Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042908.D
Acq On : 08 Sep 2025 17:45
Operator : SY/MD
Sample : Q3052-03
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Sep 09 00:58:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

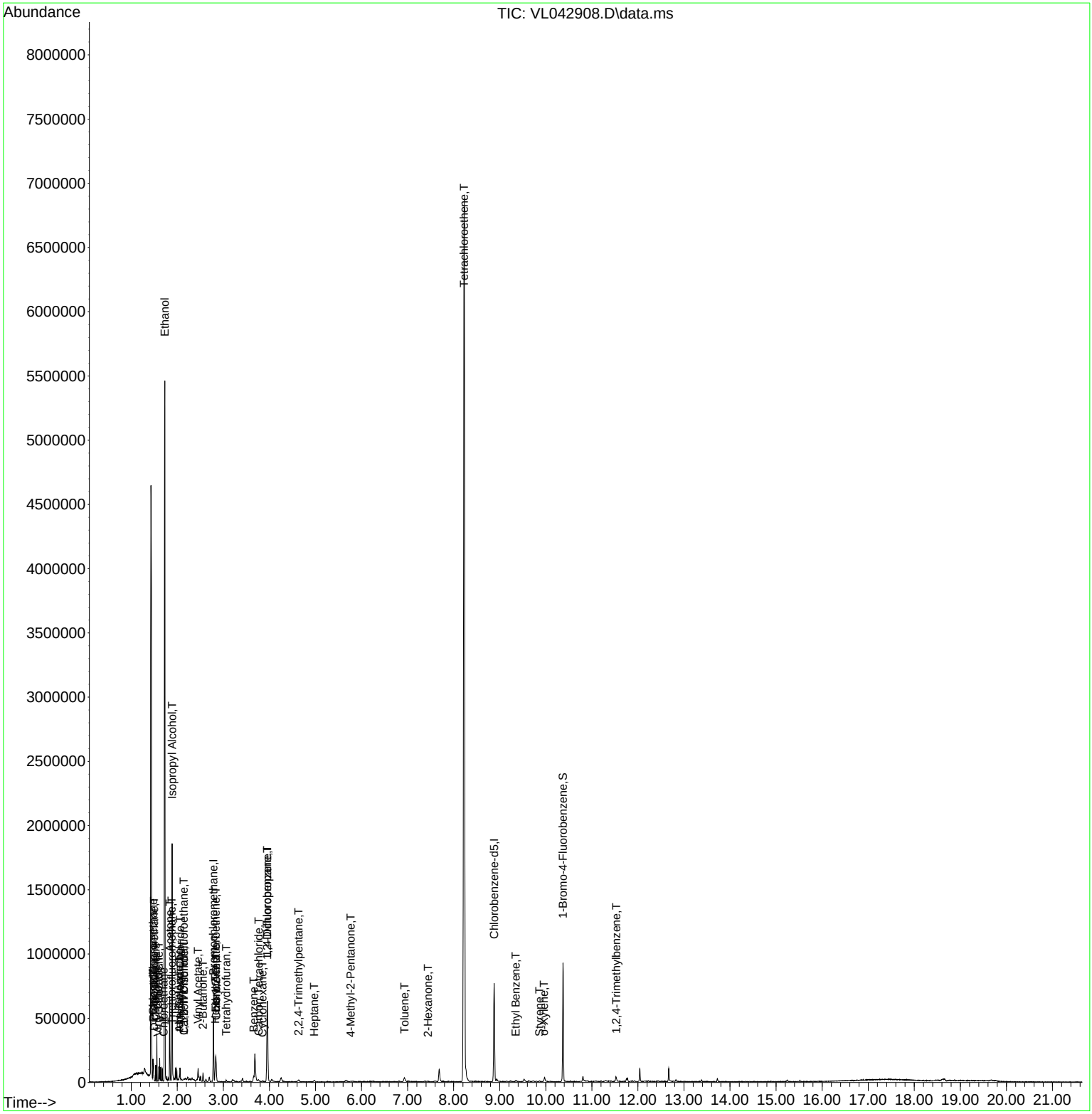
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.784	49	141872	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.956	114	356641	10.000	ppbv		0.01
55) Chlorobenzene-d5	8.879	117	304804	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.374	95	229743	10.050	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 100.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.496	85	10936	0.526	ppbv		94
3) Chlorodifluoromethane	1.473	51	56721	2.468	ppbv	#	90
4) Chloromethane	1.531	50	35993	4.290	ppbv		99
5) Vinyl Chloride	1.577	62	296	0.036	ppbv	#	37
7) Chloroethane	1.703	64	587	0.182	ppbv	#	39
9) Propene	1.483	41	15520	1.564	ppbv		97
10) Heptane	4.972	43	2327	0.088	ppbv	#	44
11) Trichlorofluoromethane	1.878	101	5506	0.268	ppbv		87
12) 1,1,2-Trichlorotrifluo...	2.140	101	1213	0.074	ppbv		90
13) Ethanol	1.729	45	2713705	2990.172	ppbv		92
15) Acetone	1.836	43	269167	14.342	ppbv		95
16) 1,3-Butadiene	1.599	39	12866	1.512	ppbv	#	33
17) tert-Butyl alcohol	2.046	59	9198	0.413	ppbv		100
19) Isopropyl Alcohol	1.888	45	754919	67.348	ppbv	#	36
20) Methylene Chloride	2.062	84	14219	1.809	ppbv		93
21) Allyl Chloride	2.043	41	3863	0.291	ppbv	#	25
23) Vinyl Acetate	2.451	43	60152	2.331	ppbv	#	93
25) Ethyl Acetate	2.836	43	114034	2.511	ppbv	#	94
26) Hexane	2.823	57	20456	0.976	ppbv	#	1
27) Carbon Disulfide	2.146	76	1632	0.080	ppbv	#	72
29) Chloroform	2.846	83	24170	0.807	ppbv		97
30) Cyclohexane	3.852	84	751	0.041	ppbv	#	1
31) cis-1,2-Dichloroethene	2.836	61	12876	0.615	ppbv	#	22
34) 2-Butanone	2.558	43	39587	1.644	ppbv		99
35) Carbon Tetrachloride	3.765	117	3946	0.160	ppbv		93
36) Benzene	3.658	78	12361	0.362	ppbv		99
39) 1,2-Dichloropropane	3.952	63	96031	7.699	ppbv	#	25
41) Tetrahydrofuran	3.062	42	3346	0.249	ppbv	#	77
44) 2,2,4-Trimethylpentane	4.635	57	6207	0.107	ppbv	#	7
50) 4-Methyl-2-Pentanone	5.765	43	1306	0.040	ppbv	#	38
51) 2-Hexanone	7.445	43	1030	0.040	ppbv	#	45
52) Tetrachloroethene	8.228	164	1262131	102.158	ppbv		94
53) Toluene	6.937	91	6952	0.171	ppbv	#	21
58) Ethyl Benzene	9.348	91	4664	0.087	ppbv		98
60) o-Xylene	9.960	91	4961	0.117	ppbv		97
61) Styrene	9.863	104	1232	0.062	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.533	105	5497	0.115	ppbv	#	64

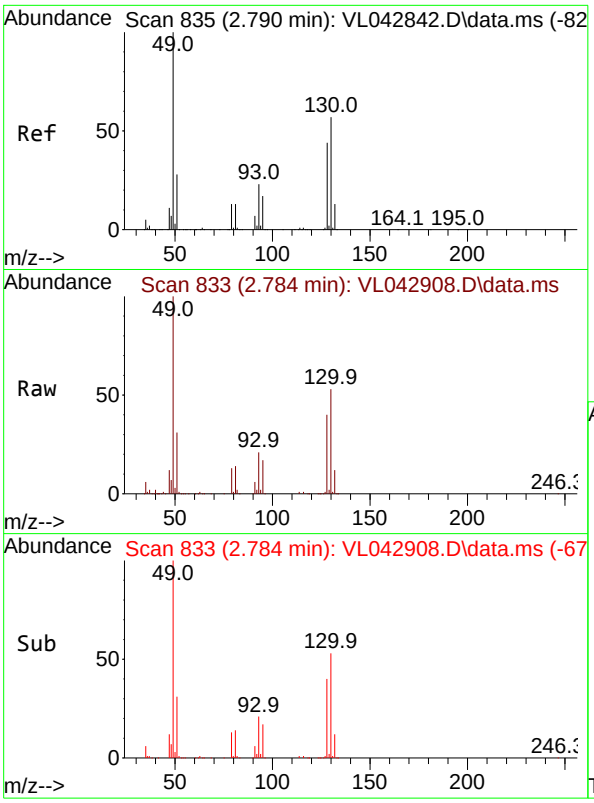
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042908.D
Acq On : 08 Sep 2025 17:45
Operator : SY/MD
Sample : Q3052-03
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Sep 09 00:58:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration



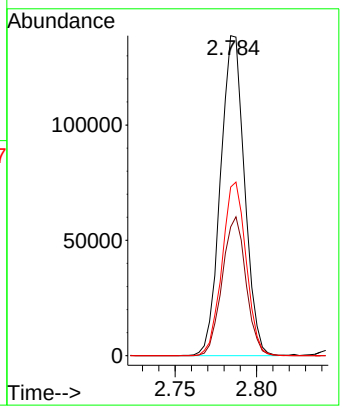


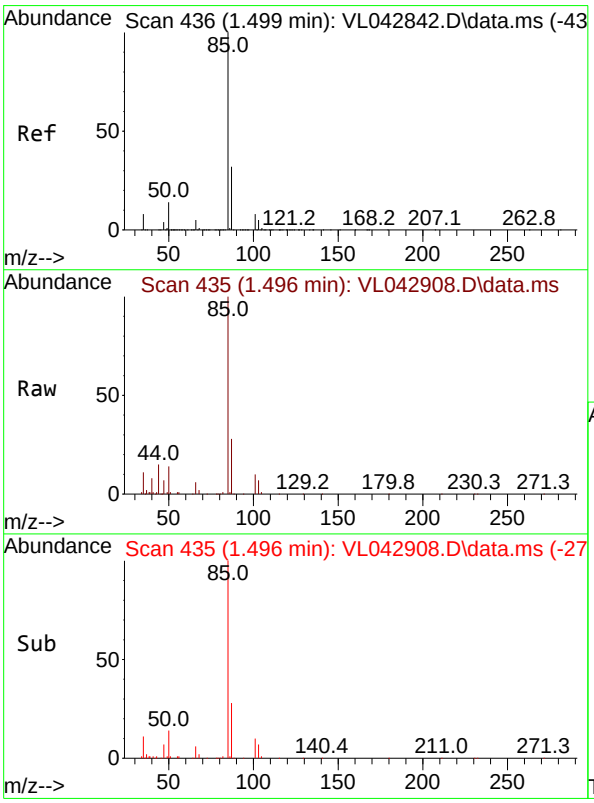
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 8
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 141872

Ion	Ratio	Lower	Upper
49	100		
128	42.9	23.7	71.1
130	54.3	30.6	91.6

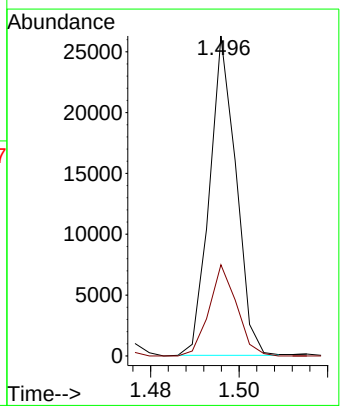


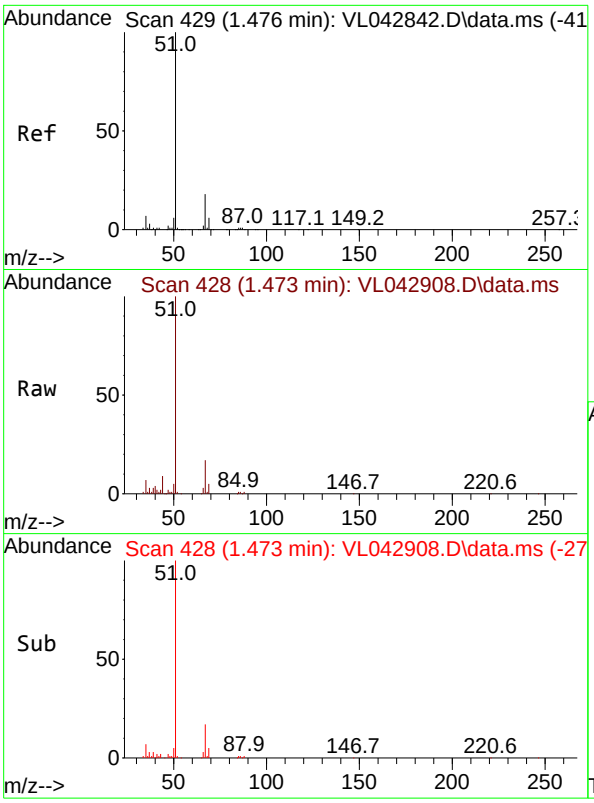


#2
Dichlorodifluoromethane
Concen: 0.526 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 85 Resp: 10936

Ion	Ratio	Lower	Upper
85	100		
87	28.5	25.3	37.9



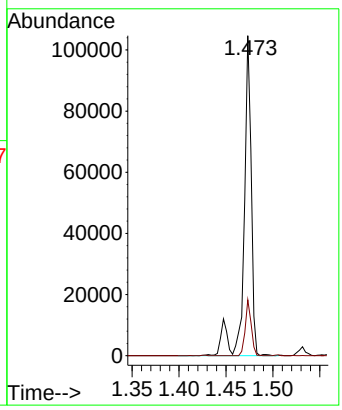


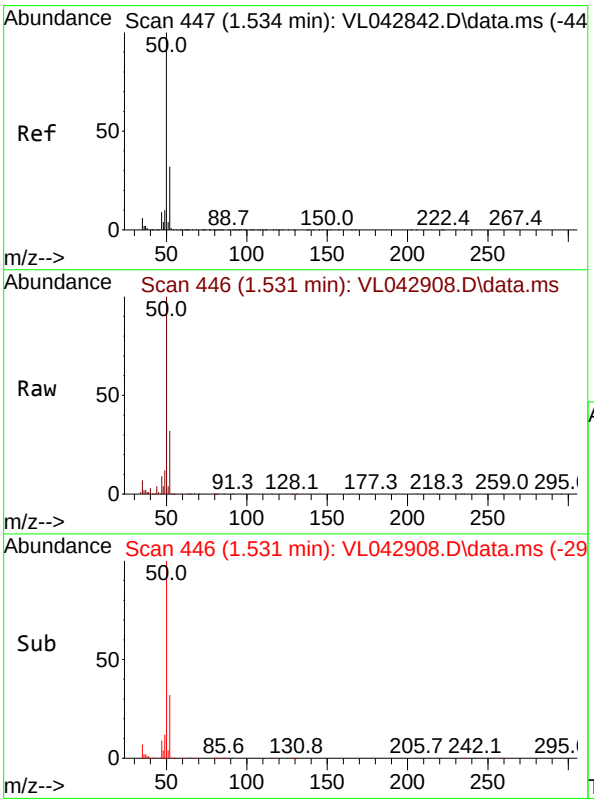
#3
Chlorodifluoromethane
Concen: 2.468 ppbv
RT: 1.473 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 56721

Ion	Ratio	Lower	Upper
51	100		
67	14.2	14.9	22.3#

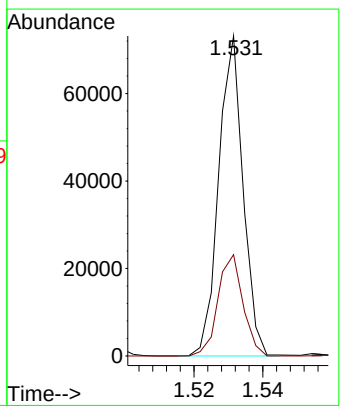


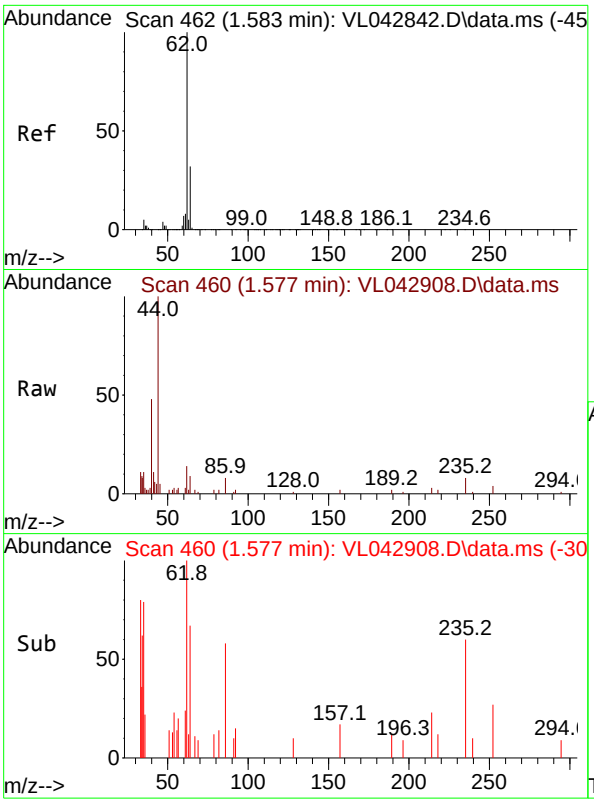


#4
Chloromethane
Concen: 4.290 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 50 Resp: 35993

Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.9	38.9



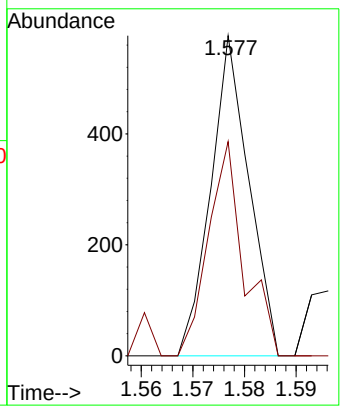


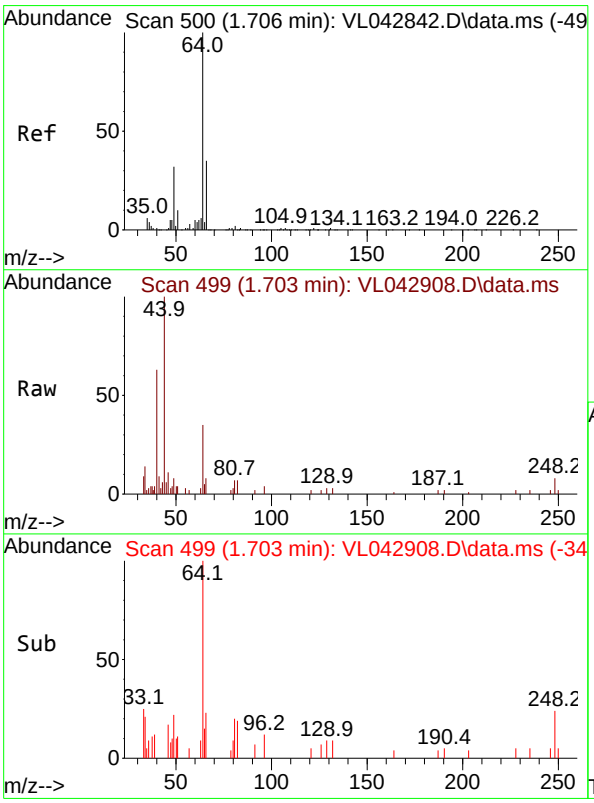
#5
Vinyl Chloride
Concen: 0.036 ppbv
RT: 1.577 min Scan# 4
Delta R.T. 0.000 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 62 Resp: 296

Ion	Ratio	Lower	Upper
62	100		
64	66.9	25.4	38.2#

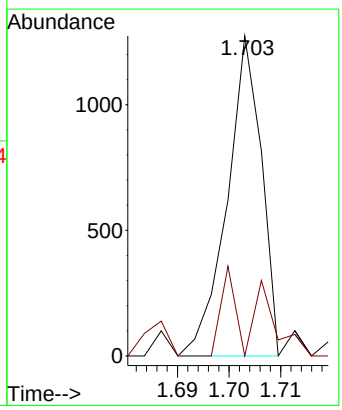


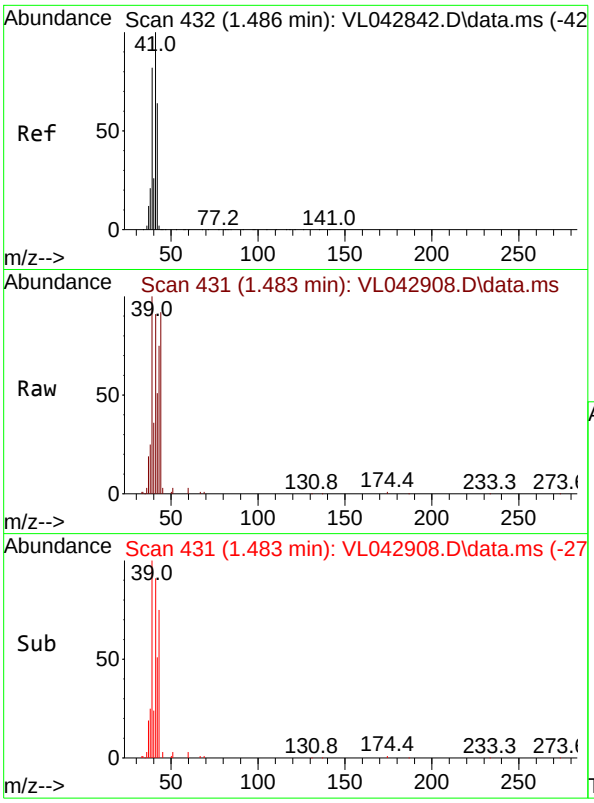


#7
Chloroethane
Concen: 0.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 64 Resp: 587

Ion	Ratio	Lower	Upper
64	100		
66	0.0	28.6	42.8#



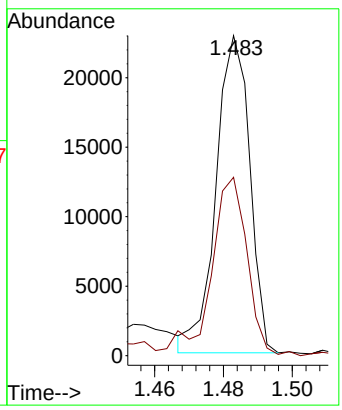


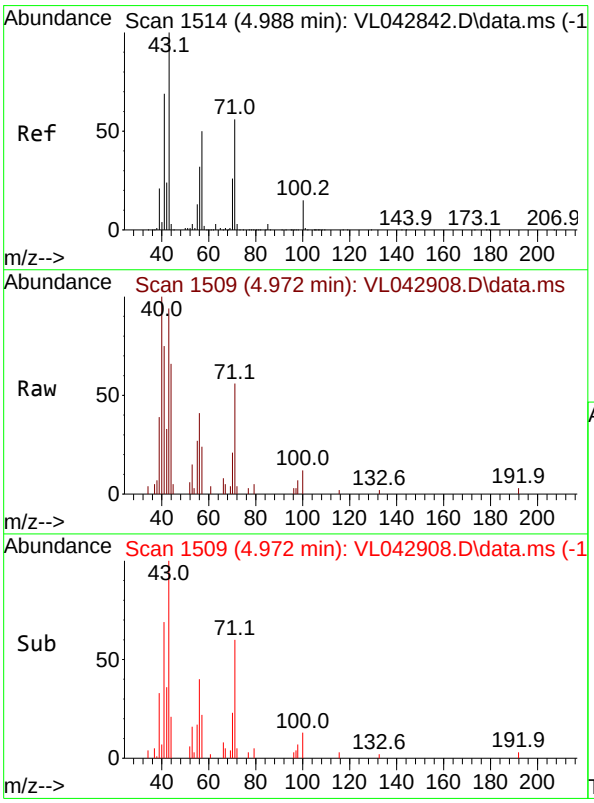
#9
Propene
Concen: 1.564 ppbv
RT: 1.483 min Scan# 4
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 15520

Ion	Ratio	Lower	Upper
41	100		
42	68.6	53.0	79.4

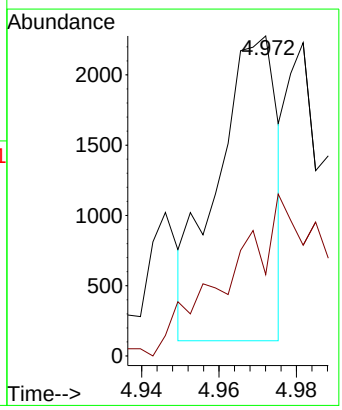


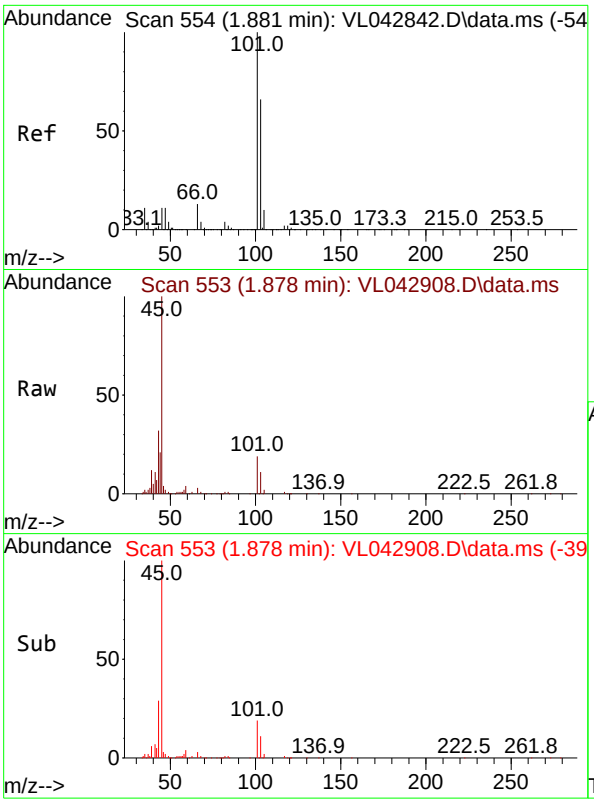


#10
Heptane
Concen: 0.088 ppbv
RT: 4.972 min Scan# 1509
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 43 Resp: 2327

Ion	Ratio	Lower	Upper
43	100		
57	91.1	41.4	62.0#



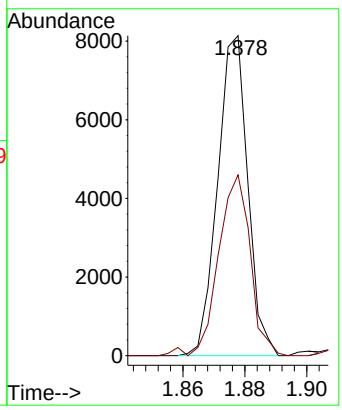


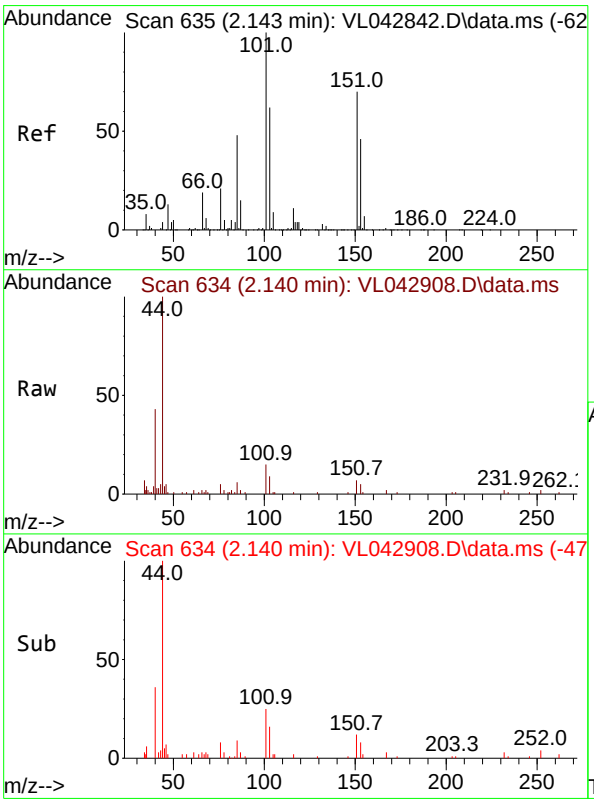
#11
Trichlorofluoromethane
Concen: 0.268 ppbv
RT: 1.878 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 5506

Ion	Ratio	Lower	Upper
101	100		
103	55.7	52.5	78.7

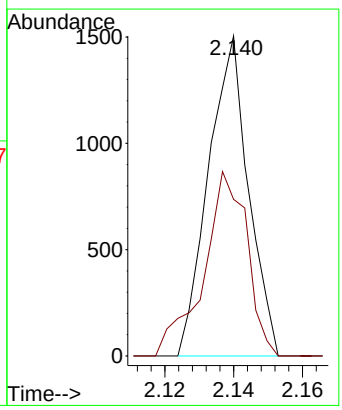


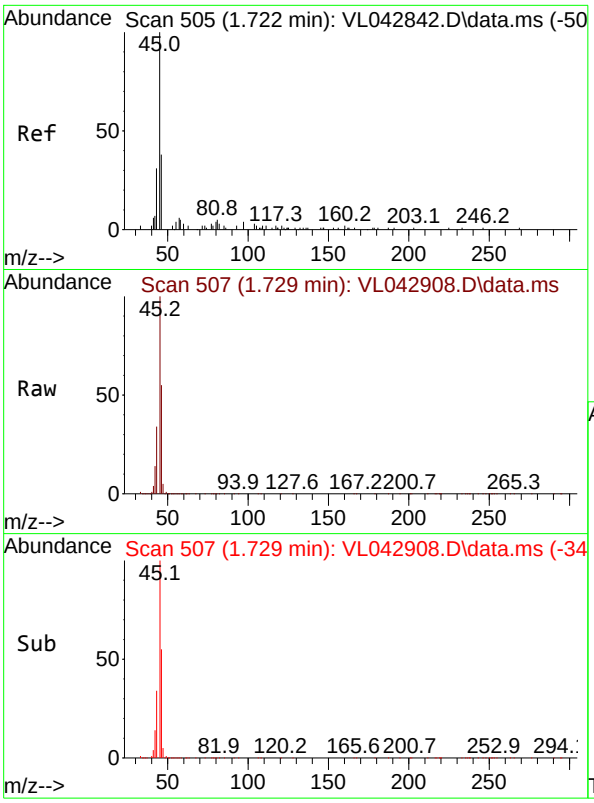


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.074 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:101 Resp: 1213

Ion	Ratio	Lower	Upper
101	100		
151	62.6	56.4	84.6



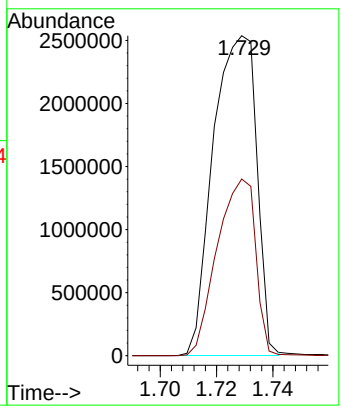


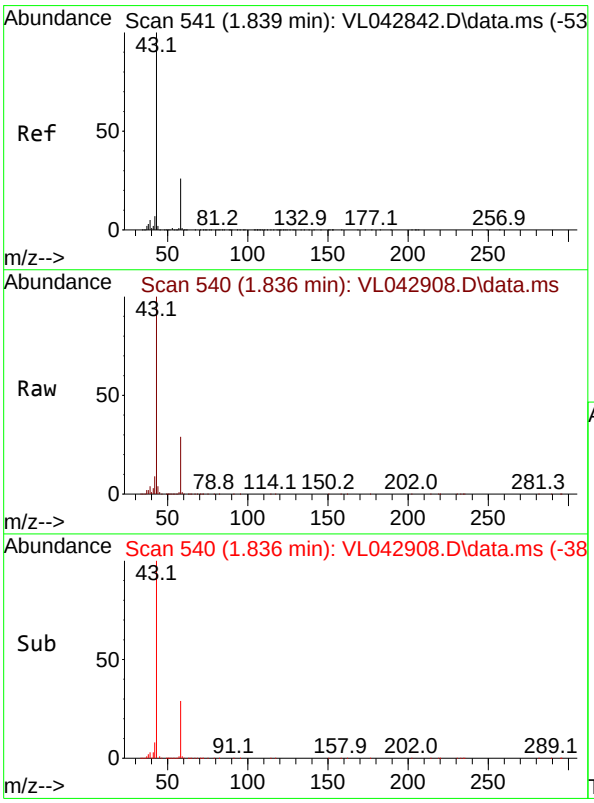
#13
Ethanol
Concen: 2990.172 ppbv
RT: 1.729 min Scan# 5
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 2713705

Ion	Ratio	Lower	Upper
45	100		
46	49.2	17.5	69.9

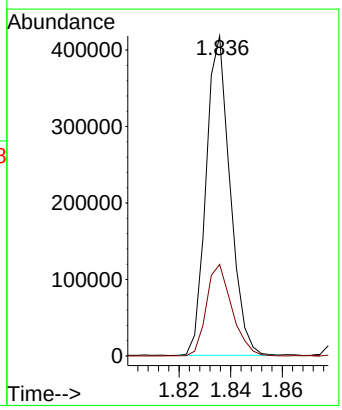


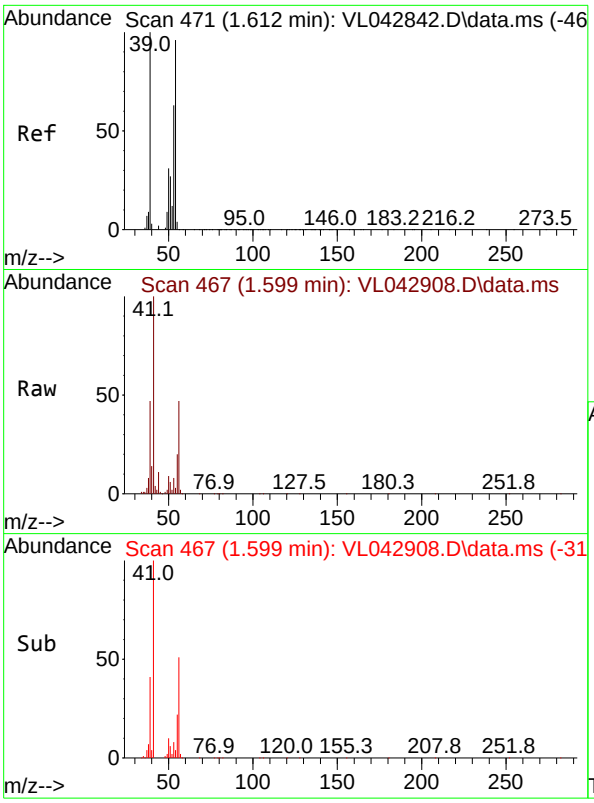


#15
Acetone
Concen: 14.342 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 43 Resp: 269167

Ion	Ratio	Lower	Upper
43	100		
58	30.6	22.4	33.6



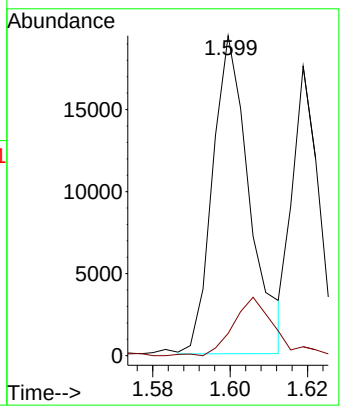


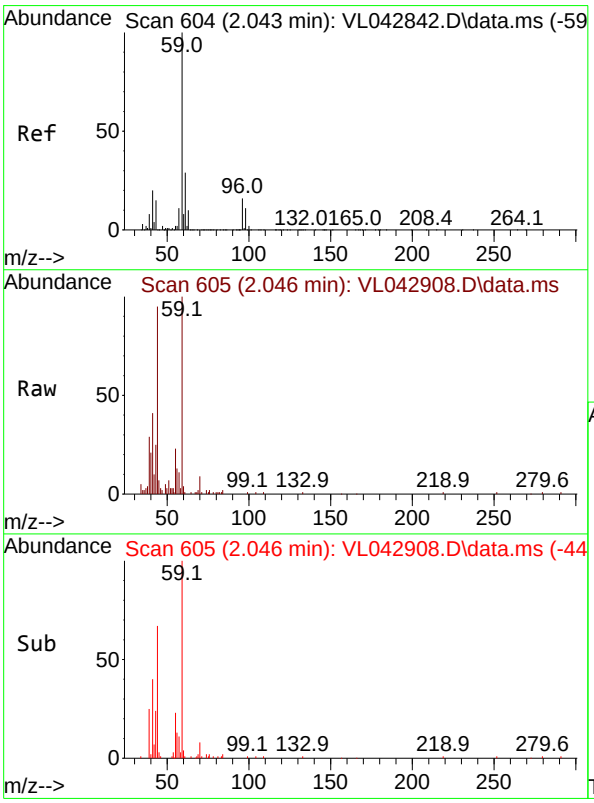
#16
1,3-Butadiene
Concen: 1.512 ppbv
RT: 1.599 min Scan# 4
Delta R.T. -0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 39 Resp: 12866

Ion	Ratio	Lower	Upper
39	100		
54	20.7	63.6	95.4#

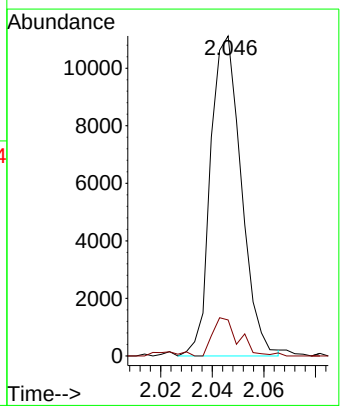


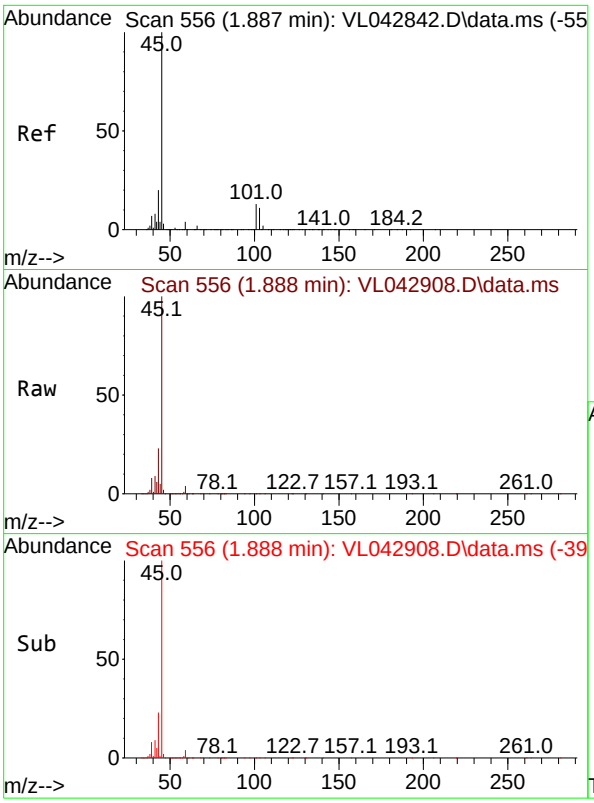


#17
tert-Butyl alcohol
Concen: 0.413 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 59 Resp: 9198

Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.0	13.4



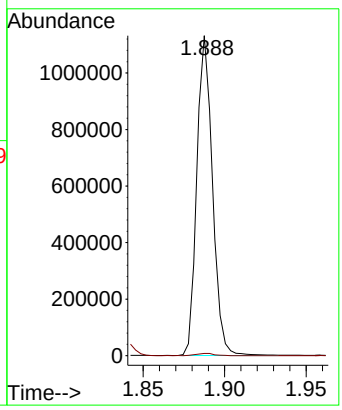


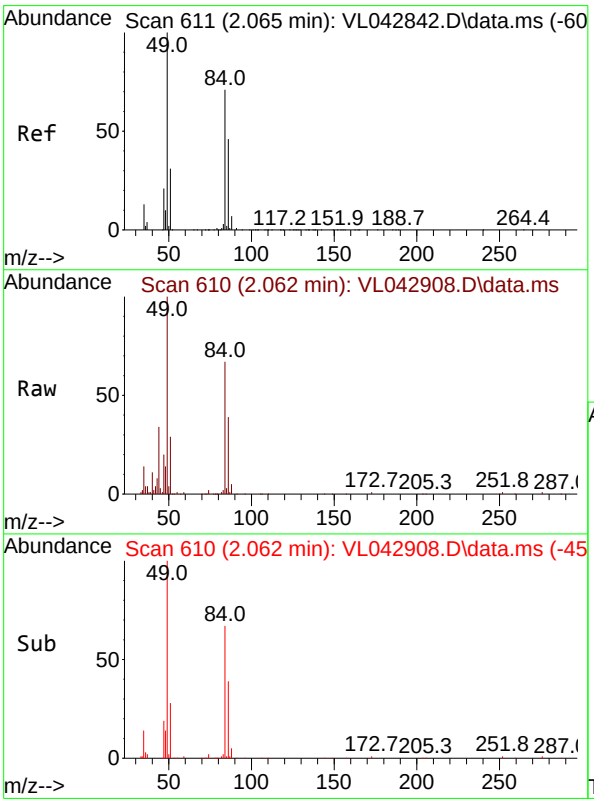
#19
Isopropyl Alcohol
Concen: 67.348 ppbv
RT: 1.888 min Scan# 5
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 754919

Ion	Ratio	Lower	Upper
45	100		
58	0.9	32.7	49.1#

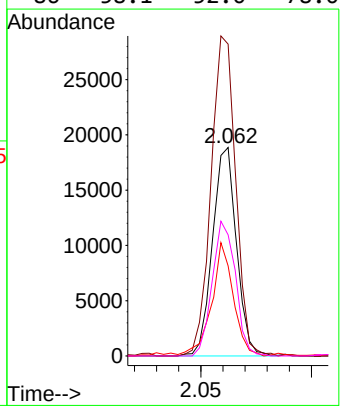


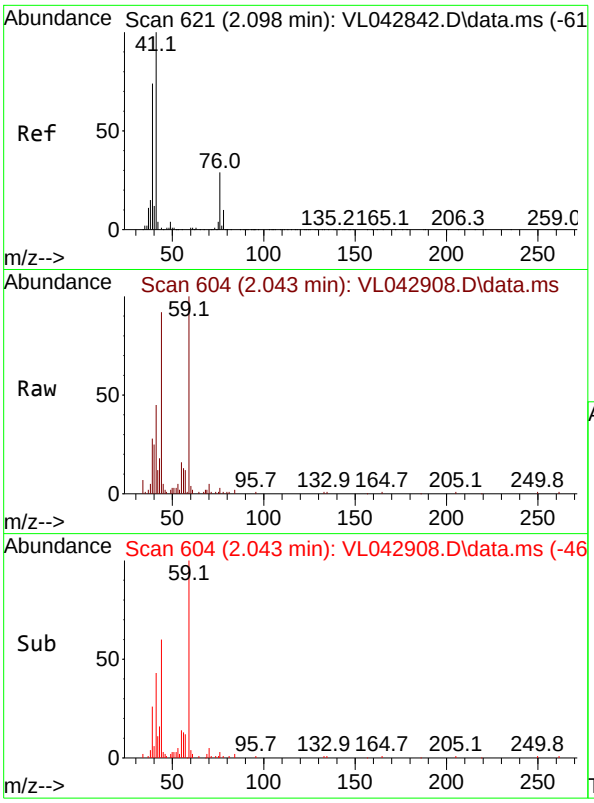


#20
Methylene Chloride
Concen: 1.809 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 84 Resp: 14219

Ion	Ratio	Lower	Upper
84	100		
49	149.5	112.3	168.5
51	42.5	36.0	54.0
86	58.1	52.0	78.0



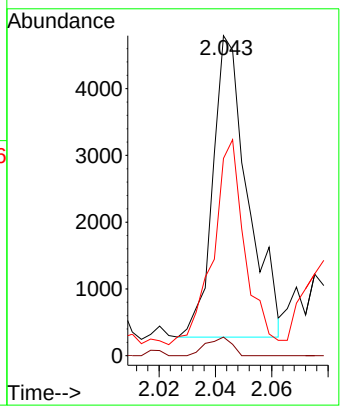


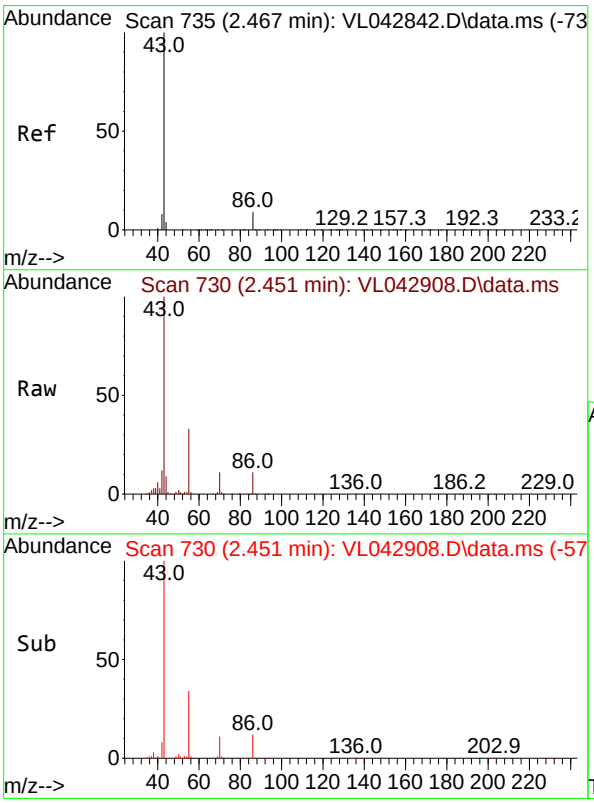
#21
Allyl Chloride
Concen: 0.291 ppbv
RT: 2.043 min Scan# 6
Delta R.T. -0.045 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 3863

Ion	Ratio	Lower	Upper
41	100		
76	4.5	23.9	35.9#
39	0.0	57.8	86.6#

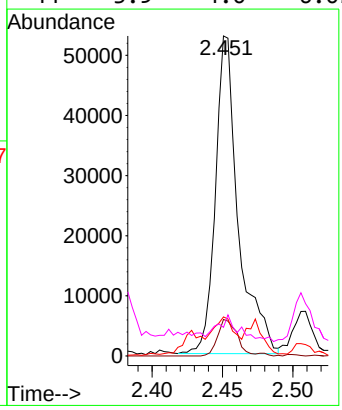


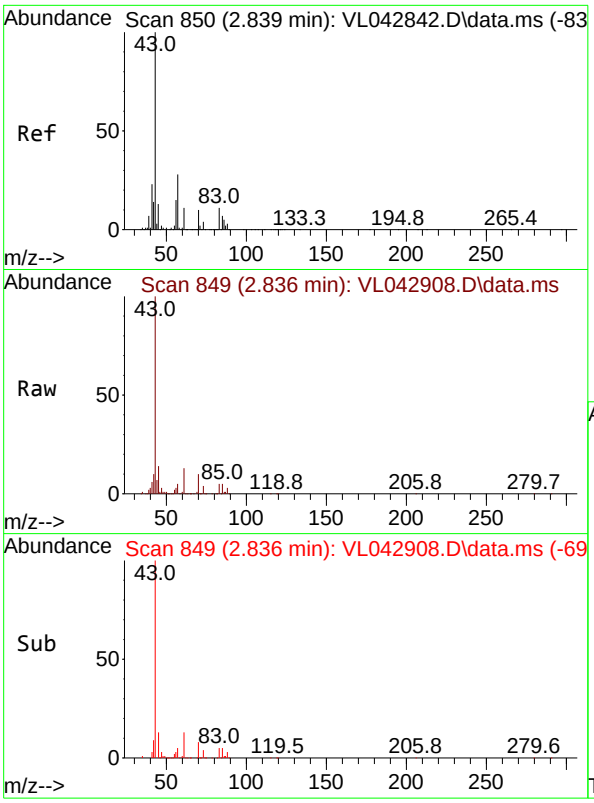


#23
Vinyl Acetate
Concen: 2.331 ppbv
RT: 2.451 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 43 Resp: 60152

Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.6	9.8#
42	11.7	7.0	10.6#
44	3.9	4.0	6.0#



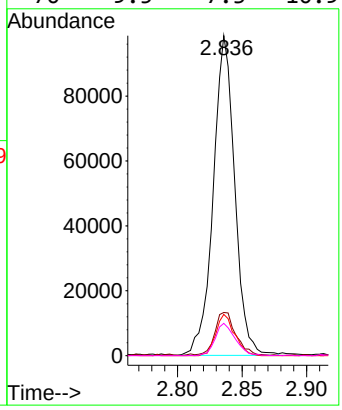


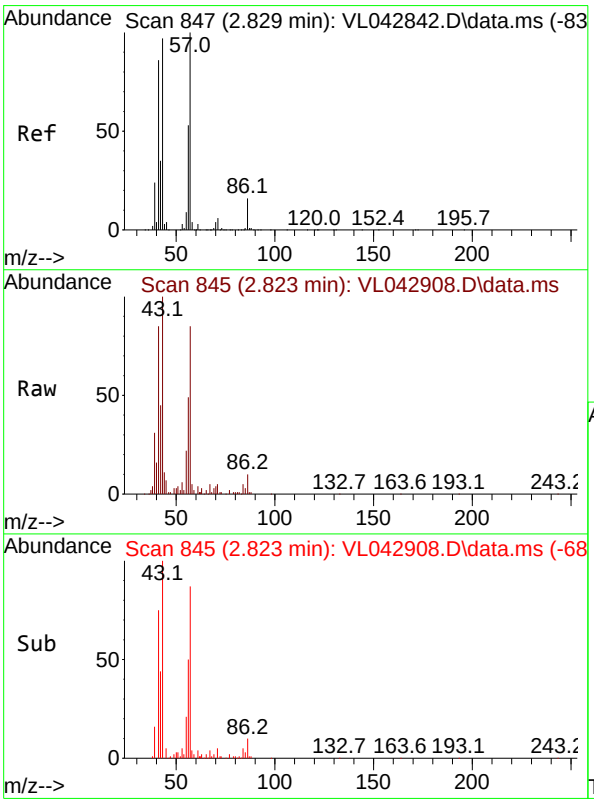
#25
Ethyl Acetate
Concen: 2.511 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 114034

Ion	Ratio	Lower	Upper
43	100		
45	13.9	8.1	12.1#
61	11.3	7.4	11.2#
70	9.5	7.3	10.9

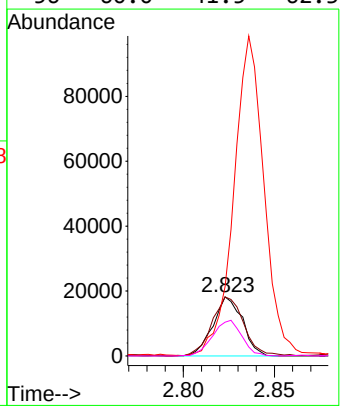


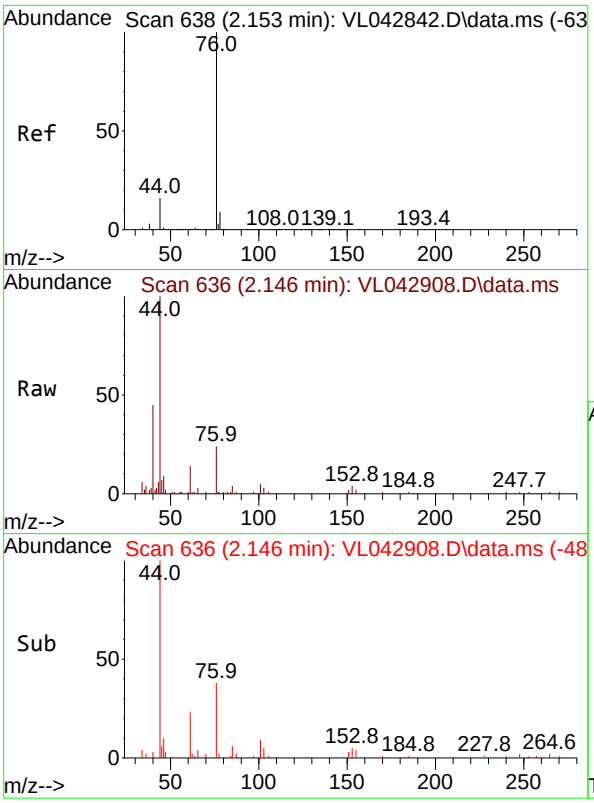


#26
Hexane
Concen: 0.976 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 57 Resp: 20456

Ion	Ratio	Lower	Upper
57	100		
41	109.2	68.6	103.0#
43	555.6	168.5	252.7#
56	60.0	41.5	62.3



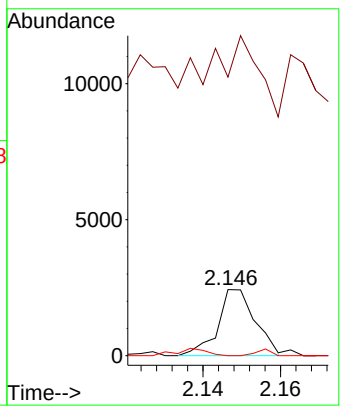


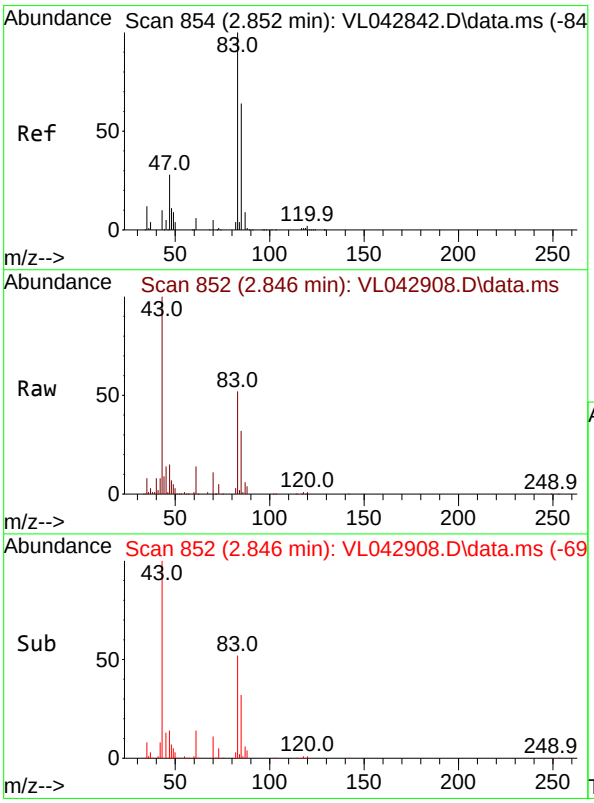
#27
Carbon Disulfide
Concen: 0.080 ppbv
RT: 2.146 min Scan# 6
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 76 Resp: 1632

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.9	23.9#
78	12.7	9.5	14.3

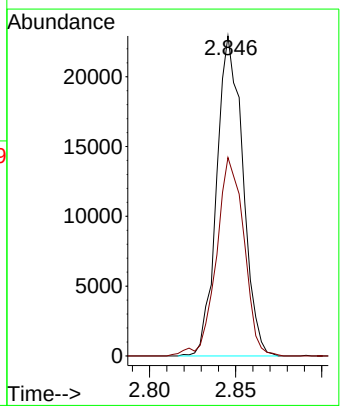


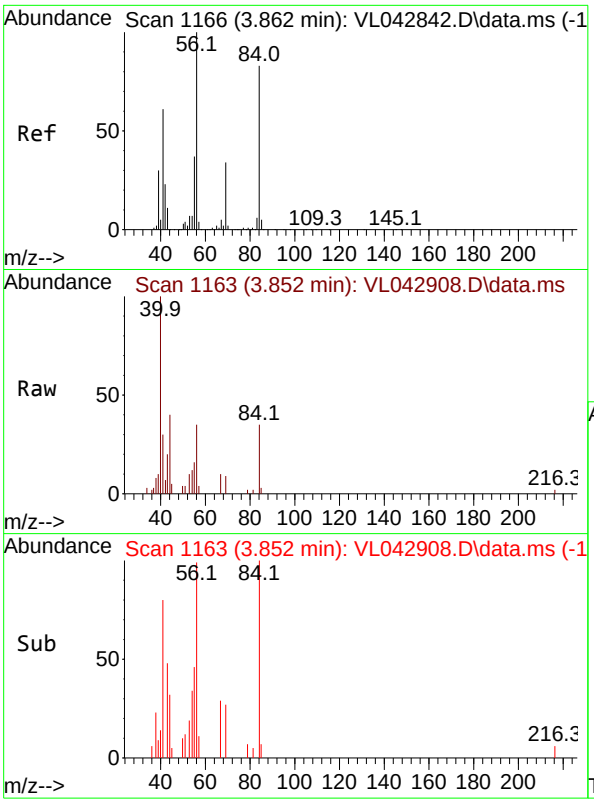


#29
Chloroform
Concen: 0.807 ppbv
RT: 2.846 min Scan# 852
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 83 Resp: 24170

Ion	Ratio	Lower	Upper
83	100		
85	61.7	51.1	76.7



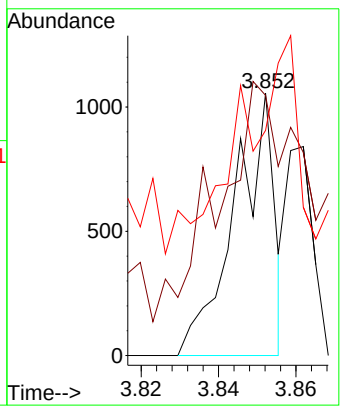


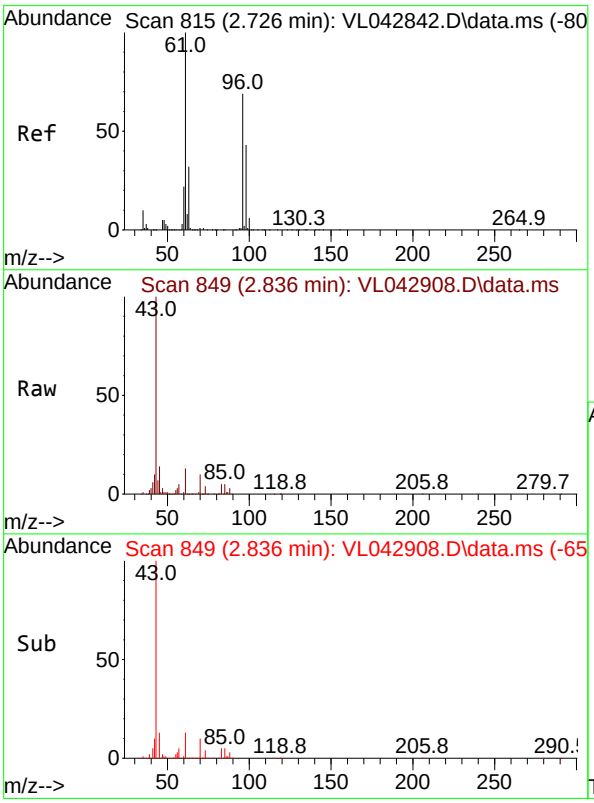
#30
Cyclohexane
Concen: 0.041 ppbv
RT: 3.852 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 84 Resp: 751

Ion	Ratio	Lower	Upper
84	100		
56	0.0	98.8	148.2#
41	0.0	61.3	91.9#

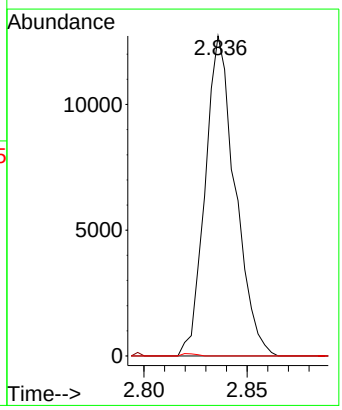


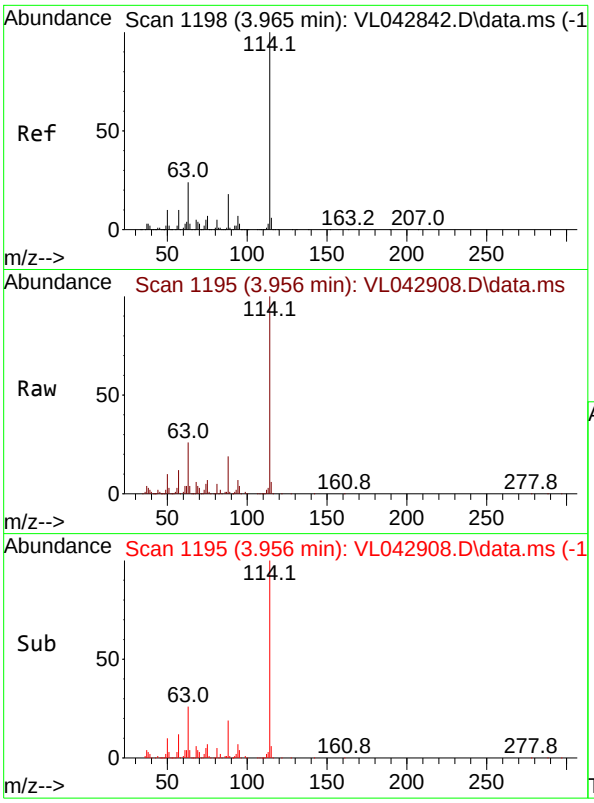


#31
cis-1,2-Dichloroethene
Concen: 0.615 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.123 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 61 Resp: 12876

Ion	Ratio	Lower	Upper
61	100		
96	0.0	55.0	82.6#
98	0.0	34.3	51.5#



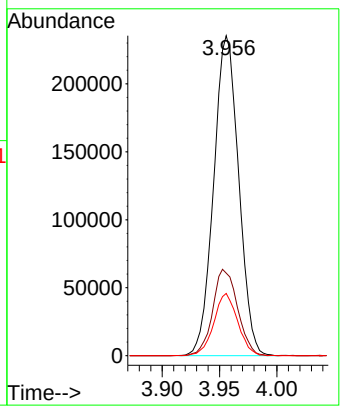


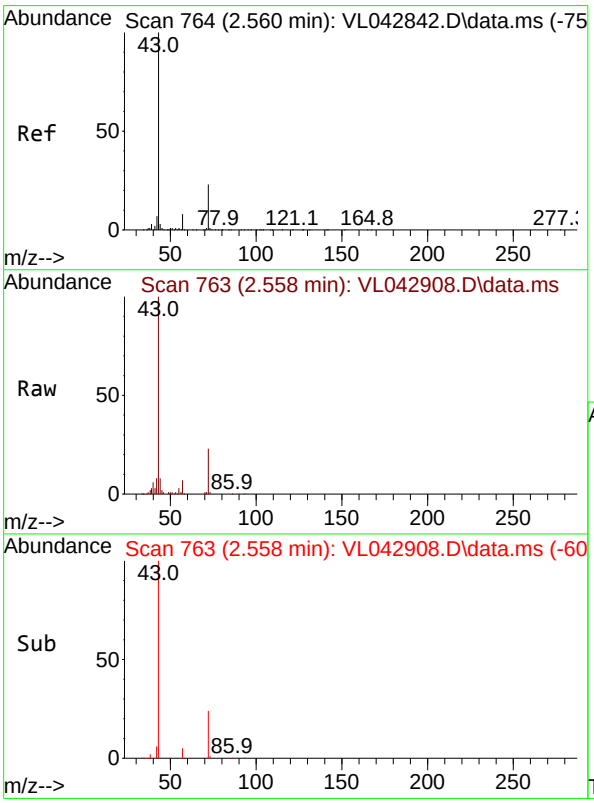
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:114 Resp: 356641

Ion	Ratio	Lower	Upper
114	100		
63	27.0	19.7	29.5
88	18.6	14.4	21.6

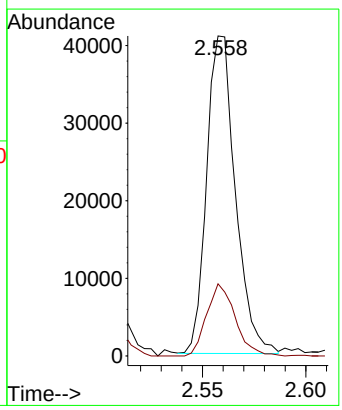


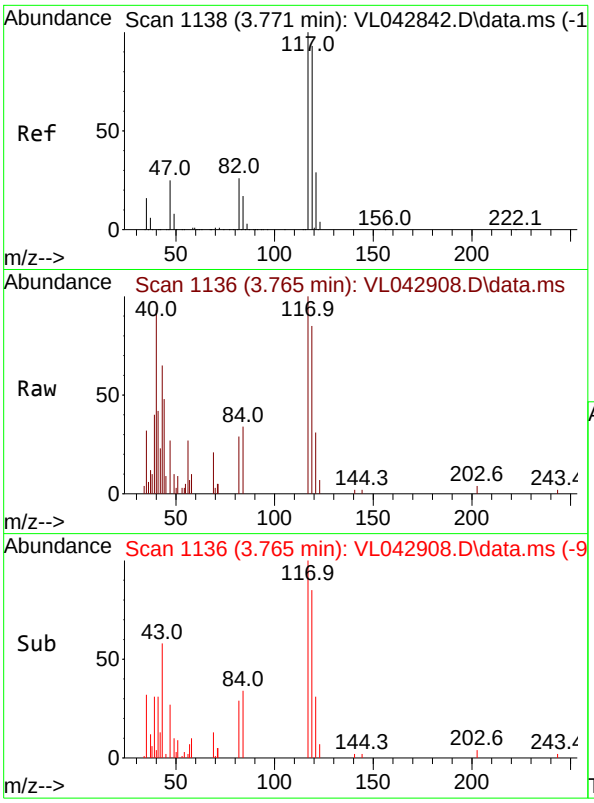


#34
2-Butanone
Concen: 1.644 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 43 Resp: 39587

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.6	28.0



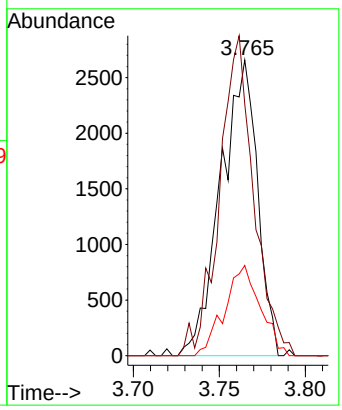


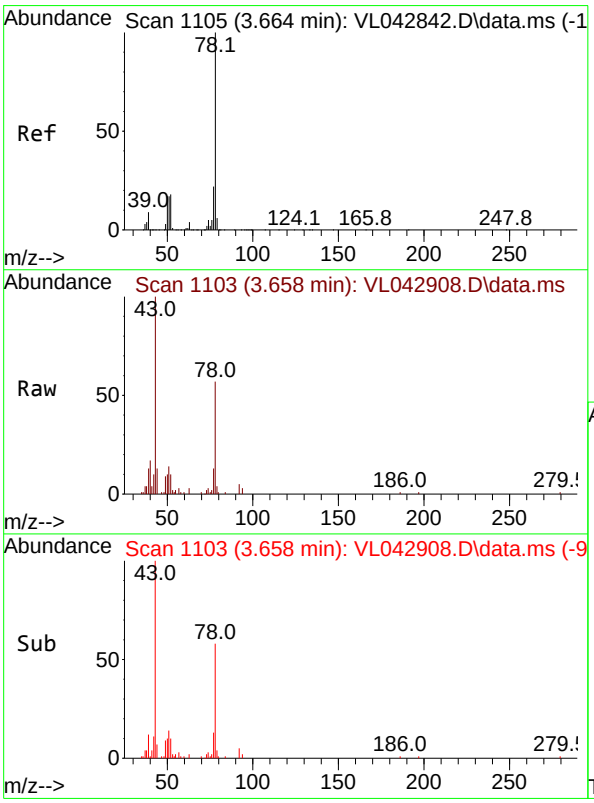
#35
Carbon Tetrachloride
Concen: 0.160 ppbv
RT: 3.765 min Scan# 1
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:117 Resp: 3946

Ion	Ratio	Lower	Upper
117	100		
119	85.0	74.7	112.1
121	30.5	23.2	34.8

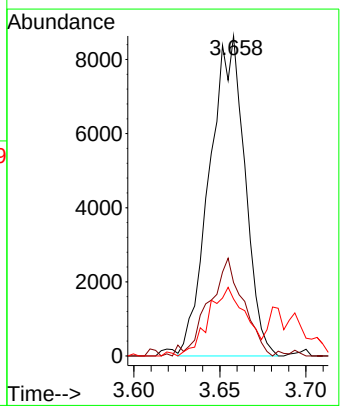


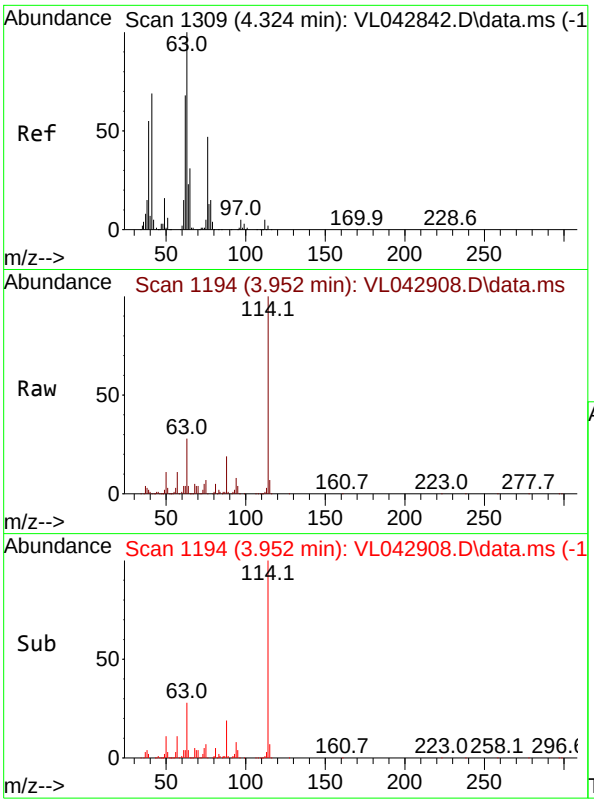


#36
Benzene
Concen: 0.362 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 78 Resp: 12361

Ion	Ratio	Lower	Upper
78	100		
77	21.4	17.7	26.5
50	17.8	13.9	20.9



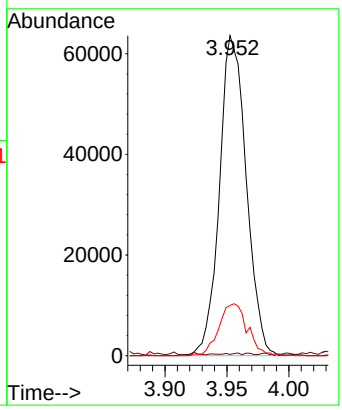


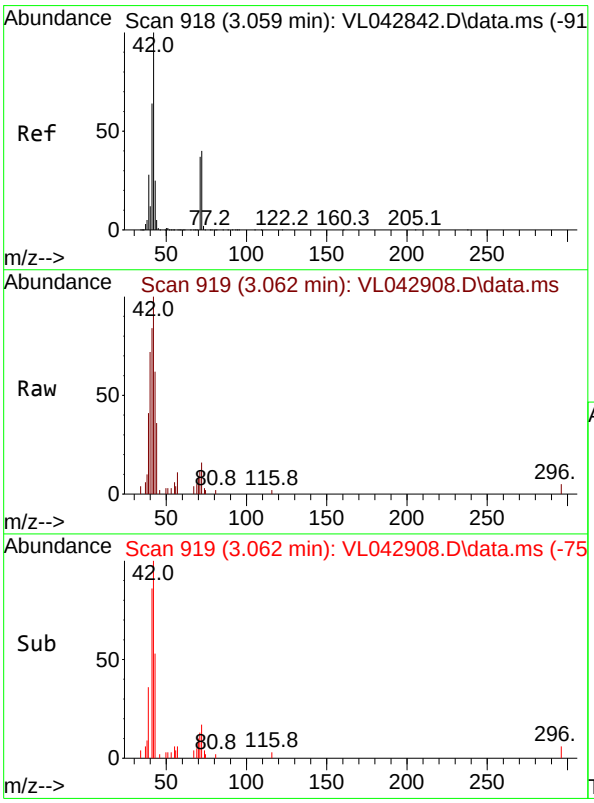
#39
1,2-Dichloropropane
Concen: 7.699 ppbv
RT: 3.952 min Scan# 11
Delta R.T. -0.346 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 63 Resp: 96031

Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.0	82.4#
62	15.7	54.4	81.6#

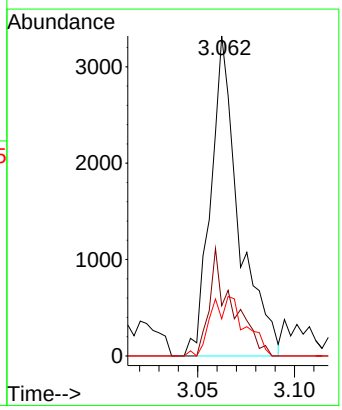


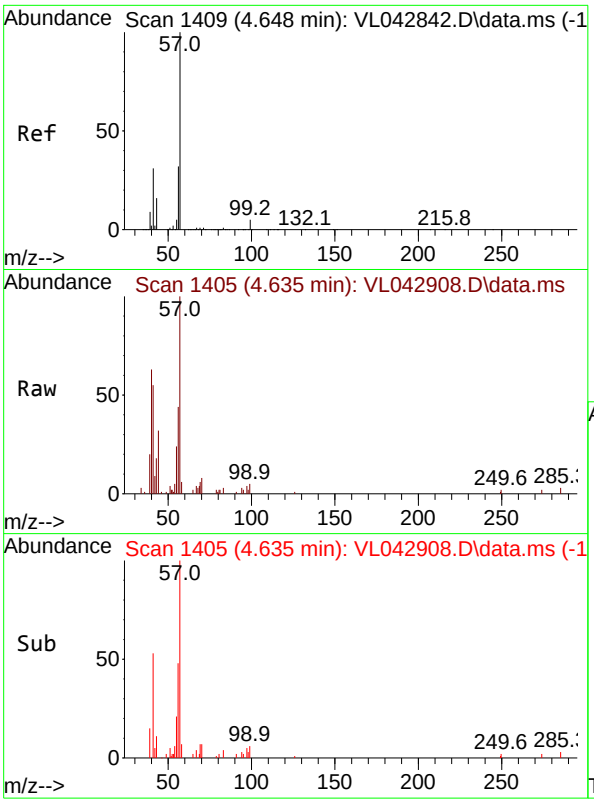


#41
Tetrahydrofuran
Concen: 0.249 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.020 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 42 Resp: 3346

Ion	Ratio	Lower	Upper
42	100		
72	27.4	32.6	48.8#
71	22.5	30.0	45.0#



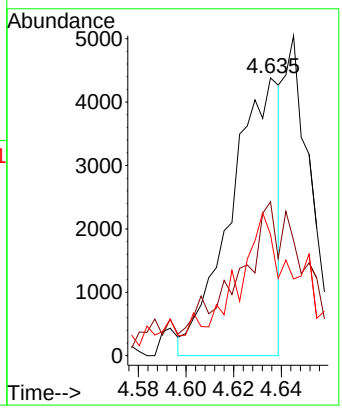


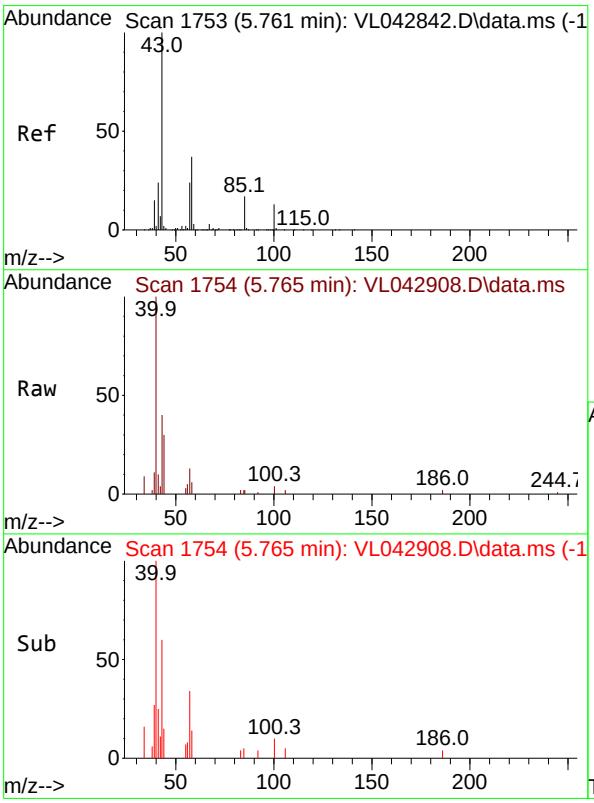
#44
2,2,4-Trimethylpentane
Concen: 0.107 ppbv
RT: 4.635 min Scan# 14
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 57 Resp: 6207

Ion	Ratio	Lower	Upper
57	100		
41	82.7	24.8	37.2#
56	83.0	25.5	38.3#

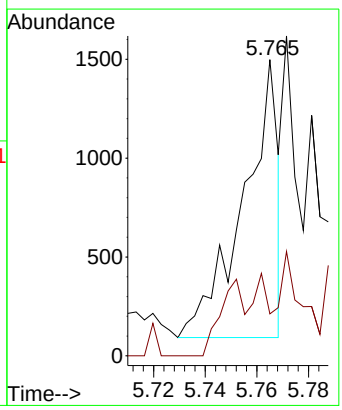


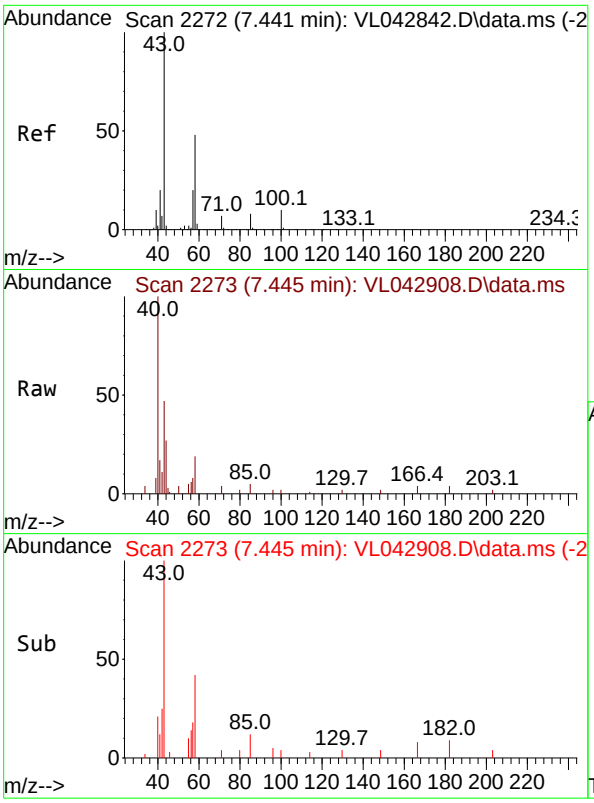


#50
4-Methyl-2-Pentanone
Concen: 0.040 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.036 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 43 Resp: 1306

Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.8	44.8#



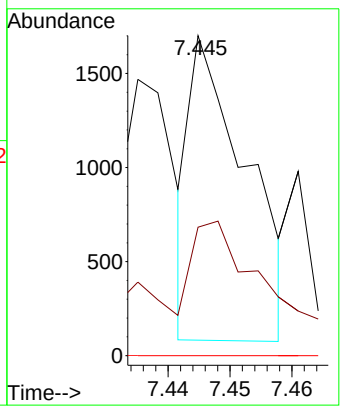


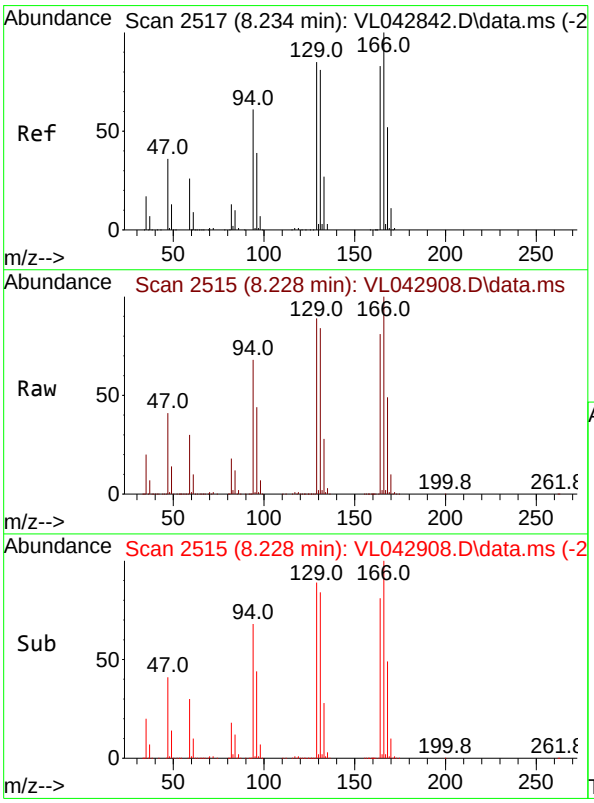
#51
2-Hexanone
Concen: 0.040 ppbv
RT: 7.445 min Scan# 2
Delta R.T. 0.026 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 1030

Ion	Ratio	Lower	Upper
43	100		
58	89.5	41.0	61.6#
98	0.0	0.1	0.1#

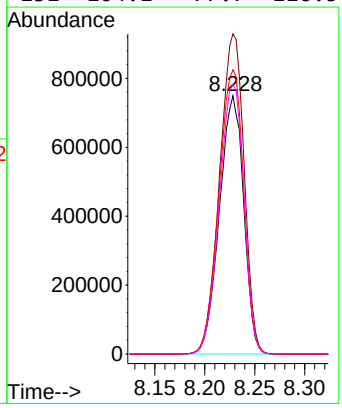


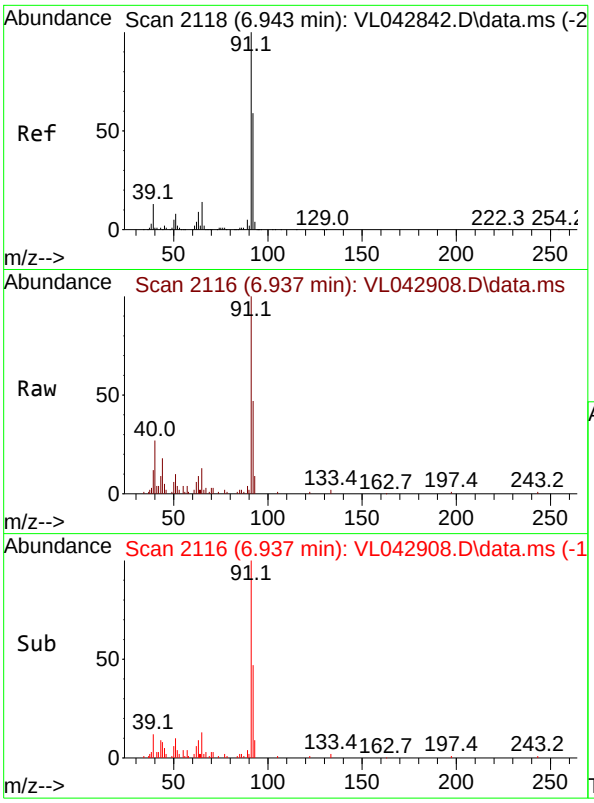


#52
Tetrachloroethene
Concen: 102.158 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:164 Resp: 1262131

Ion	Ratio	Lower	Upper
164	100		
166	123.9	96.5	144.7
129	110.0	81.8	122.6
131	104.1	77.7	116.5



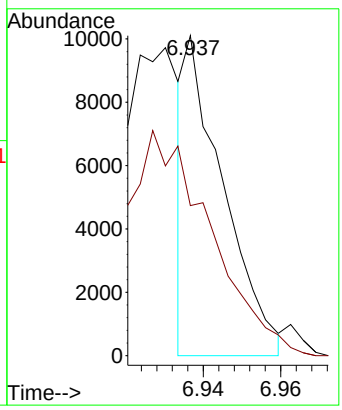


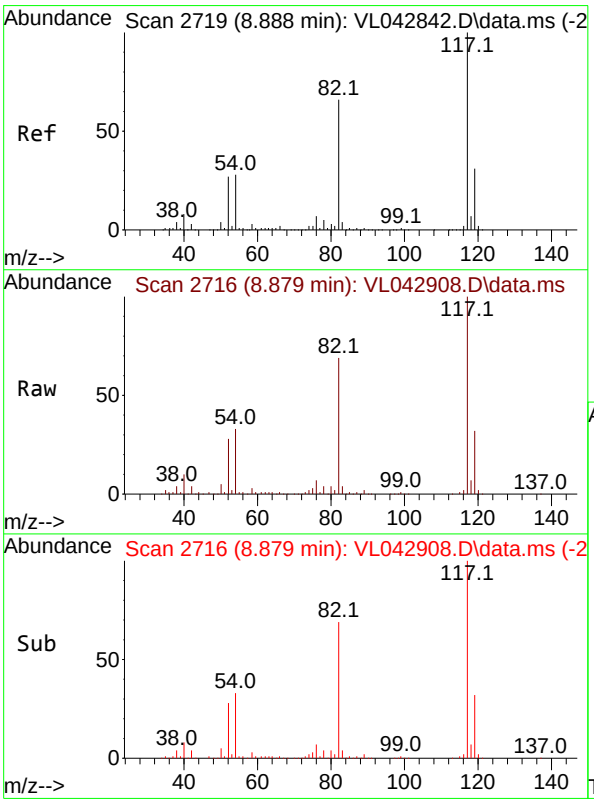
#53
Toluene
Concen: 0.171 ppbv
RT: 6.937 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 6952

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.8	71.6#

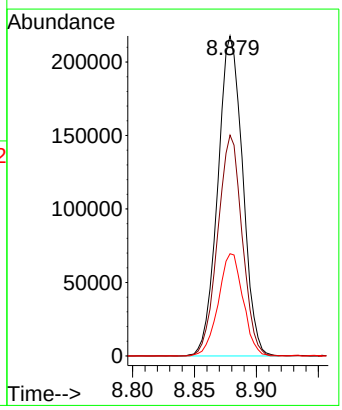


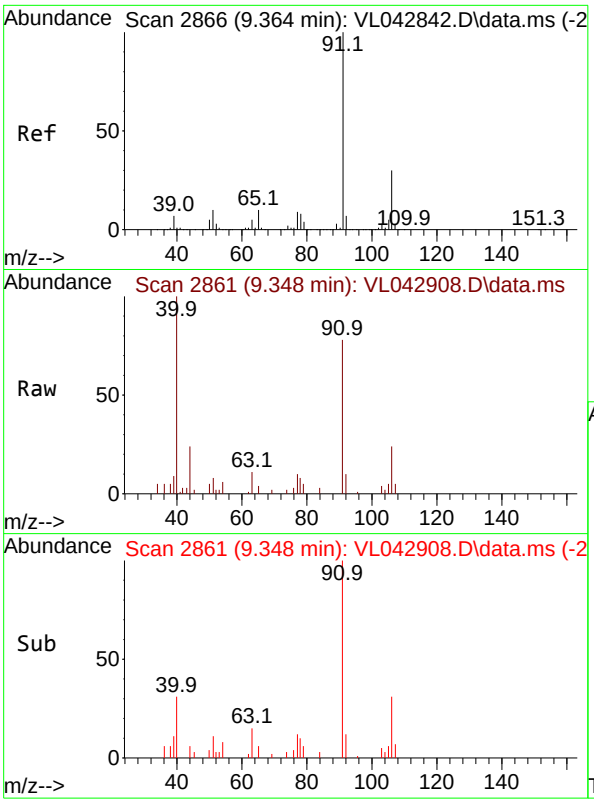


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:117 Resp: 304804

Ion	Ratio	Lower	Upper
117	100		
82	67.9	54.6	81.8
119	31.8	25.9	38.9



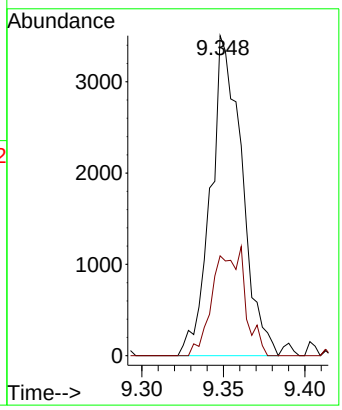


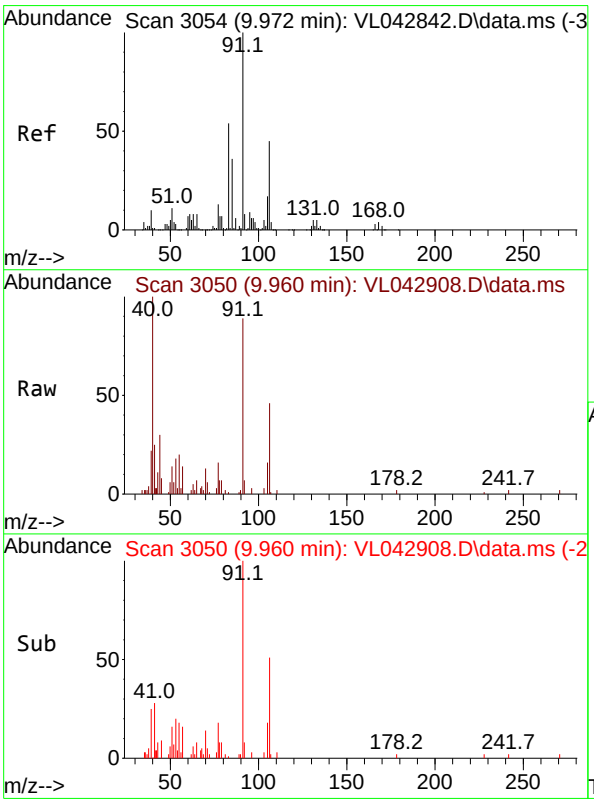
#58
Ethyl Benzene
Concen: 0.087 ppbv
RT: 9.348 min Scan# 2
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 4664

Ion	Ratio	Lower	Upper
91	100		
106	31.2	23.9	35.9

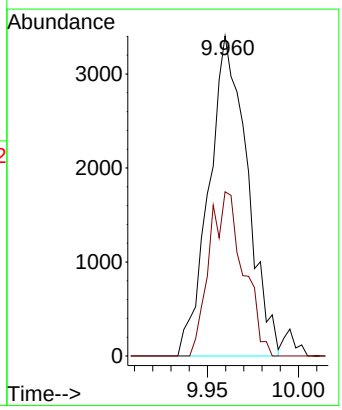


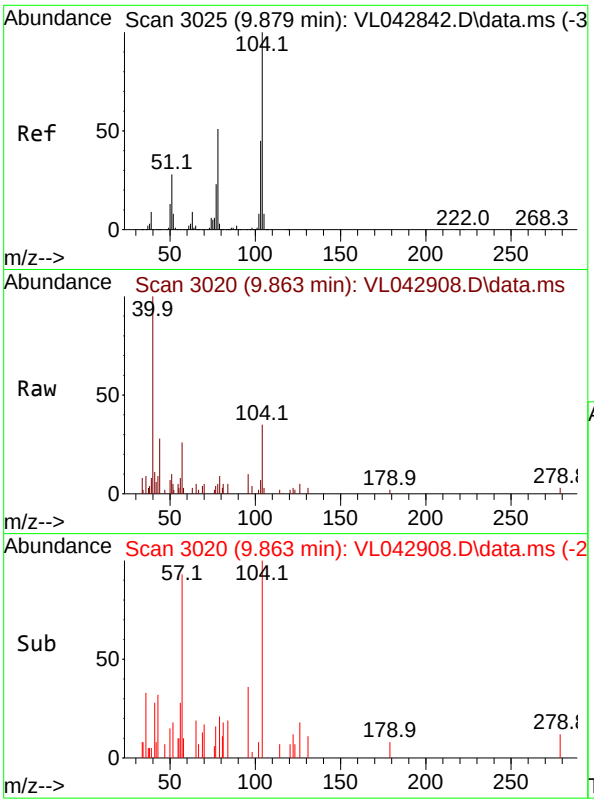


#60
o-Xylene
Concen: 0.117 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 91 Resp: 4961

Ion	Ratio	Lower	Upper
91	100		
106	45.8	21.8	65.4



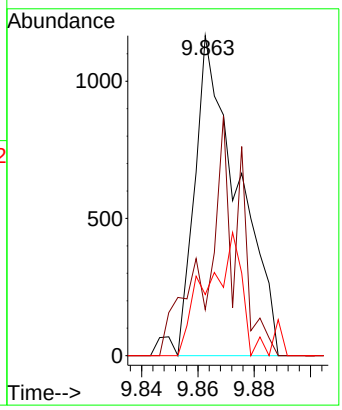


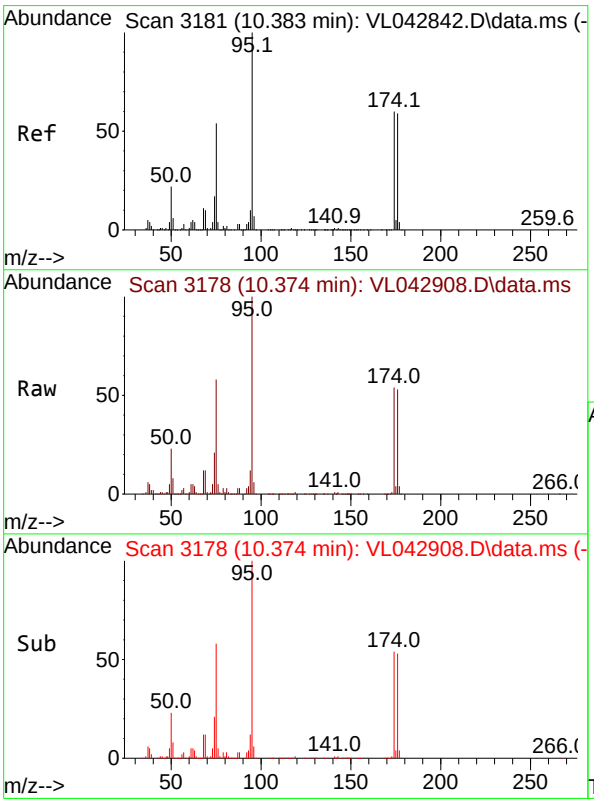
#61
Styrene
Concen: 0.062 ppbv
RT: 9.863 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:104 Resp: 1232

Ion	Ratio	Lower	Upper
104	100		
78	56.4	40.6	61.0
103	33.4	37.7	56.5#

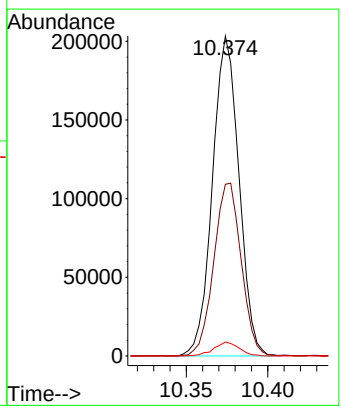


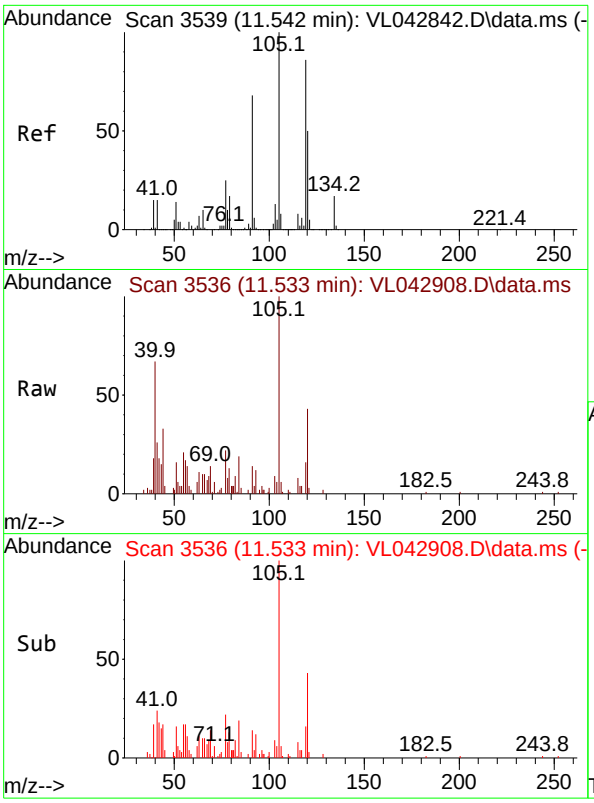


#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 95 Resp: 229743

Ion	Ratio	Lower	Upper
95	100		
174	56.0	48.4	72.6
175	4.2	3.8	5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.533 min Scan# 3
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 5497

Ion	Ratio	Lower	Upper
105	100		
120	46.2	39.8	59.6
91	11.1	54.2	81.4#
77	21.7	19.8	29.6