

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040816.D
 Acq On : 8 Nov 2023 18:36
 Operator : SY/MD
 Sample : 05290-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Nov 09 00:32:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.205	49	1217514	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	3117466	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2677832	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1972880	10.013	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

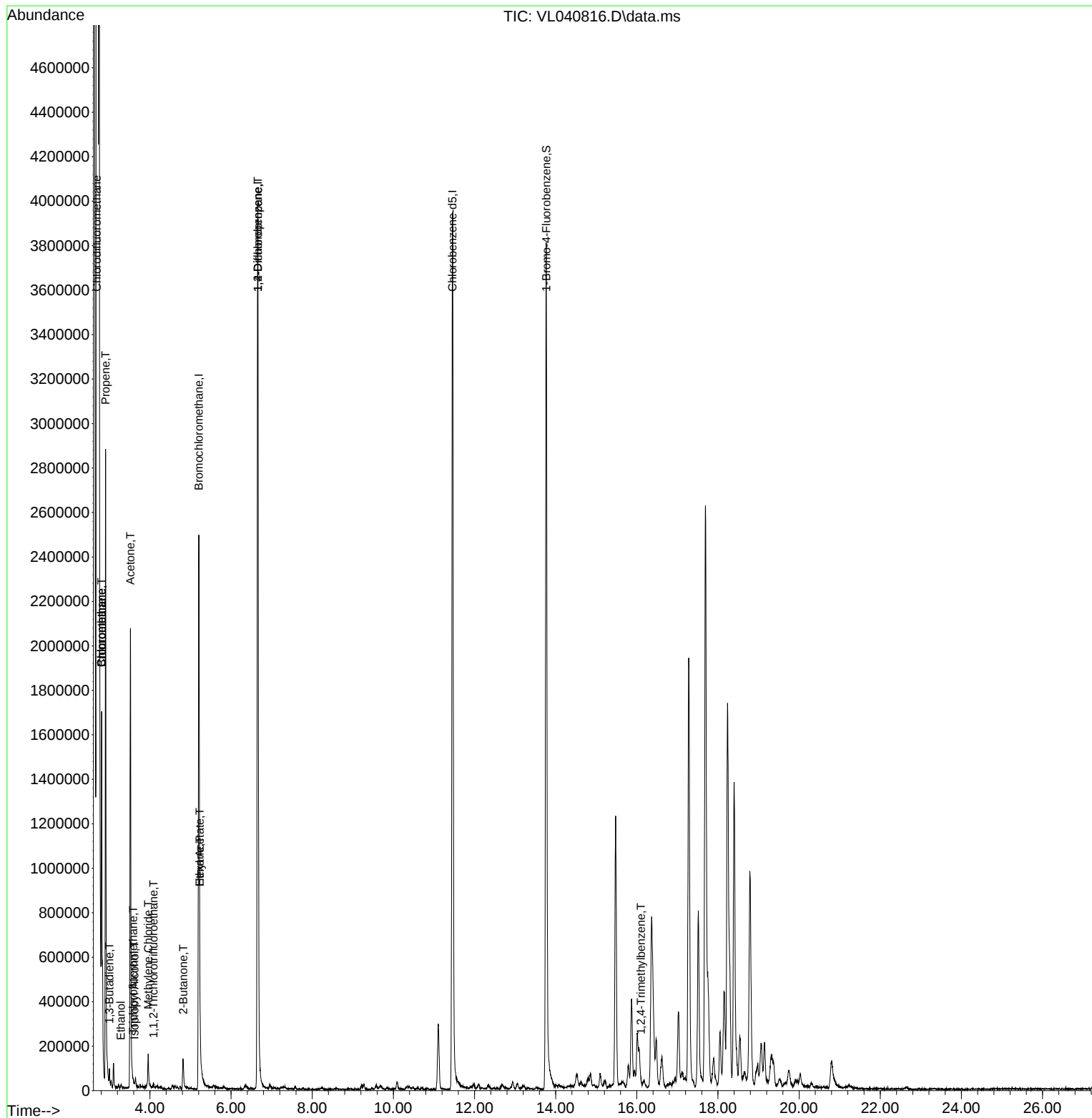
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.690	51	14439400	80.700	ppbv #	61
4) Chloromethane	2.809	50	13043	0.185	ppbv #	43
6) Bromomethane	2.809	94	11278	0.373	ppbv	92
7) Chloroethane	2.809	64	315140	13.260	ppbv #	44
9) Propene	2.906	41	810380	12.194	ppbv	93
11) Trichlorofluoromethane	3.590	101	5733	0.035	ppbv #	48
12) 1,1,2-Trichlorotrifluo...	4.089	101	4999	0.042	ppbv #	81
13) Ethanol	3.285	45	9141	0.609	ppbv #	43
15) Acetone	3.516	43	816319	6.486	ppbv #	64
16) 1,3-Butadiene	3.002	39	14467	0.219	ppbv #	19
19) Isopropyl Alcohol	3.619	45	6597	0.081	ppbv #	37
20) Methylene Chloride	3.957	84	41470	0.791	ppbv	90
25) Ethyl Acetate	5.227	43	23347	0.085	ppbv #	81
26) Hexane	5.227	57	39519	0.314	ppbv #	45
34) 2-Butanone	4.819	43	175948	1.247	ppbv	98
39) 1,2-Dichloropropane	6.658	63	763822	8.153	ppbv #	27
74) 1,2,4-Trimethylbenzene	16.101	105	9370	0.031	ppbv #	70

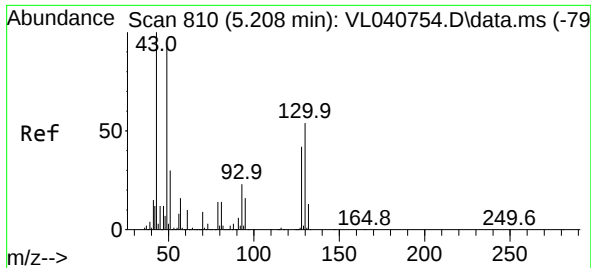
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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Response via : Initial Calibration

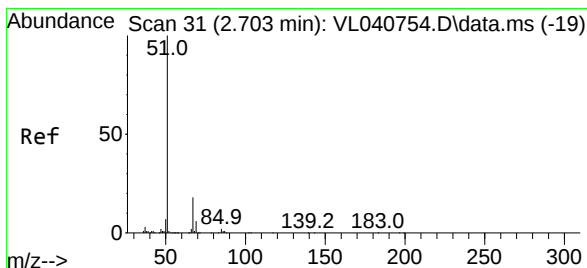
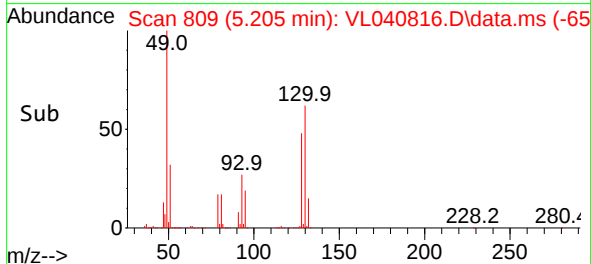
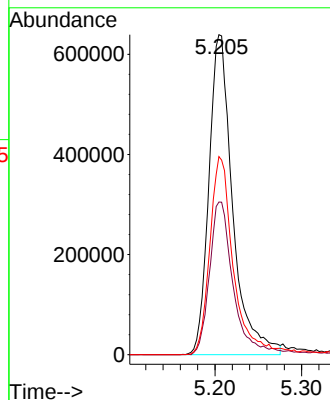
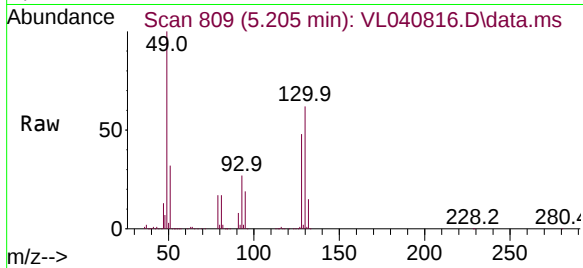




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.205 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

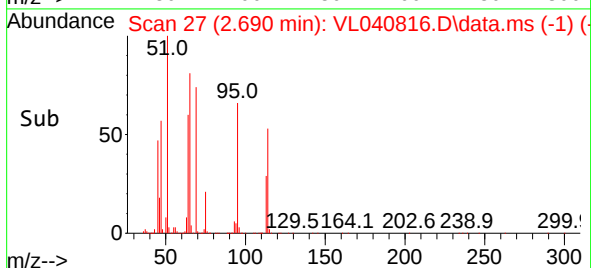
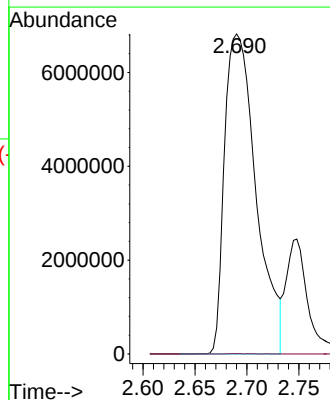
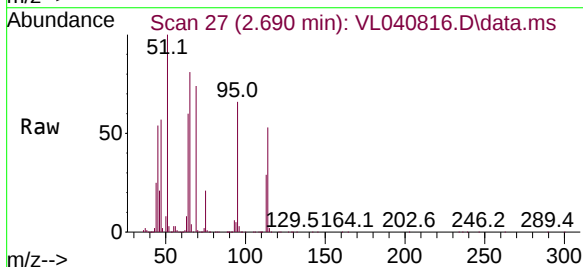
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

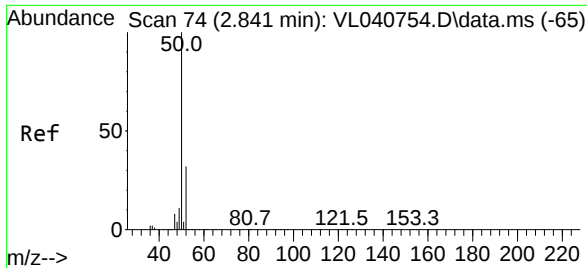
Tgt Ion: 49 Resp: 1217514
Ion Ratio Lower Upper
49 100
128 49.4 23.9 71.7
130 63.7 30.7 92.1



#3
Chlorodifluoromethane
Concen: 80.700 ppbv
RT: 2.690 min Scan# 27
Delta R.T. -0.026 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 51 Resp: 14439400
Ion Ratio Lower Upper
51 100
67 0.1 13.8 20.6#

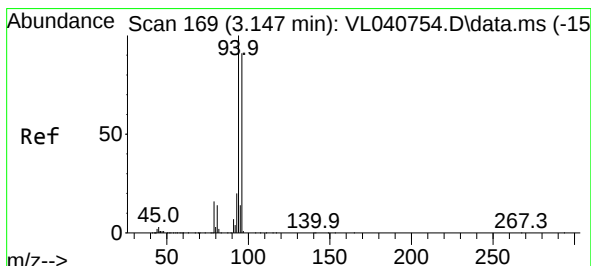
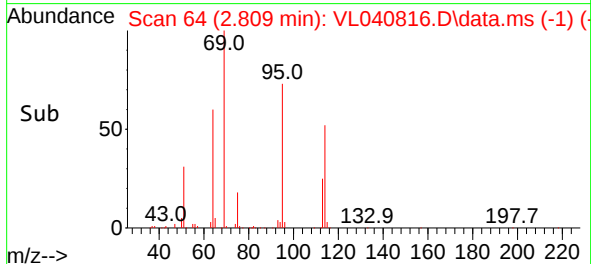
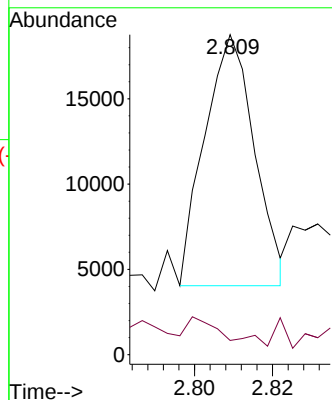
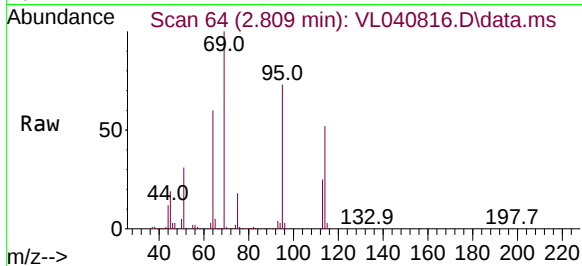




#4
Chloromethane
Concen: 0.185 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.045 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

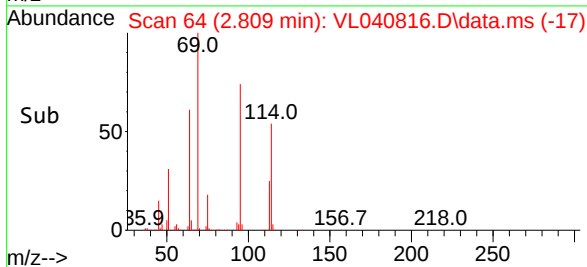
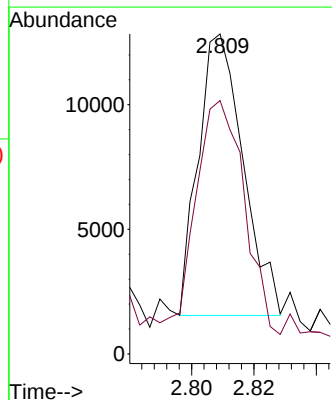
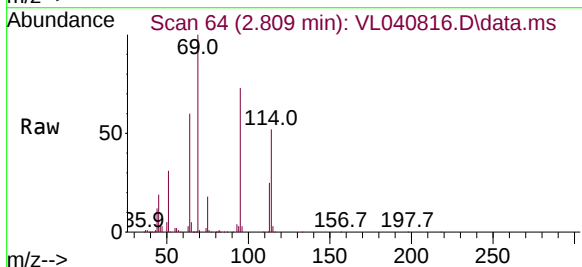
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

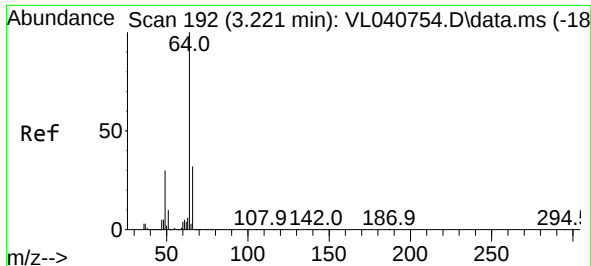
Tgt Ion: 50 Resp: 13043
Ion Ratio Lower Upper
50 100
52 0.0 25.3 37.9#



#6
Bromomethane
Concen: 0.373 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.347 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 94 Resp: 11278
Ion Ratio Lower Upper
94 100
96 83.1 72.6 109.0

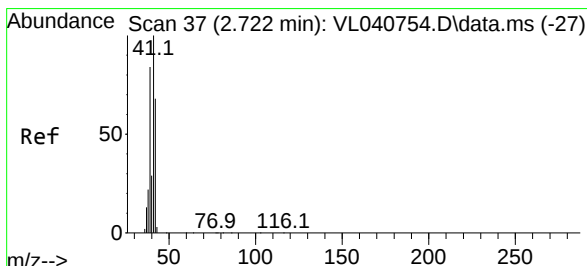
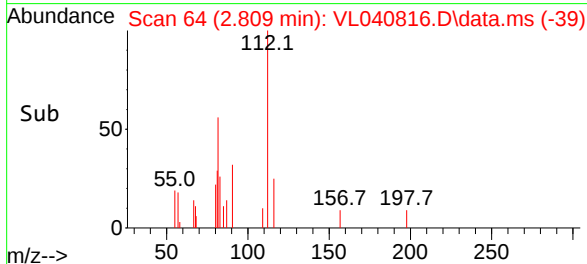
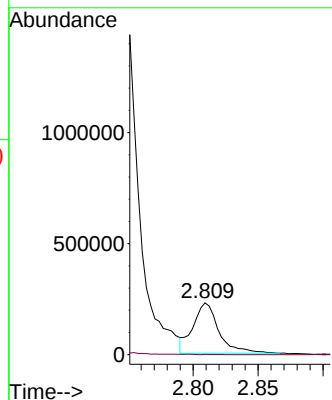
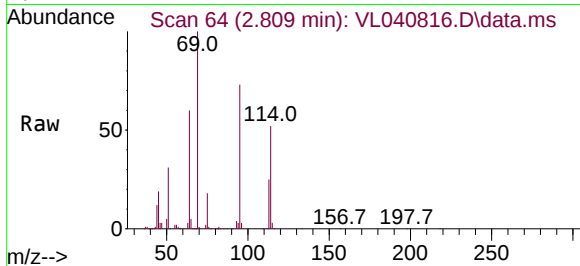




#7
Chloroethane
Concen: 13.260 ppbv
RT: 2.809 min Scan# 64
Delta R.T. -0.421 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

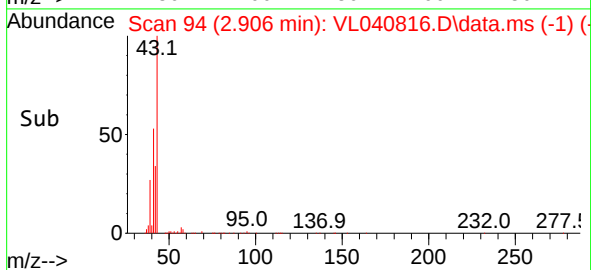
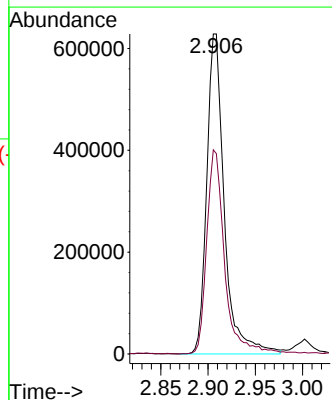
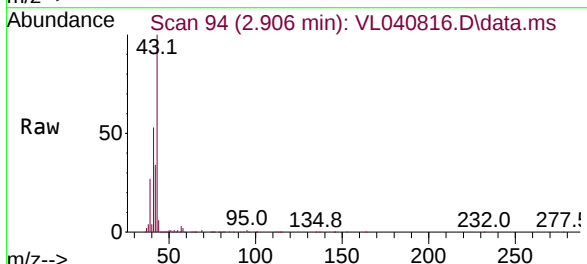
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

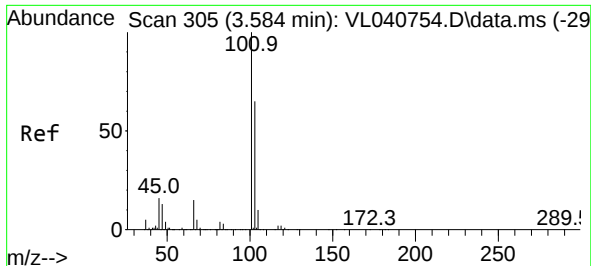
Tgt Ion: 64 Resp: 315140
Ion Ratio Lower Upper
64 100
66 0.5 25.4 38.2#



#9
Propene
Concen: 12.194 ppbv
RT: 2.906 min Scan# 94
Delta R.T. 0.170 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 41 Resp: 810380
Ion Ratio Lower Upper
41 100
42 65.7 57.1 85.7

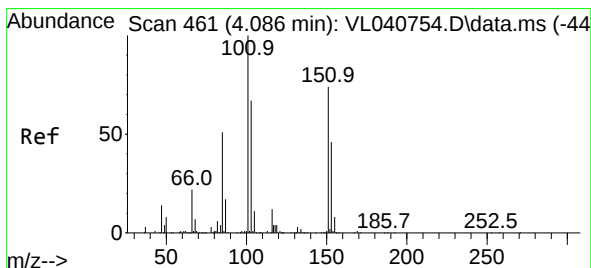
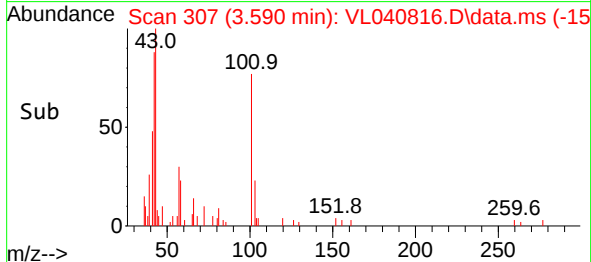
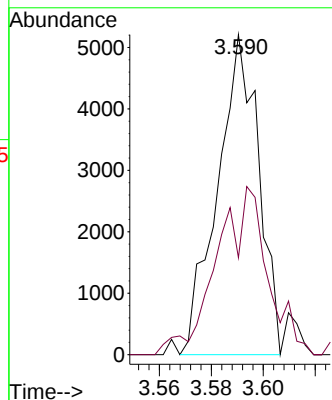
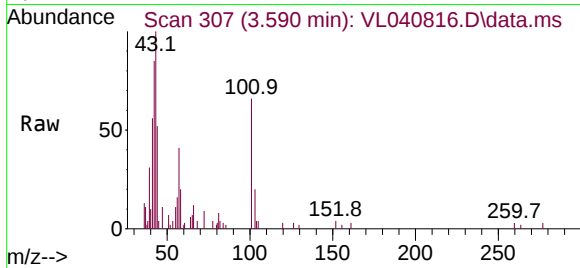




#11
 Trichlorofluoromethane
 Concen: 0.035 ppbv
 RT: 3.590 min Scan# 305
 Delta R.T. -0.003 min
 Lab File: VL040816.D
 Acq: 8 Nov 2023 18:36

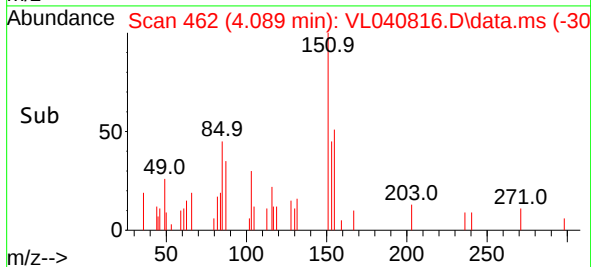
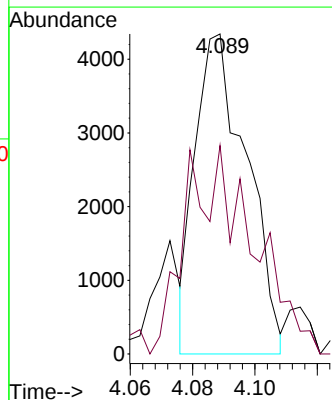
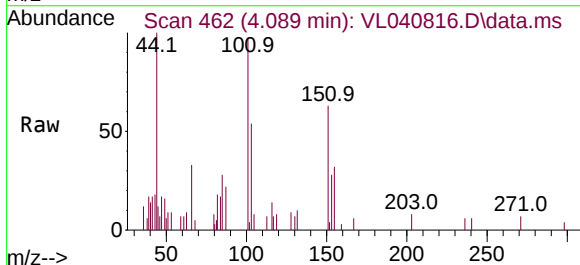
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

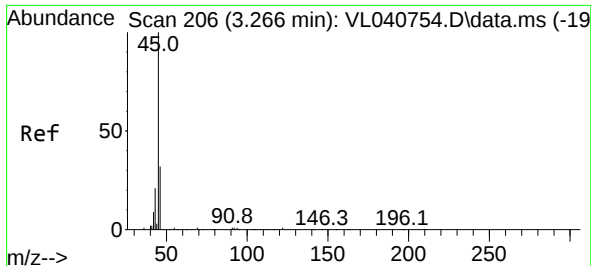
Tgt Ion:101 Resp: 5733
 Ion Ratio Lower Upper
 101 100
 103 24.5 52.2 78.2#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.042 ppbv
 RT: 4.089 min Scan# 462
 Delta R.T. -0.003 min
 Lab File: VL040816.D
 Acq: 8 Nov 2023 18:36

Tgt Ion:101 Resp: 4999
 Ion Ratio Lower Upper
 101 100
 151 88.2 58.1 87.1#

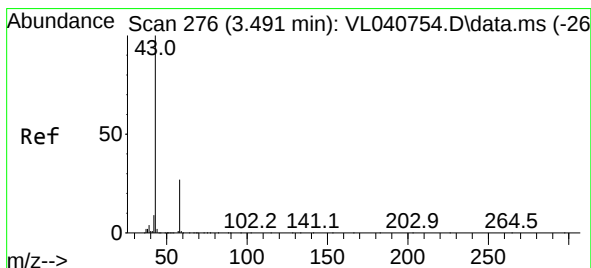
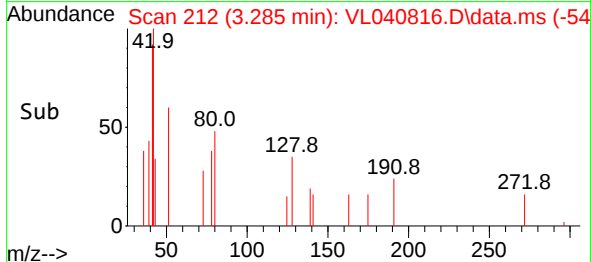
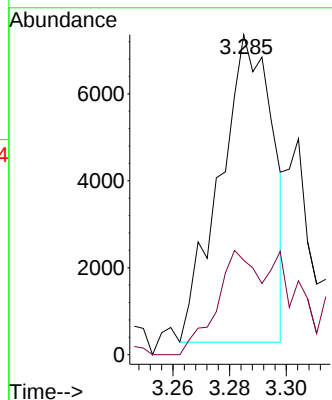
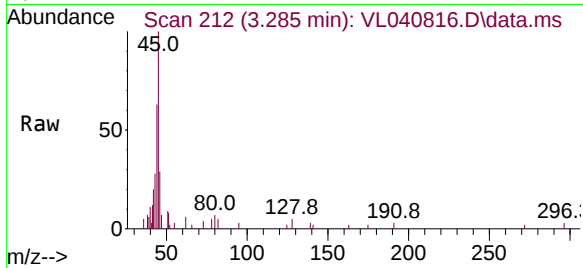




#13
Ethanol
Concen: 0.609 ppbv
RT: 3.285 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

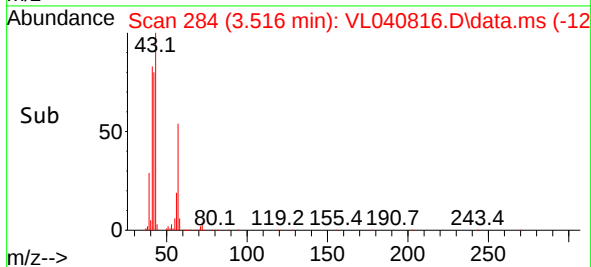
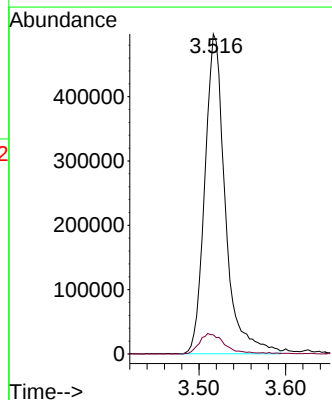
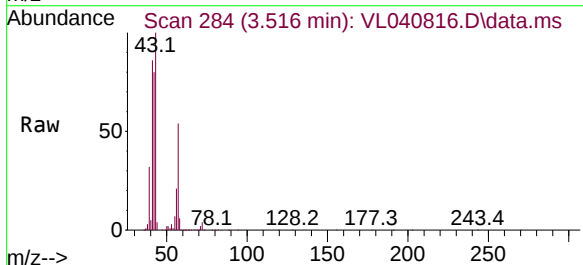
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

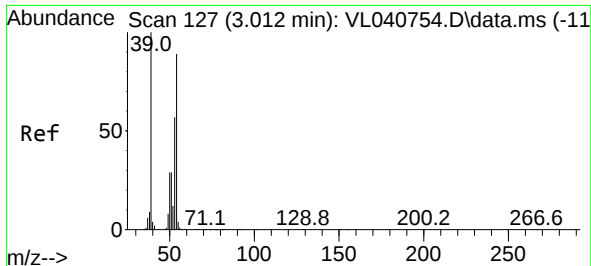
Tgt Ion: 45 Resp: 9141
Ion Ratio Lower Upper
45 100
46 70.1 14.6 58.2#



#15
Acetone
Concen: 6.486 ppbv
RT: 3.516 min Scan# 284
Delta R.T. 0.016 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 43 Resp: 816319
Ion Ratio Lower Upper
43 100
58 8.3 21.6 32.4#

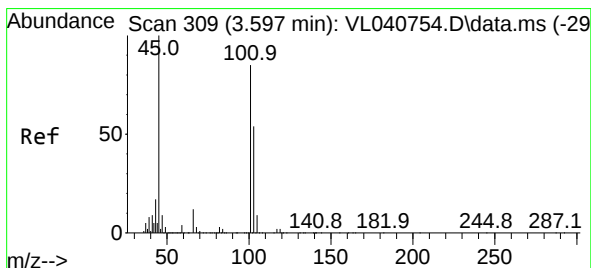
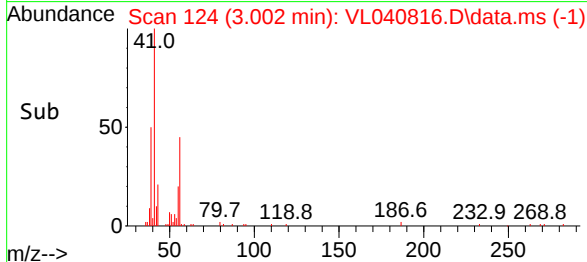
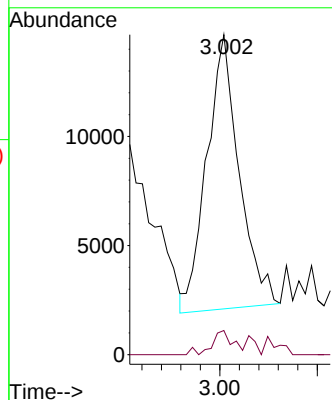
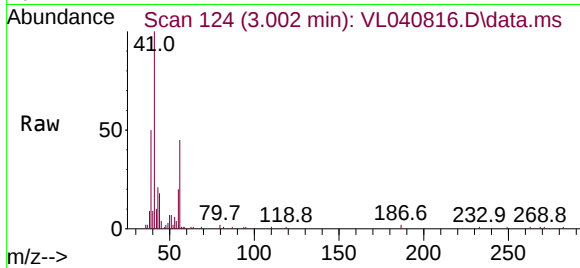




#16
1,3-Butadiene
Concen: 0.219 ppbv
RT: 3.002 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

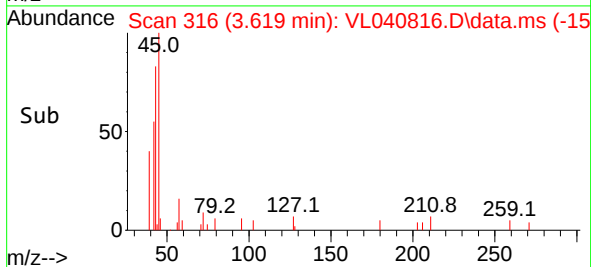
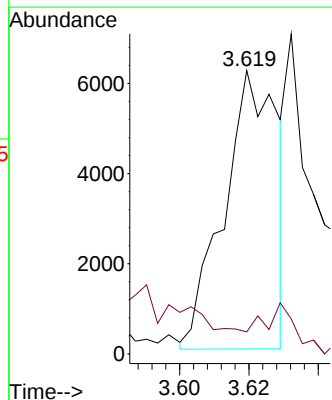
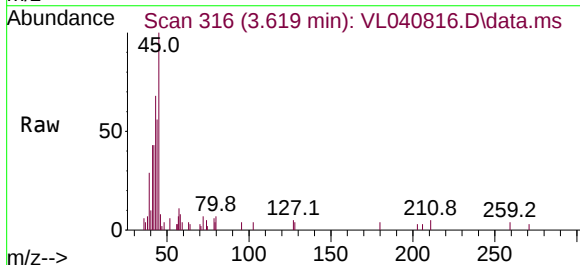
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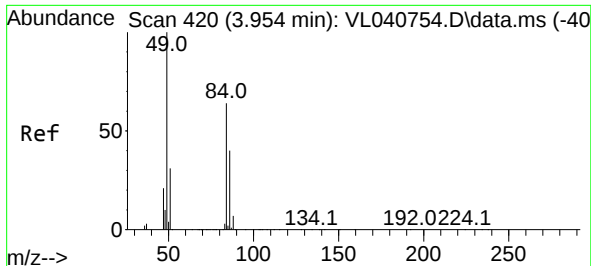
Tgt Ion: 39 Resp: 14467
Ion Ratio Lower Upper
39 100
54 7.6 63.0 94.6#



#19
Isopropyl Alcohol
Concen: 0.081 ppbv
RT: 3.619 min Scan# 316
Delta R.T. 0.013 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 45 Resp: 6597
Ion Ratio Lower Upper
45 100
58 0.0 30.3 45.5#



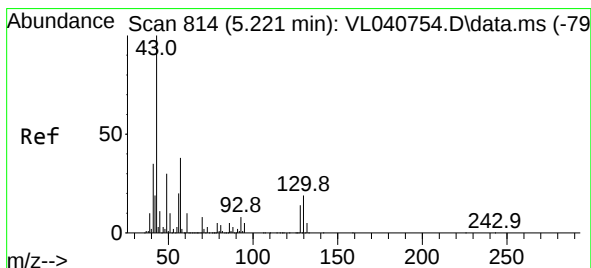
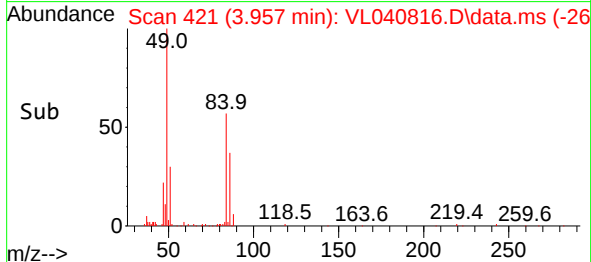
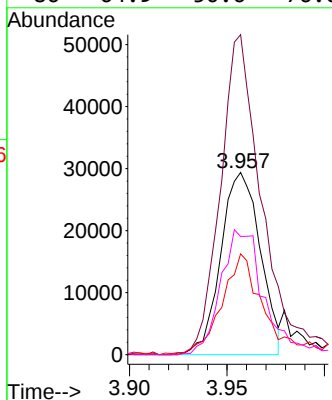
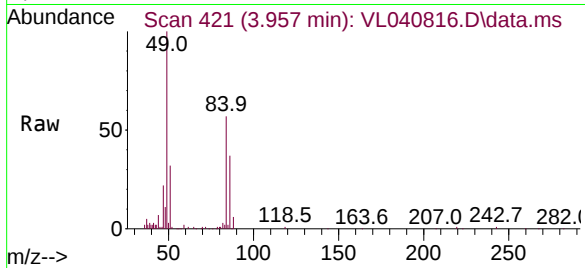


#20
Methylene Chloride
Concen: 0.791 ppbv
RT: 3.957 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 84 Resp: 41470

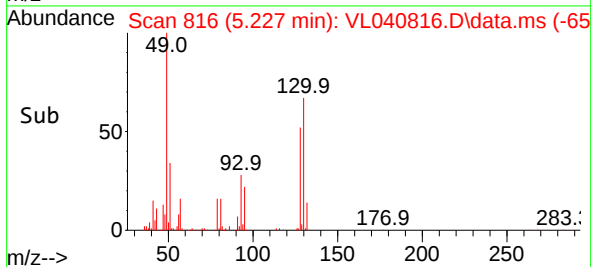
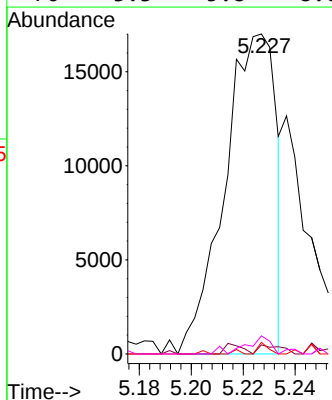
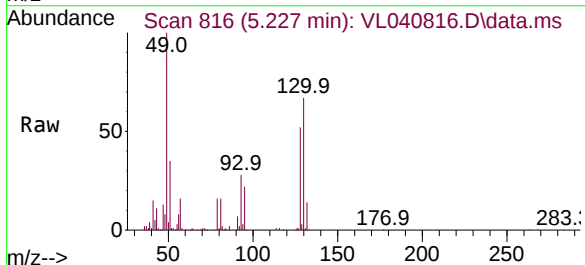
Ion	Ratio	Lower	Upper
84	100		
49	174.8	125.6	188.4
51	54.2	38.9	58.3
86	64.9	50.6	76.0

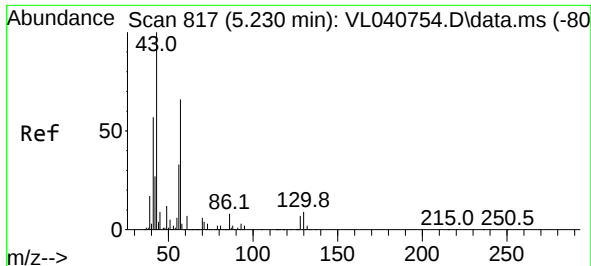


#25
Ethyl Acetate
Concen: 0.085 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.006 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 43 Resp: 23347

Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.2	12.4#
61	1.5	8.2	12.2#
70	3.3	5.8	8.6#

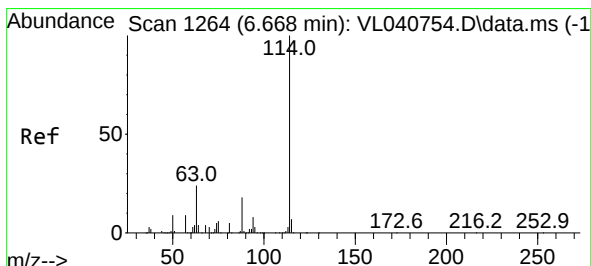
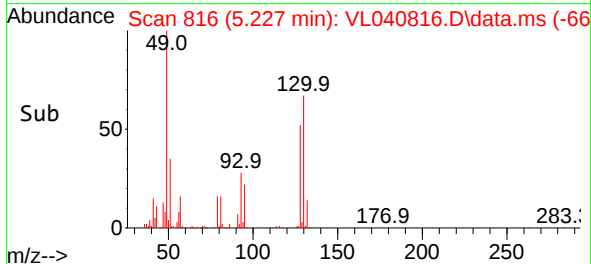
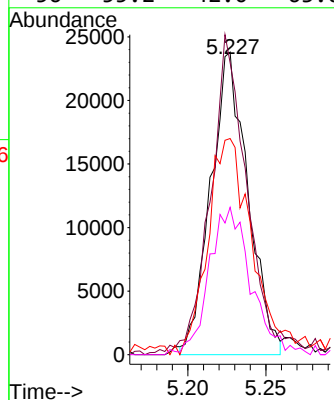
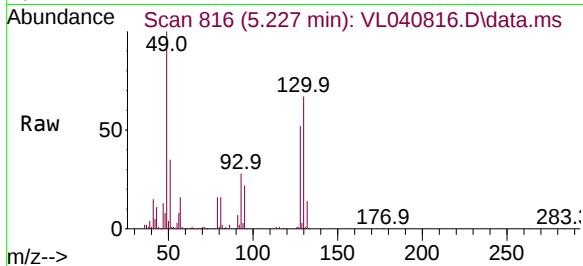




#26
Hexane
Concen: 0.314 ppbv
RT: 5.227 min Scan# 817
Delta R.T. -0.000 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

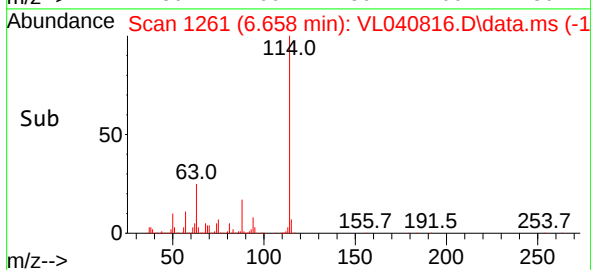
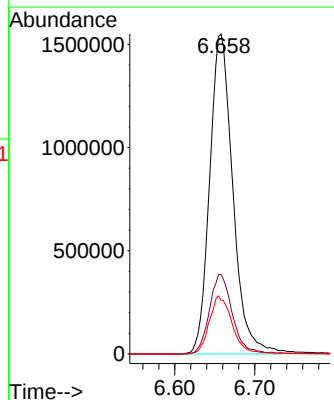
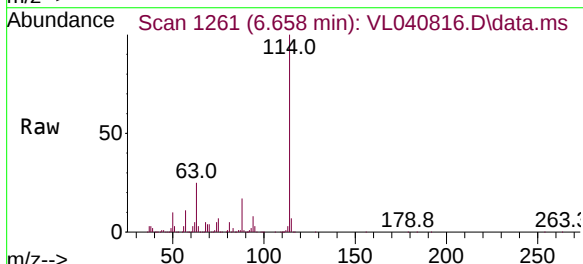
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

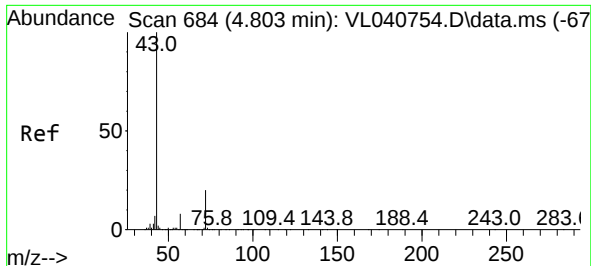
Tgt Ion: 57 Resp: 39519
Ion Ratio Lower Upper
57 100
41 105.8 71.4 107.2
43 94.7 182.3 273.5#
56 55.2 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.006 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 114 Resp: 3117466
Ion Ratio Lower Upper
114 100
63 25.0 19.8 29.6
88 18.0 14.2 21.2

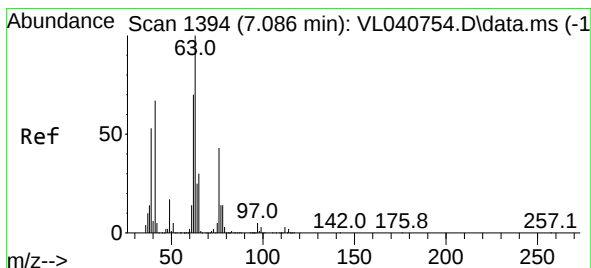
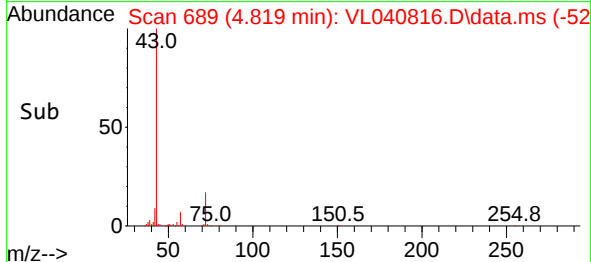
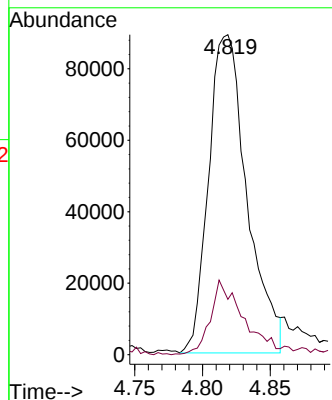
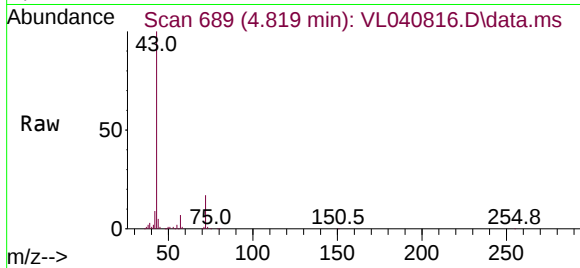




#34
2-Butanone
Concen: 1.247 ppbv
RT: 4.819 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

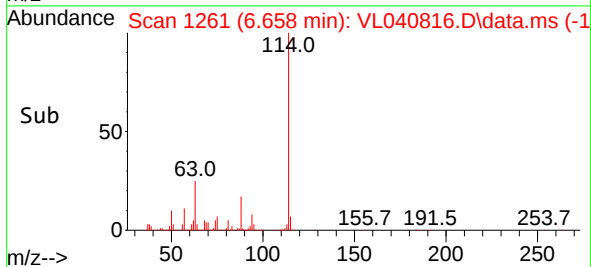
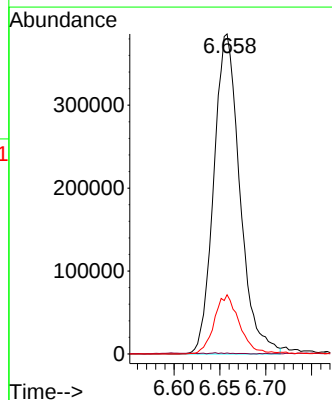
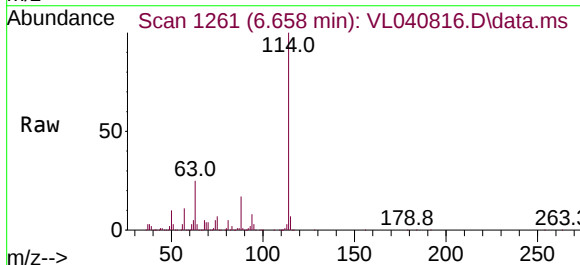
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

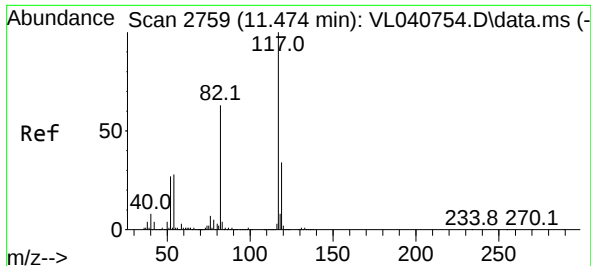
Tgt Ion: 43 Resp: 175948
Ion Ratio Lower Upper
43 100
72 22.1 16.8 25.2



#39
1,2-Dichloropropane
Concen: 8.153 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.424 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

Tgt Ion: 63 Resp: 763822
Ion Ratio Lower Upper
63 100
41 0.2 53.7 80.5#
62 18.5 55.7 83.5#

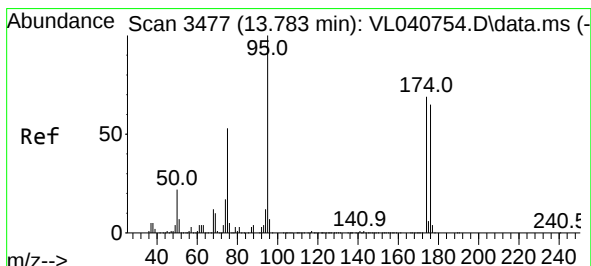
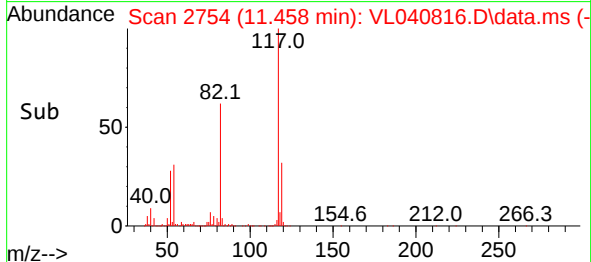
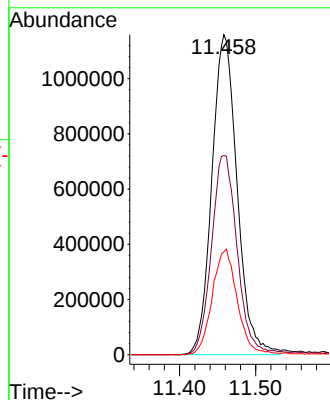
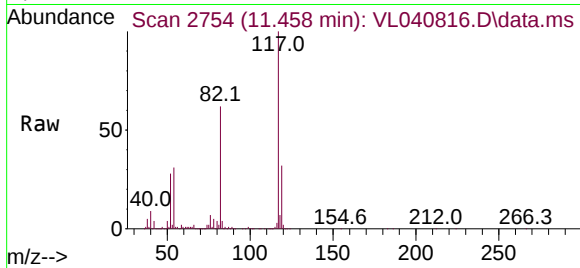




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

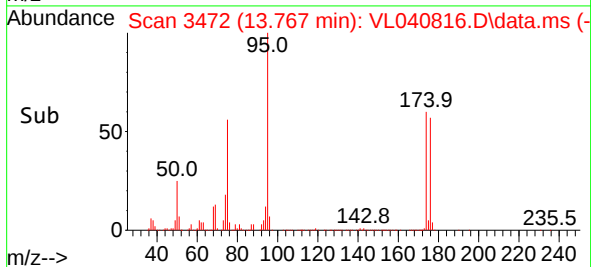
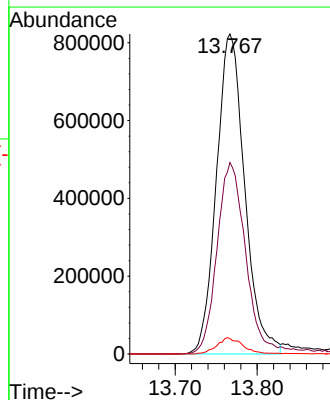
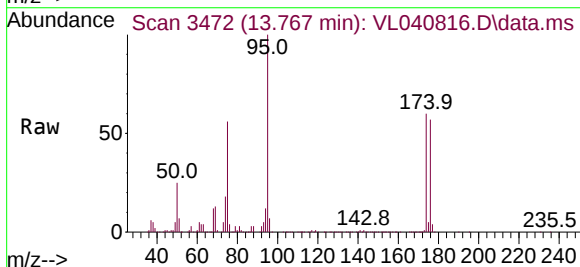
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

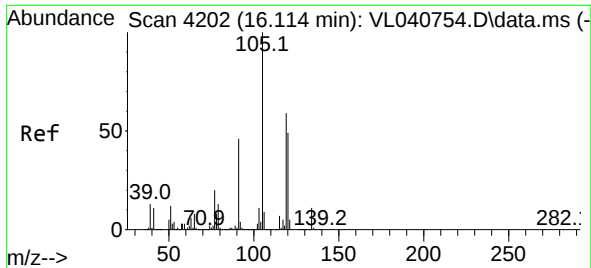
Tgt Ion:117 Resp: 2677832
Ion Ratio Lower Upper
117 100
82 64.8 46.6 70.0
119 33.2 26.0 39.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.013 ppbv
RT: 13.767 min Scan# 3472
Delta R.T. -0.003 min
Lab File: VL040816.D
Acq: 8 Nov 2023 18:36

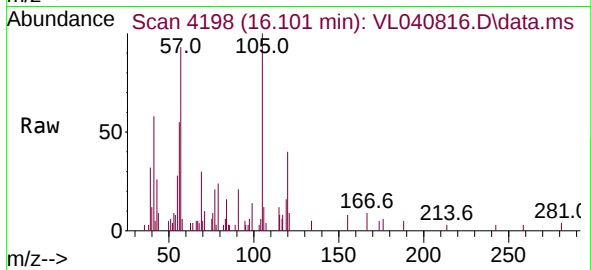
Tgt Ion: 95 Resp: 1972880
Ion Ratio Lower Upper
95 100
174 62.6 54.7 82.1
175 4.8 4.2 6.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.031 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. -0.000 min
 Lab File: VL040816.D
 Acq: 8 Nov 2023 18:36

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion:	105	Resp:	9370
Ion	Ratio	Lower	Upper
105	100		
120	40.7	39.4	59.2
91	13.5	38.6	58.0#
77	12.1	16.6	25.0#

