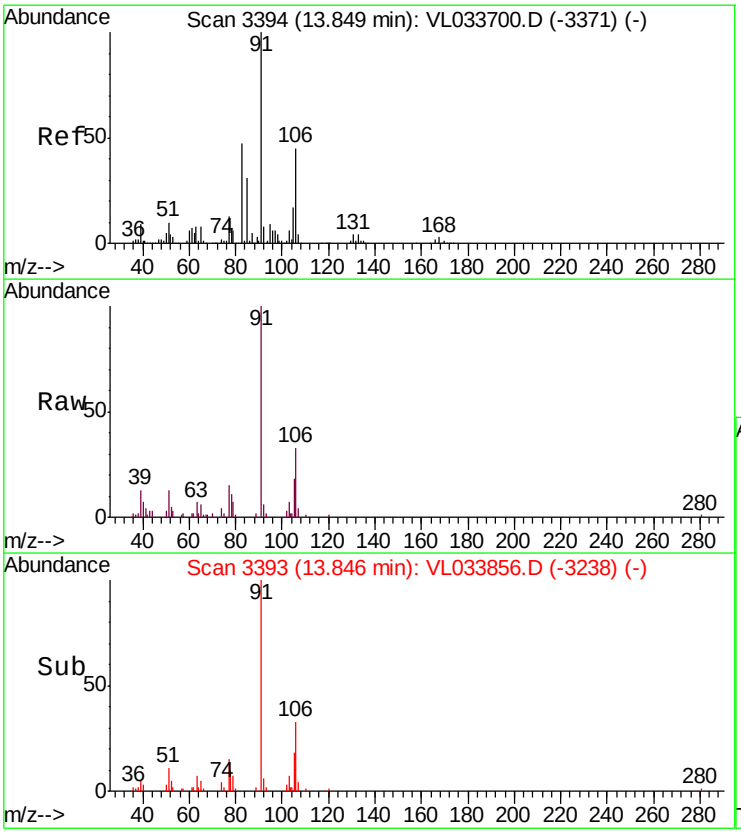
#59
m/p-Xylene
Concen: 0.070 ppbv
RT: 13.15 min Scan# 3175
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion: 91 Resp: 14279

Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.8	53.6#

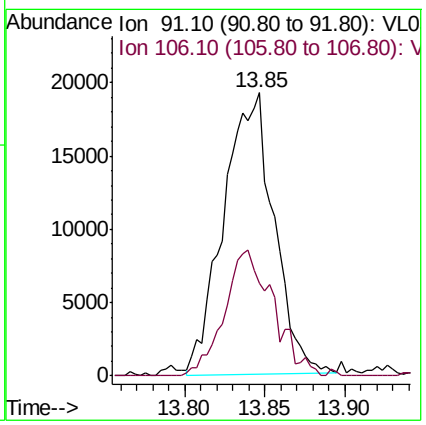


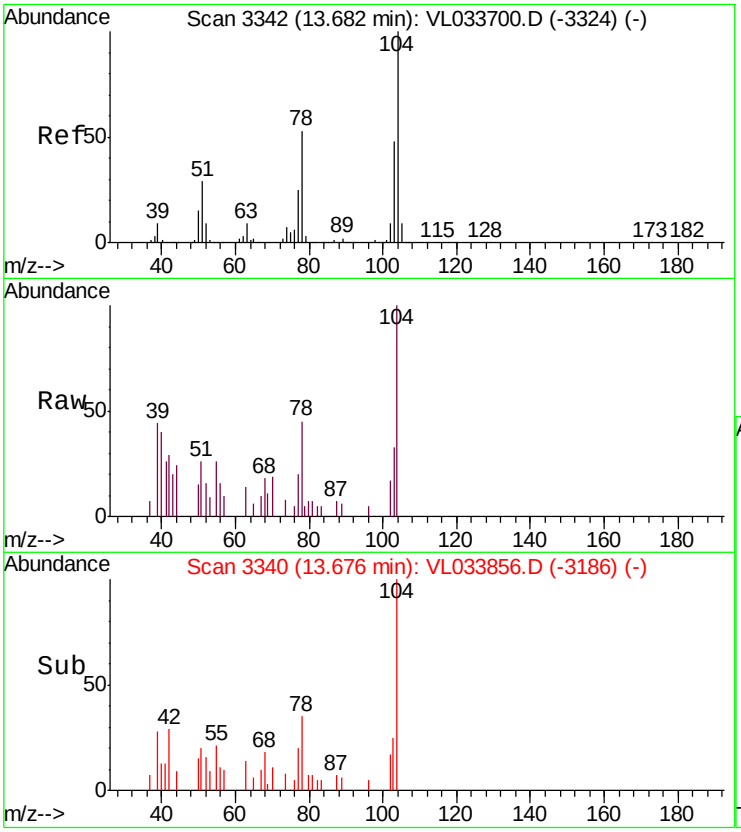


#60
o-Xylene
Concen: 0.202 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 91 Resp: 41565

Ion	Ratio	Lower	Upper
91	100		
106	43.4	21.6	64.8



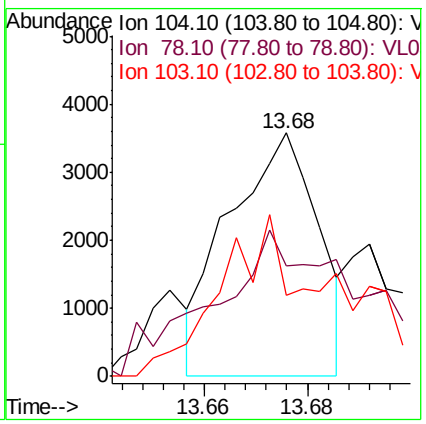


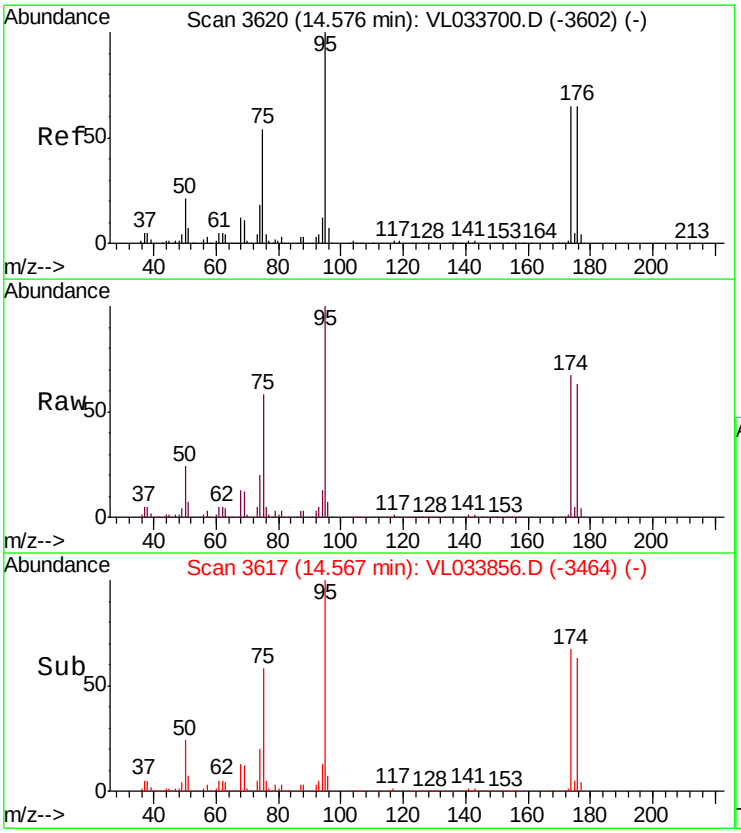
#61
Styrene
Concen: 0.031 ppbv
RT: 13.68 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument : MSVOA_L
ClientSampleId : SG-4-20190523-0

Tgt Ion:104 Resp: 4303

Ion	Ratio	Lower	Upper
104	100		
78	108.6	42.6	64.0#
103	88.1	37.8	56.6#

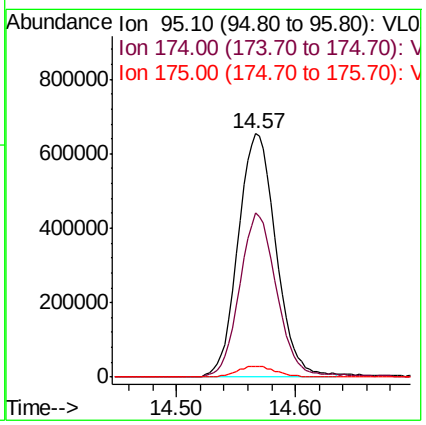


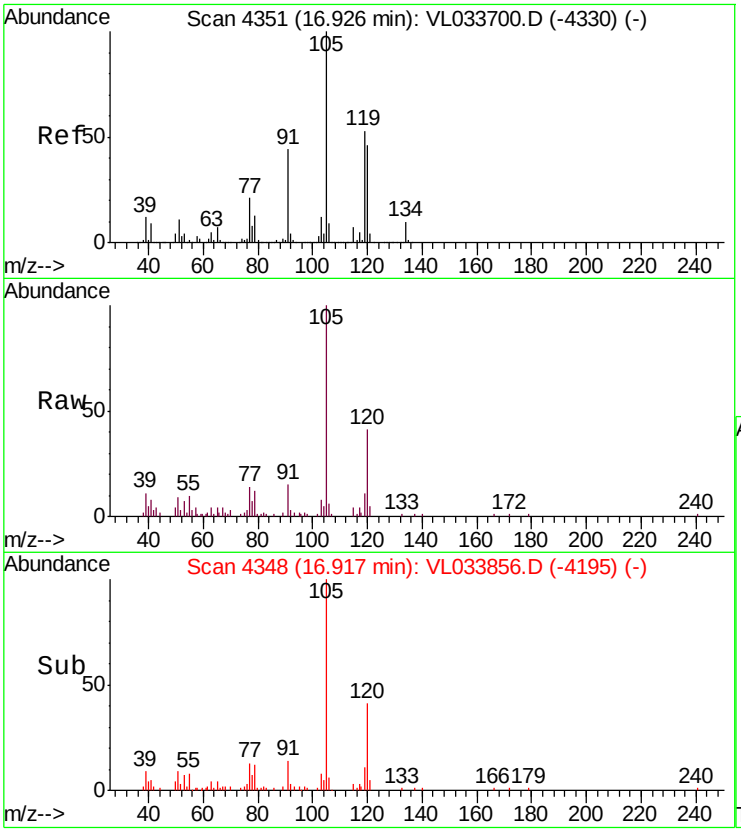


#68
1-Bromo-4-Fluorobenzene
Concen: 10.072 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Tgt Ion: 95 Resp: 1442175

Ion	Ratio	Lower	Upper
95	100		
174	66.7	53.9	80.9
175	4.7	3.8	5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.233 ppbv
RT: 16.92 min Scan# 4348
Delta R.T. -0.01 min
Lab File: VL033856.D
Acq: 30 May 2019 4:54

Instrument :
MSVOA_L
ClientSampleId :
SG-4-20190523-0

Tgt Ion:105 Resp: 58306

Ion	Ratio	Lower	Upper
105	100		
120	41.0	36.8	55.2
91	14.0	35.4	53.0#
77	12.0	16.8	25.2#