Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035052.D
Acq On : 19 May 2020 20:18
Operator : SY/AP
Sample : L2683-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId :

Quant Time: May 20 04:46:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	5.64	49	1138637	10.00 ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2577000	10.00 ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2434510	10.00 ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2098945	10.65 ppbv	-0.03

Spiked Amount 10.000 Range 65 - 135 Recovery = 106.50%

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
3) Chlorodifluoromethane	2.94	51	100137	0.770 ppbv #	91
4) Chloromethane	3.09	50	41509	0.557 ppbv #	88
9) Propene	2.97	41	193069	3.423 ppbv #	66
11) Trichlorofluoromethane	3.91	101	44899	0.269 ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.45	101	6366	0.054 ppbv #	66
13) Ethanol	3.57	45	4785832	257.100 ppbv	96
15) Acetone	3.80	43	1607932	10.682 ppbv	100
16) 1,3-Butadiene	3.31	39	97676	1.508 ppbv #	11
19) Isopropyl Alcohol	3.94	45	360755	3.594 ppbv #	94
20) Methylene Chloride	4.31	84	115518	2.318 ppbv	84
21) Allyl Chloride	4.30	41	5221	0.061 ppbv #	49
23) Vinyl Acetate	5.03	43	62742	0.329 ppbv #	77
25) Ethyl Acetate	5.65	43	53337	0.211 ppbv #	85
26) Hexane	5.66	57	129445	1.181 ppbv #	50
29) Chloroform	5.72	83	42872	0.239 ppbv #	72
31) cis-1,2-Dichloroethene	5.53	61	5953	0.056 ppbv #	73
34) 2-Butanone	5.22	43	78022	0.487 ppbv	100
35) Carbon Tetrachloride	7.00	117	5395	0.033 ppbv	98
36) Benzene	6.88	78	13830	0.065 ppbv	97
39) 1,2-Dichloropropane	7.16	63	717298	8.422 ppbv #	24
52) Tetrachloroethene	11.23	164	42280	0.560 ppbv	88
53) Toluene	9.81	91	279487	1.241 ppbv	98

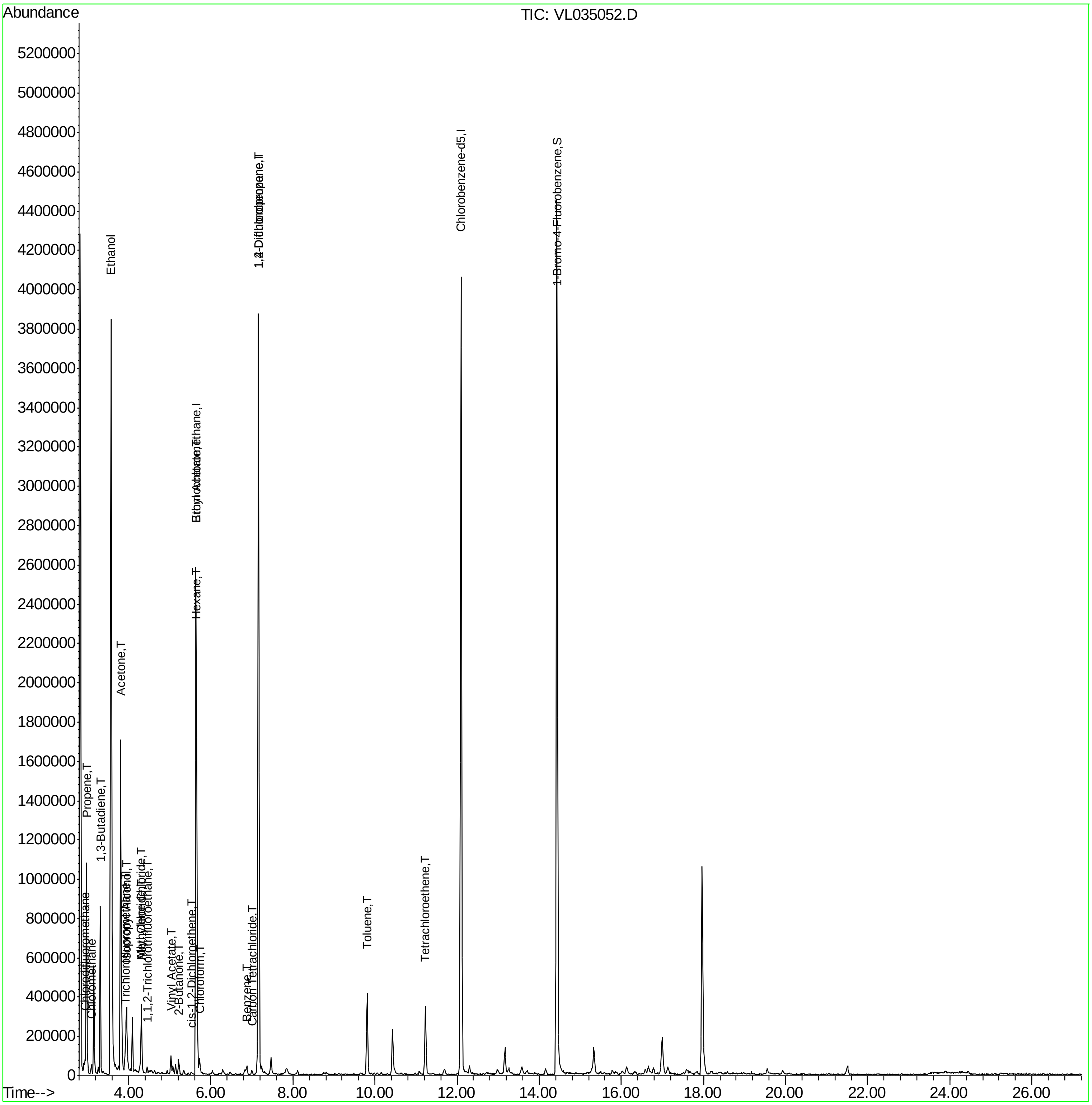
(#) = qualifier out of range (m) = manual integration (+) = signals summed

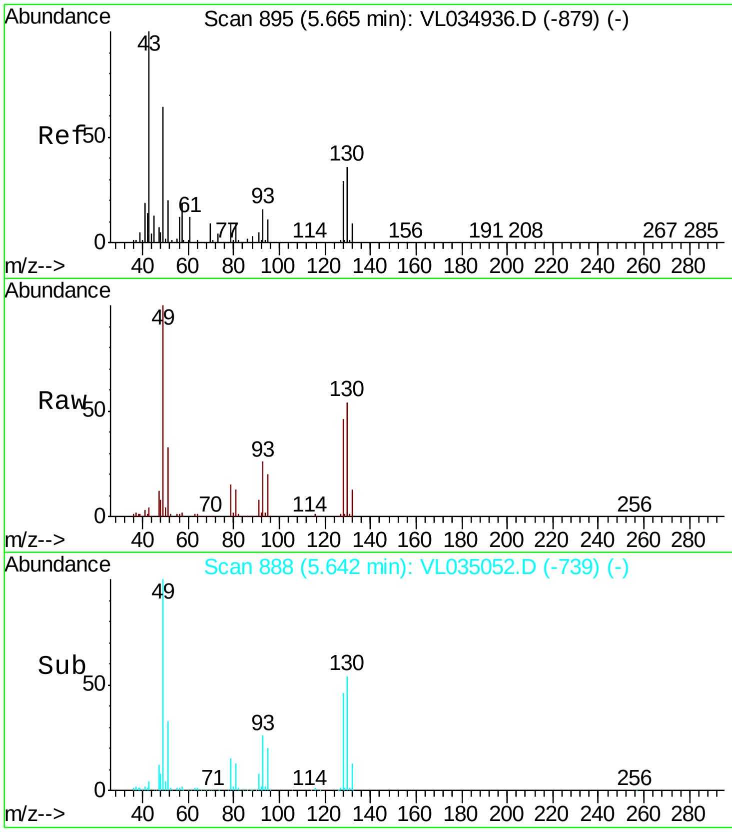
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035052.D
Acq On : 19 May 2020 20:18
Operator : SY/AP
Sample : L2683-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: May 20 04:46:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration



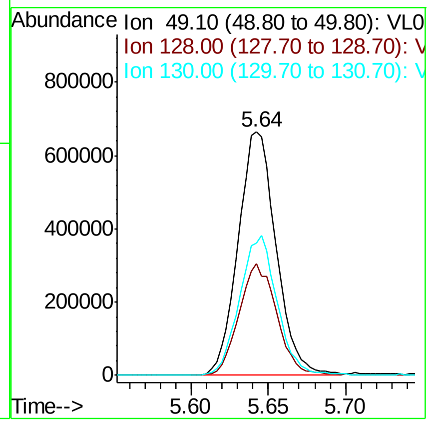


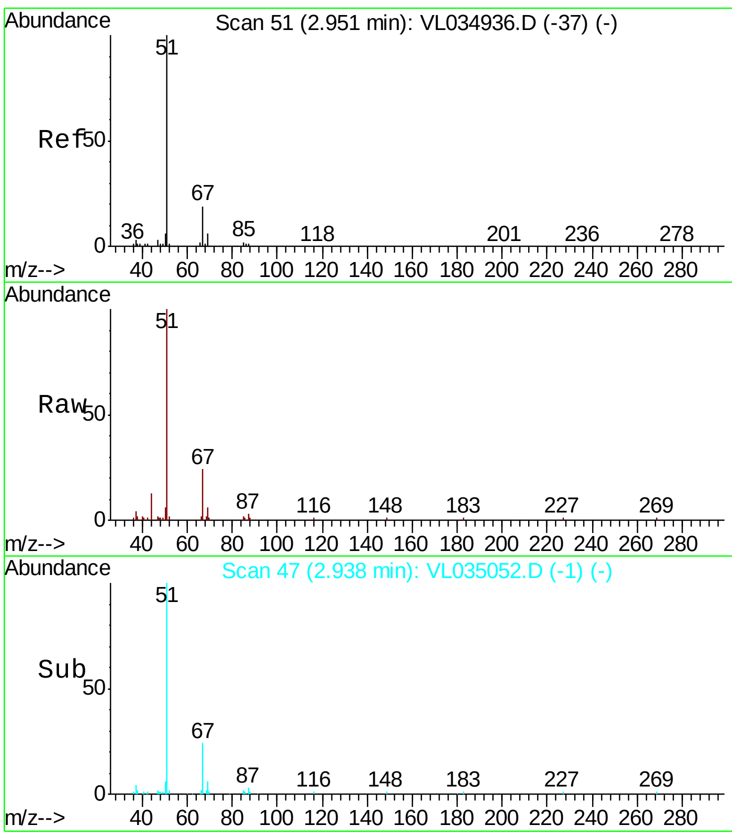
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.64 min Scan# 888
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 1138637

Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.1	66.5
130	57.2	29.1	87.3

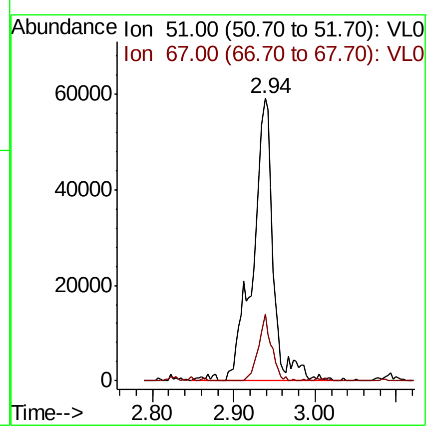


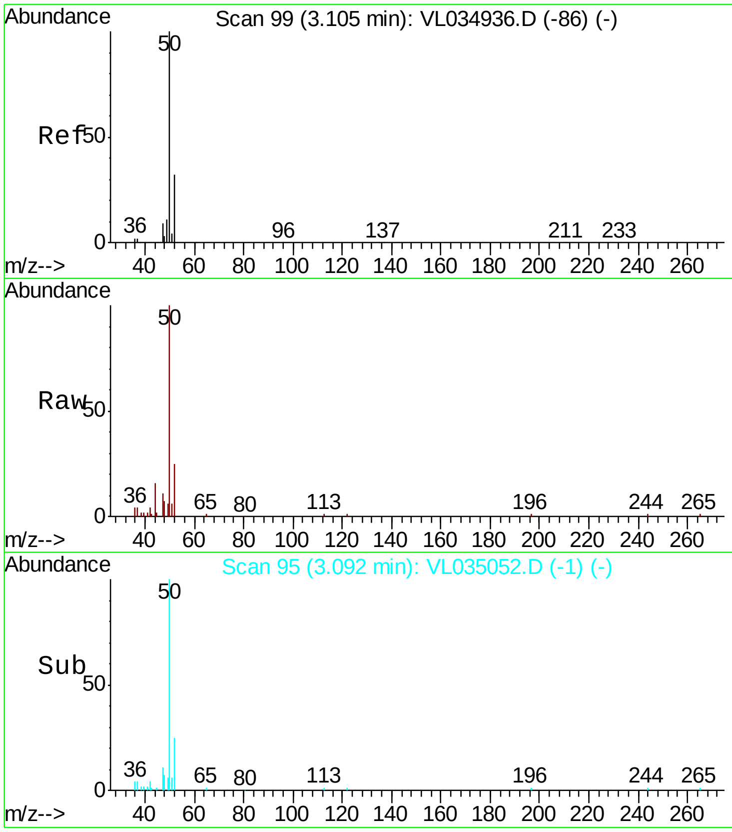


#3
Chlorodifluoromethane
Concen: 0.770 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 51 Resp: 100137

Ion	Ratio	Lower	Upper
51	100		
67	14.9	15.0	22.6#



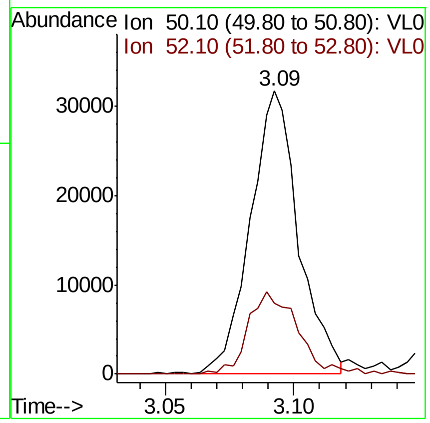


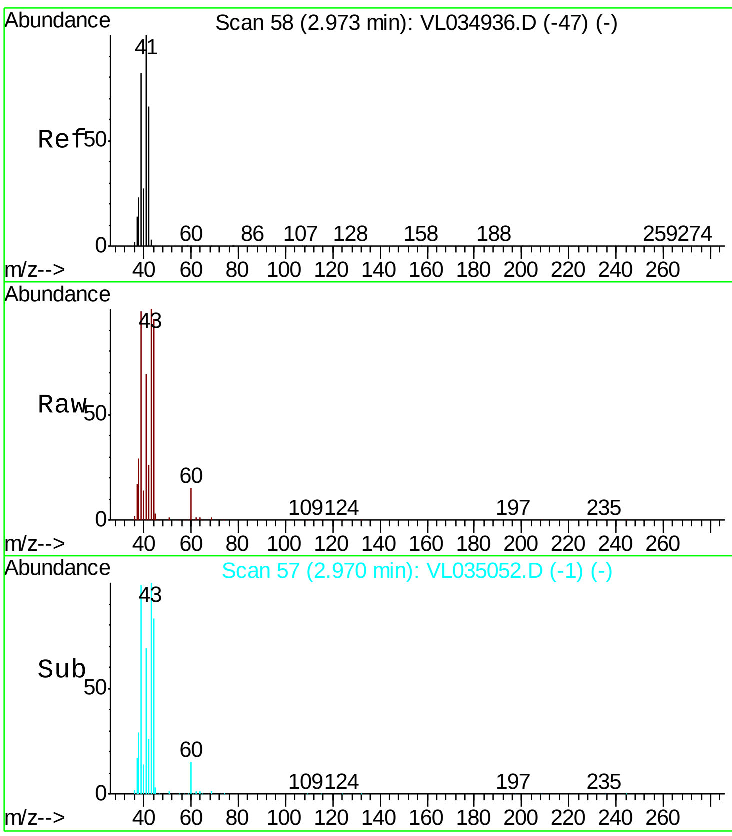
#4
Chloromethane
Concen: 0.557 ppbv
RT: 3.09 min   Scan# 95
Delta R.T.   -0.01 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 50 Resp: 41509

Ion	Ratio	Lower	Upper
50	100		
52	25.3	25.4	38.2#

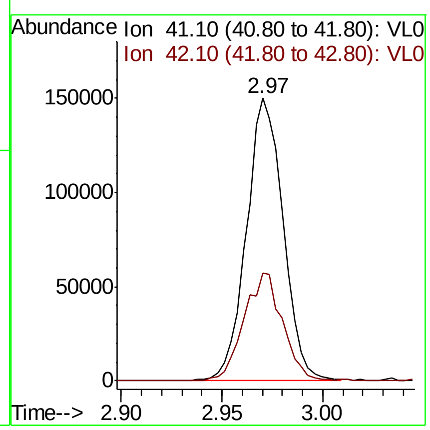


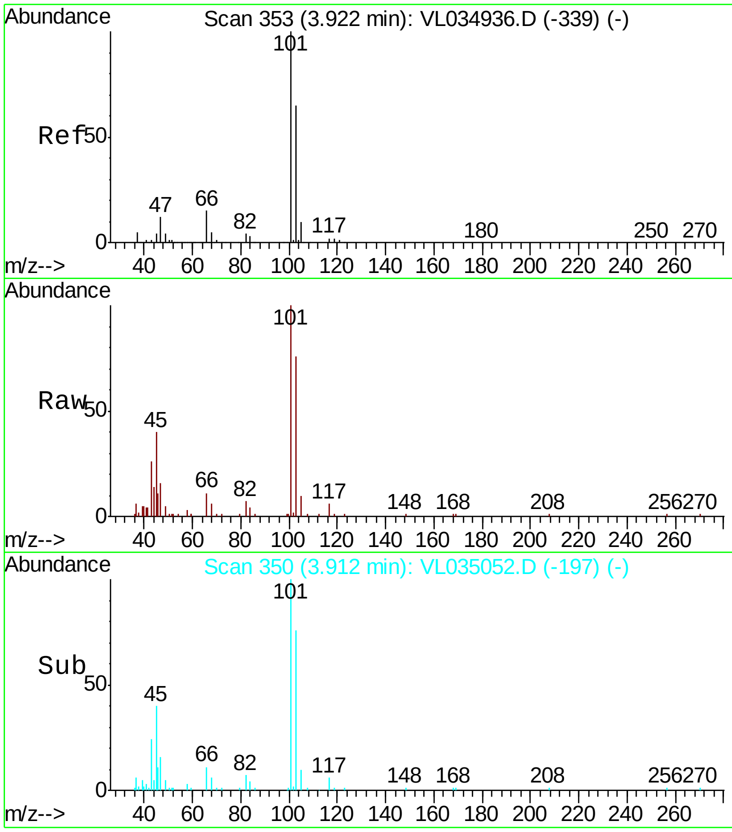


#9
Propene
Concen: 3.423 ppbv
RT: 2.97 min   Scan# 57
Delta R.T.   -0.00 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 41 Resp: 193069

Ion	Ratio	Lower	Upper
41	100		
42	40.3	54.5	81.7#



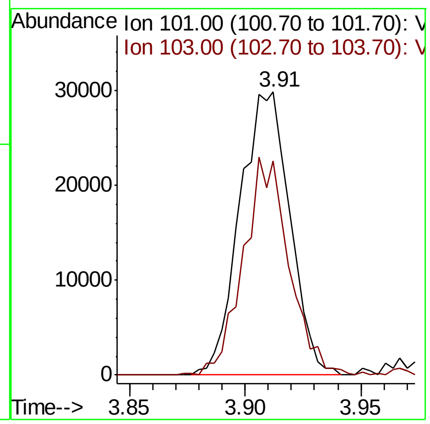


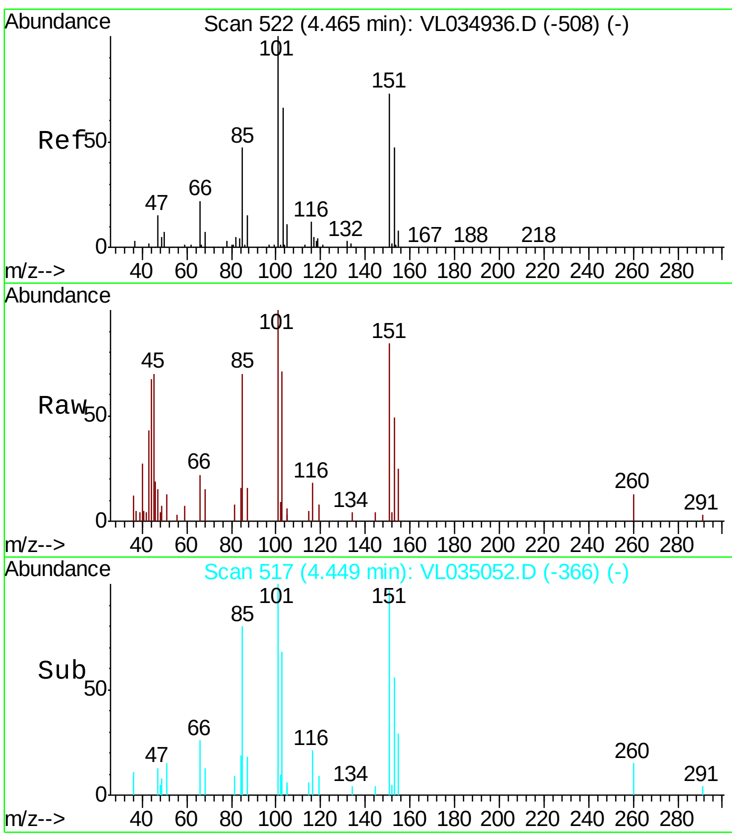
#11
Trichlorofluoromethane
Concen: 0.269 ppbv
RT: 3.91 min Scan# 350
Delta R.T. -0.01 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 44899

Ion	Ratio	Lower	Upper
101	100		
103	75.0	51.9	77.9

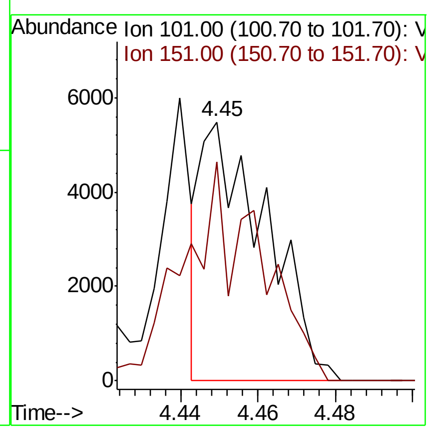




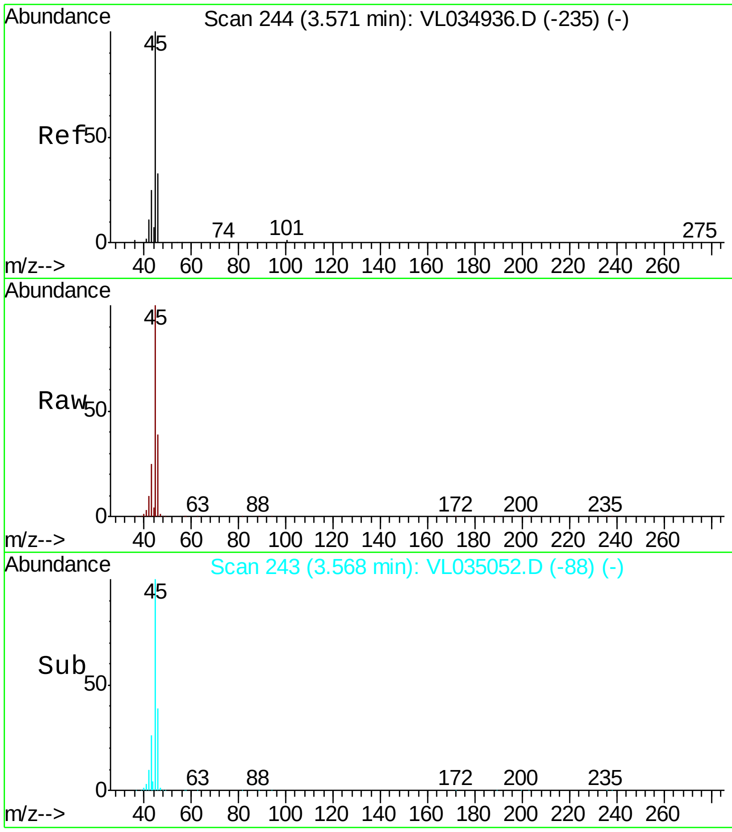
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.054 ppbv
RT: 4.45 min Scan# 517
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion:101 Resp: 6366

Ion	Ratio	Lower	Upper
101	100		
151	100.5	57.6	86.4#



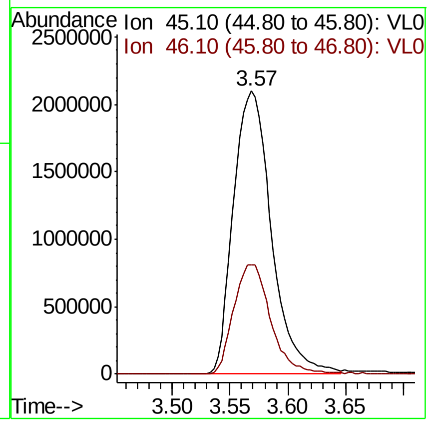
Instrument : MSVOA_L
ClientSampleId :

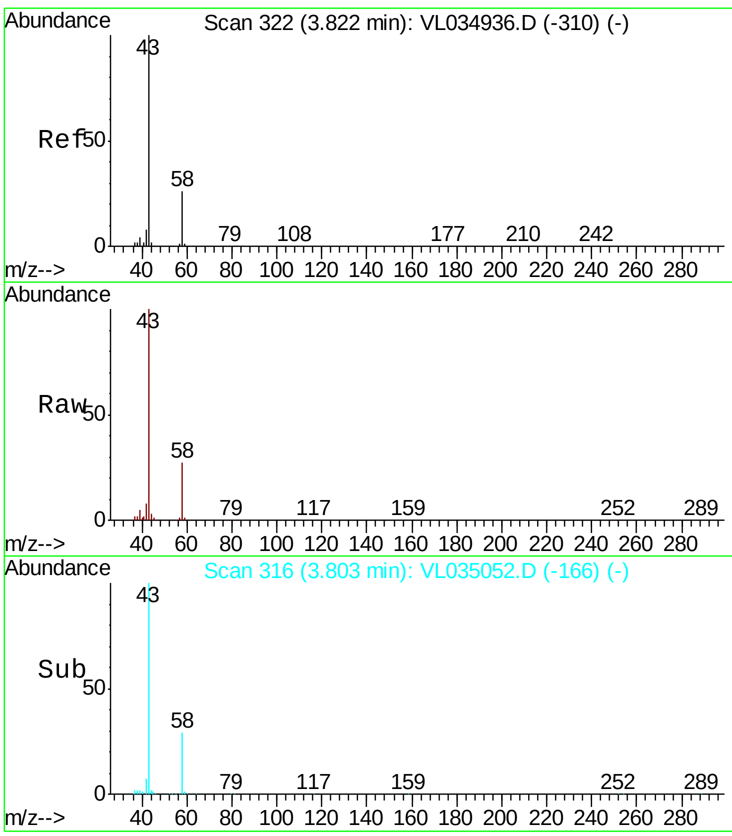


#13
Ethanol
Concen: 257.100 ppbv
RT: 3.57 min Scan# 243
Delta R.T.   -0.00 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 45 Resp: 4785832

Ion	Ratio	Lower	Upper
45	100		
46	38.0	14.3	57.3

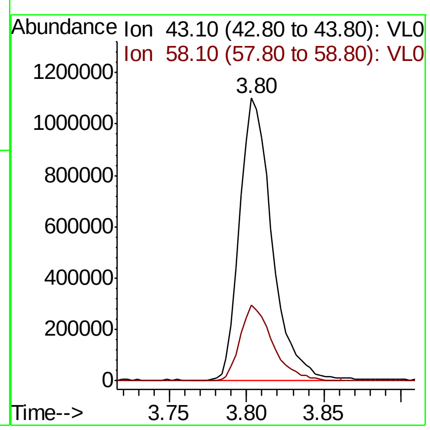


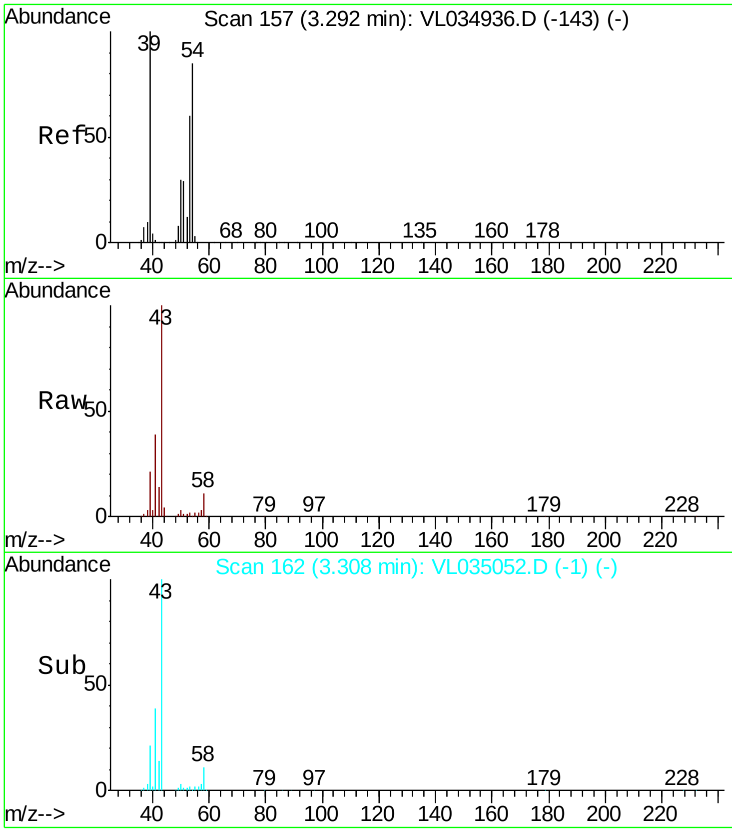


#15
Acetone
Concen: 10.682 ppbv
RT: 3.80 min Scan# 316
Delta R.T.   -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 43 Resp: 1607932

Ion	Ratio	Lower	Upper
43	100		
58	27.2	21.7	32.5



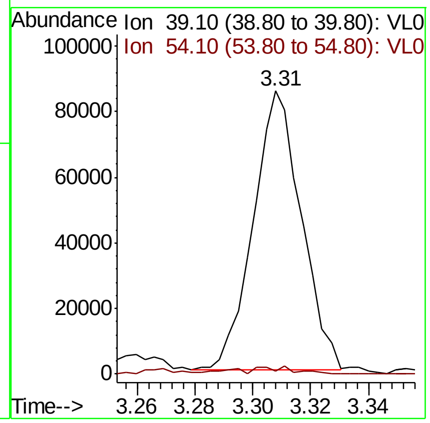


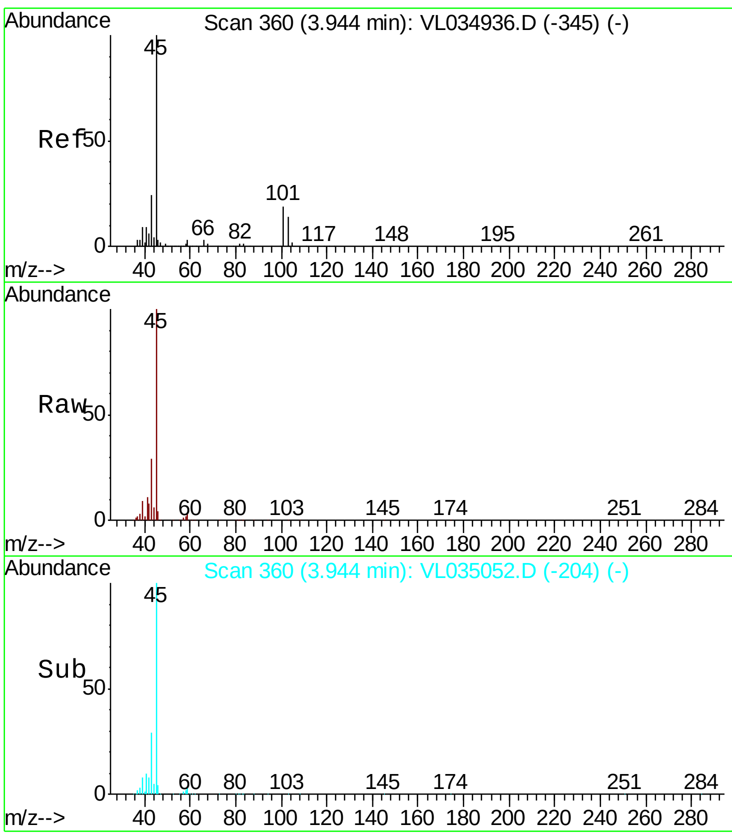
#16
1,3-Butadiene
Concen: 1.508 ppbv
RT: 3.31 min Scan# 162
Delta R.T. 0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 39 Resp: 97676

Ion	Ratio	Lower	Upper
39	100		
54	3.2	66.6	100.0#

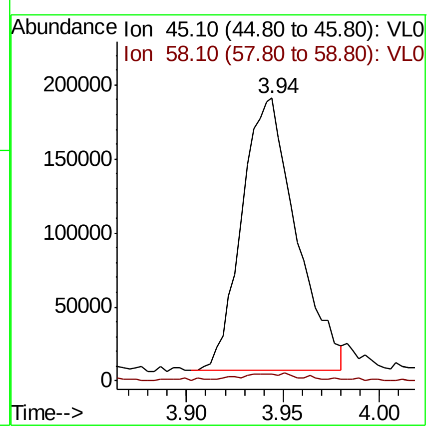




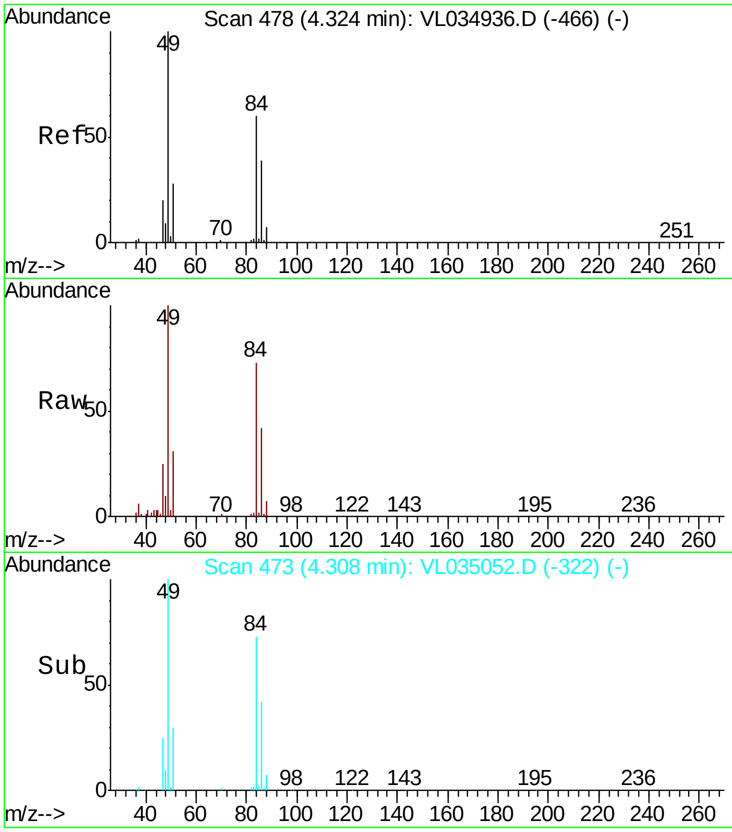
#19
Isopropyl Alcohol
Concen: 3.594 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 45 Resp: 360755

Ion	Ratio	Lower	Upper
45	100		
58	4.1	1.7	2.5#



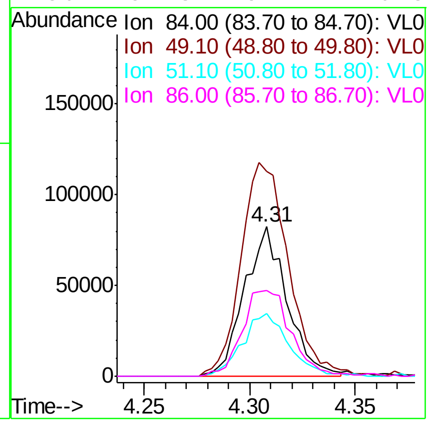
Instrument :
MSVOA_L
ClientSampleId :

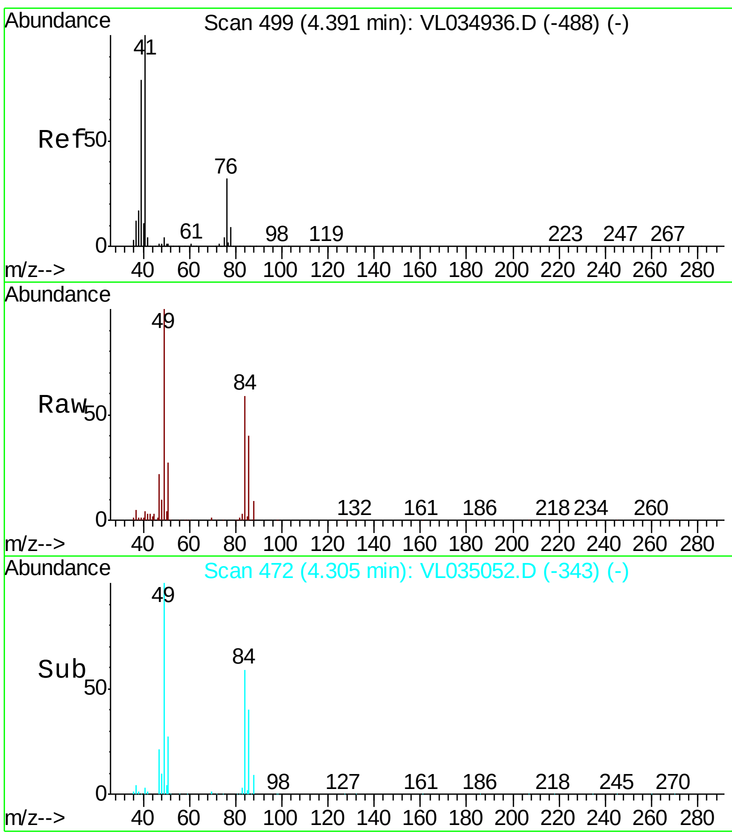


#20
Methylene Chloride
Concen: 2.318 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 84 Resp: 115518

Ion	Ratio	Lower	Upper
84	100		
49	137.4	132.5	198.7
51	42.2	38.4	57.6
86	57.3	51.2	76.8

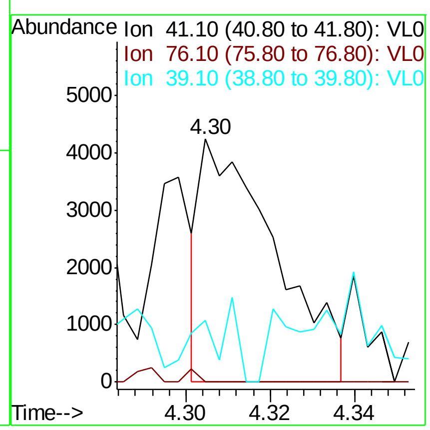




#21
Allyl Chloride
Concen: 0.061 ppbv
RT: 4.30 min Scan# 472
Delta R.T. -0.09 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

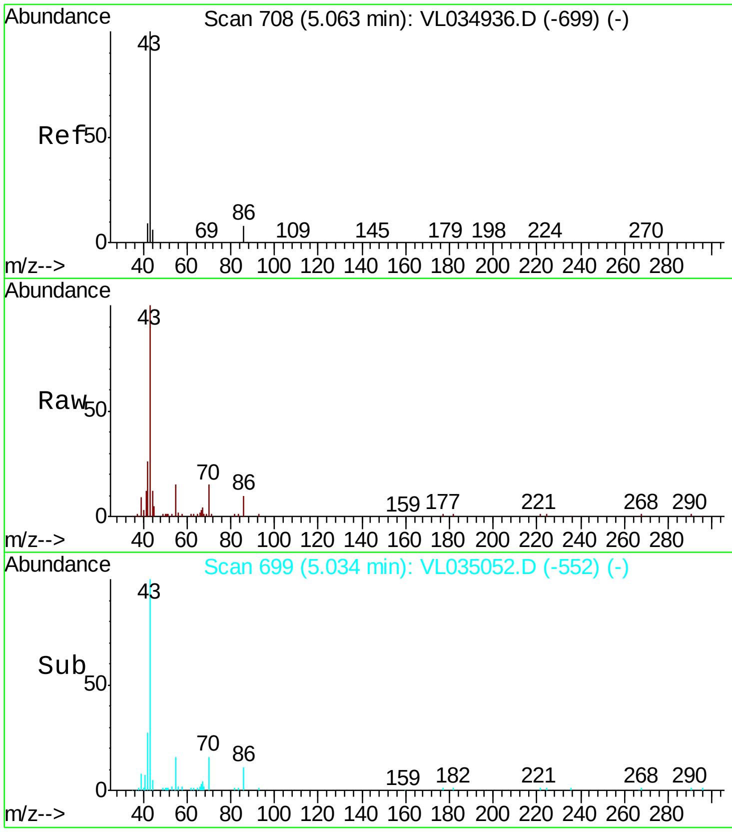
Tgt Ion: 41 Resp: 5221

Ion	Ratio	Lower	Upper
41	100		
76	3.0	23.6	35.4#
39	32.4	61.9	92.9#

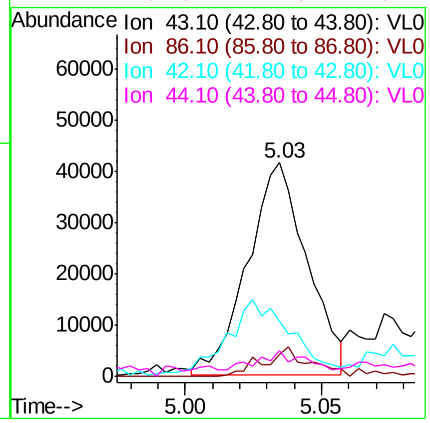


#23
Vinyl Acetate
Concen: 0.329 ppbv
RT: 5.03 min Scan# 699
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

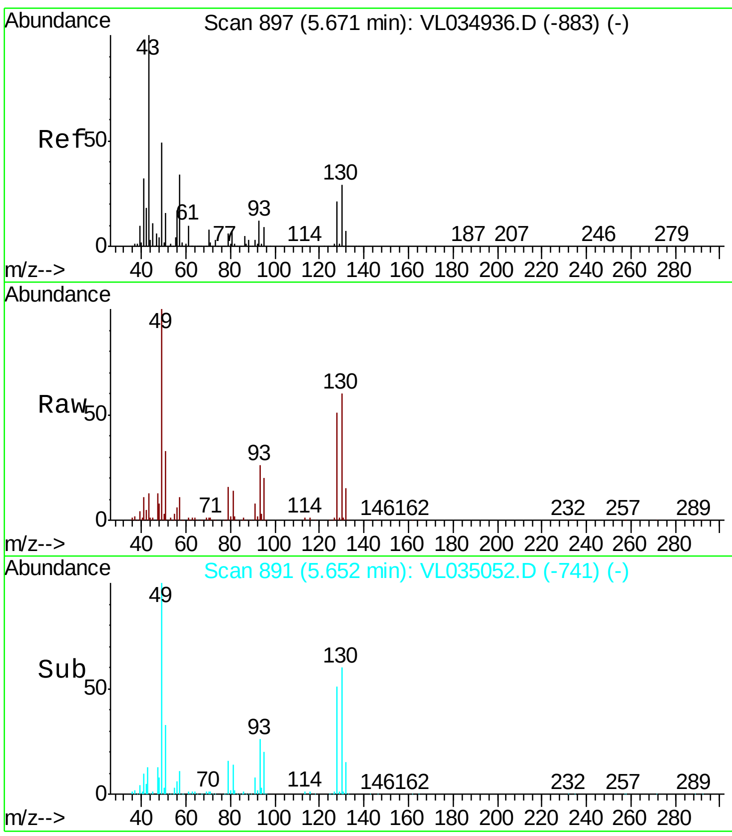
Instrument :
MSVOA_L
ClientSampleId :



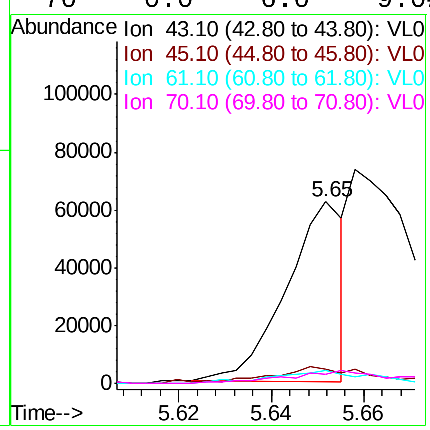
Tgt	Ion: 43	Resp:	62742
Ion	Ratio	Lower	Upper
43	100		
86	11.1	5.5	8.3#
42	23.6	8.0	12.0#
44	9.6	4.5	6.7#

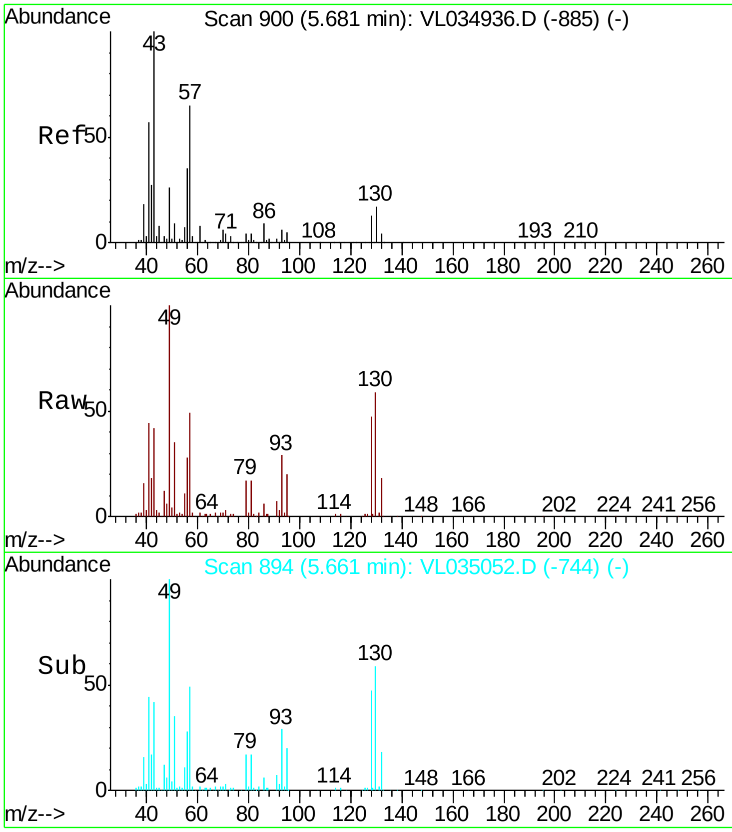


#25
Ethyl Acetate
Concen: 0.211 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18



Tgt	Ion: 43	Resp:	53337
Ion	Ratio	Lower	Upper
43	100		
45	16.4	8.1	12.1#
61	12.4	7.8	11.8#
70	0.0	6.0	9.0#



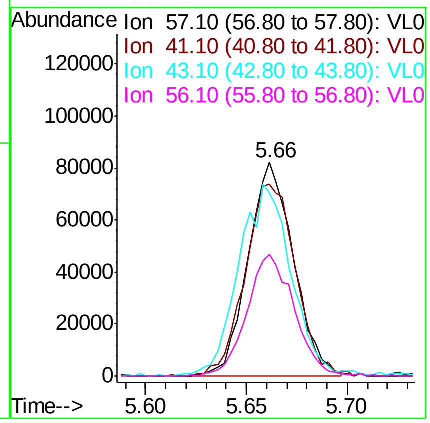


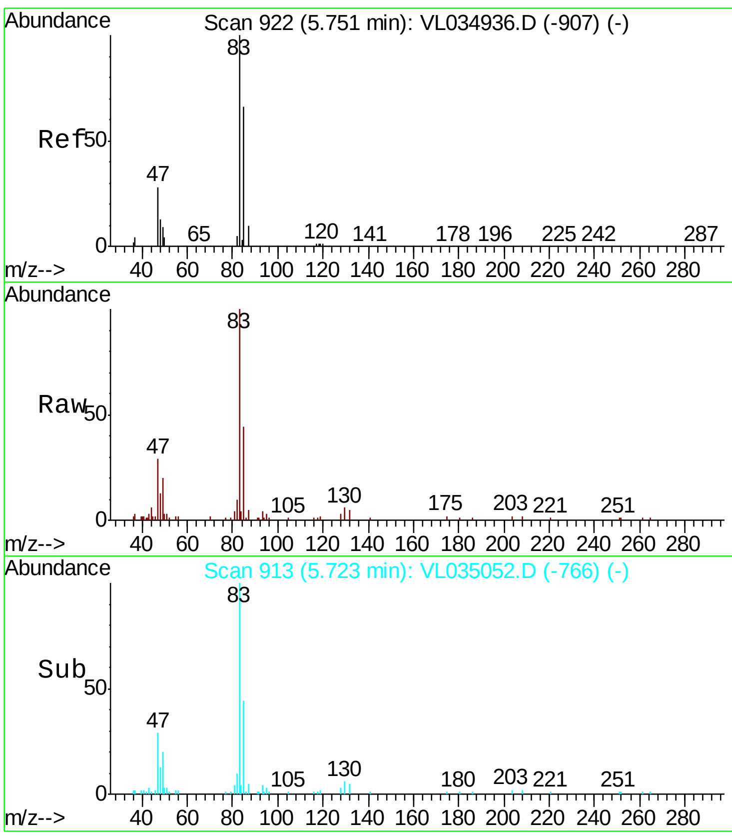
#26
Hexane
Concen: 1.181 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 129445

Ion	Ratio	Lower	Upper
57	100		
41	100.1	72.7	109.1
43	104.8	182.1	273.1#
56	59.3	42.2	63.2

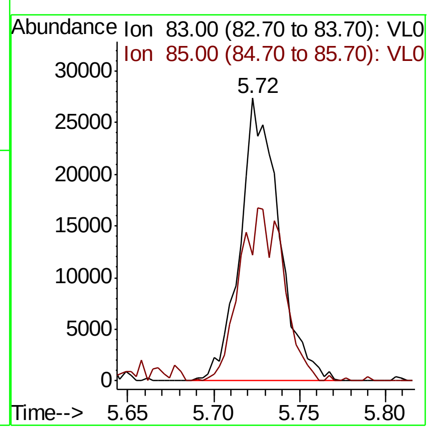


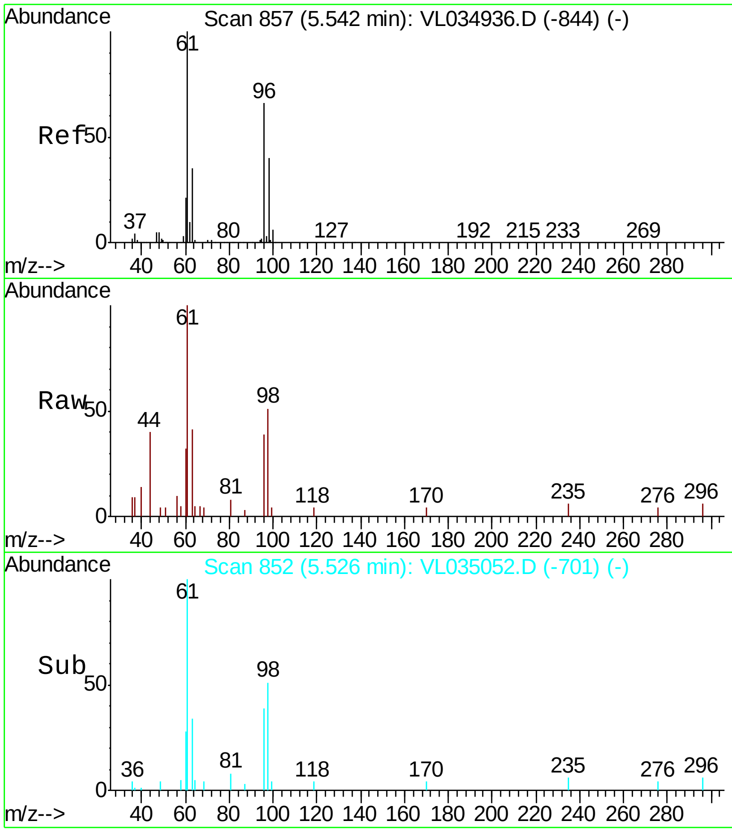


#29
Chloroform
Concen: 0.239 ppbv
RT: 5.72 min Scan# 913
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 83 Resp: 42872

Ion	Ratio	Lower	Upper
83	100		
85	44.3	53.0	79.6#



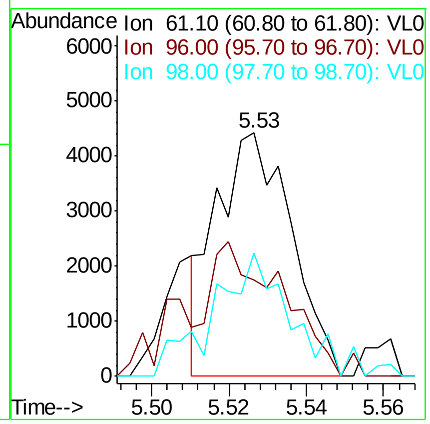


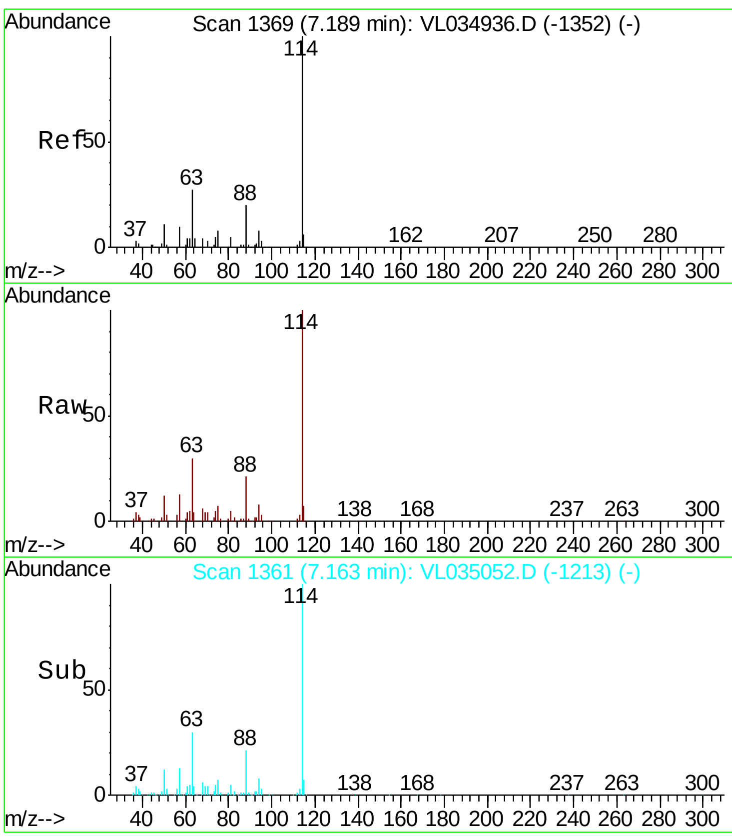
#31
cis-1,2-Dichloroethene
Concen: 0.056 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 61 Resp: 5953

Ion	Ratio	Lower	Upper
61	100		
96	39.5	53.0	79.6#
98	50.7	32.2	48.2#

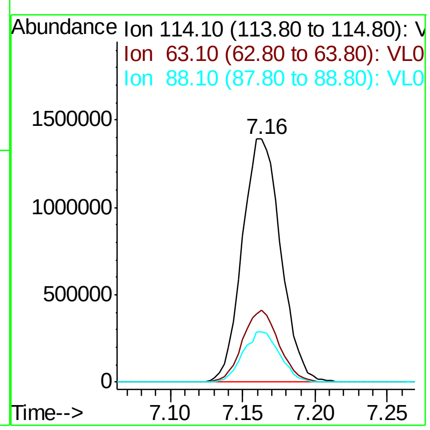


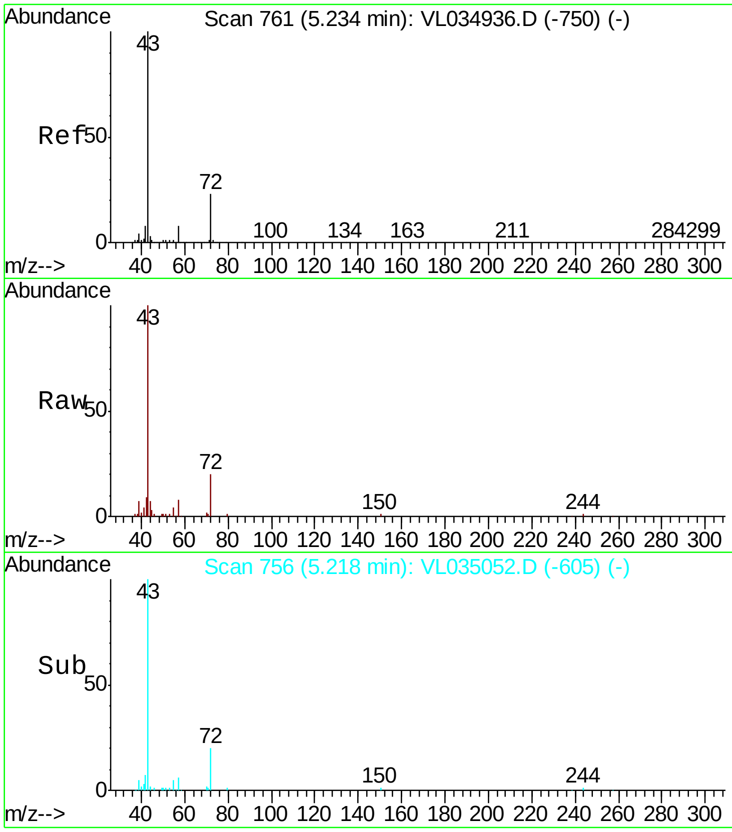


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion:114 Resp: 2577000

Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.2	33.4
88	19.9	15.5	23.3



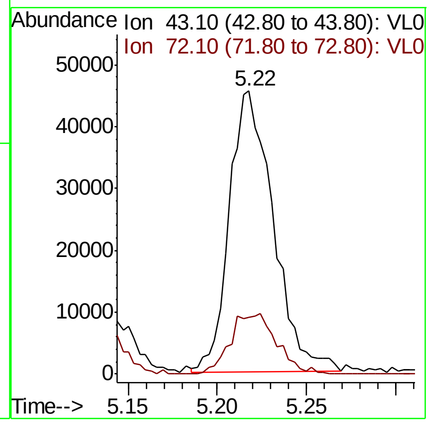


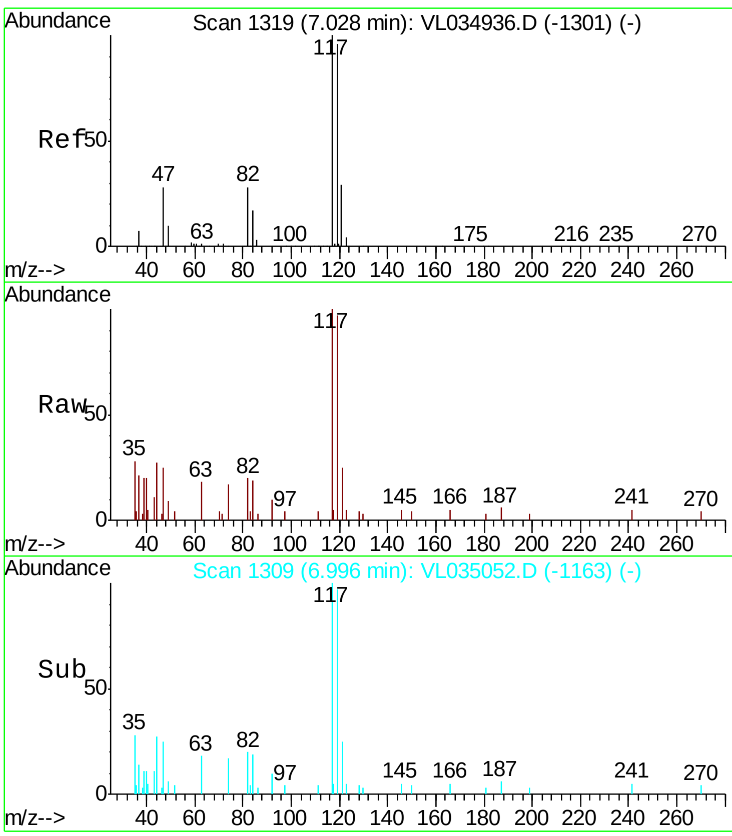
#34
2-Butanone
Concen: 0.487 ppbv
RT: 5.22 min Scan# 756
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 78022

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.0	27.0

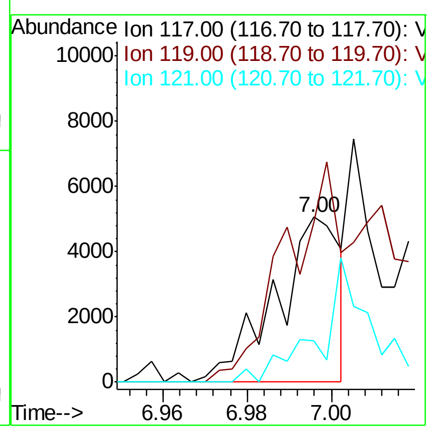


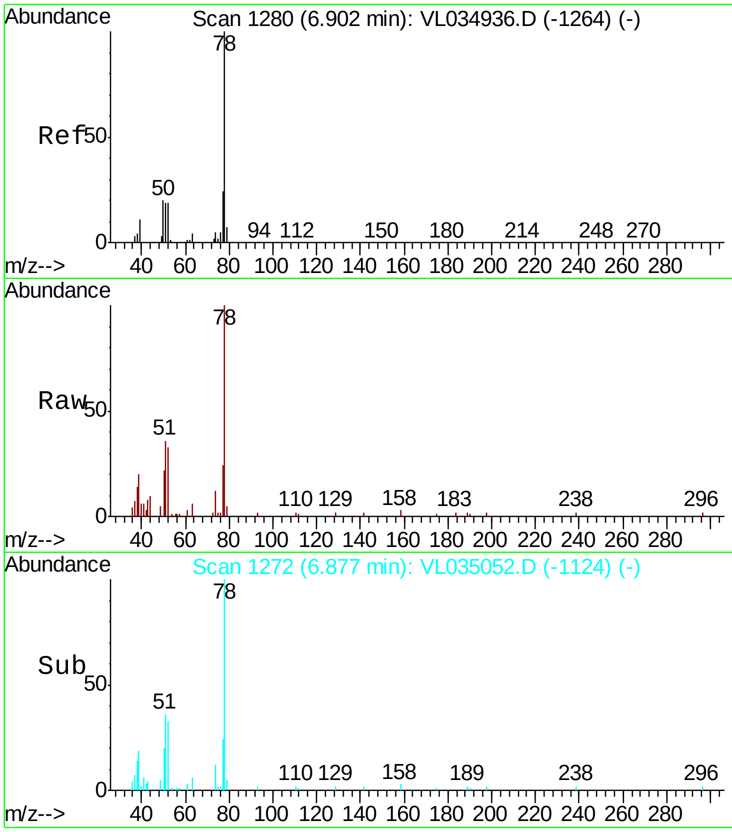


#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion:117 Resp: 5395

Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.0	115.6
121	25.1	23.0	34.6



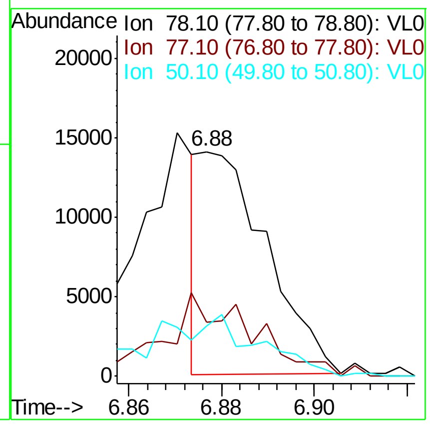


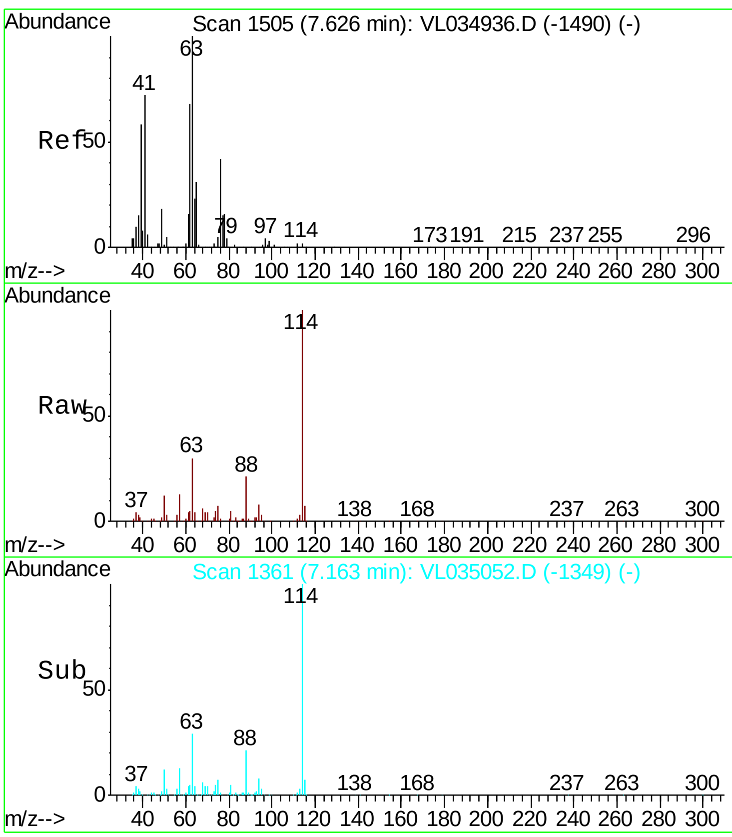
#36
Benzene
Concen: 0.065 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 13830

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6
50	22.6	15.8	23.8

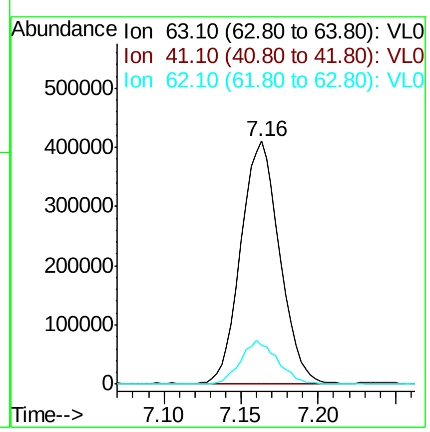


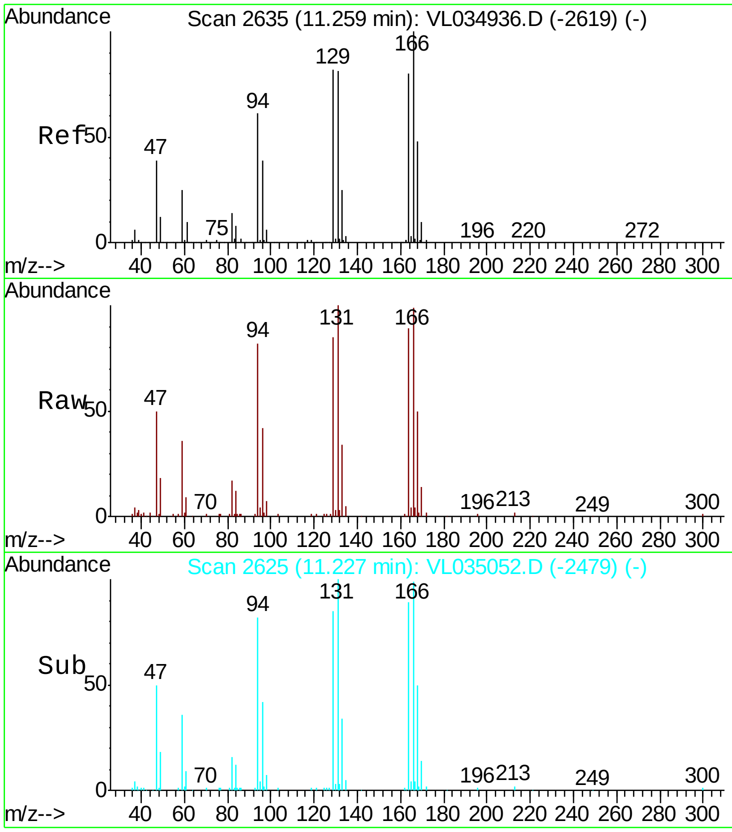


#39
1,2-Dichloropropane
Concen: 8.422 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.46 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 63 Resp: 717298

Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	15.8	54.2	81.2#



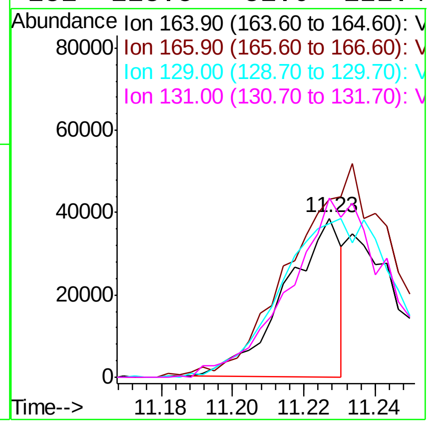


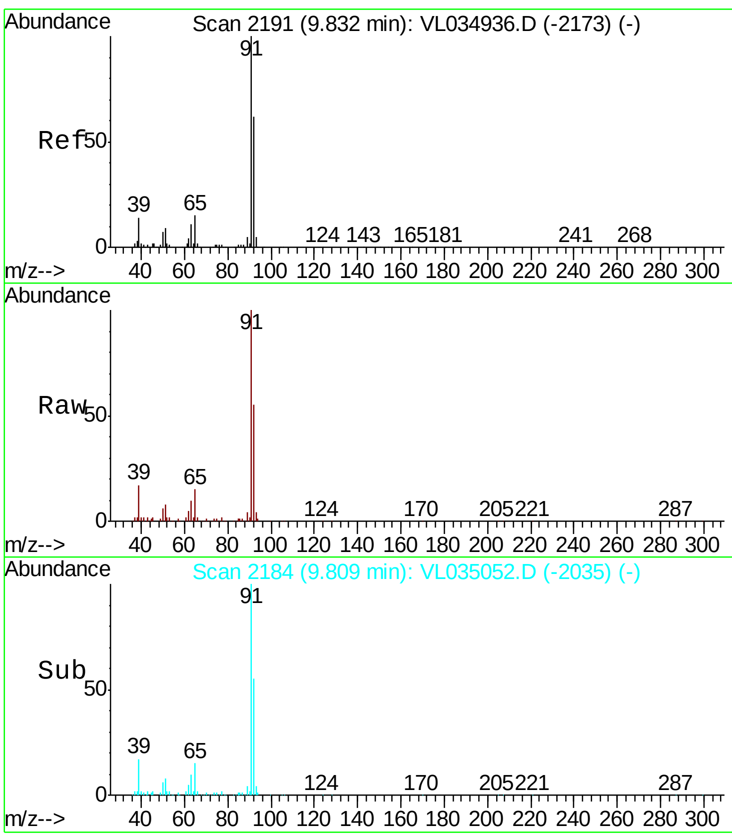
#52
Tetrachloroethene
Concen: 0.560 ppbv
RT: 11.23 min Scan# 2625
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:164 Resp: 42280

Ion	Ratio	Lower	Upper
164	100		
166	108.6	100.7	151.1
129	94.1	83.0	124.4
131	113.5	81.0	121.4

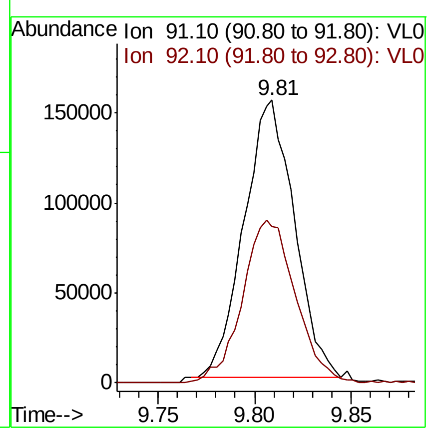


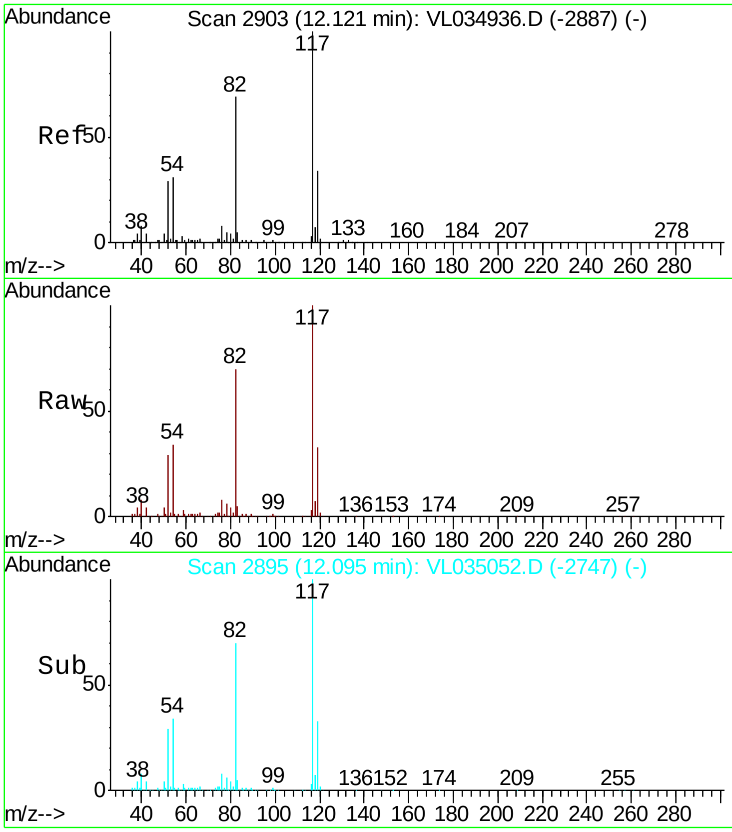


#53
Toluene
Concen: 1.241 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.02 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 91 Resp: 279487

Ion	Ratio	Lower	Upper
91	100		
92	62.4	48.6	73.0



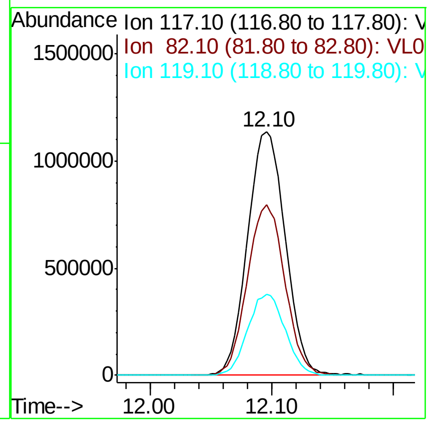


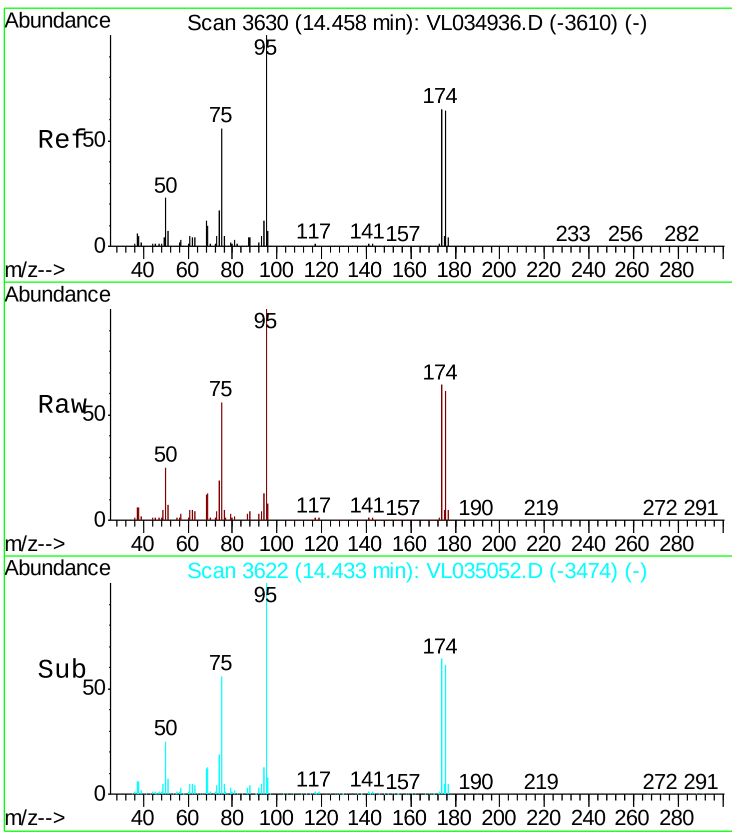
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Instrument : MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2434510

Ion	Ratio	Lower	Upper
117	100		
82	69.7	53.1	79.7
119	33.1	26.7	40.1





#68
1-Bromo-4-Fluorobenzene
Concen: 10.651 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.03 min
Lab File: VL035052.D
Acq: 19 May 2020 20:18

Tgt Ion: 95 Resp: 2098945

Ion	Ratio	Lower	Upper
95	100		
174	63.8	51.5	77.3
175	4.6	3.8	5.8