Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035639.D
Acq On : 16 Sep 2020 21:45
Operator : SY/AP
Sample : L4036-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument : MSVOA_L
ClientSampleId : DB-IA-Y02

Quant Time: Sep 17 07:09:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1016466	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4013696	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4067364	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3065707	10.61	ppbv	0.00

Spiked Amount 10.000 Range 65 - 135 Recovery = 106.10%

Target Compounds	R.T.	QIon	Response	Conc	Units		Qvalue
2) Dichlorodifluoromethane	3.04	85	46179	0.262	ppbv		92
3) Chlorodifluoromethane	2.95	51	97505	0.867	ppbv	#	70
4) Chloromethane	3.13	50	30881	0.513	ppbv		95
9) Propene	3.01	41	14102	0.325	ppbv	#	77
10) Heptane	8.13	43	26580	0.228	ppbv		98
11) Trichlorofluoromethane	3.94	101	69111	0.269	ppbv		93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	15251	0.079	ppbv		96
13) Ethanol	3.60	45	213247	19.845	ppbv		96
15) Acetone	3.84	43	406702	3.628	ppbv		99
19) Isopropyl Alcohol	3.97	45	155114	2.319	ppbv	#	91
20) Methylene Chloride	4.34	84	402840	4.825	ppbv		97
21) Allyl Chloride	4.34	41	6155	0.117	ppbv	#	22
23) Vinyl Acetate	5.06	43	22539	0.157	ppbv	#	69
25) Ethyl Acetate	5.68	43	218679	1.104	ppbv	#	75
26) Hexane	5.68	57	358599	3.196	ppbv	#	50
27) Carbon Disulfide	4.54	76	5034	0.031	ppbv	#	55
29) Chloroform	5.74	83	16953	0.074	ppbv		93
34) 2-Butanone	5.25	43	31940	0.268	ppbv		96
35) Carbon Tetrachloride	7.01	117	14292	0.071	ppbv		85
36) Benzene	6.89	78	30436	0.117	ppbv		94
39) 1,2-Dichloropropane	7.17	63	756882	8.624	ppbv	#	32
44) 2,2,4-Trimethylpentane	7.87	57	11124	0.033	ppbv	#	15
53) Toluene	9.81	91	225301	0.690	ppbv		97
59) m/p-Xylene	12.99	91	15798	0.045	ppbv	#	24

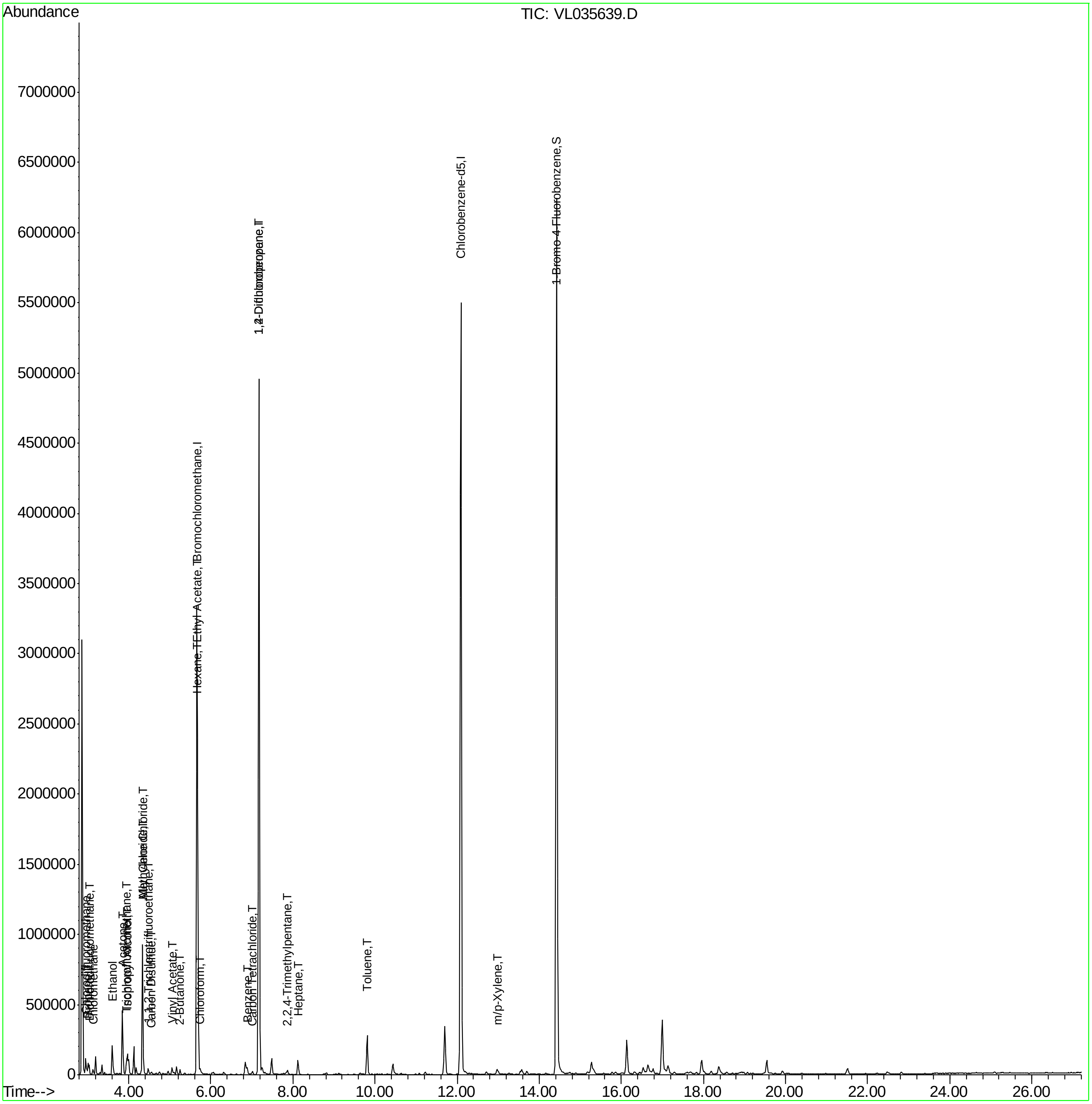
(#) = qualifier out of range (m) = manual integration (+) = signals summed

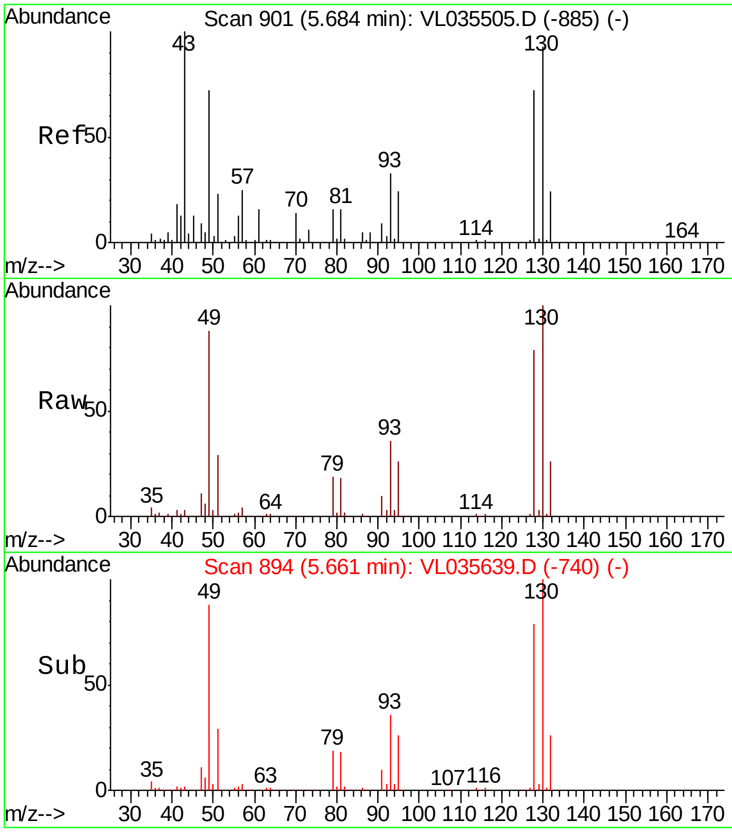
Quantitation Report (Not Reviewed)

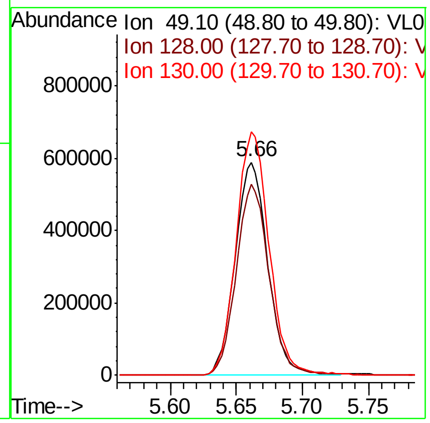
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035639.D
Acq On : 16 Sep 2020 21:45
Operator : SY/AP
Sample : L4036-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Quant Time: Sep 17 07:09:12 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





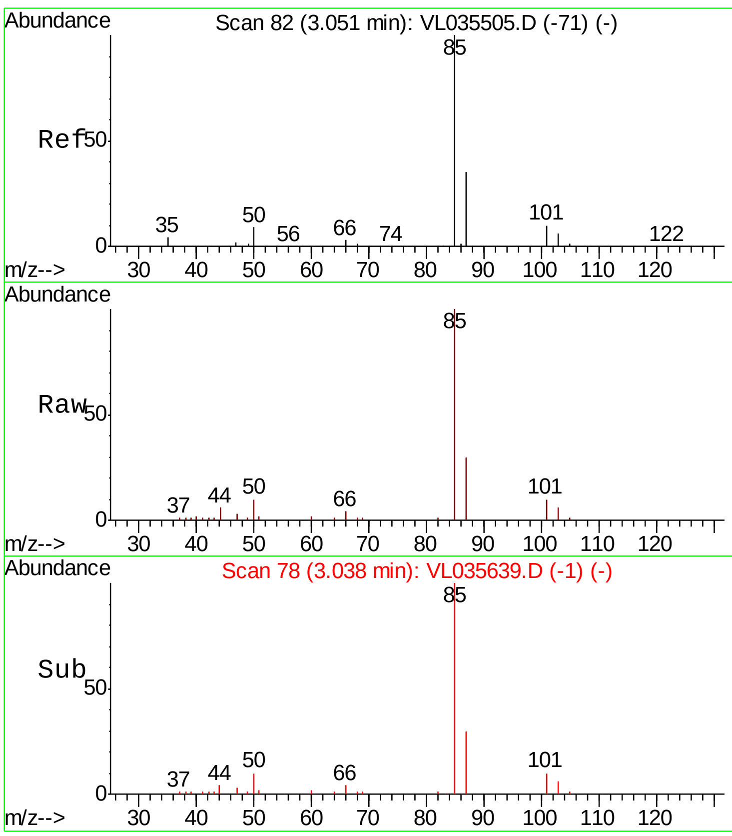


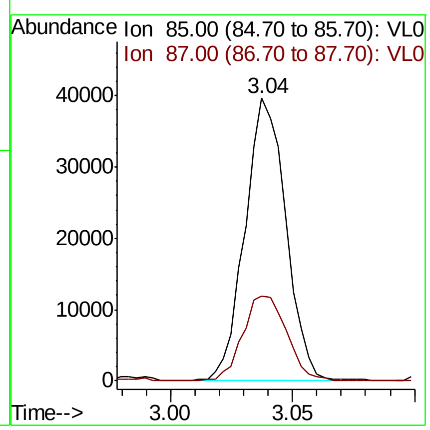
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 49 Resp: 1016466

Ion	Ratio	Lower	Upper
49	100		
128	90.3	50.0	150.1
130	116.0	64.4	193.2

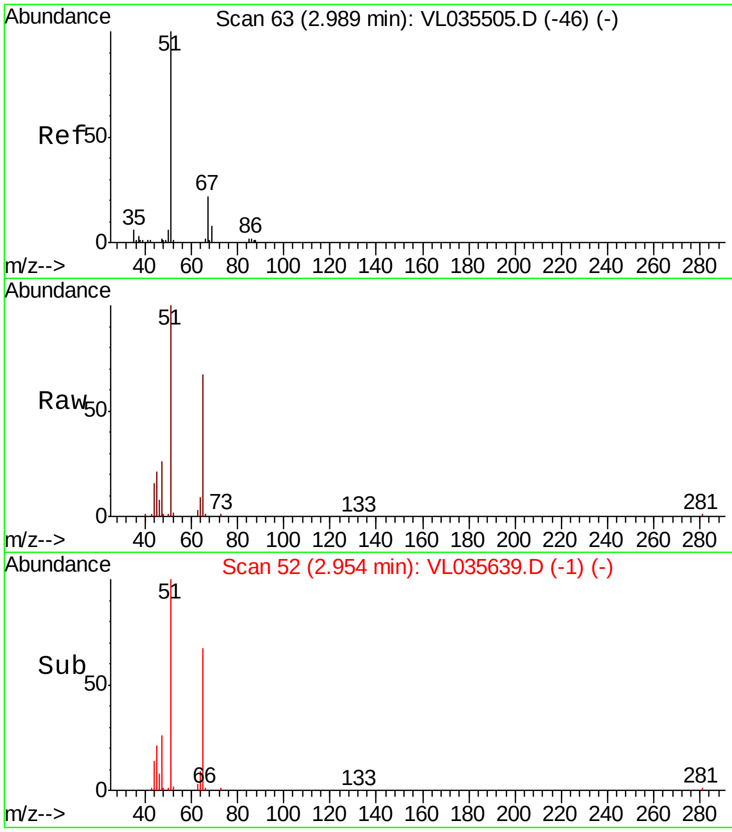




#2
Dichlorodifluoromethane
Concen: 0.262 ppbv
RT: 3.04 min Scan# 78
Delta R.T. 0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 85 Resp: 46179

Ion	Ratio	Lower	Upper
85	100		
87	30.1	28.0	42.0

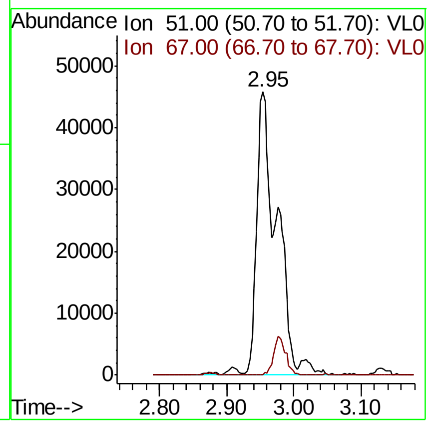


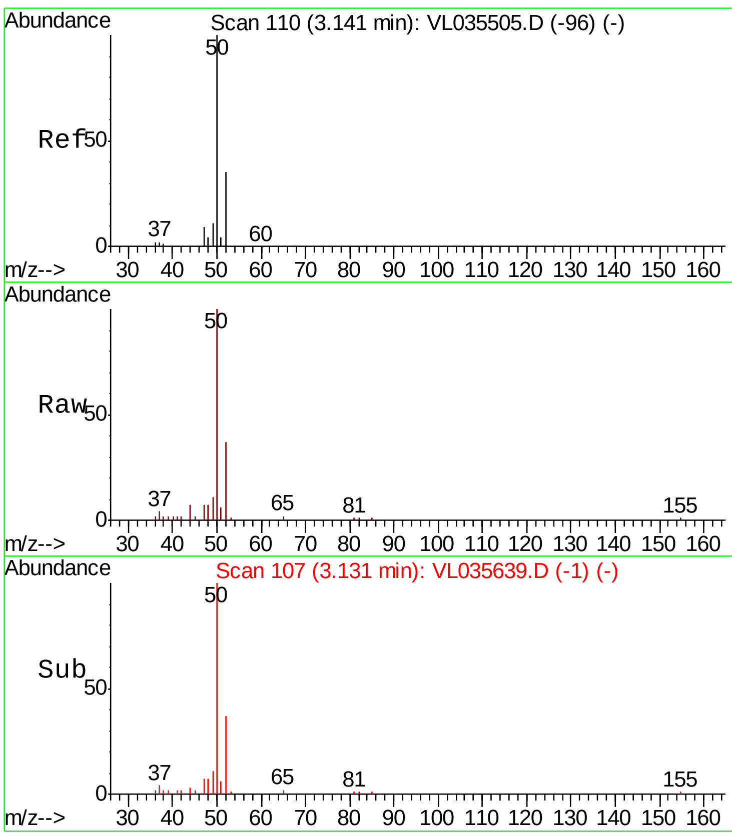
#3
Chlorodifluoromethane
Concen: 0.867 ppbv
RT: 2.95 min Scan# 52
Delta R.T. -0.02 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 51 Resp: 97505

Ion	Ratio	Lower	Upper
51	100		
67	7.9	17.8	26.8#

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

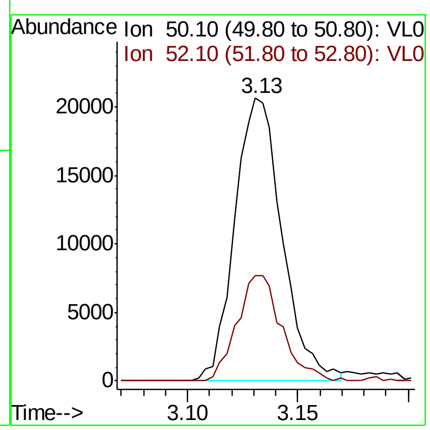




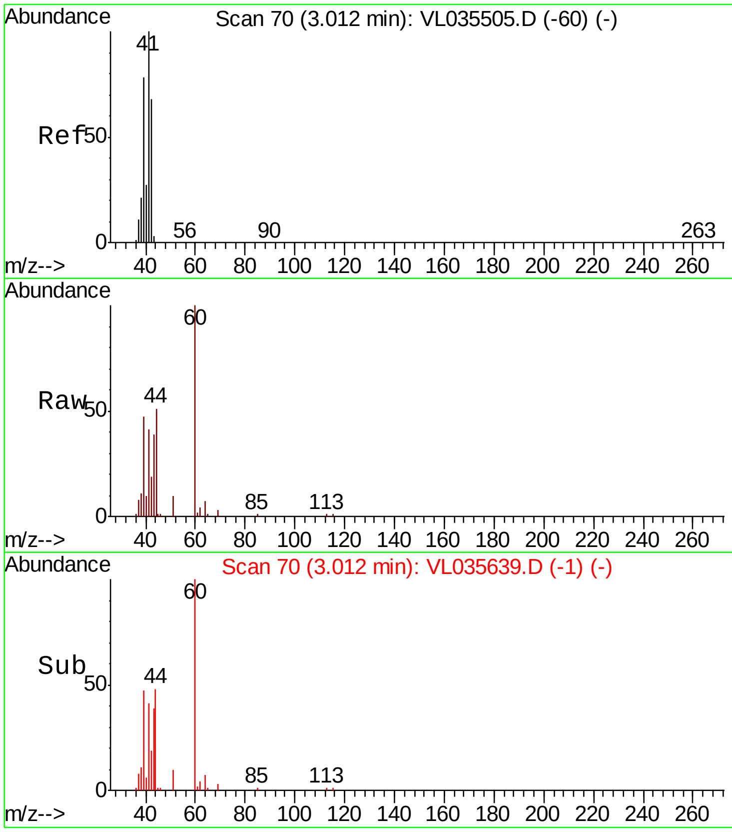
#4
Chloromethane
Concen: 0.513 ppbv
RT: 3.13 min Scan# 107
Delta R.T. 0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 50 Resp: 30881

Ion	Ratio	Lower	Upper
50	100		
52	37.5	27.7	41.5



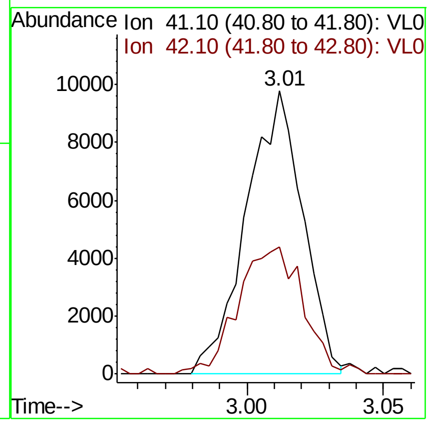
Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

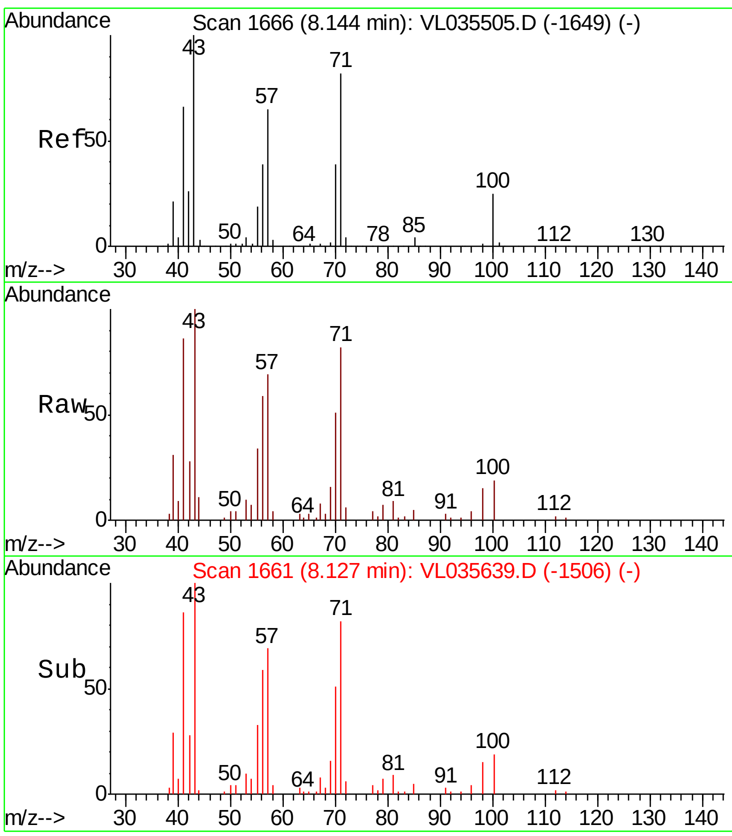


#9
Propene
Concen: 0.325 ppbv
RT: 3.01 min   Scan# 70
Delta R.T.   0.02 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 41 Resp: 14102

Ion	Ratio	Lower	Upper
41	100		
42	51.9	56.3	84.5#

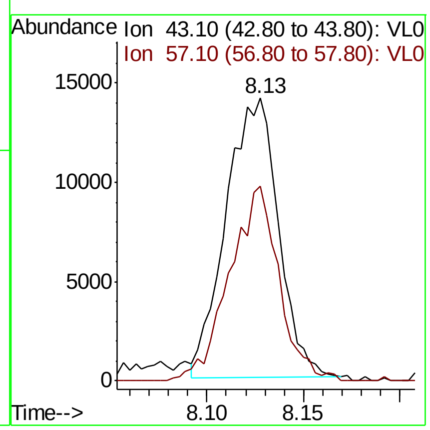




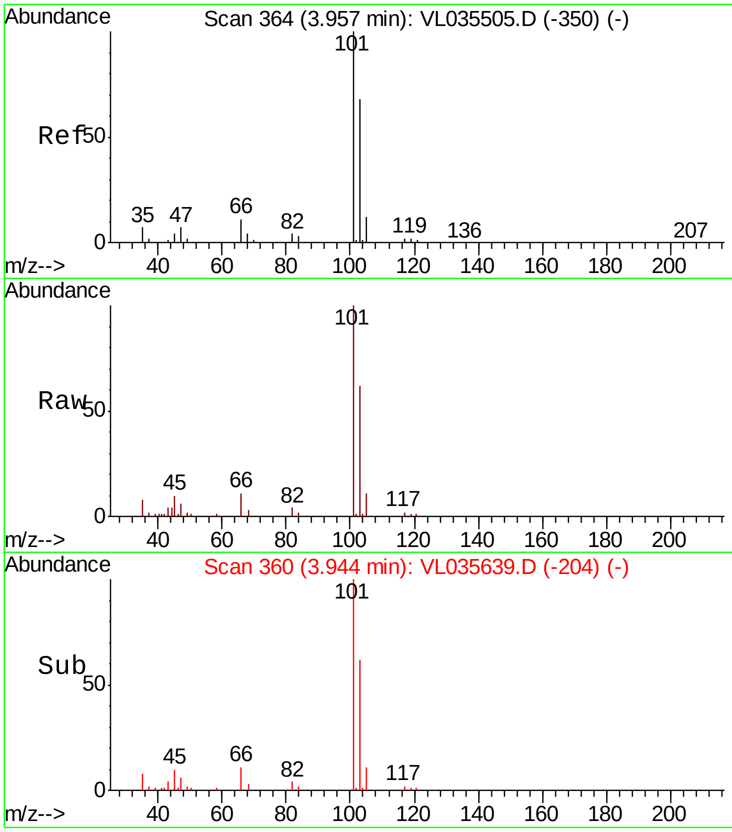
#10
Heptane
Concen: 0.228 ppbv
RT: 8.13 min   Scan# 1661
Delta R.T.   -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 43 Resp: 26580

Ion	Ratio	Lower	Upper
43	100		
57	65.9	51.4	77.0



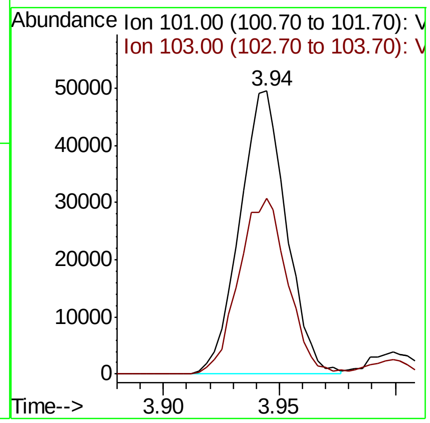
Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

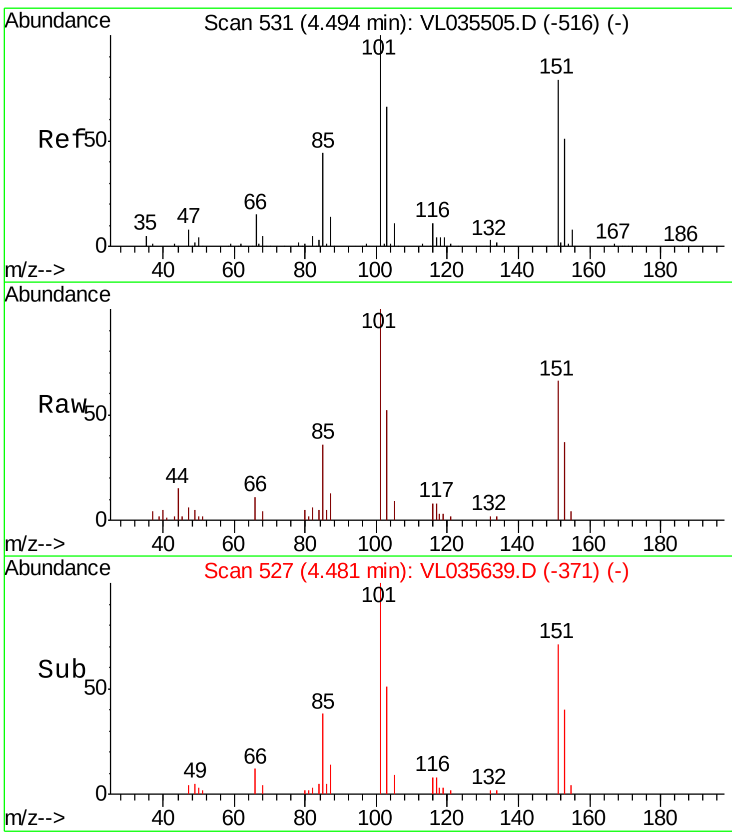


#11
Trichlorofluoromethane
Concen: 0.269 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion:101 Resp: 69111

Ion	Ratio	Lower	Upper
101	100		
103	62.3	54.5	81.7

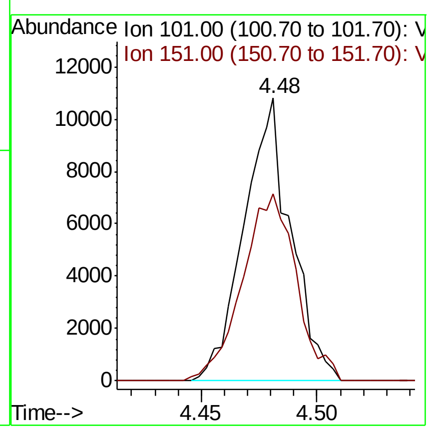




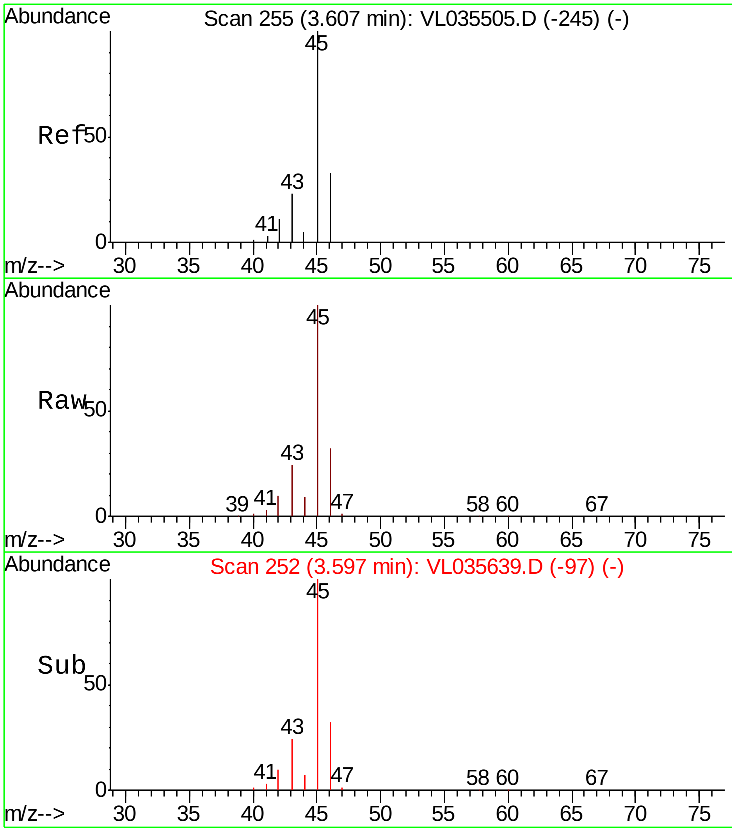
#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.079 ppbv
RT: 4.48 min Scan# 527
Delta R.T. 0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion:101 Resp: 15251

Ion	Ratio	Lower	Upper
101	100		
151	75.6	63.5	95.3



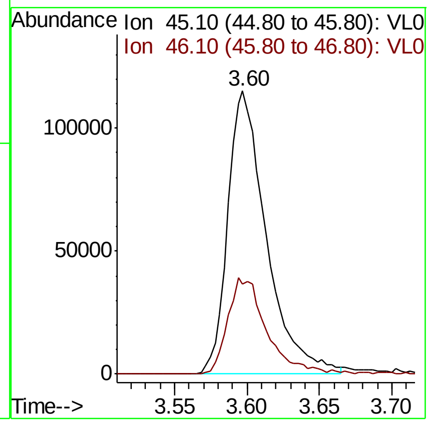
Instrument : MSVOA_L
ClientSampleId : DB-IA-Y02

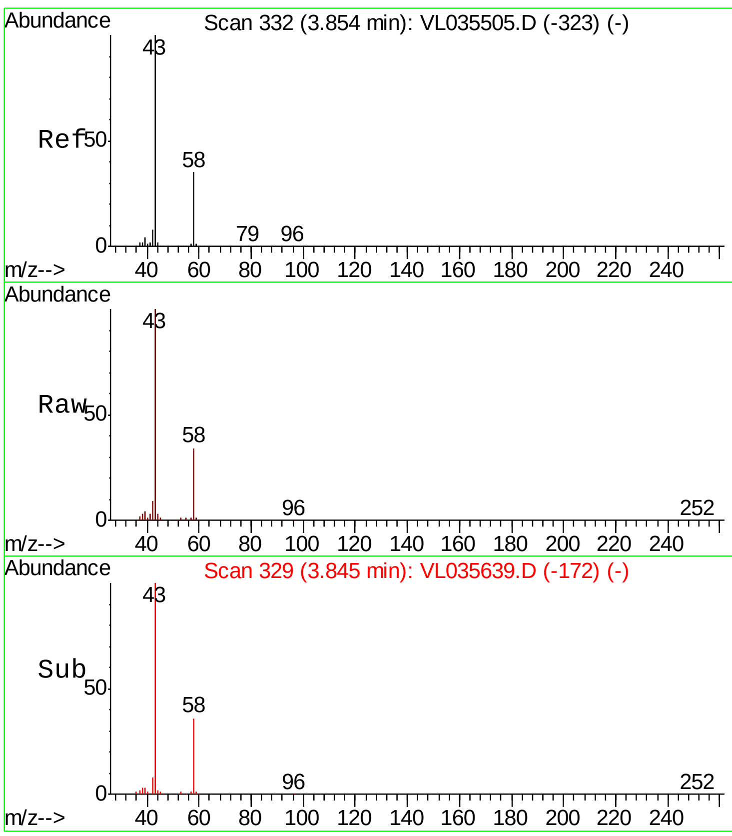


#13
Ethanol
Concen: 19.845 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 45 Resp: 213247

Ion	Ratio	Lower	Upper
45	100		
46	35.3	15.2	60.6

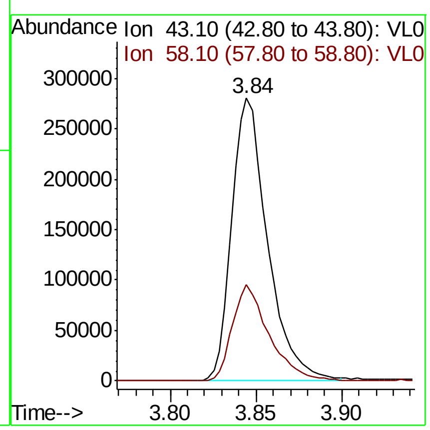




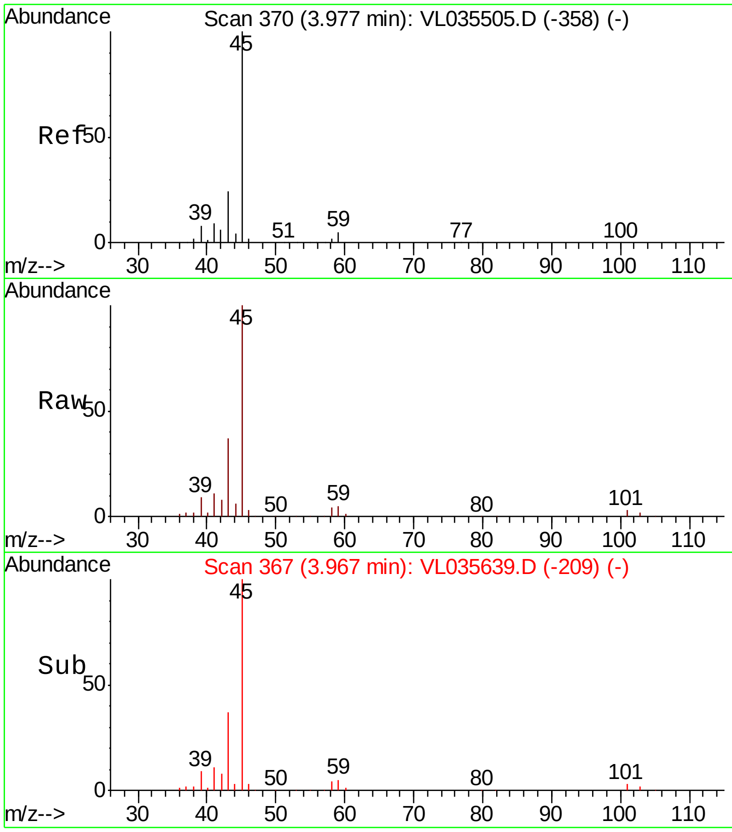
#15
Acetone
Concen: 3.628 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 43 Resp: 406702

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.4	42.6



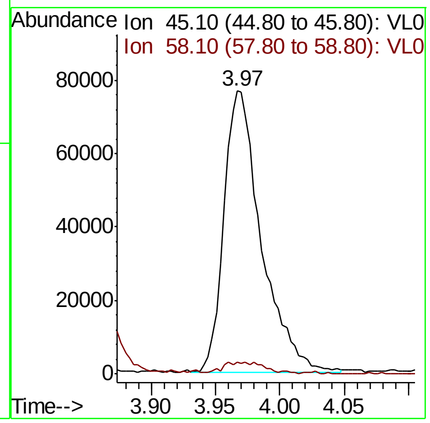
Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

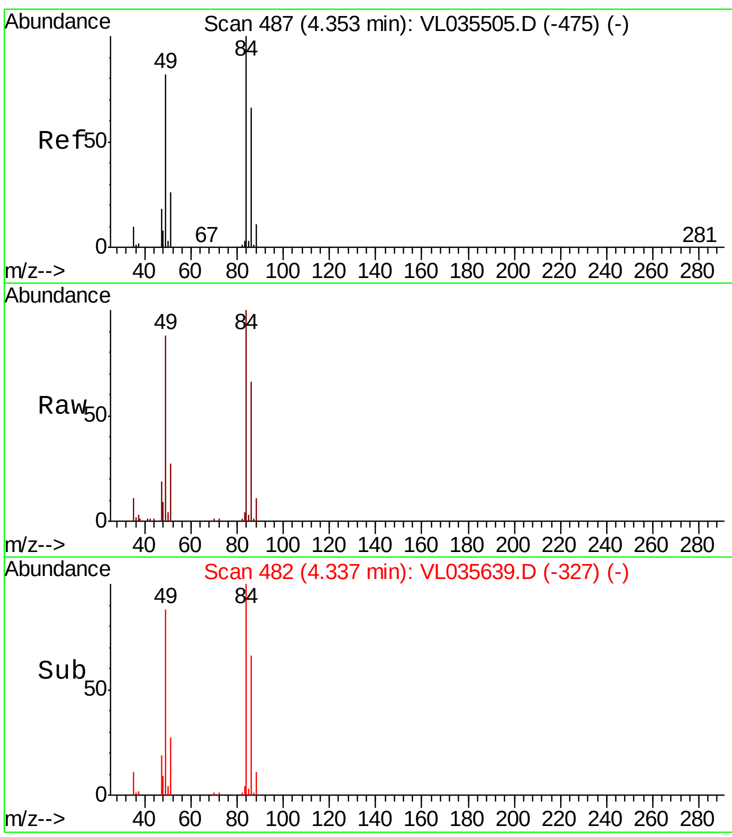


#19
Isopropyl Alcohol
Concen: 2.319 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 45 Resp: 155114

Ion	Ratio	Lower	Upper
45	100		
58	5.5	2.0	3.0#

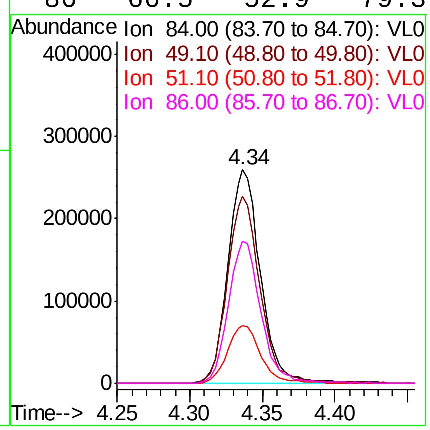


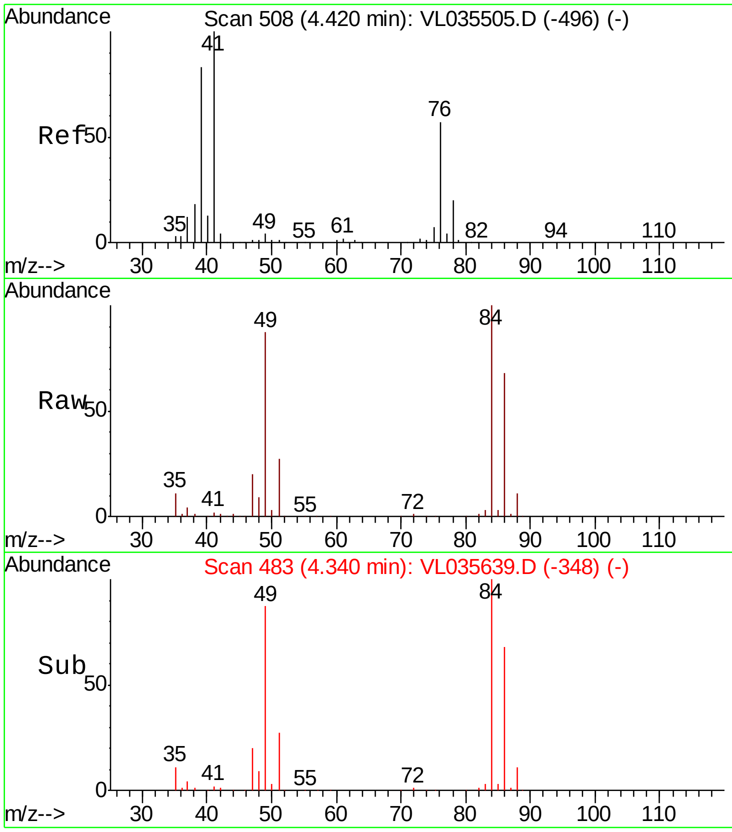


#20
Methylene Chloride
Concen: 4.825 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 84 Resp: 402840

Ion	Ratio	Lower	Upper
84	100		
49	87.8	65.4	98.0
51	27.0	21.5	32.3
86	66.5	52.9	79.3



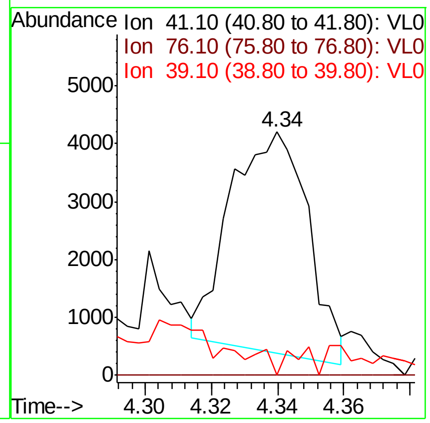


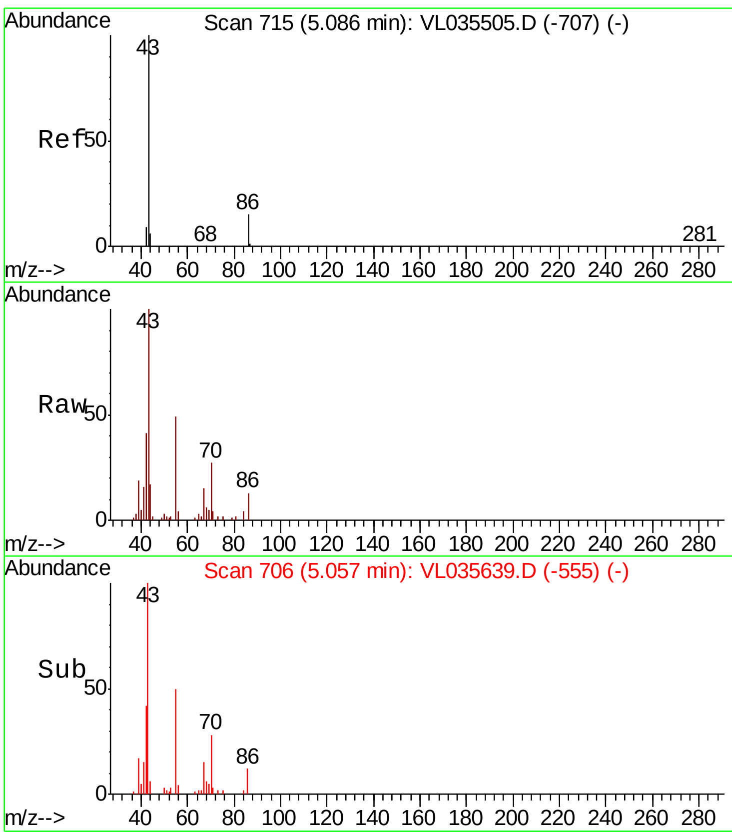
#21
Allyl Chloride
Concen: 0.117 ppbv
RT: 4.34 min   Scan# 483
Delta R.T.   -0.06 min
Lab File: VL035639.D
Acq: 16 Sep 2020   21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 41 Resp: 6155

Ion	Ratio	Lower	Upper
41	100		
76	0.0	46.2	69.2#
39	13.6	67.8	101.6#

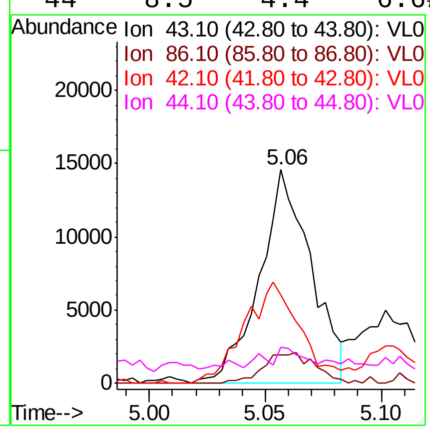




#23
Vinyl Acetate
Concen: 0.157 ppbv
RT: 5.06 min   Scan# 706
Delta R.T.   -0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020   21:45

Tgt Ion: 43 Resp: 22539

Ion	Ratio	Lower	Upper
43	100		
86	13.0	10.6	16.0
42	41.5	7.5	11.3#
44	8.5	4.4	6.6#

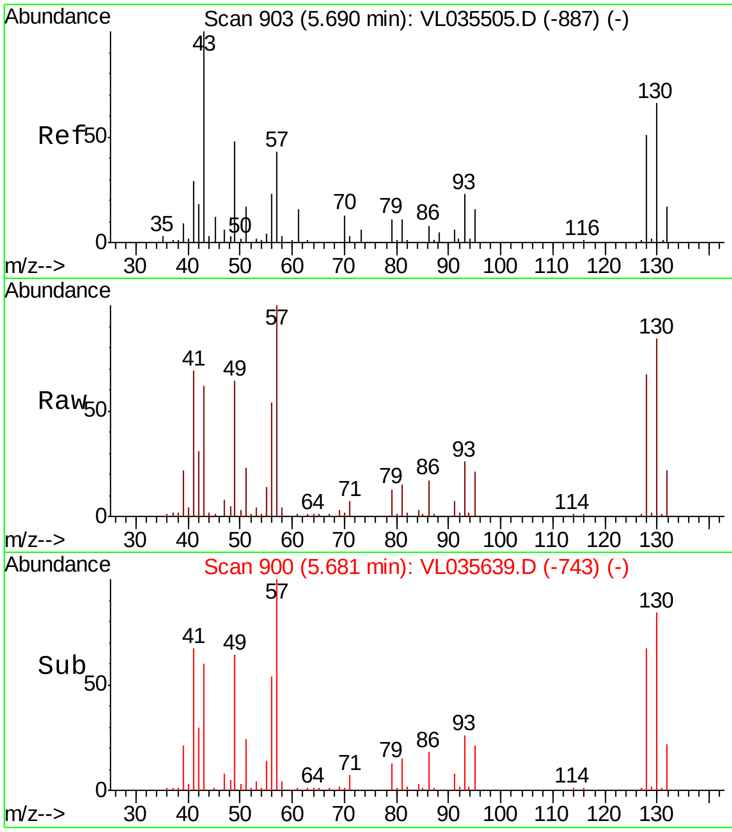


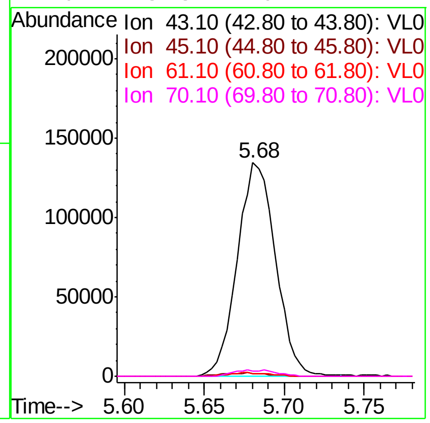
#25
Ethyl Acetate
Concen: 1.104 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument : MSVOA_L
ClientSampleId : DB-IA-Y02

Tgt Ion: 43 Resp: 218679

Ion	Ratio	Lower	Upper
43	100		
45	2.1	8.4	12.6#
61	1.7	10.6	16.0#
70	3.3	9.4	14.2#

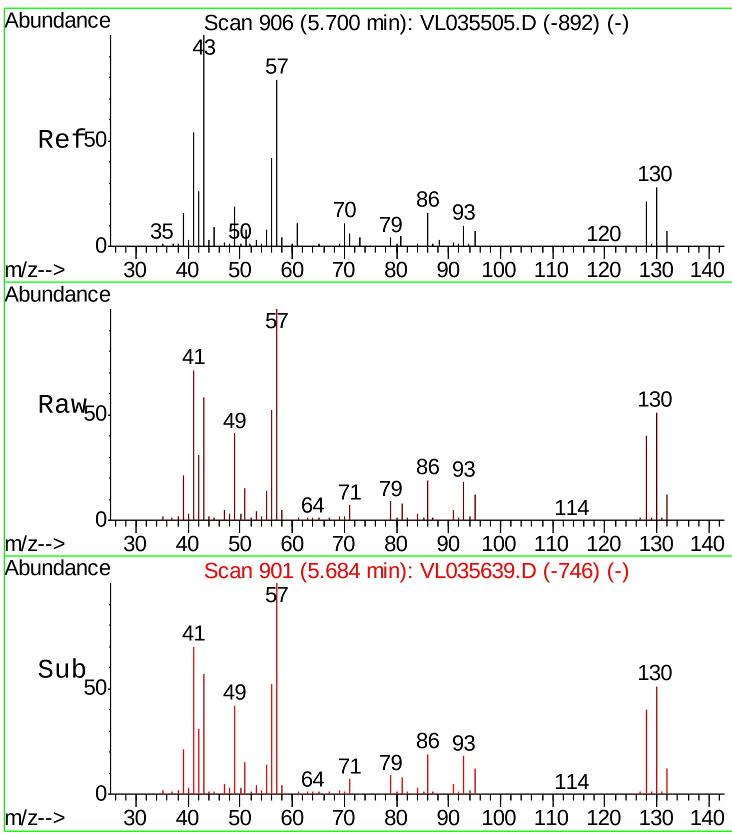


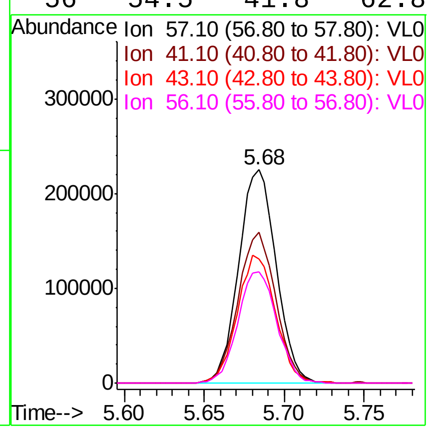


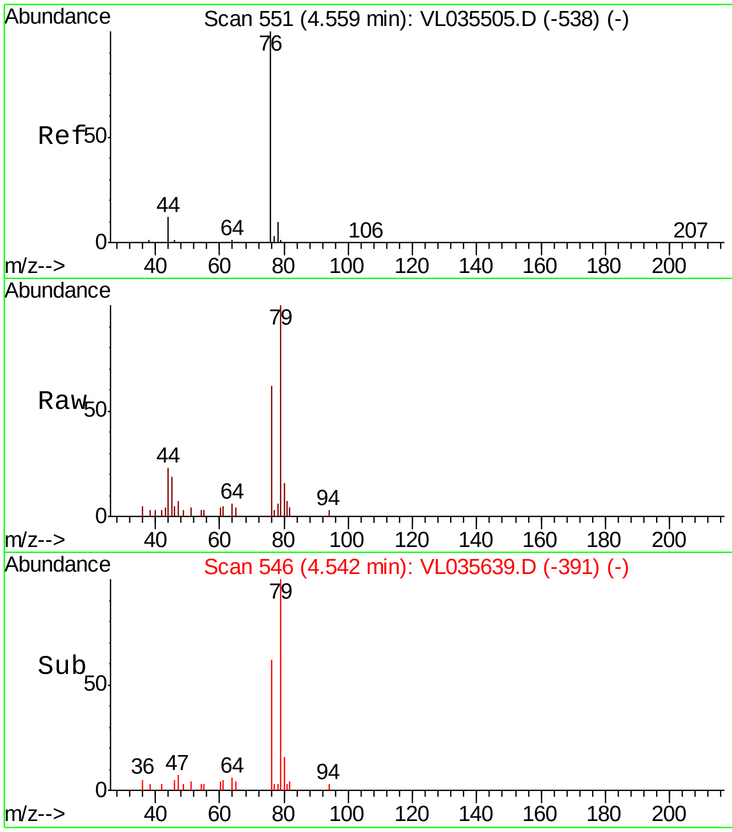
#26
Hexane
Concen: 3.196 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 57 Resp: 358599

Ion	Ratio	Lower	Upper
57	100		
41	71.7	55.9	83.9
43	61.3	141.8	212.8#
56	54.5	41.8	62.8





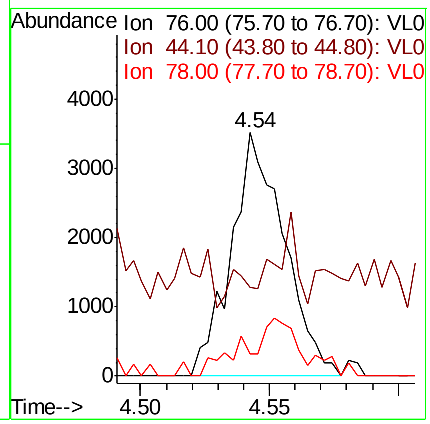


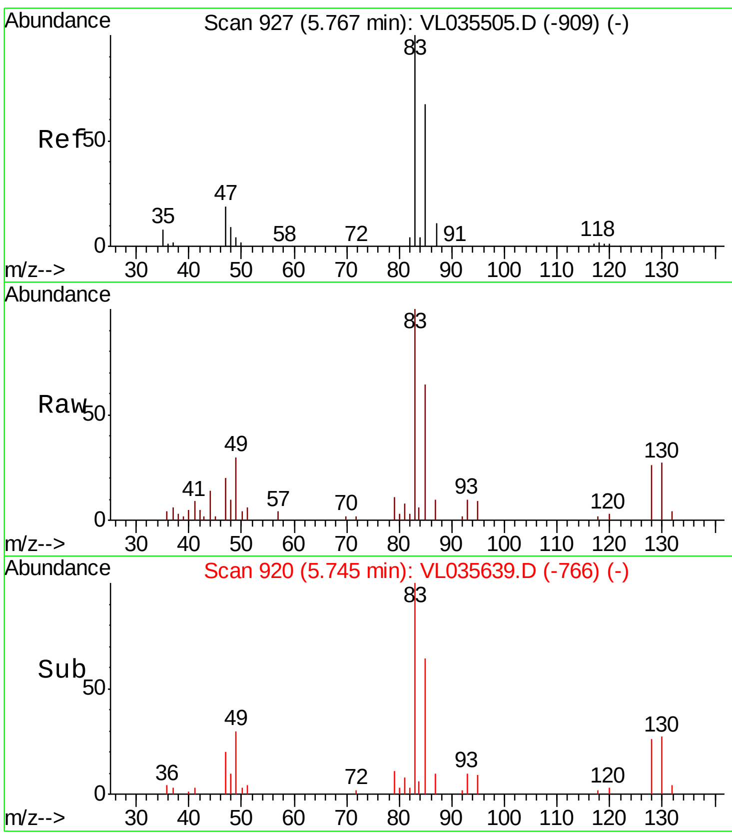
#27
Carbon Disulfide
Concen: 0.031 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 76 Resp: 5034

Ion	Ratio	Lower	Upper
76	100		
44	28.8	9.3	13.9#
78	26.0	7.8	11.6#

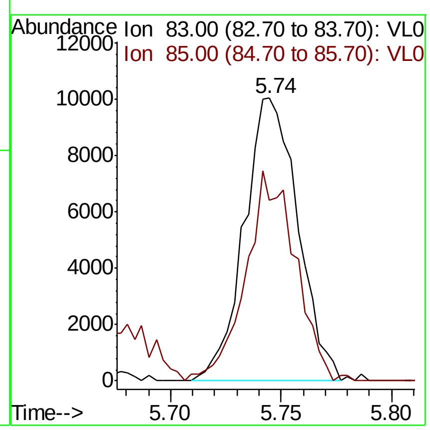


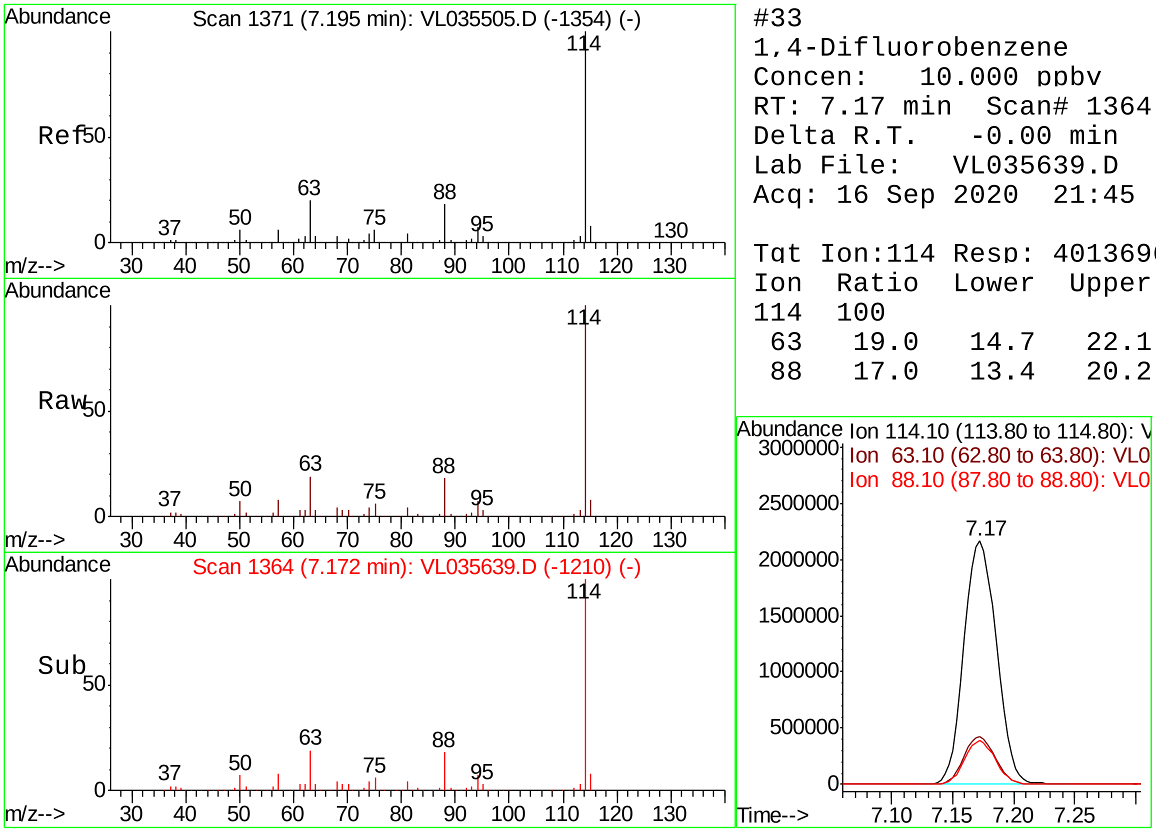


#29
Chloroform
Concen: 0.074 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 83 Resp: 16953

Ion	Ratio	Lower	Upper
83	100		
85	62.1	53.9	80.9



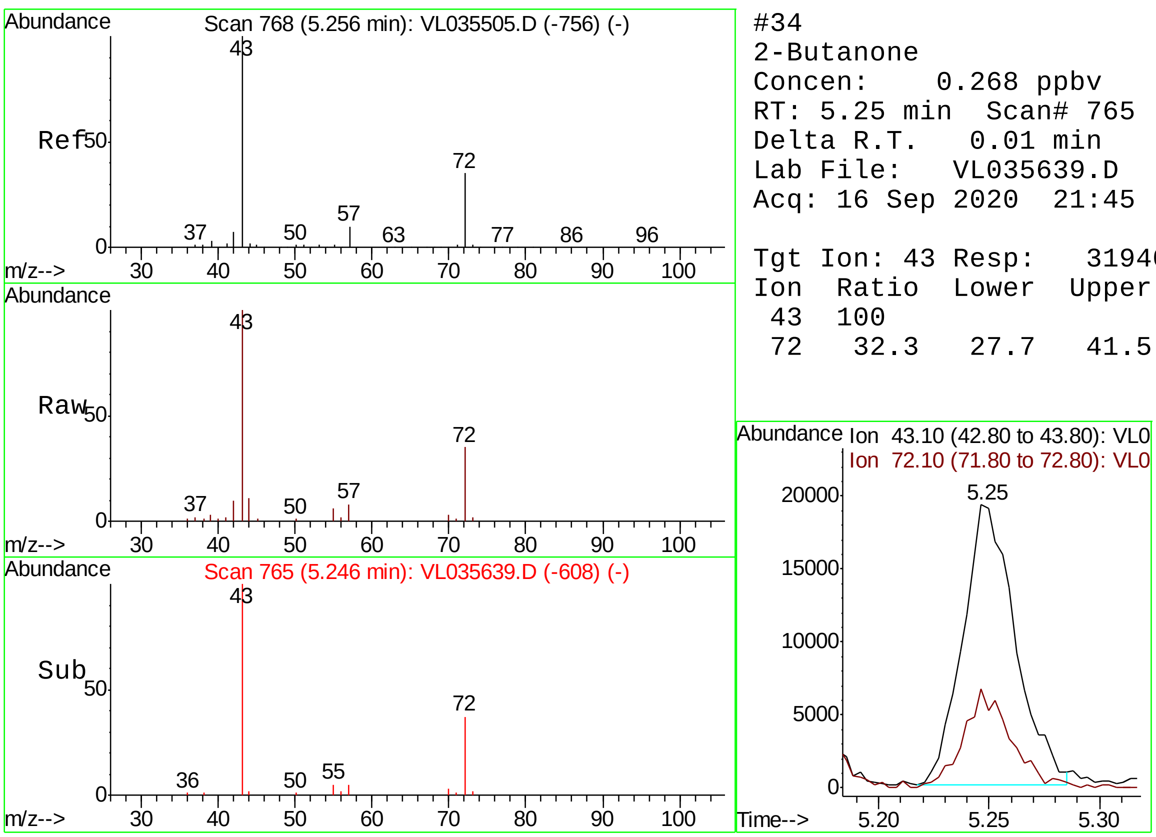


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument : MSVOA_L
ClientSampleId : DB-IA-Y02

Tgt Ion:114 Resp: 4013696

Ion	Ratio	Lower	Upper
114	100		
63	19.0	14.7	22.1
88	17.0	13.4	20.2

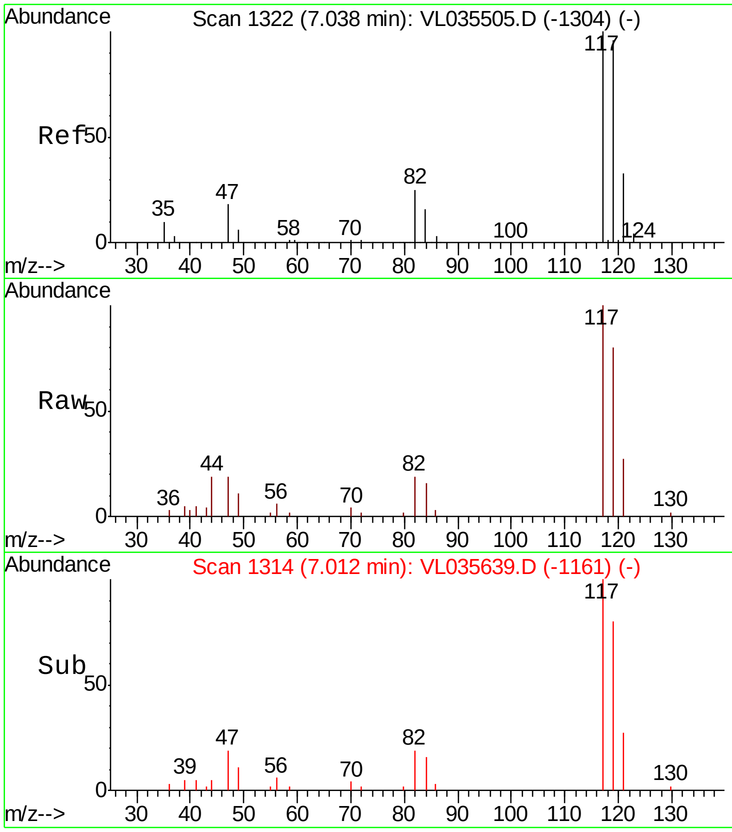


#34
2-Butanone
Concen: 0.268 ppbv
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 43 Resp: 31940

Ion	Ratio	Lower	Upper
43	100		
72	32.3	27.7	41.5

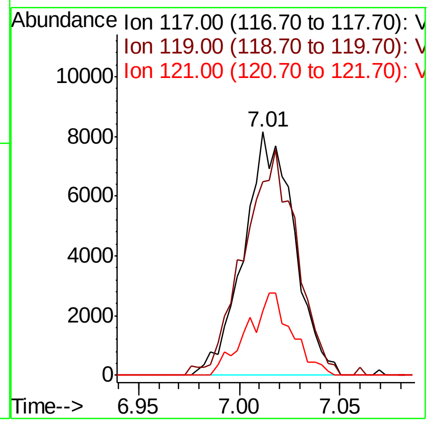
Instrument : MSVOA_L
ClientSampleId : DB-IA-Y02

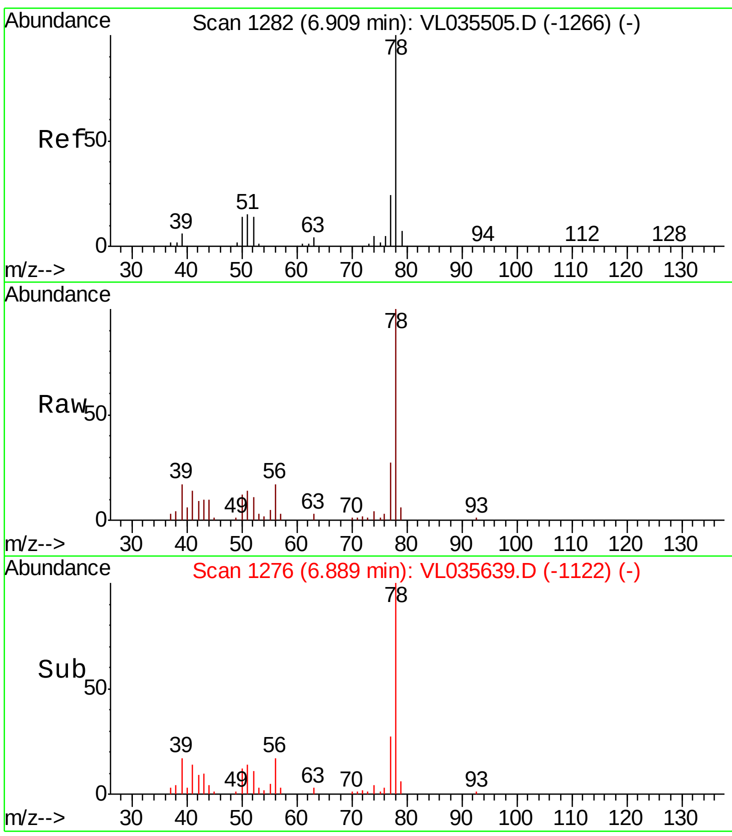


#35
Carbon Tetrachloride
Concen: 0.071 ppbv
RT: 7.01 min Scan# 1314
Delta R.T. -0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion:117 Resp: 14292

Ion	Ratio	Lower	Upper
117	100		
119	79.8	77.2	115.8
121	26.5	26.1	39.1

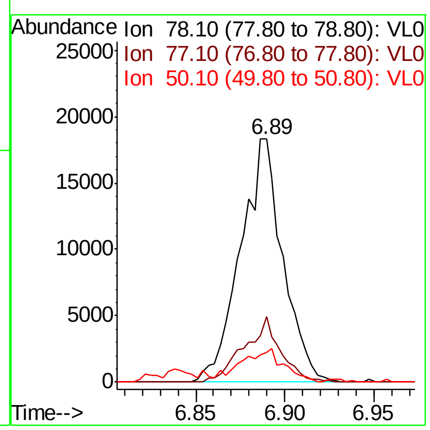


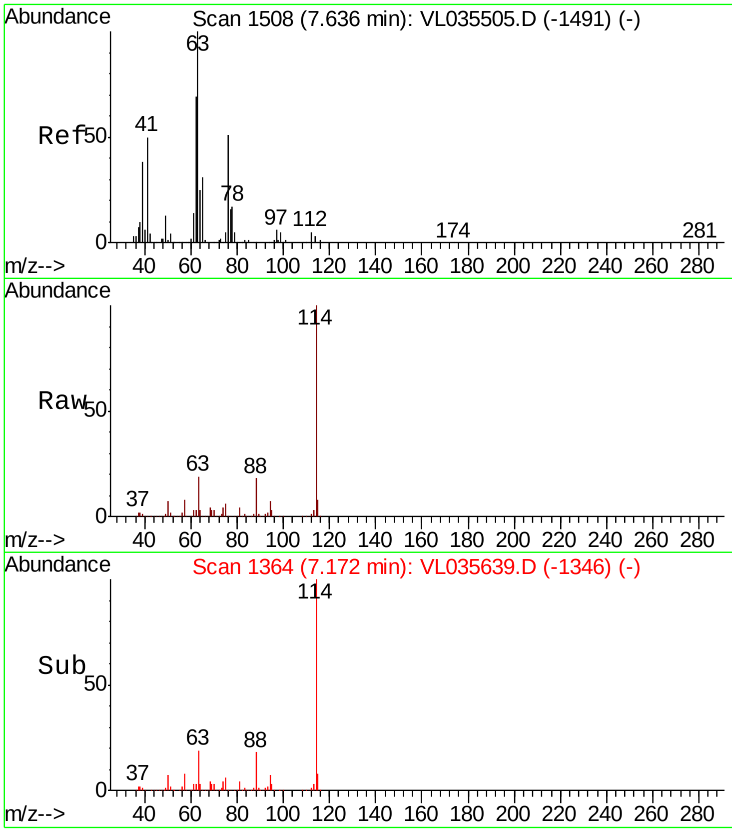


#36
Benzene
Concen: 0.117 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 78 Resp: 30436

Ion	Ratio	Lower	Upper
78	100		
77	26.9	19.3	28.9
50	11.3	11.0	16.6



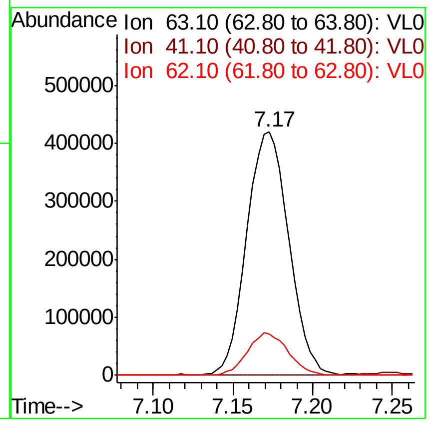


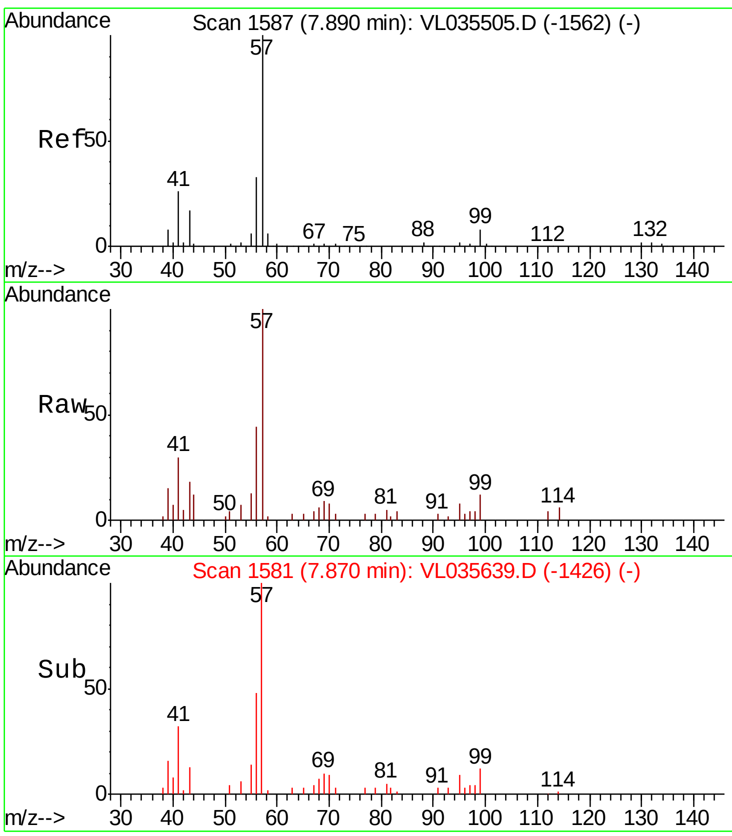
#39
1,2-Dichloropropane
Concen: 8.624 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.44 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 63 Resp: 756882

Ion	Ratio	Lower	Upper
63	100		
41	0.0	40.0	60.0#
62	17.0	55.4	83.0#

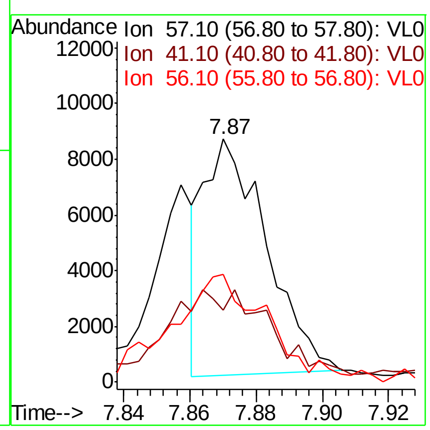


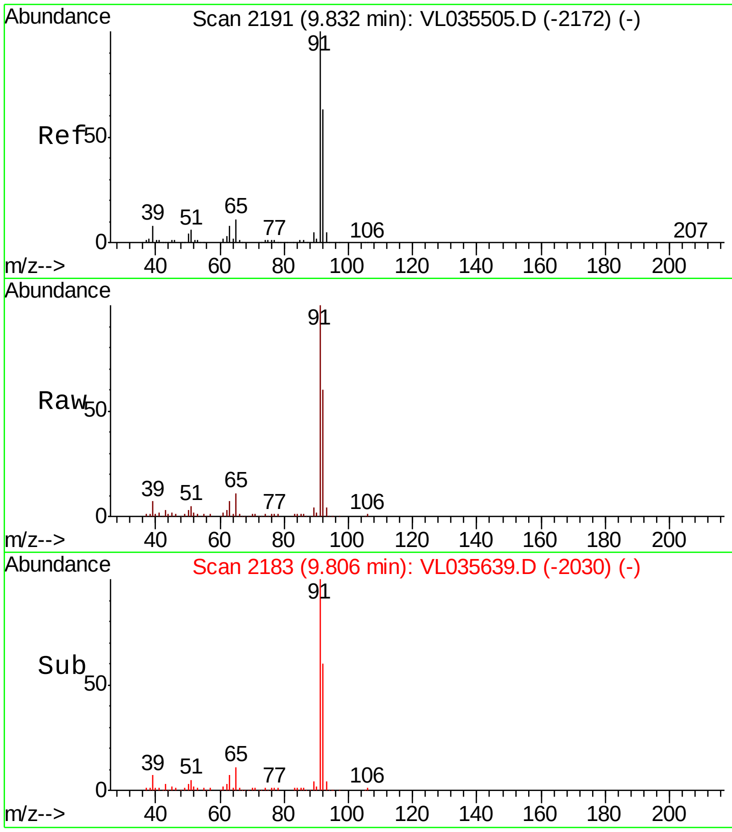


#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 57 Resp: 11124

Ion	Ratio	Lower	Upper
57	100		
41	76.1	20.5	30.7#
56	72.5	25.3	37.9#



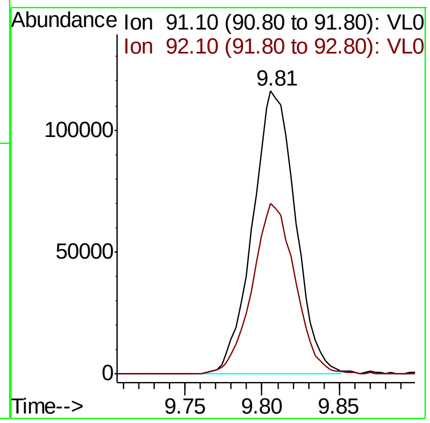


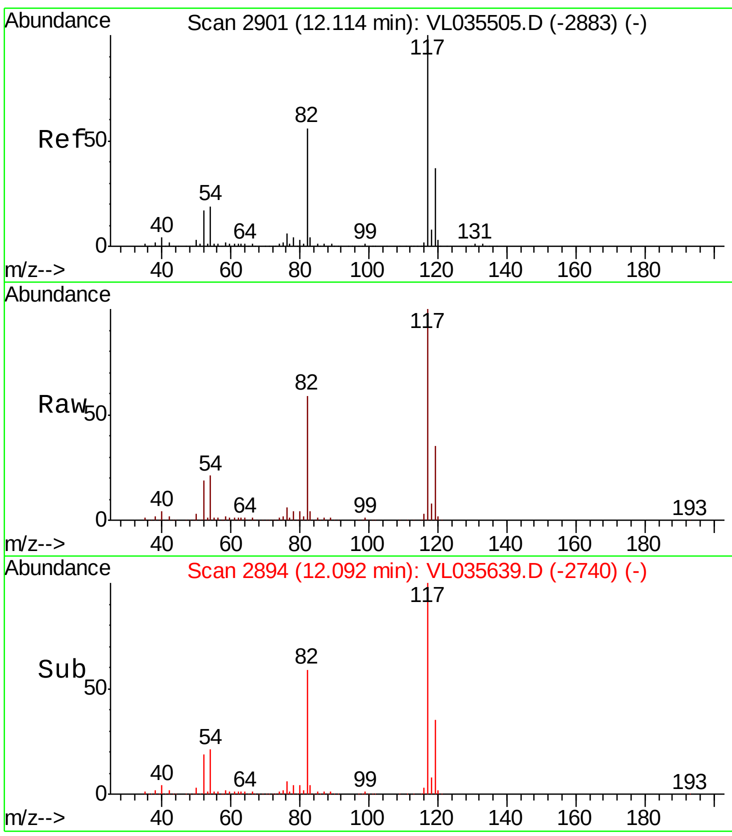
#53
Toluene
Concen: 0.690 ppbv
RT: 9.81 min   Scan# 2183
Delta R.T.   -0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020   21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 91 Resp: 225301

Ion	Ratio	Lower	Upper
91	100		
92	60.1	49.8	74.8

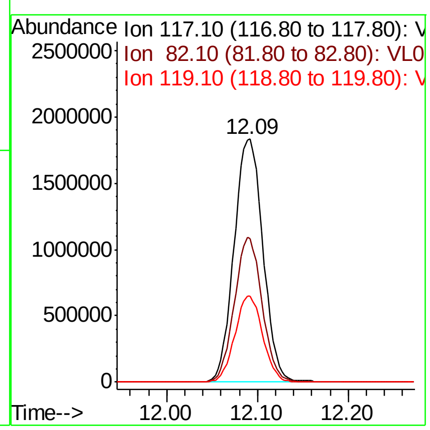


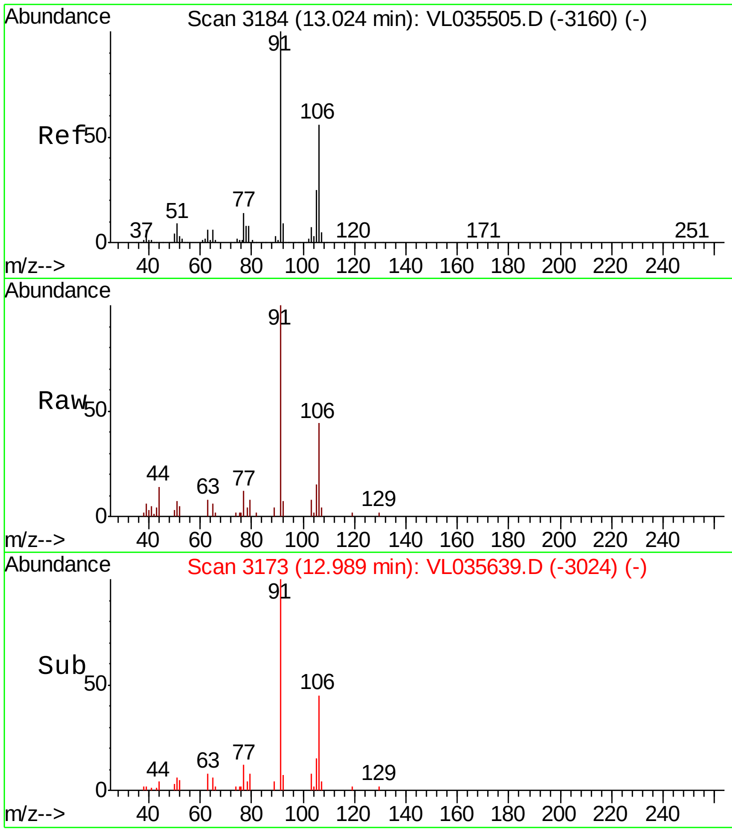


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min   Scan# 2894
Delta R.T.   -0.00 min
Lab File: VL035639.D
Acq: 16 Sep 2020   21:45

Tgt Ion:117 Resp: 4067364

Ion	Ratio	Lower	Upper
117	100		
82	57.1	41.6	62.4
119	34.3	29.3	43.9



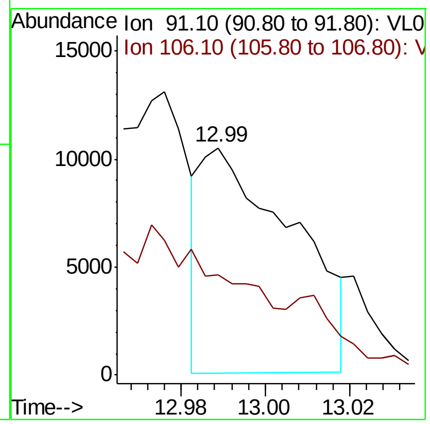


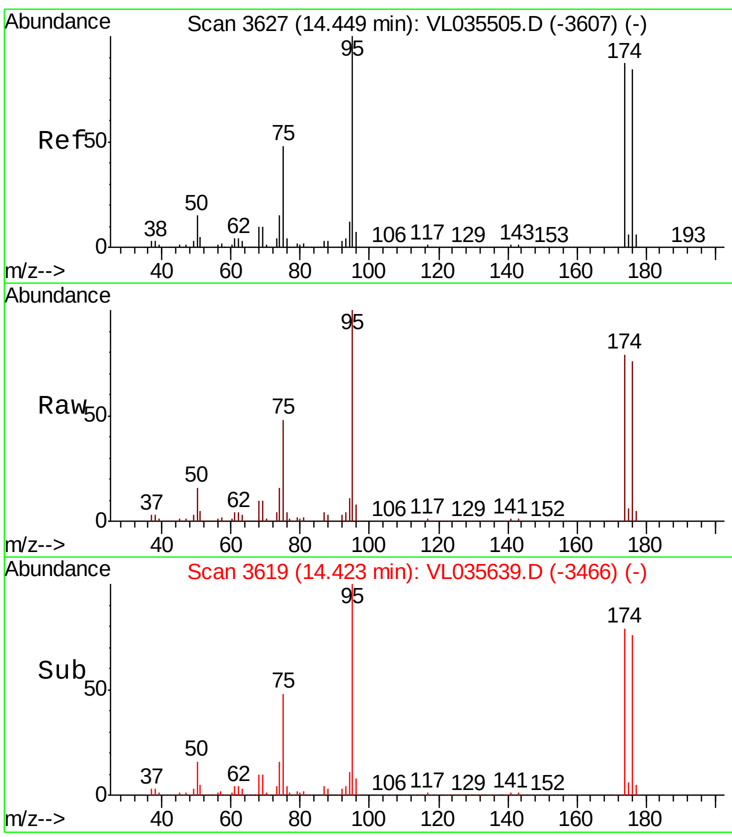
#59
m/p-Xylene
Concen: 0.045 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. -0.02 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y02

Tgt Ion: 91 Resp: 15798

Ion	Ratio	Lower	Upper
91	100		
106	0.0	43.4	65.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.614 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035639.D
Acq: 16 Sep 2020 21:45

Tgt Ion: 95 Resp: 3065707

Ion	Ratio	Lower	Upper
95	100		
174	78.7	69.6	104.4
175	5.6	5.1	7.7