Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041931.D
Acq On : 20 Jan 2025 21:59
Operator : SY/MD
Sample : Q1090-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 21 03:09:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.777	49	143675	10.000	ppbv		-0.02
33) 1,4-Difluorobenzene	3.943	114	408890	10.000	ppbv		-0.03
55) Chlorobenzene-d5	8.865	117	375860	10.000	ppbv		-0.03
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.364	95	295570	9.984	ppbv		-0.03
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.492	85	5385	0.275	ppbv		98
3) Chlorodifluoromethane	1.470	51	7562	0.369	ppbv	#	90
4) Chloromethane	1.525	50	3008	0.409	ppbv	#	78
6) Bromomethane	1.664	94	210	0.059	ppbv	#	72
7) Chloroethane	1.693	64	582	0.201	ppbv	#	87
9) Propene	1.476	41	18632	2.206	ppbv		97
10) Heptane	4.962	43	18075	0.801	ppbv		96
11) Trichlorofluoromethane	1.868	101	2515	0.124	ppbv		84
13) Ethanol	1.716	45	7218	11.668	ppbv	#	31
15) Acetone	1.829	43	182676	10.586	ppbv	#	87
16) 1,3-Butadiene	1.596	39	8732	1.127	ppbv	#	30
17) tert-Butyl alcohol	2.039	59	5822	0.274	ppbv	#	69
19) Isopropyl Alcohol	1.881	45	4949	0.484	ppbv	#	1
20) Methylene Chloride	2.052	84	1351	0.198	ppbv	#	93
21) Allyl Chloride	2.088	41	372	0.031	ppbv	#	8
23) Vinyl Acetate	2.444	43	4649	0.543	ppbv	#	67
25) Ethyl Acetate	2.813	43	78254	1.682	ppbv	#	76
26) Hexane	2.816	57	114679	6.231	ppbv	#	35
27) Carbon Disulfide	2.143	76	2780	0.153	ppbv	#	50
28) Methyl tert-Butyl Ether	2.496	73	662	0.047	ppbv	#	1
29) Chloroform	2.839	83	6003	0.206	ppbv		93
30) Cyclohexane	3.842	84	2194	0.137	ppbv	#	43
34) 2-Butanone	2.551	43	136872	5.264	ppbv		98
35) Carbon Tetrachloride	3.745	117	1881	0.073	ppbv	#	62
36) Benzene	3.638	78	11789	0.314	ppbv	#	94
39) 1,2-Dichloropropane	3.943	63	103004	7.830	ppbv	#	23
40) 1,4-Dioxane	4.600	88	418	0.063	ppbv	#	11
41) Tetrahydrofuran	3.072	42	919	0.065	ppbv	#	65
51) 2-Hexanone	7.396	43	9263	0.340	ppbv	#	27
52) Tetrachloroethene	8.205	164	3359	0.258	ppbv		91
53) Toluene	6.911	91	38661	0.946	ppbv		96
57) Chlorobenzene	8.859	112	1386	0.040	ppbv	#	41
58) Ethyl Benzene	9.542	91	10352	0.176	ppbv		90
59) m/p-Xylene	9.542	91	10352	0.220	ppbv		89
60) o-Xylene	9.950	91	12559	0.269	ppbv		100
66) Benzyl Chloride	11.591	91	129	0.032	ppbv	#	66
77) 1,2-Dichlorobenzene	11.934	146	1913	0.061	ppbv	#	19

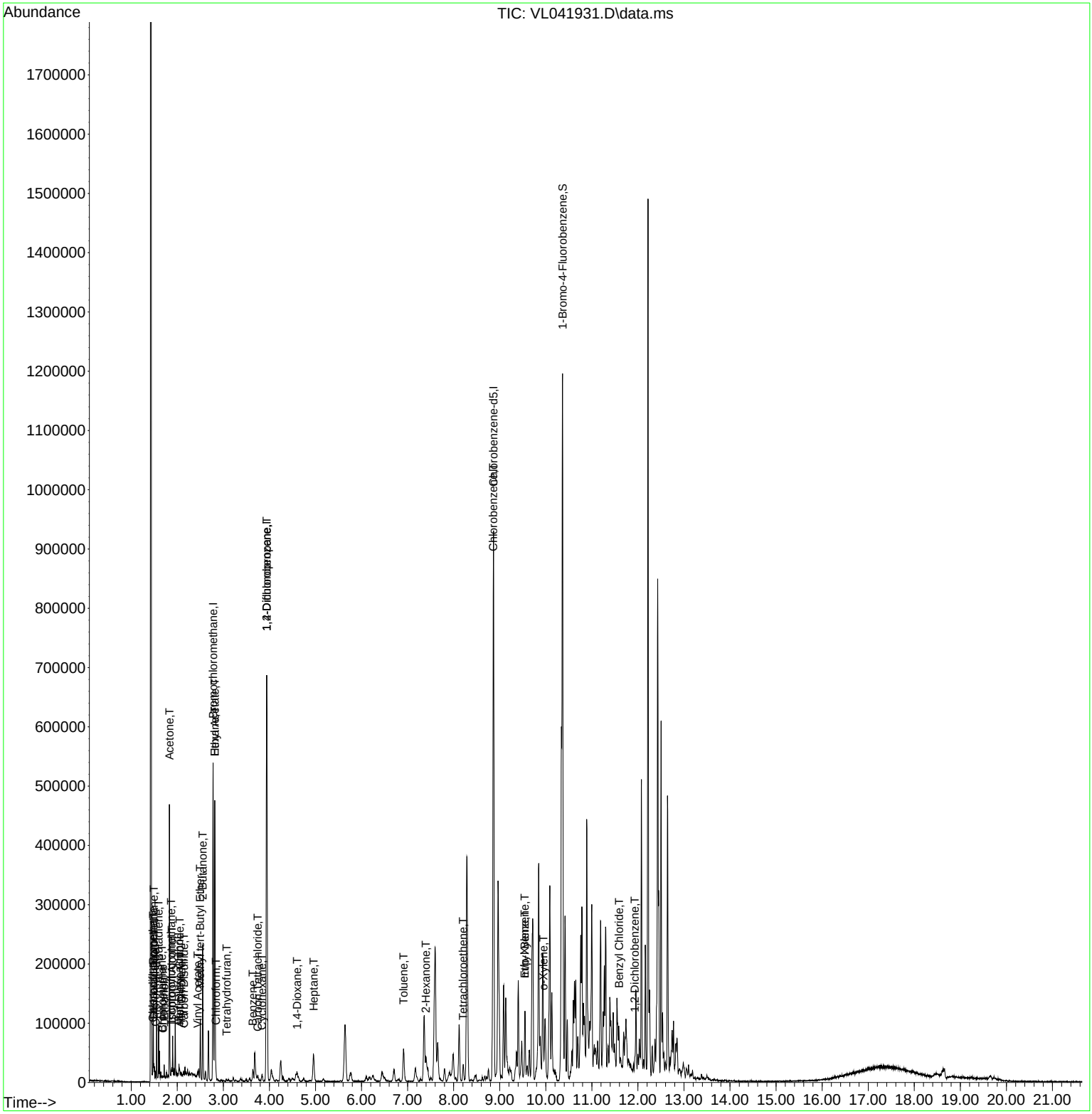
(#) = qualifier out of range (m) = manual integration (+) = signals summed

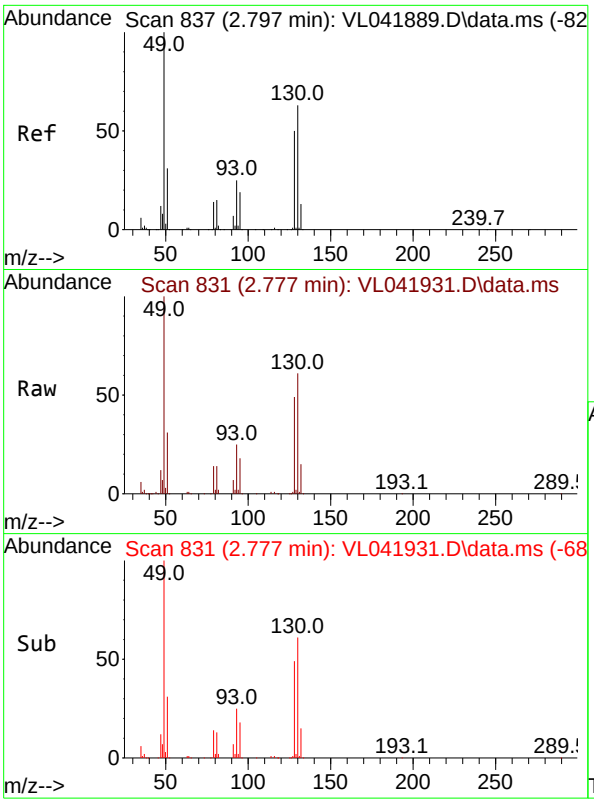
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041931.D
Acq On : 20 Jan 2025 21:59
Operator : SY/MD
Sample : Q1090-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 21 03:09:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



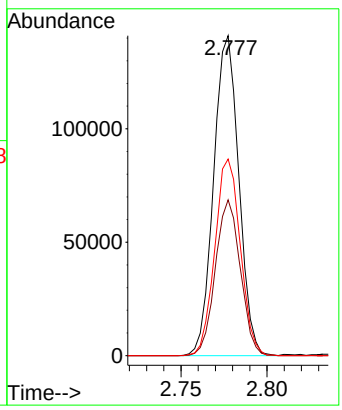


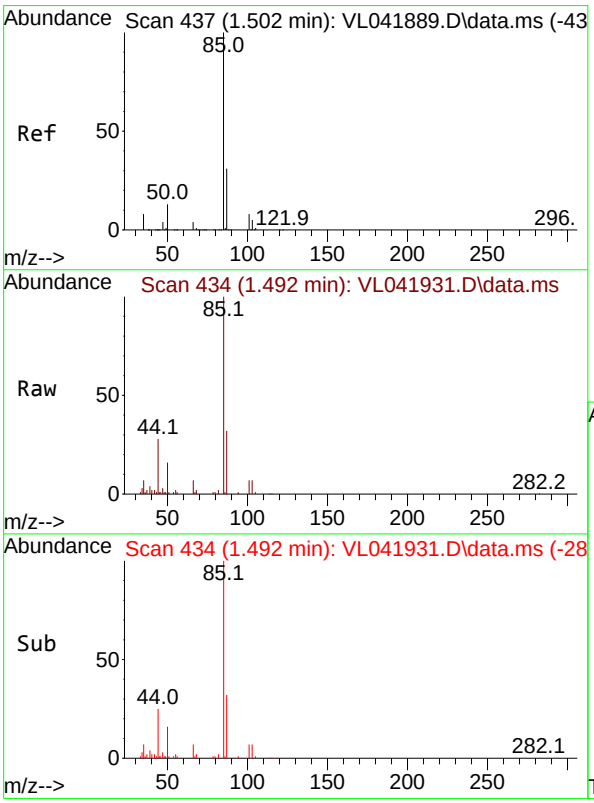
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 8
Delta R.T. -0.020 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 143675

Ion	Ratio	Lower	Upper
49	100		
128	48.3	24.3	73.0
130	62.2	31.1	93.2

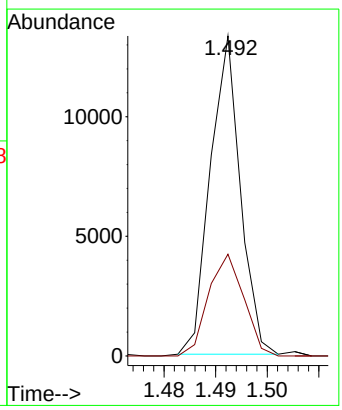


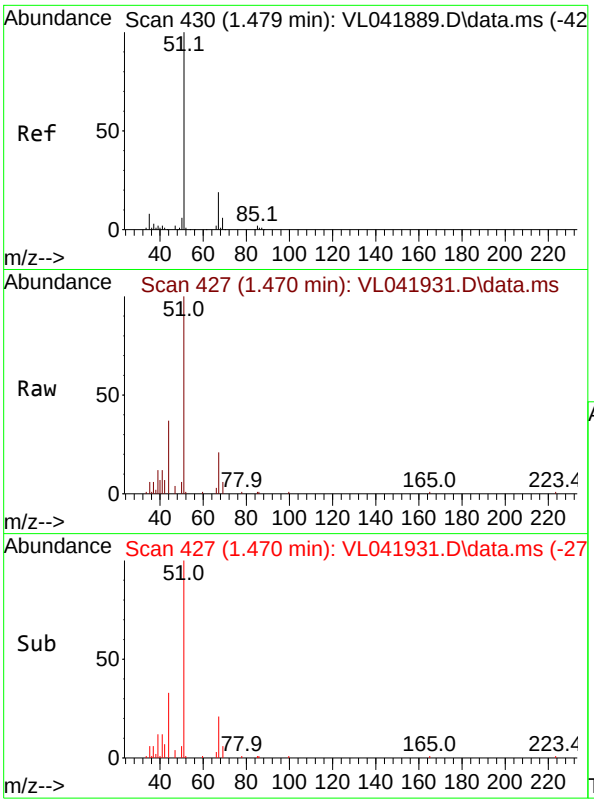


#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 85 Resp: 5385

Ion	Ratio	Lower	Upper
85	100		
87	32.0	24.9	37.3



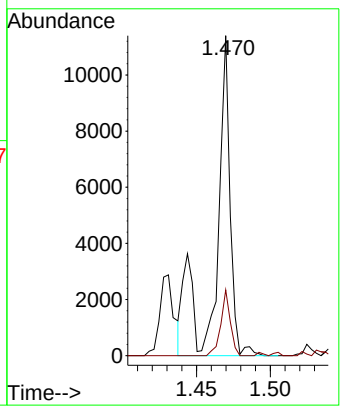


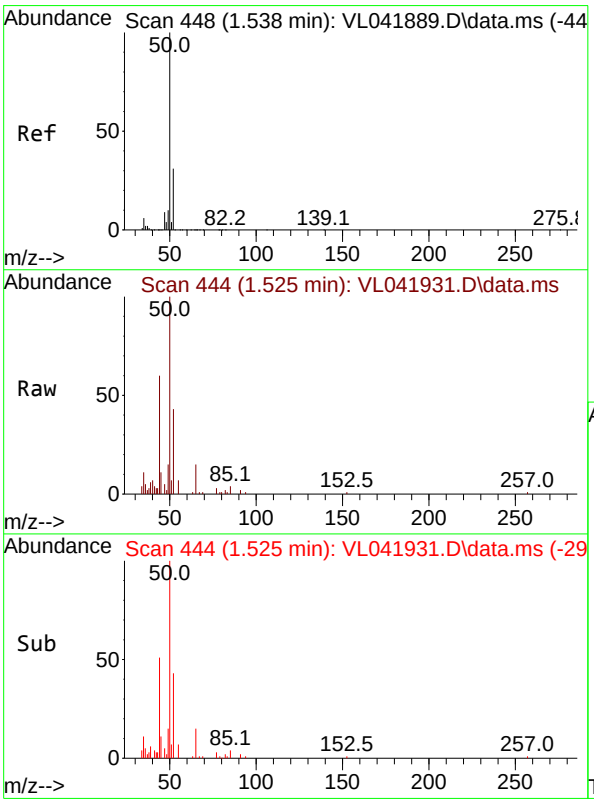
#3
Chlorodifluoromethane
Concen: 0.369 ppbv
RT: 1.470 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 7562

Ion	Ratio	Lower	Upper
51	100		
67	14.4	15.0	22.4#

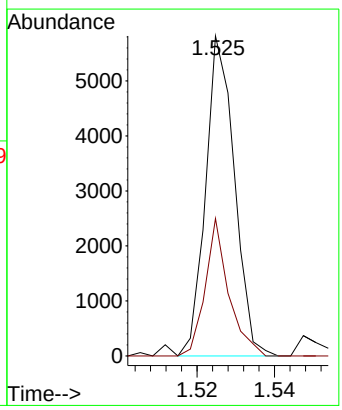


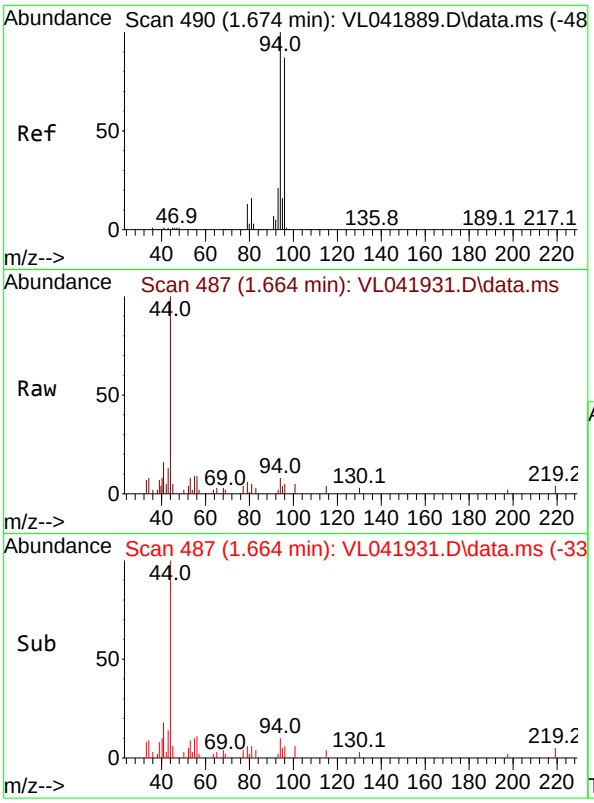


#4
Chloromethane
Concen: 0.409 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 50 Resp: 3008

Ion	Ratio	Lower	Upper
50	100		
52	42.9	24.6	36.8#



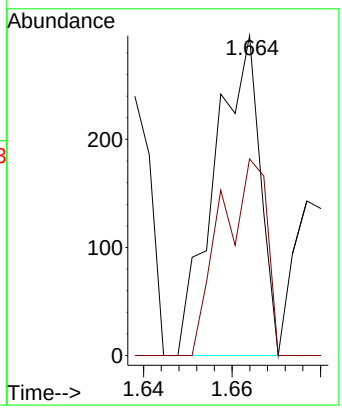


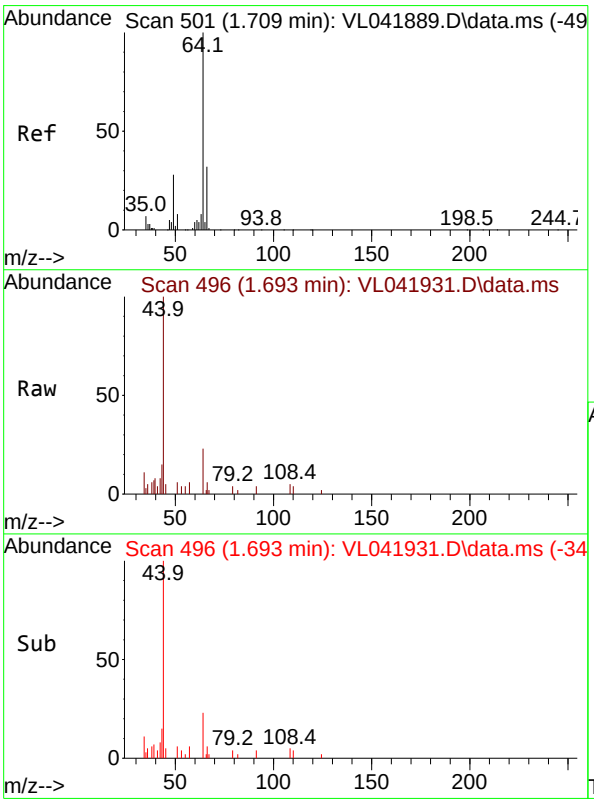
#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.664 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 94 Resp: 210

Ion	Ratio	Lower	Upper
94	100		
96	61.5	69.5	104.3#

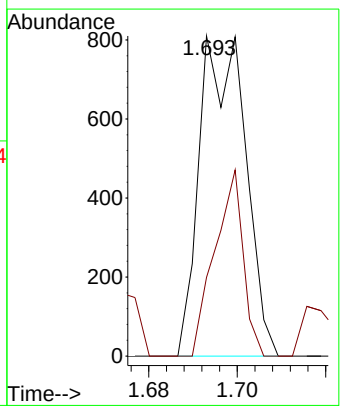


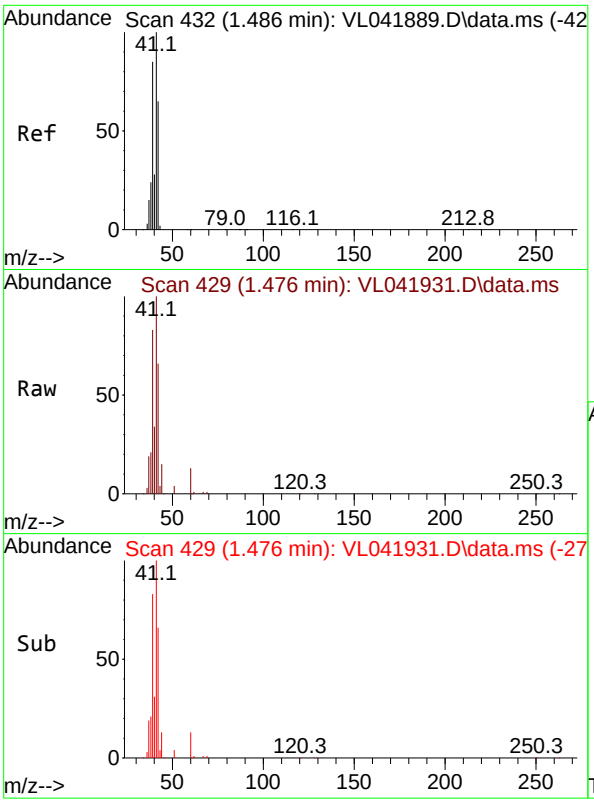


#7
Chloroethane
Concen: 0.201 ppbv
RT: 1.693 min Scan# 496
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 64 Resp: 582

Ion	Ratio	Lower	Upper
64	100		
66	24.6	25.7	38.5#



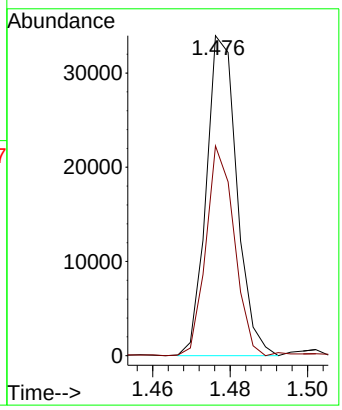


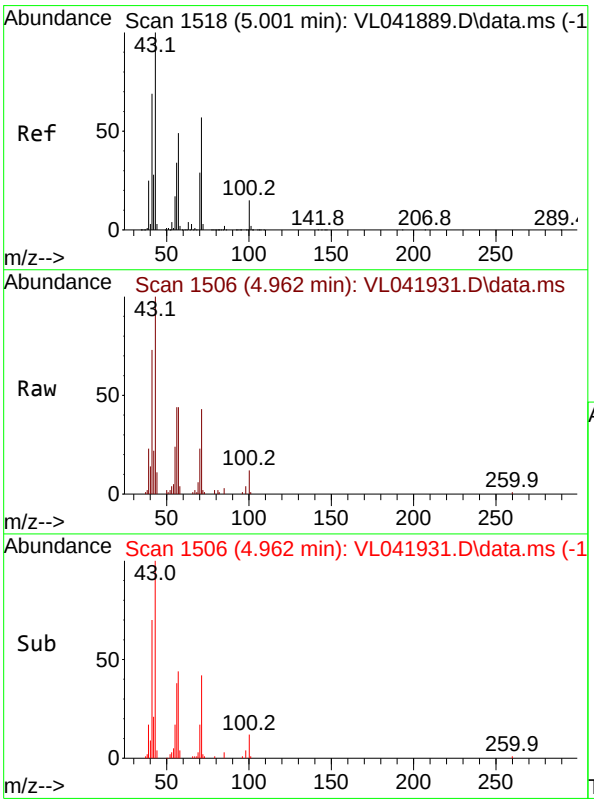
#9
Propene
Concen: 2.206 ppbv
RT: 1.476 min Scan# 4
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 41 Resp: 18632

Ion	Ratio	Lower	Upper
41	100		
42	62.6	52.0	78.0

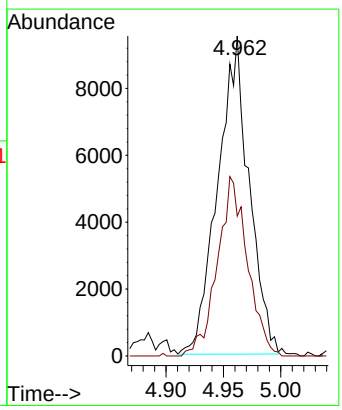


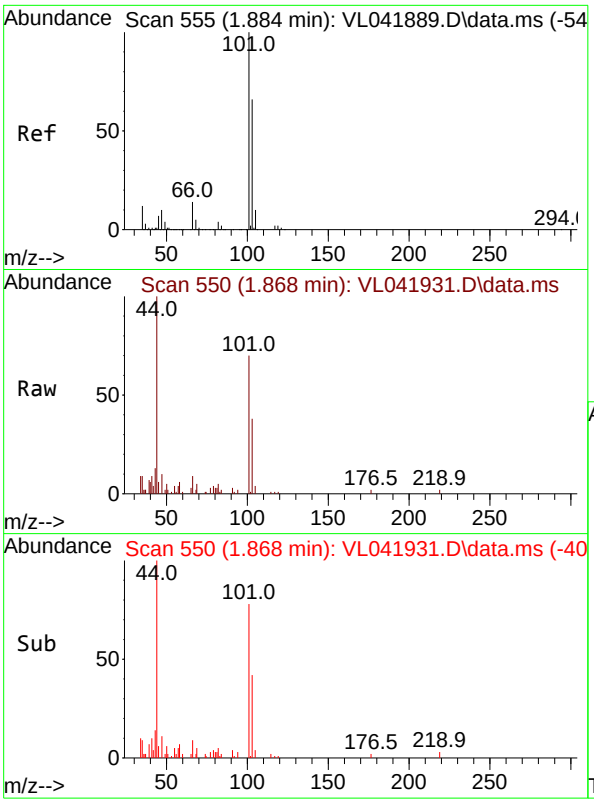


#10
Heptane
Concen: 0.801 ppbv
RT: 4.962 min Scan# 1506
Delta R.T. -0.039 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 43 Resp: 18075

Ion	Ratio	Lower	Upper
43	100		
57	54.1	41.0	61.4



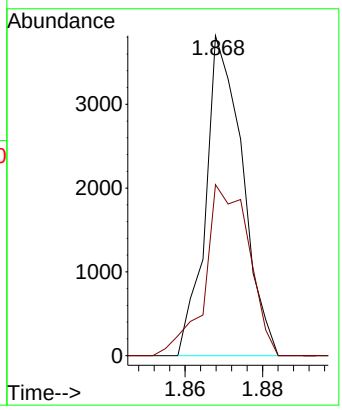


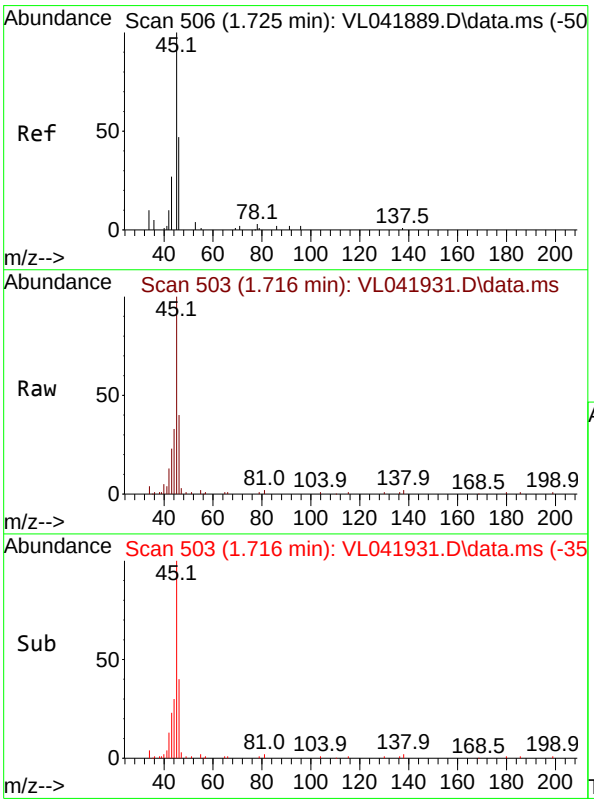
#11
Trichlorofluoromethane
Concen: 0.124 ppbv
RT: 1.868 min Scan# 5
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:101 Resp: 2515

Ion	Ratio	Lower	Upper
101	100		
103	53.4	53.1	79.7

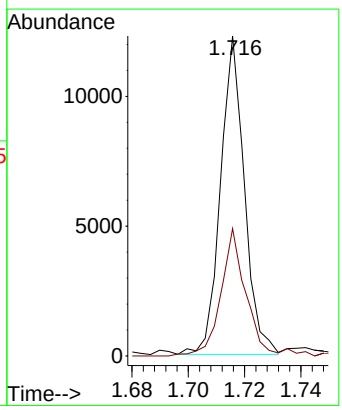


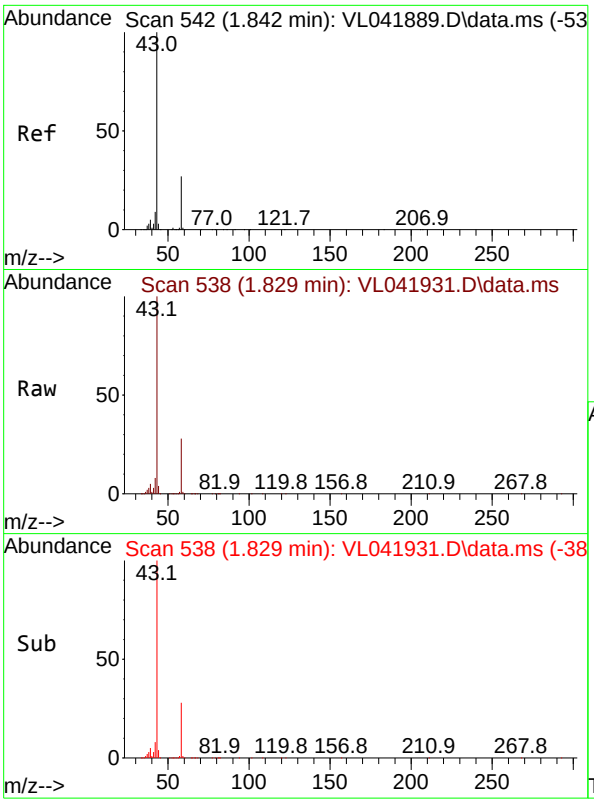


#13
Ethanol
Concen: 11.668 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 45 Resp: 7218

Ion	Ratio	Lower	Upper
45	100		
46	0.0	18.1	72.5#



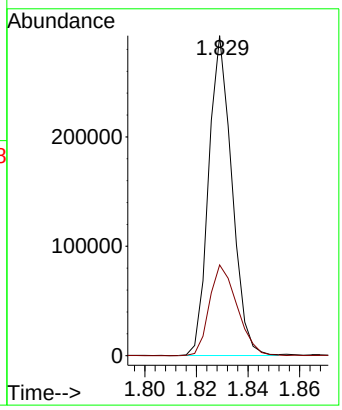


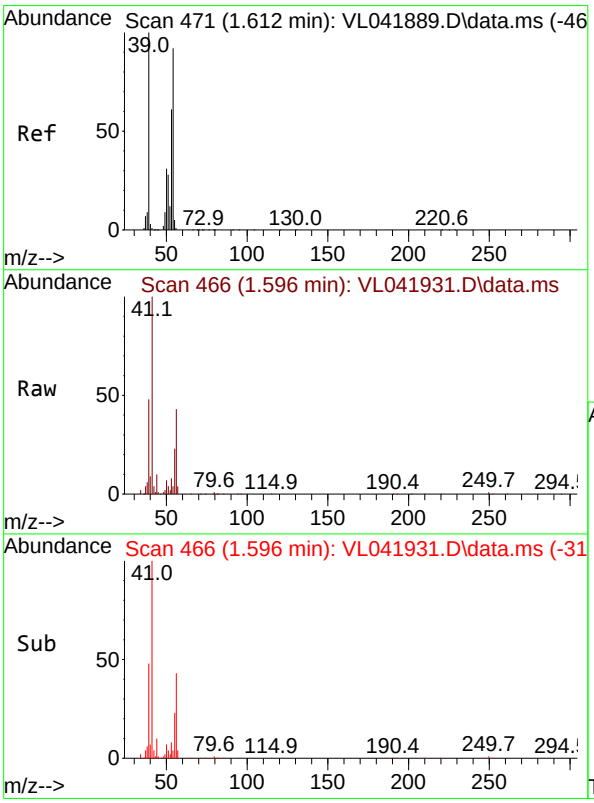
#15
Acetone
Concen: 10.586 ppbv
RT: 1.829 min Scan# 5
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 182676

Ion	Ratio	Lower	Upper
43	100		
58	34.2	21.9	32.9#

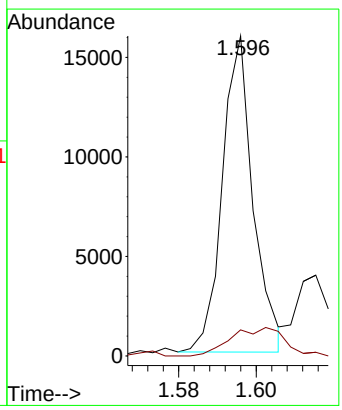


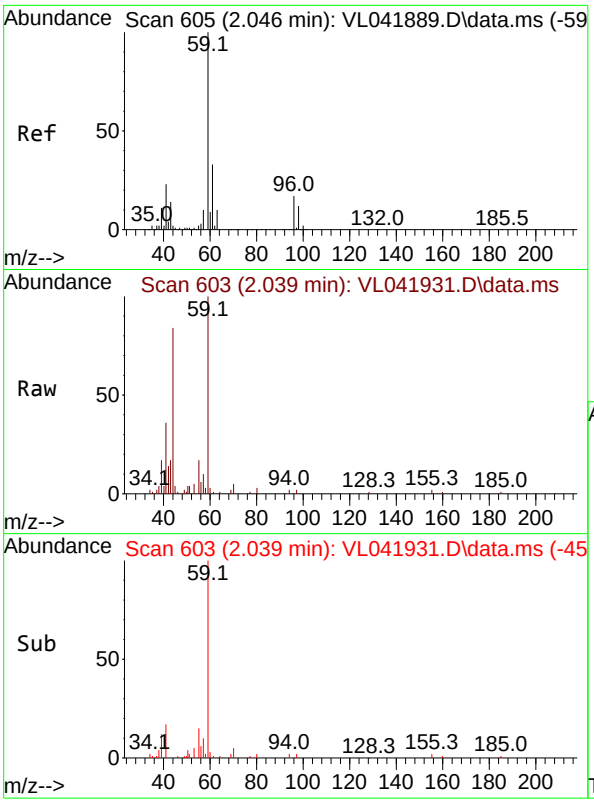


#16
1,3-Butadiene
Concen: 1.127 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 39 Resp: 8732

Ion	Ratio	Lower	Upper
39	100		
54	16.9	61.6	92.4#



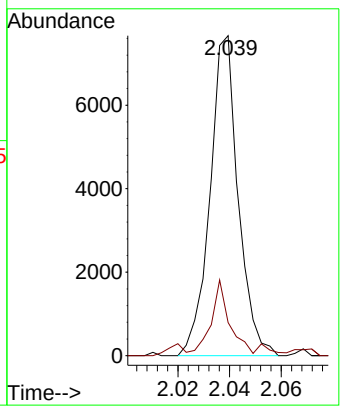


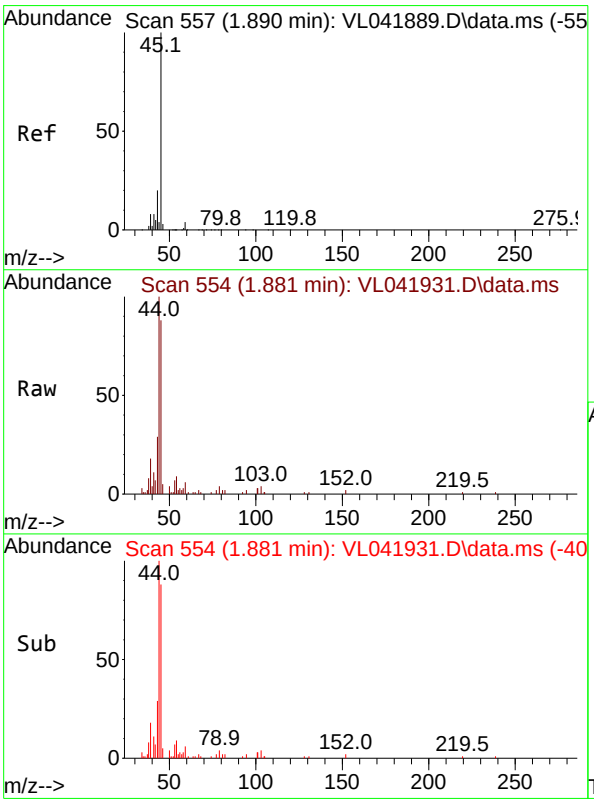
#17
tert-Butyl alcohol
Concen: 0.274 ppbv
RT: 2.039 min Scan# 6
Delta R.T. -0.006 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 59 Resp: 5822

Ion	Ratio	Lower	Upper
59	100		
57	21.4	7.8	11.8#

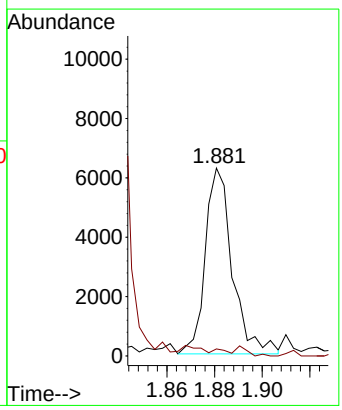


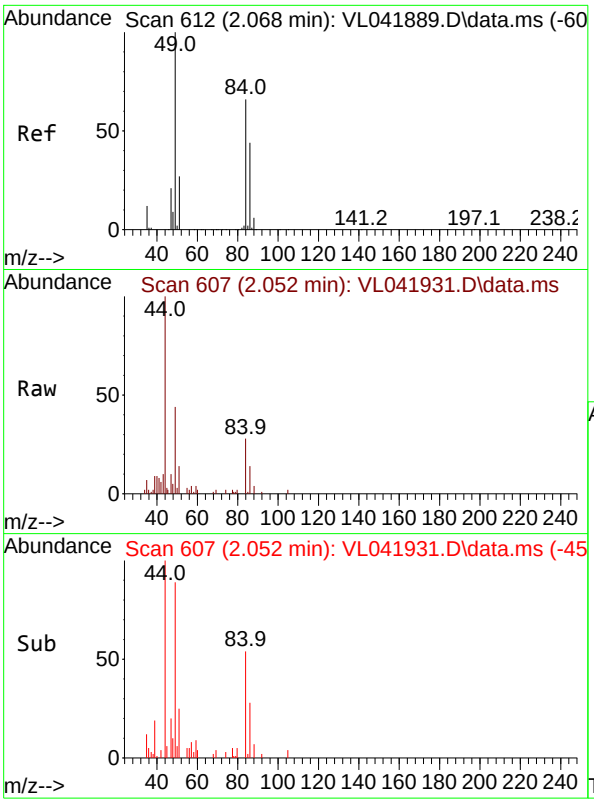


#19
Isopropyl Alcohol
Concen: 0.484 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.010 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 45 Resp: 4949

Ion	Ratio	Lower	Upper
45	100		
58	1254.5	35.0	52.6#



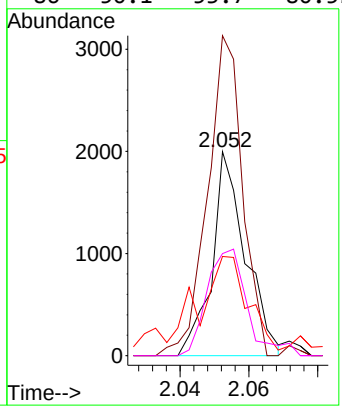


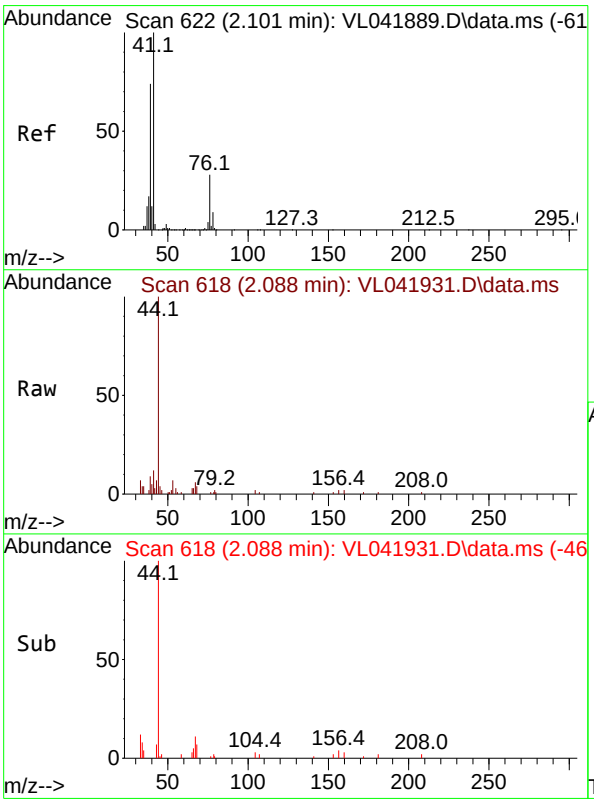
#20
Methylene Chloride
Concen: 0.198 ppbv
RT: 2.052 min Scan# 6
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 1351

Ion	Ratio	Lower	Upper
84	100		
49	156.9	123.1	184.7
51	45.9	35.8	53.8
86	50.1	53.7	80.5#

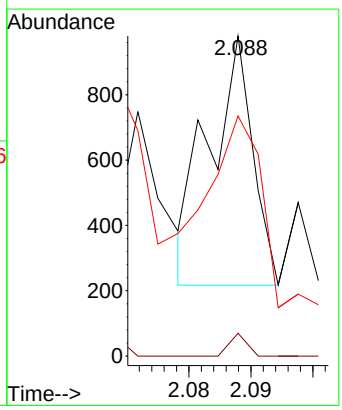


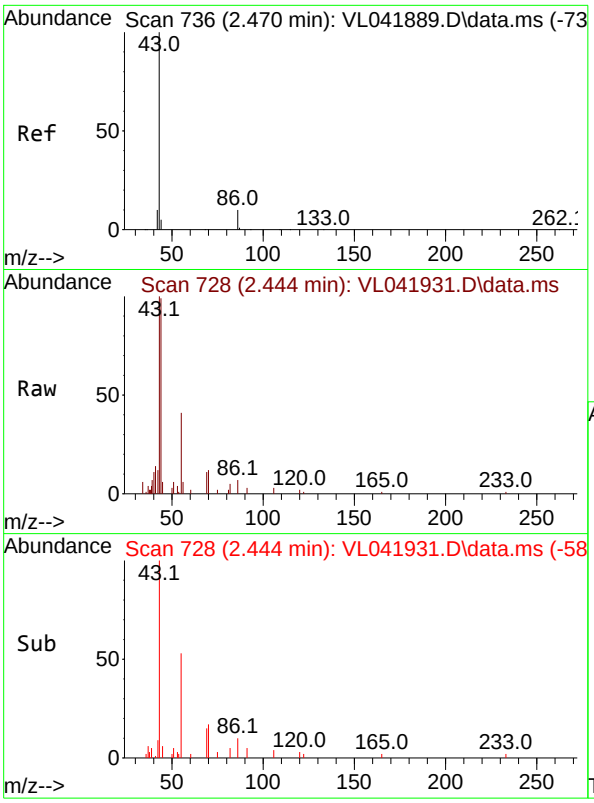


#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 2.088 min Scan# 618
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 41 Resp: 372

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.2	36.4#
39	167.2	60.6	91.0#



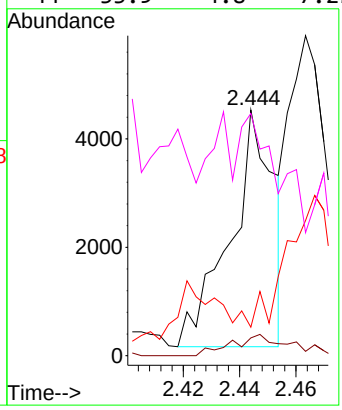


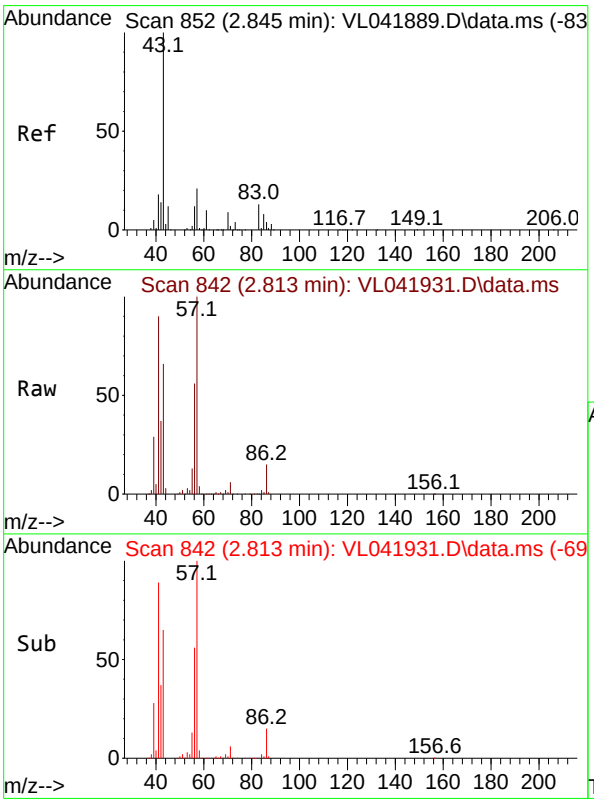
#23
Vinyl Acetate
Concen: 0.543 ppbv
RT: 2.444 min Scan# 7
Delta R.T. -0.026 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 4649

Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.2	9.4
42	0.0	8.5	12.7#
44	33.9	4.8	7.2#

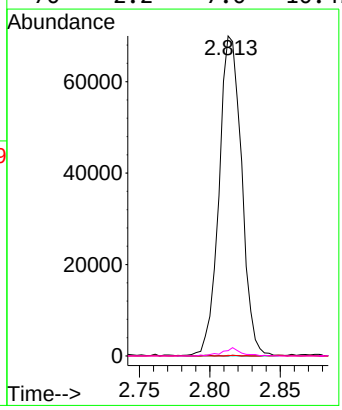


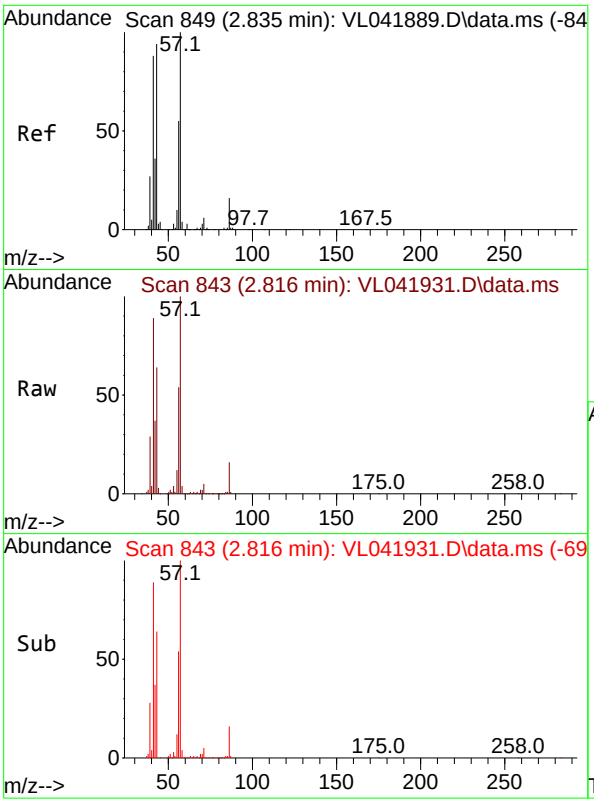


#25
Ethyl Acetate
Concen: 1.682 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 43 Resp: 78254

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.1	7.4	11.0#
70	2.2	7.0	10.4#



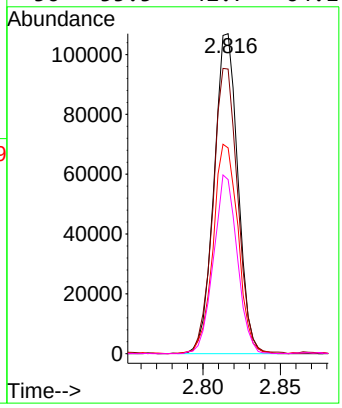


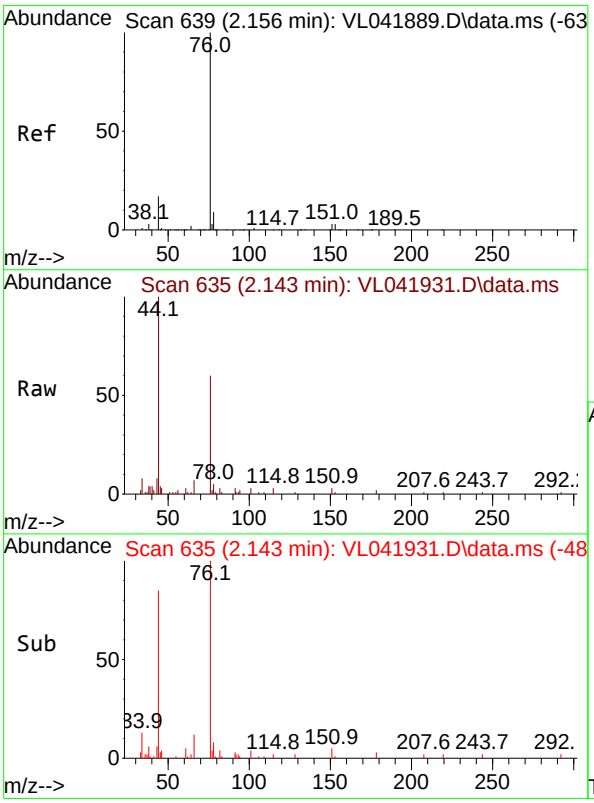
#26
Hexane
Concen: 6.231 ppbv
RT: 2.816 min Scan# 84
Delta R.T. -0.019 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 57 Resp: 114679

Ion	Ratio	Lower	Upper
57	100		
41	92.6	73.8	110.8
43	68.8	197.3	295.9#
56	55.5	42.7	64.1

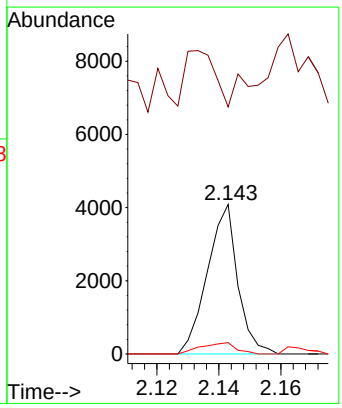


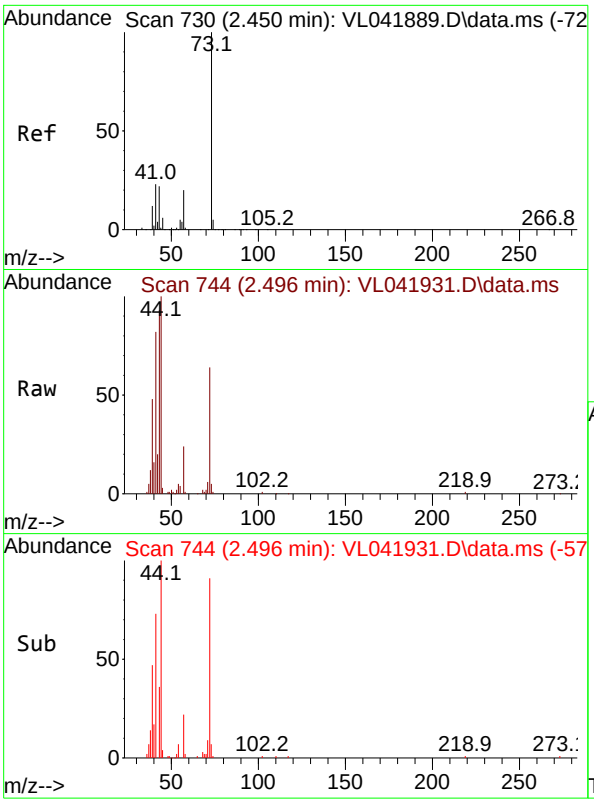


#27
Carbon Disulfide
Concen: 0.153 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.013 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 76 Resp: 2780

Ion	Ratio	Lower	Upper
76	100		
44	53.2	15.4	23.0#
78	8.8	9.3	13.9#



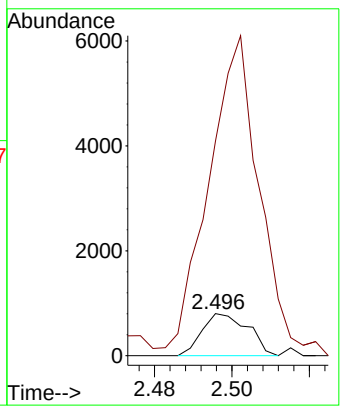


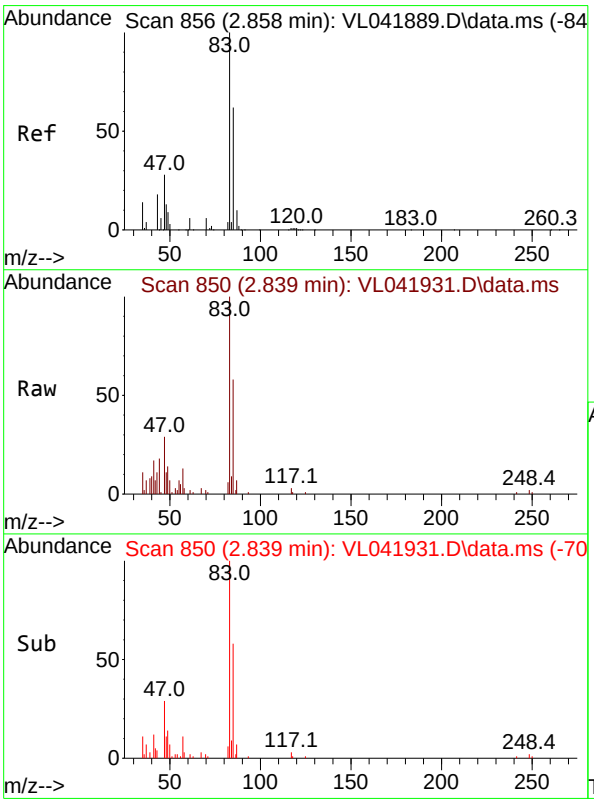
#28
Methyl tert-Butyl Ether
Concen: 0.047 ppbv
RT: 2.496 min Scan# 7
Delta R.T. 0.045 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 73 Resp: 662

Ion	Ratio	Lower	Upper
73	100		
57	951.4	18.1	27.1#

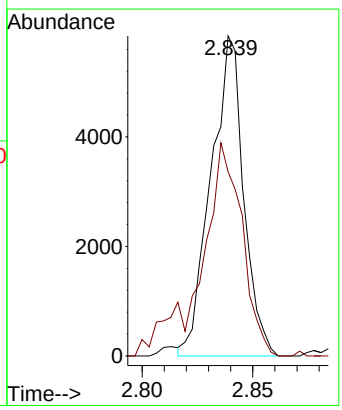


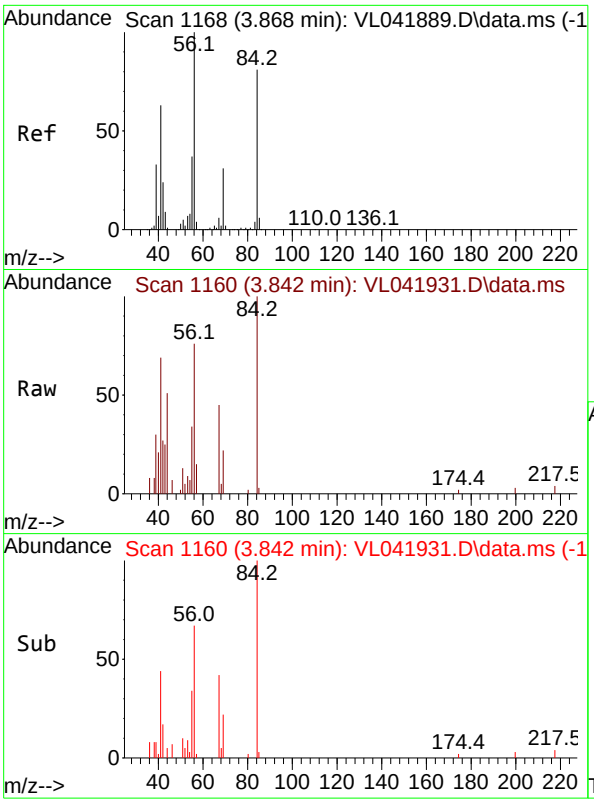


#29
Chloroform
Concen: 0.206 ppbv
RT: 2.839 min Scan# 850
Delta R.T. -0.019 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 83 Resp: 6003

Ion	Ratio	Lower	Upper
83	100		
85	57.5	50.1	75.1



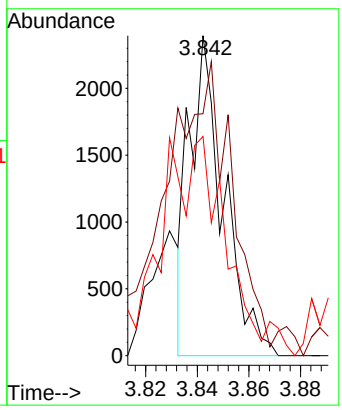


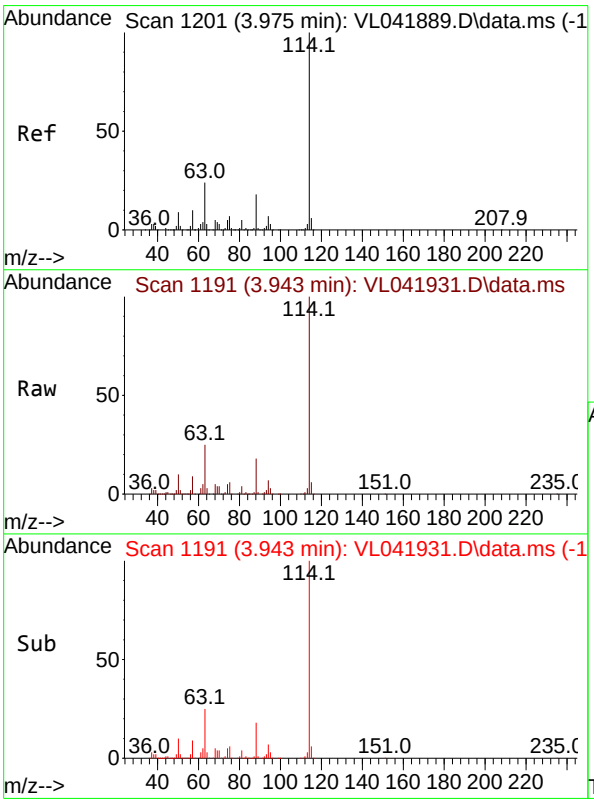
#30
Cyclohexane
Concen: 0.137 ppbv
RT: 3.842 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 2194

Ion	Ratio	Lower	Upper
84	100		
56	189.4	99.3	148.9#
41	129.5	64.3	96.5#

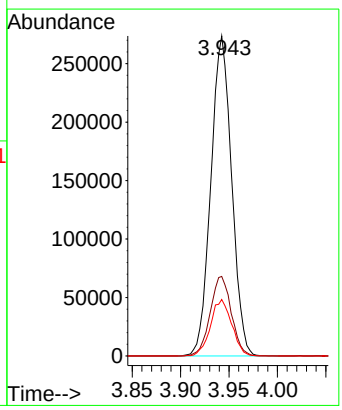


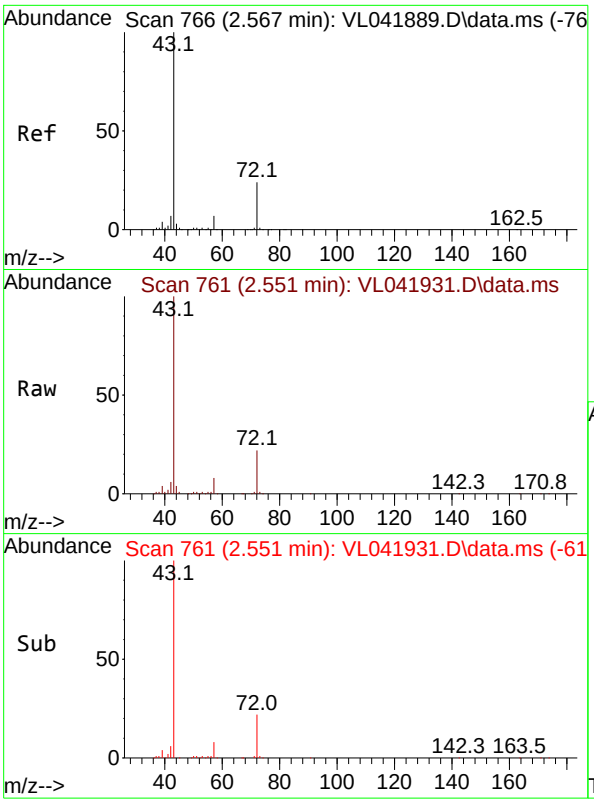


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion:114 Resp: 408890

Ion	Ratio	Lower	Upper
114	100		
63	25.2	19.8	29.6
88	18.0	14.4	21.6



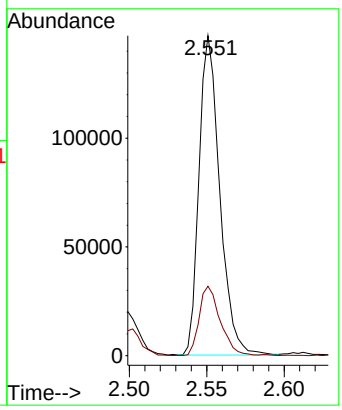


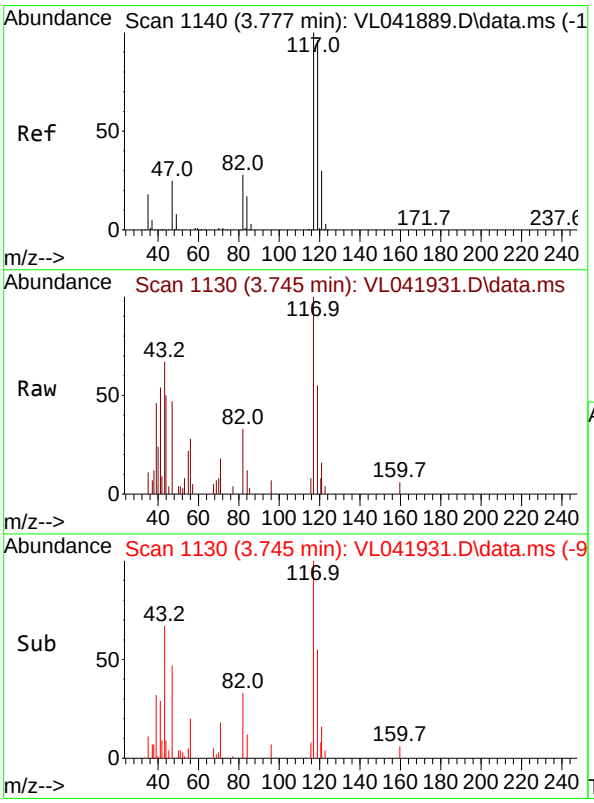
#34
2-Butanone
Concen: 5.264 ppbv
RT: 2.551 min Scan# 7
Delta R.T. -0.016 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 136872

Ion	Ratio	Lower	Upper
43	100		
72	22.1	18.6	28.0

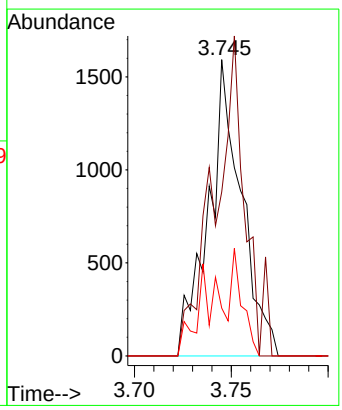


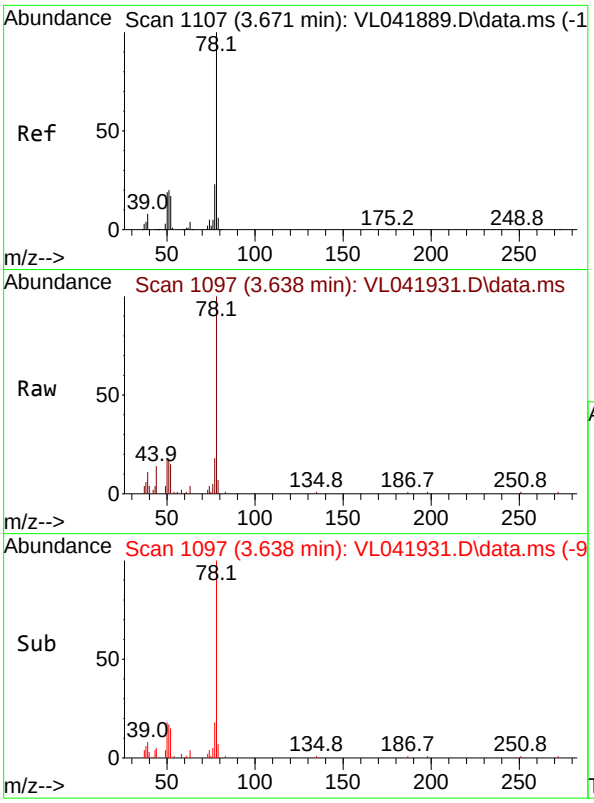


#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.745 min Scan# 1130
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion:117 Resp: 1881

Ion	Ratio	Lower	Upper
117	100		
119	55.3	76.9	115.3#
121	16.1	23.8	35.6#



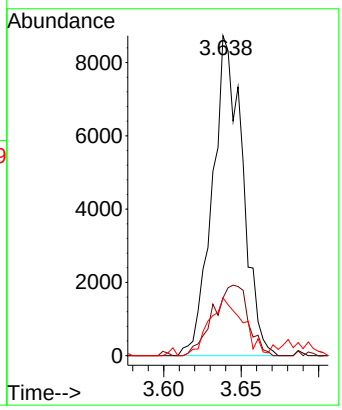


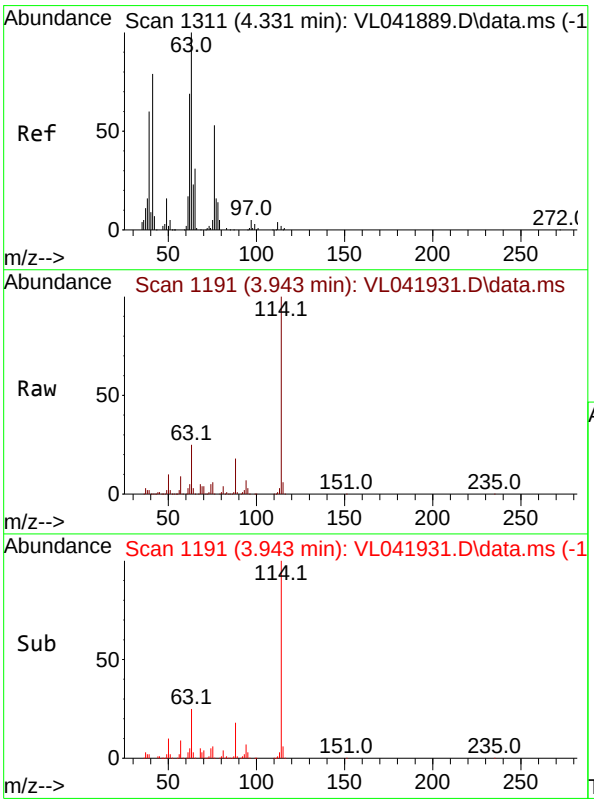
#36
Benzene
Concen: 0.314 ppbv
RT: 3.638 min Scan# 1
Delta R.T. -0.032 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 78 Resp: 11789

Ion	Ratio	Lower	Upper
78	100		
77	18.1	18.1	27.1#
50	18.1	15.2	22.8

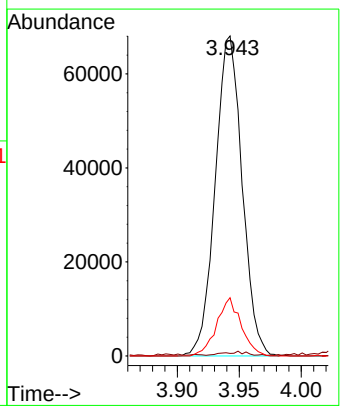


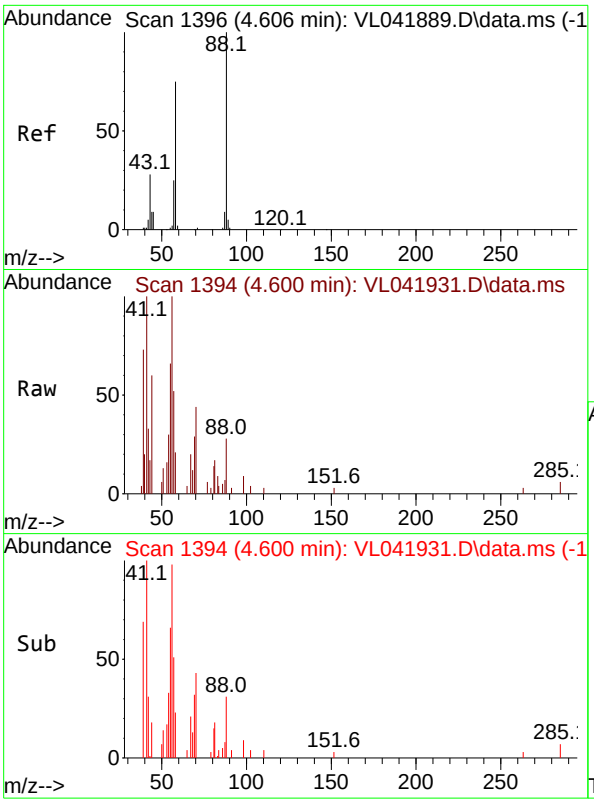


#39
1,2-Dichloropropane
Concen: 7.830 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. -0.388 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 63 Resp: 103004

Ion	Ratio	Lower	Upper
63	100		
41	0.3	63.7	95.5#
62	18.2	55.4	83.2#



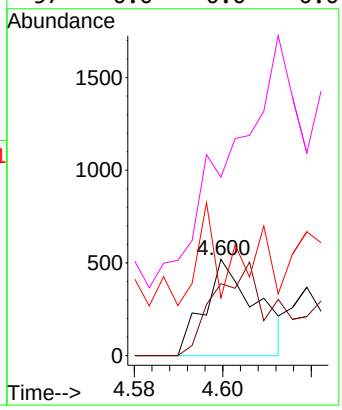


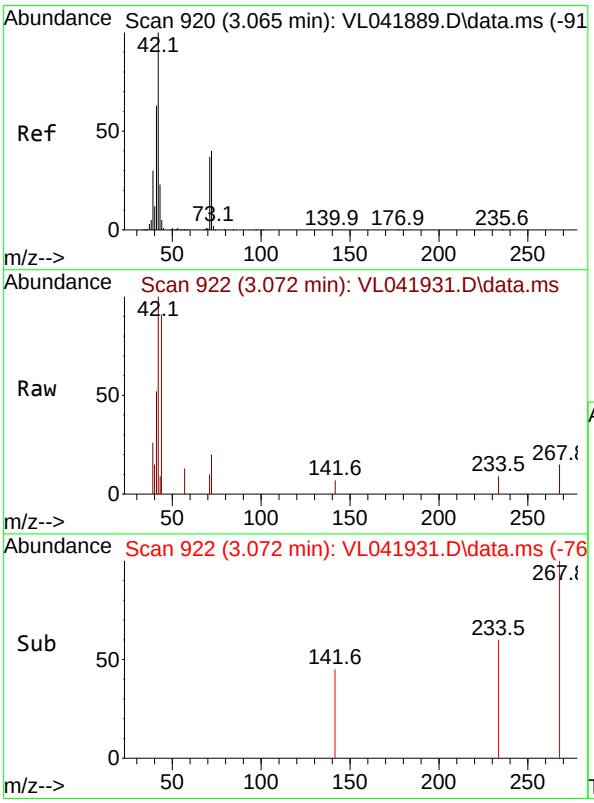
#40
1,4-Dioxane
Concen: 0.063 ppbv
RT: 4.600 min Scan# 1
Delta R.T. -0.006 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 88 Resp: 418

Ion	Ratio	Lower	Upper
88	100		
58	0.0	62.1	93.1#
43	497.1	0.0	0.0#
57	0.0	0.0	0.0

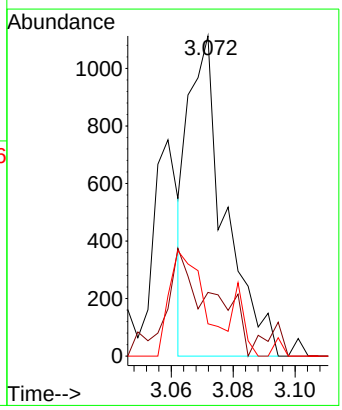


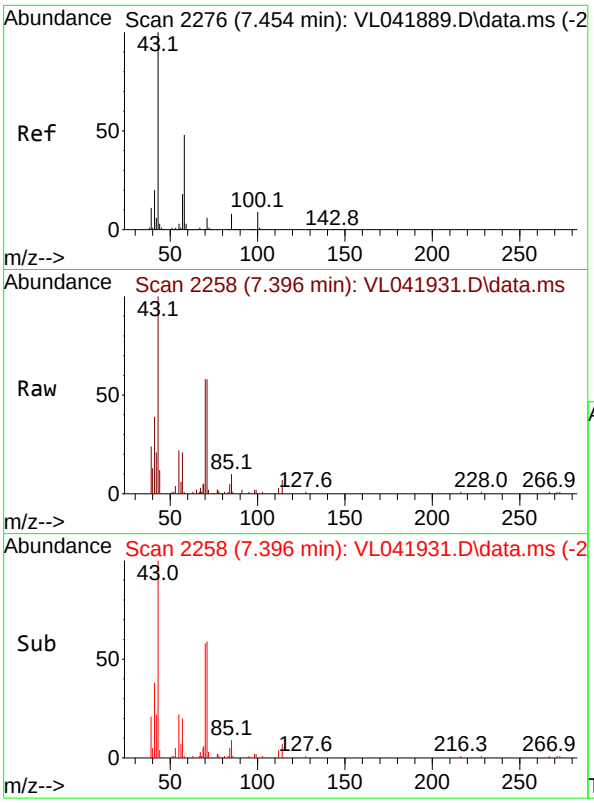


#41
Tetrahydrofuran
Concen: 0.065 ppbv
RT: 3.072 min Scan# 922
Delta R.T. 0.007 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 42 Resp: 919

Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	39.4	29.9	44.9



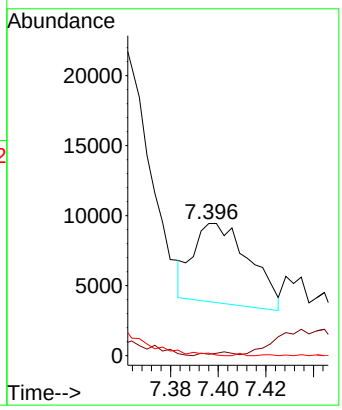


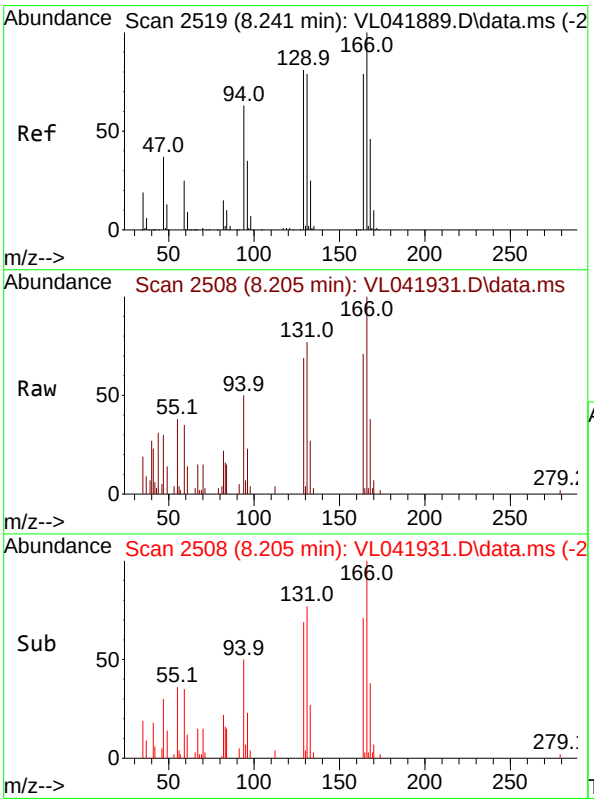
#51
2-Hexanone
Concen: 0.340 ppbv
RT: 7.396 min Scan# 2
Delta R.T. -0.058 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 9263

Ion	Ratio	Lower	Upper
43	100		
58	0.0	40.4	60.6#
98	0.0	0.2	0.2#

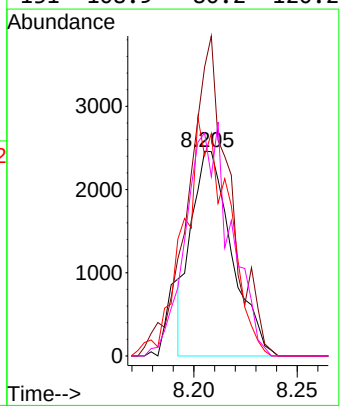


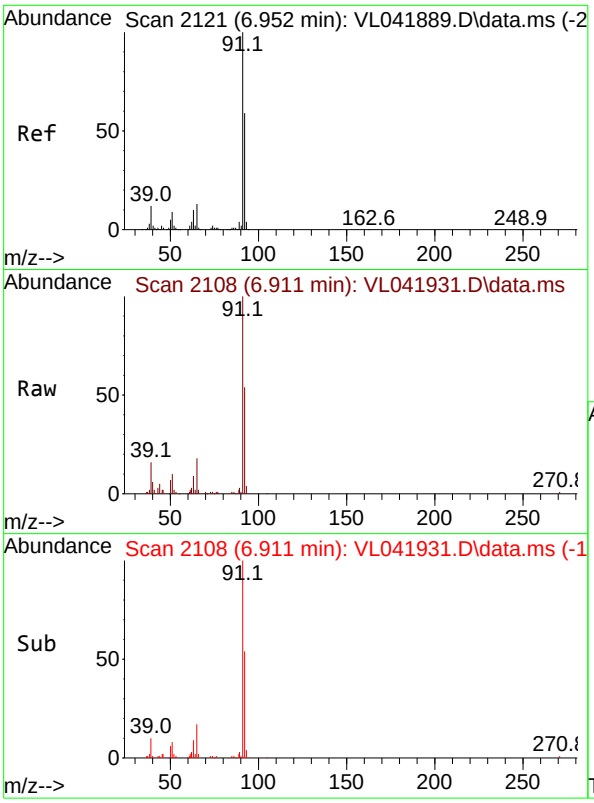


#52
Tetrachloroethene
Concen: 0.258 ppbv
RT: 8.205 min Scan# 2508
Delta R.T. -0.035 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion:164 Resp: 3359

Ion	Ratio	Lower	Upper
164	100		
166	141.2	100.8	151.2
129	97.9	82.0	123.0
131	108.9	80.2	120.2



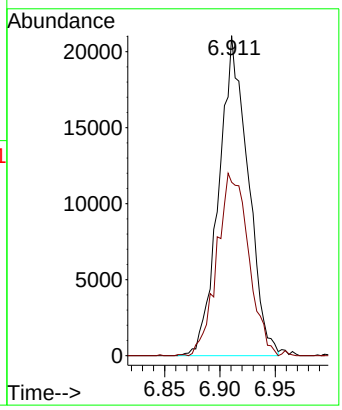


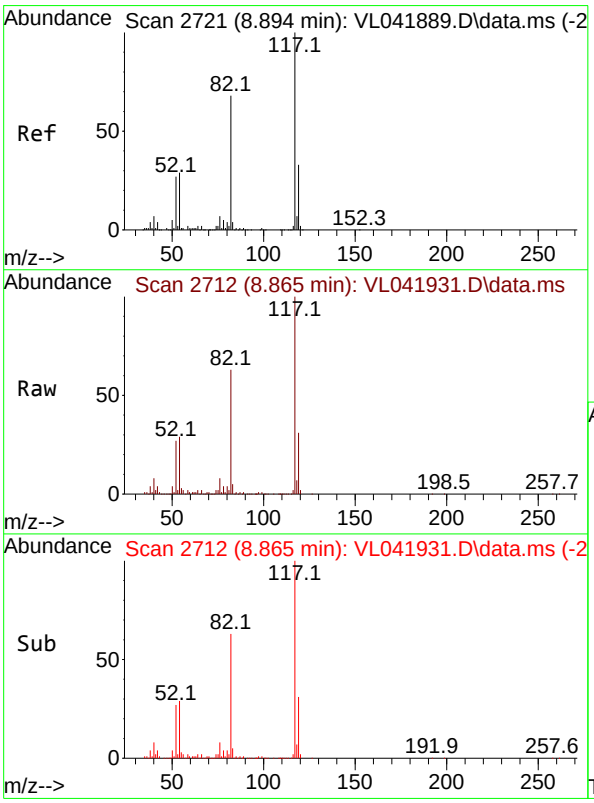
#53
Toluene
Concen: 0.946 ppbv
RT: 6.911 min Scan# 21
Delta R.T. -0.042 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 38661

Ion	Ratio	Lower	Upper
91	100		
92	62.1	47.4	71.0

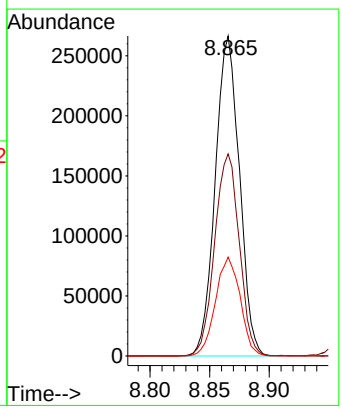


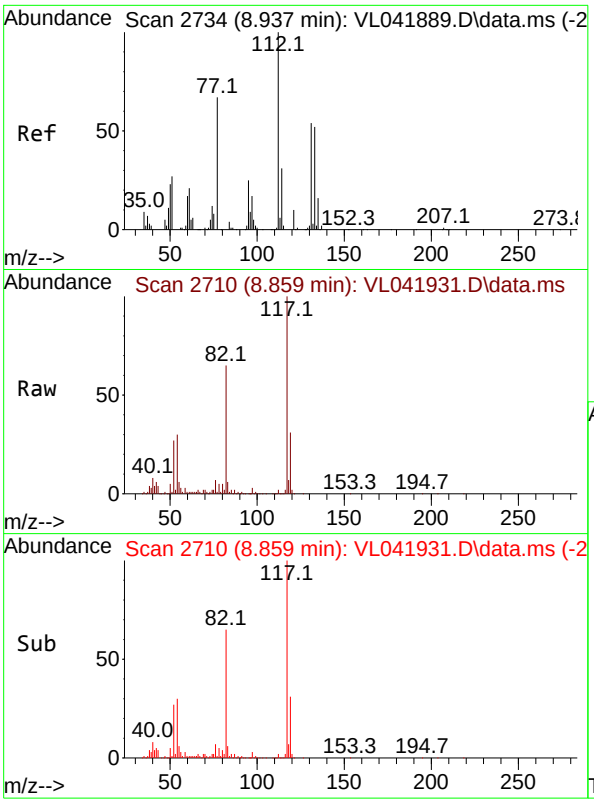


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2712
Delta R.T. -0.029 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion:117 Resp: 375860

Ion	Ratio	Lower	Upper
117	100		
82	64.4	54.2	81.4
119	31.5	25.0	37.6



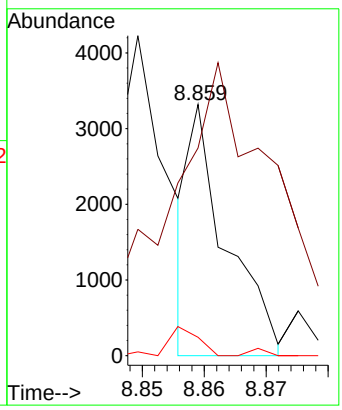


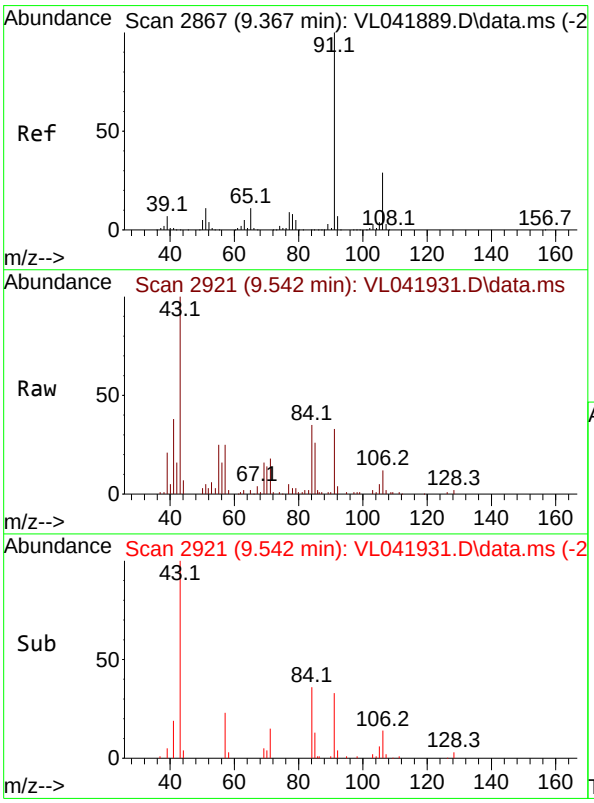
#57
Chlorobenzene
Concen: 0.040 ppbv
RT: 8.859 min Scan# 2
Delta R.T. -0.078 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:112 Resp: 1386

Ion	Ratio	Lower	Upper
112	100		
77	14.7	54.6	82.0#
114	7.7	28.2	34.4#

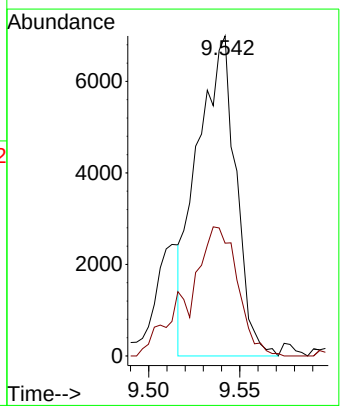


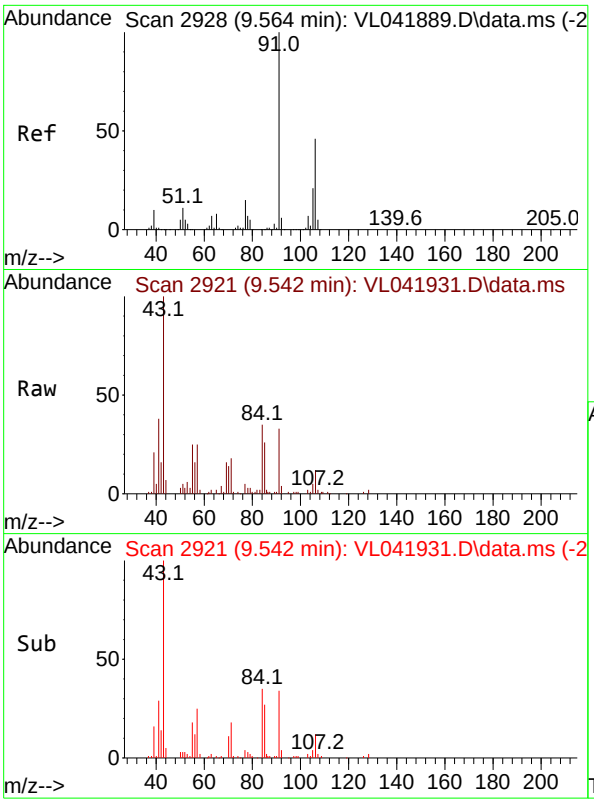


#58
Ethyl Benzene
Concen: 0.176 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. 0.175 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 91 Resp: 10352

Ion	Ratio	Lower	Upper
91	100		
106	34.5	23.1	34.7



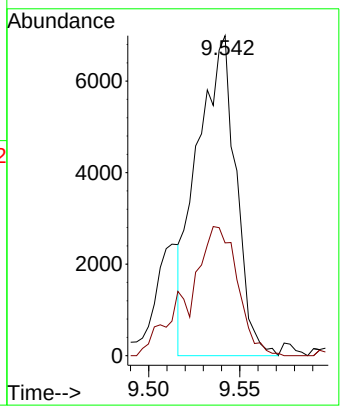


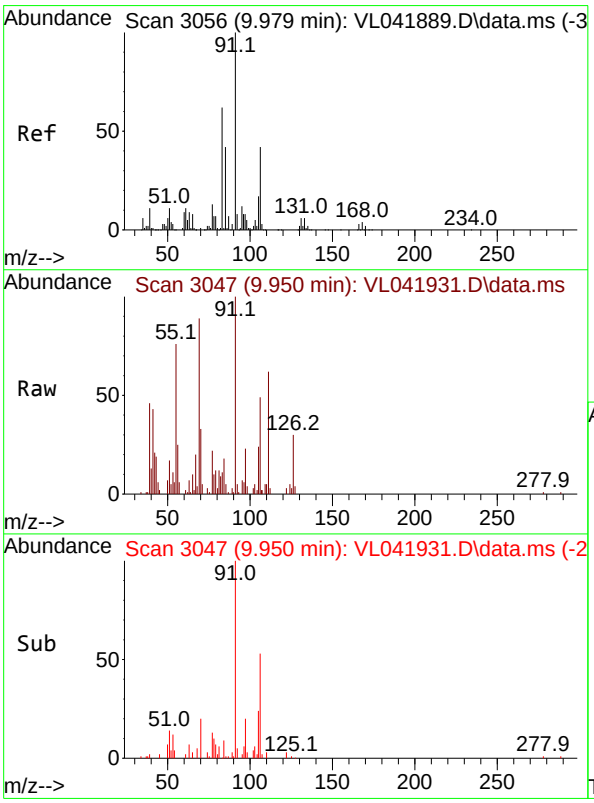
#59
m/p-Xylene
Concen: 0.220 ppbv
RT: 9.542 min Scan# 2
Delta R.T. -0.023 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 10352

Ion	Ratio	Lower	Upper
91	100		
106	52.1	36.0	54.0

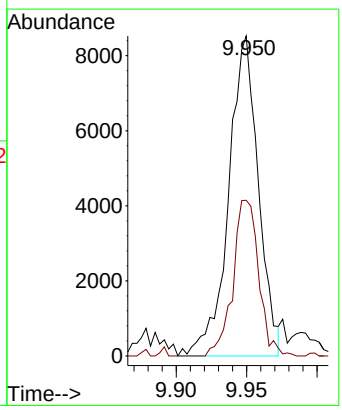


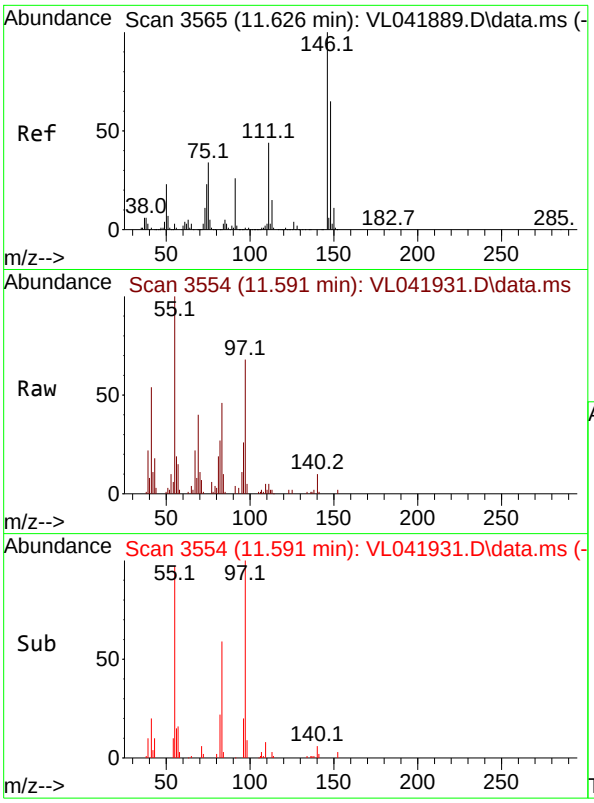


#60
o-Xylene
Concen: 0.269 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.029 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 91 Resp: 12559

Ion	Ratio	Lower	Upper
91	100		
106	42.3	21.3	63.9



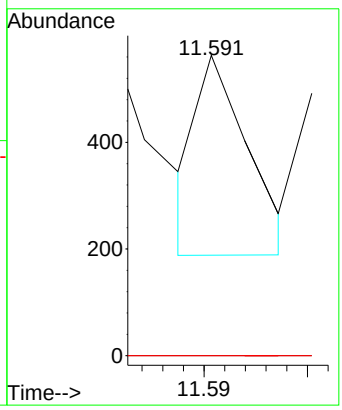


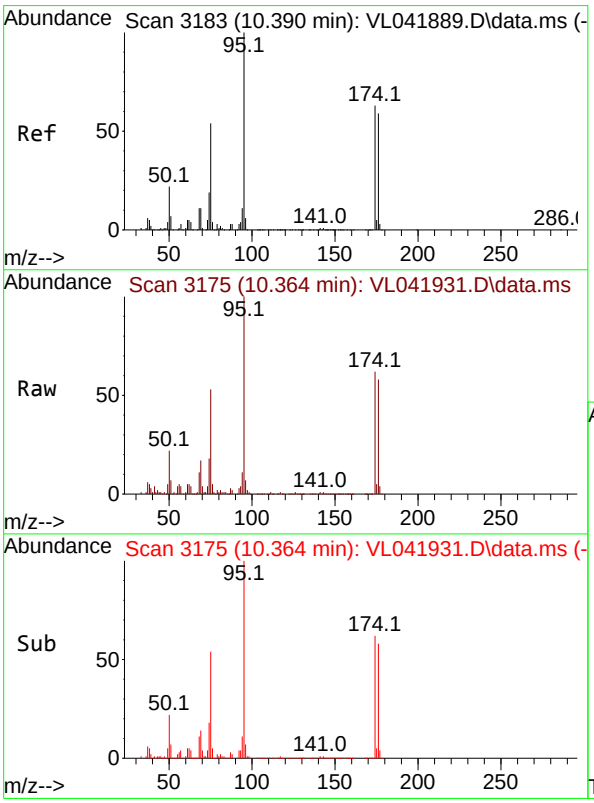
#66
Benzyl Chloride
Concen: 0.032 ppbv
RT: 11.591 min Scan# 3
Delta R.T. -0.035 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 129

Ion	Ratio	Lower	Upper
91	100		
126	0.0	14.1	21.1#
128	0.0	4.3	6.5#

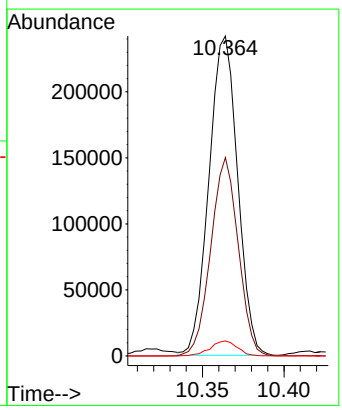


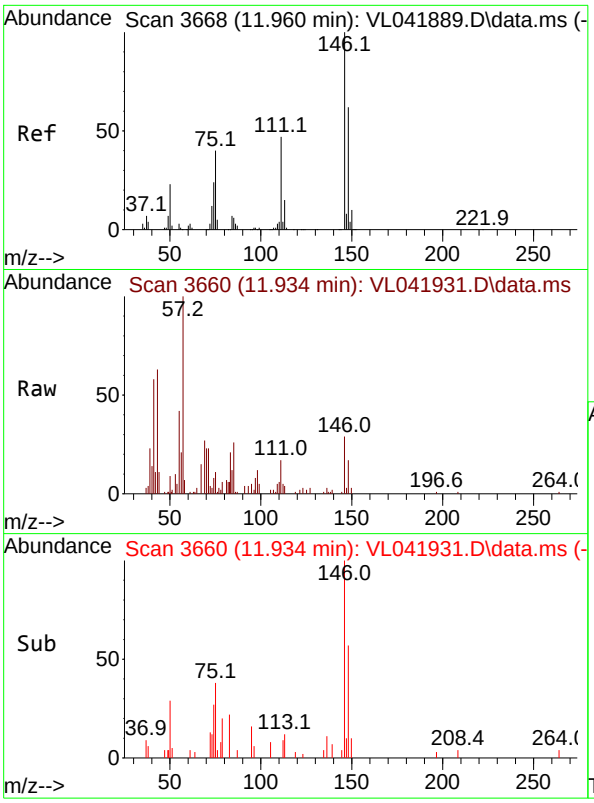


#68
1-Bromo-4-Fluorobenzene
Concen: 9.984 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Tgt Ion: 95 Resp: 295570

Ion	Ratio	Lower	Upper
95	100		
174	59.5	49.0	73.4
175	4.5	3.8	5.8





#77
1,2-Dichlorobenzene
Concen: 0.061 ppbv
RT: 11.934 min Scan# 3
Delta R.T. -0.026 min
Lab File: VL041931.D
Acq: 20 Jan 2025 21:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:146 Resp: 1913

Ion	Ratio	Lower	Upper
146	100		
111	173.7	24.2	72.6#
148	65.4	31.7	95.1