

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039960.D
 Acq On : 2 Dec 2022 2:44
 Operator : SY/MD
 Sample : N5851-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

Quant Time: Dec 02 05:37:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 05:29:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.156	49	1120662	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.619	114	3189715	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.433	117	2909448	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	2264567	10.190	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.900%

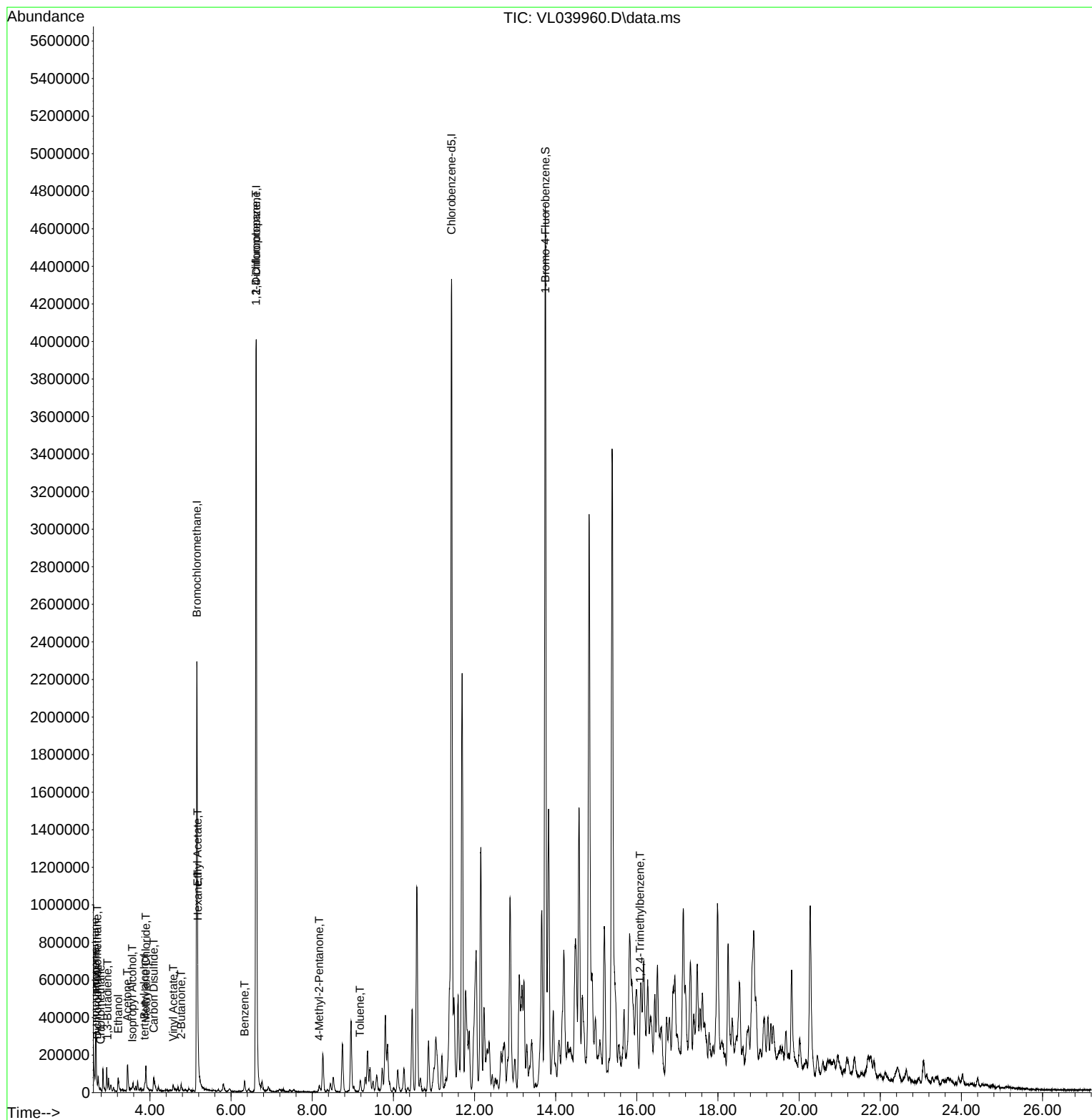
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	10399	0.065	ppbv #	80
3) Chlorodifluoromethane	2.642	51	11485	0.074	ppbv #	71
4) Chloromethane	2.780	50	7443	0.075	ppbv #	86
9) Propene	2.661	41	111262	1.527	ppbv	95
13) Ethanol	3.218	45	79105	14.224	ppbv	99
15) Acetone	3.443	43	139092	0.936	ppbv #	88
16) 1,3-Butadiene	2.954	39	3494	0.047	ppbv #	1
17) tert-Butyl alcohol	3.867	59	9859	0.058	ppbv #	72
19) Isopropyl Alcohol	3.565	45	14994	0.186	ppbv	90
20) Methylene Chloride	3.899	84	38375	0.533	ppbv #	91
23) Vinyl Acetate	4.574	43	18145	0.297	ppbv #	13
25) Ethyl Acetate	5.176	43	21922	0.080	ppbv #	80
26) Hexane	5.179	57	31462	0.264	ppbv #	37
27) Carbon Disulfide	4.092	76	87108	0.579	ppbv	95
34) 2-Butanone	4.771	43	36358	0.238	ppbv #	85
36) Benzene	6.333	78	44403	0.164	ppbv	96
39) 1,2-Dichloropropane	6.616	63	772601	7.314	ppbv #	26
50) 4-Methyl-2-Pentanone	8.172	43	9821	0.036	ppbv #	27
53) Toluene	9.176	91	11153	0.036	ppbv #	19
74) 1,2,4-Trimethylbenzene	16.076	105	15357	0.045	ppbv #	64

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

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Instrument :
MSVOA_L
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SG-1DL

Quant Time: Dec 02 05:37:58 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 05:29:35 2022
Response via : Initial Calibration

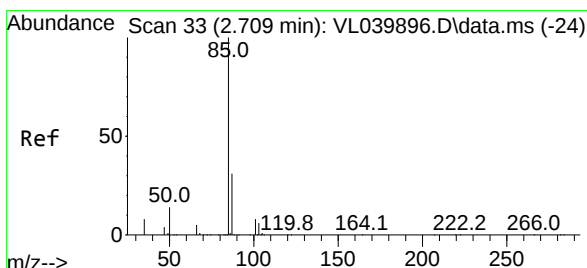
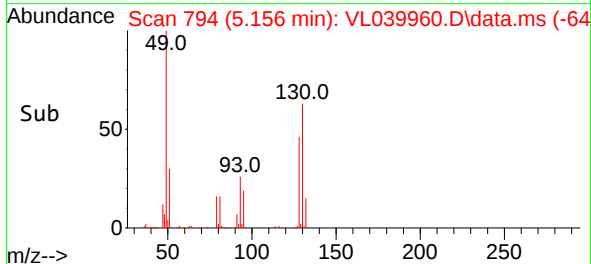
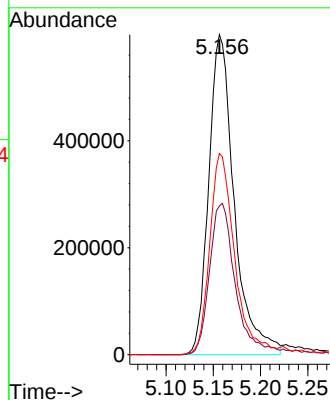
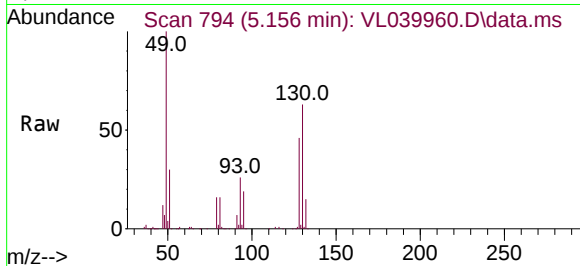




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.156 min Scan# 74
Delta R.T. -0.017 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

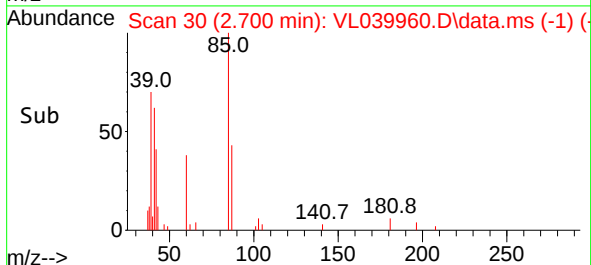
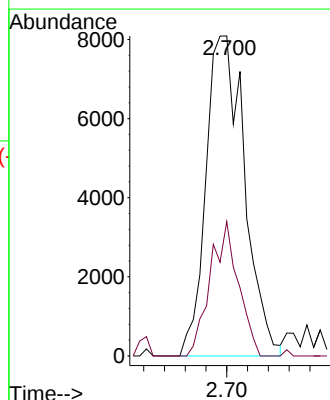
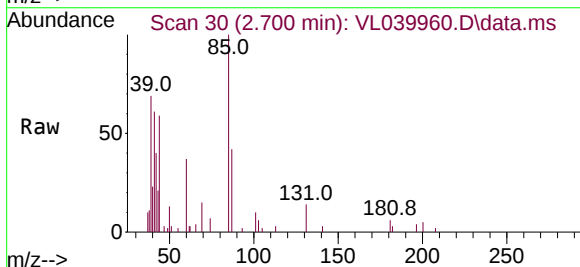
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

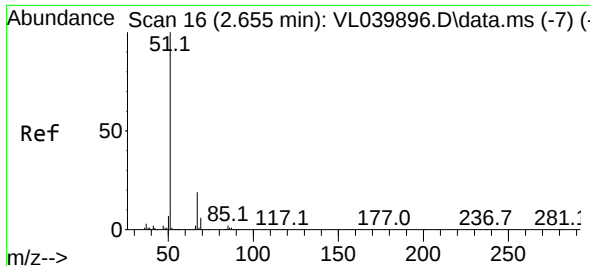
Tgt Ion: 49 Resp: 1120662
Ion Ratio Lower Upper
49 100
128 50.5 22.1 66.3
130 65.1 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.065 ppbv
RT: 2.700 min Scan# 30
Delta R.T. -0.010 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 85 Resp: 10399
Ion Ratio Lower Upper
85 100
87 42.0 25.0 37.4#

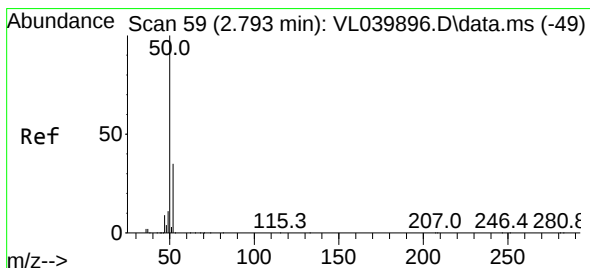
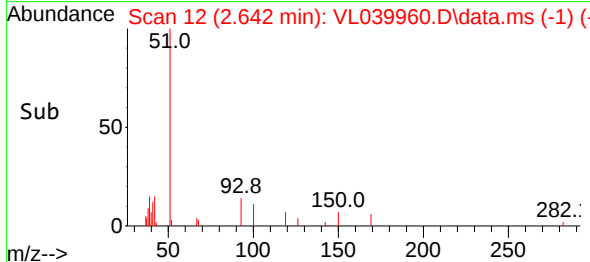
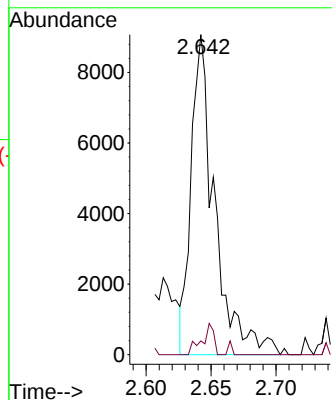
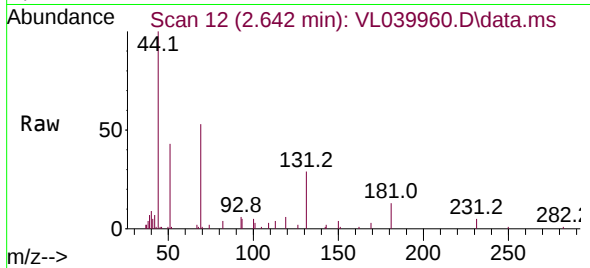




#3
Chlorodifluoromethane
Concen: 0.074 ppbv
RT: 2.642 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

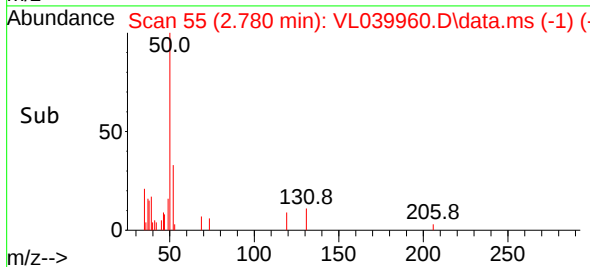
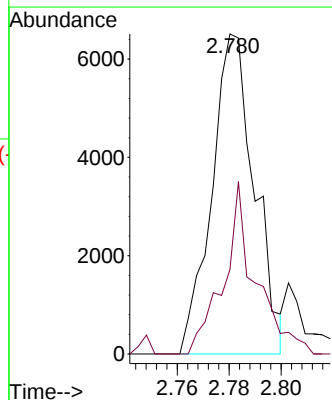
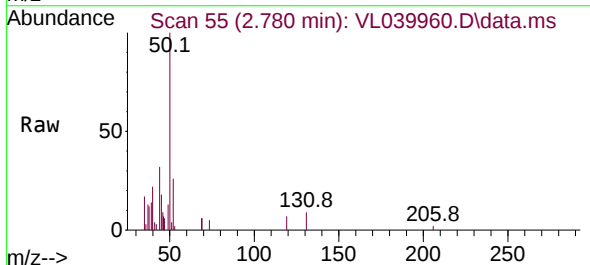
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

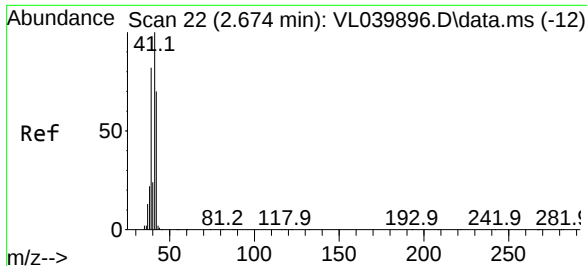
Tgt Ion: 51 Resp: 11485
Ion Ratio Lower Upper
51 100
67 4.9 14.2 21.4#



#4
Chloromethane
Concen: 0.075 ppbv
RT: 2.780 min Scan# 55
Delta R.T. -0.010 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 50 Resp: 7443
Ion Ratio Lower Upper
50 100
52 26.4 27.8 41.8#

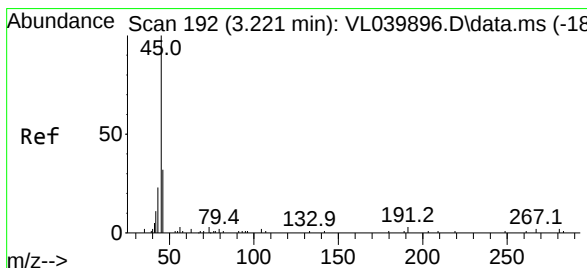
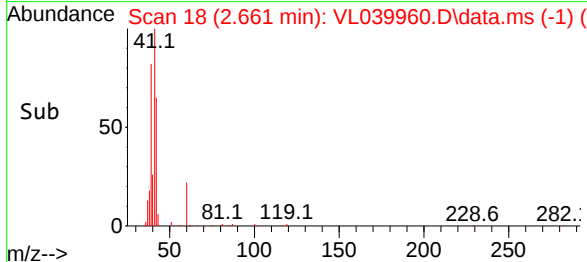
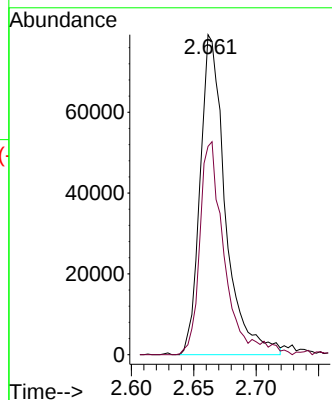
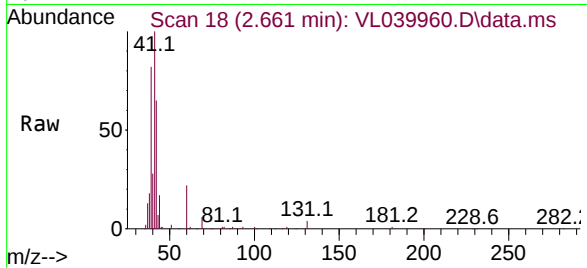




#9
 Propene
 Concen: 1.527 ppbv
 RT: 2.661 min Scan# 11
 Delta R.T. -0.010 min
 Lab File: VL039960.D
 Acq: 2 Dec 2022 2:44

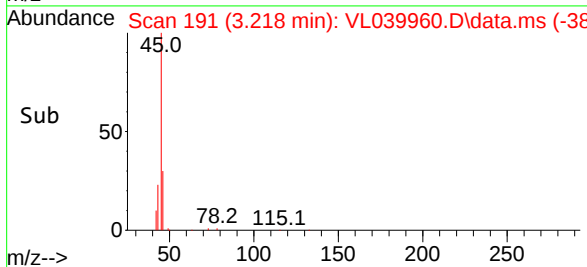
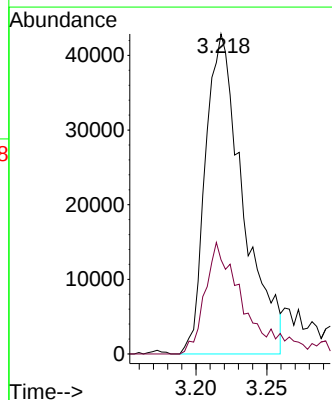
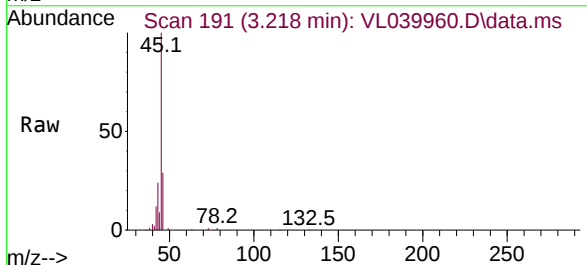
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-1DL

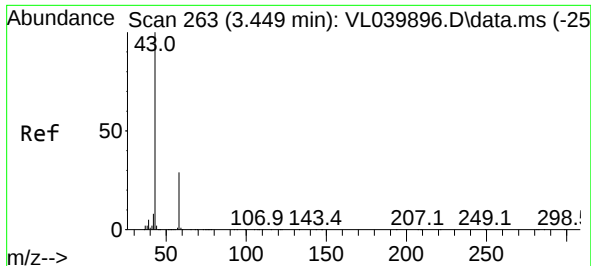
Tgt Ion: 41 Resp: 111262
 Ion Ratio Lower Upper
 41 100
 42 65.8 55.8 83.6



#13
 Ethanol
 Concen: 14.224 ppbv
 RT: 3.218 min Scan# 191
 Delta R.T. -0.010 min
 Lab File: VL039960.D
 Acq: 2 Dec 2022 2:44

Tgt Ion: 45 Resp: 79105
 Ion Ratio Lower Upper
 45 100
 46 35.8 14.6 58.2

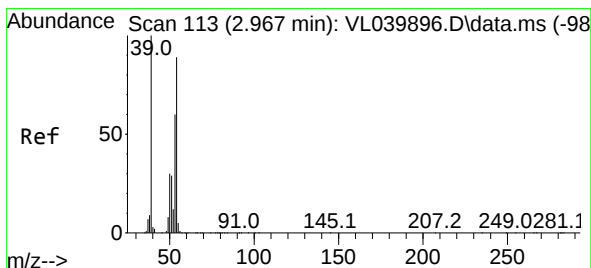
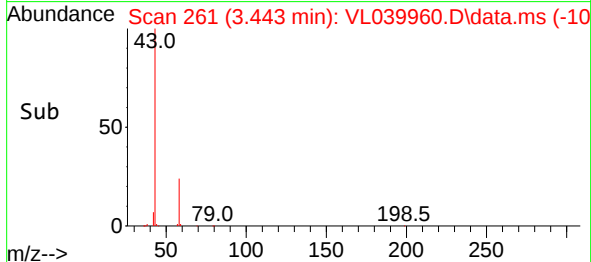
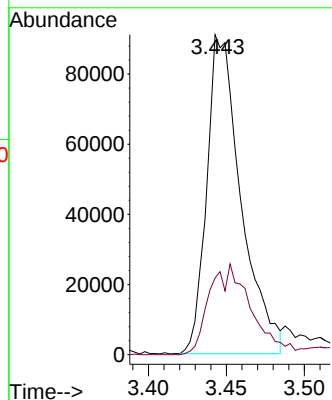
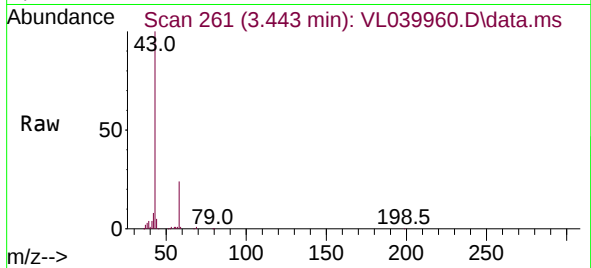




#15
Acetone
Concen: 0.936 ppbv
RT: 3.443 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

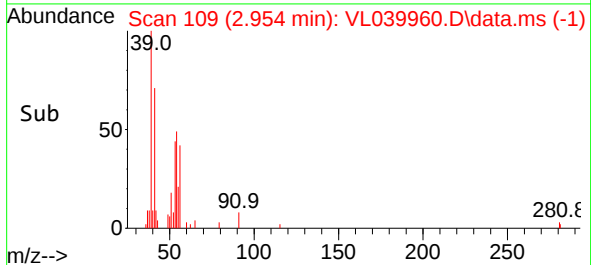
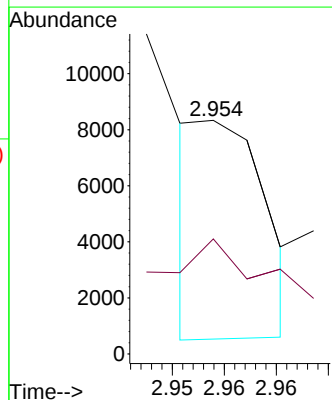
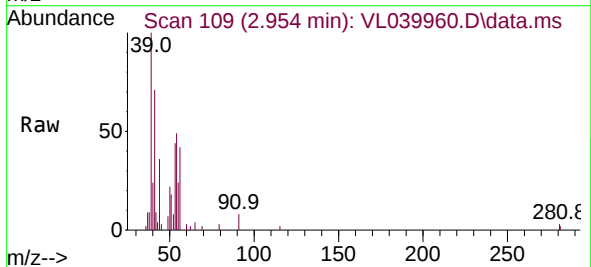
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

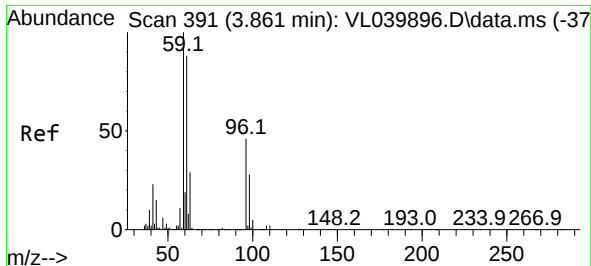
Tgt Ion: 43 Resp: 139092
Ion Ratio Lower Upper
43 100
58 34.7 22.9 34.3#



#16
1,3-Butadiene
Concen: 0.047 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.010 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 39 Resp: 3494
Ion Ratio Lower Upper
39 100
54 173.3 66.6 99.8#





#17

tert-Butyl alcohol

Concen: 0.058 ppbv

RT: 3.867 min Scan# 391

Delta R.T. 0.010 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Instrument :

MSVOA_L

ClientSampleId :

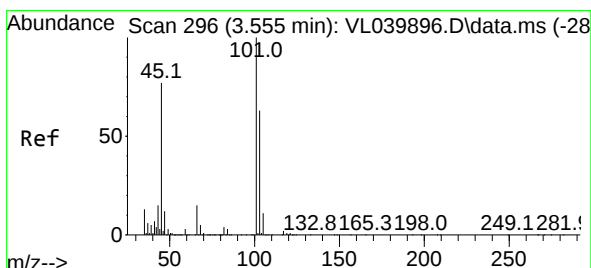
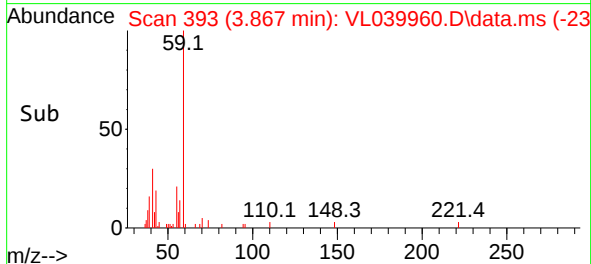
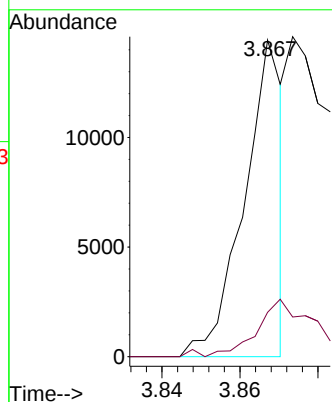
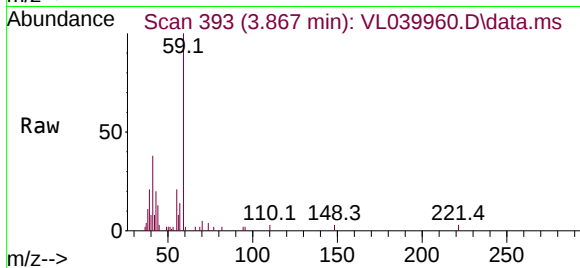
SG-1DL

Tgt Ion: 59 Resp: 9859

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.186 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.010 min

Lab File: VL039960.D

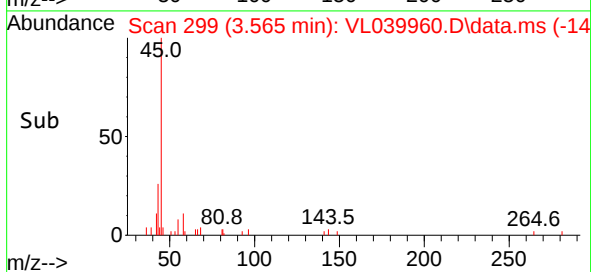
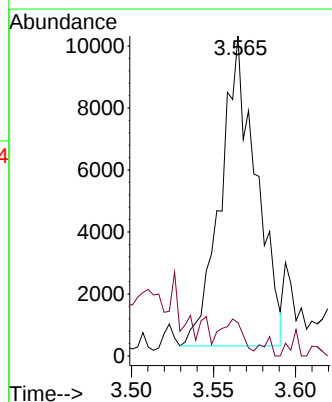
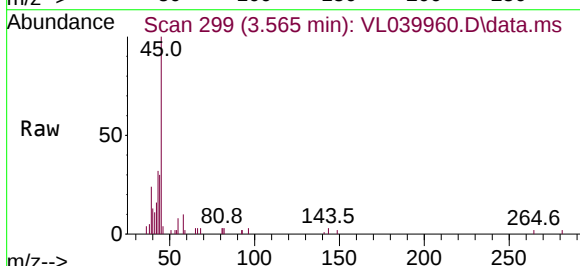
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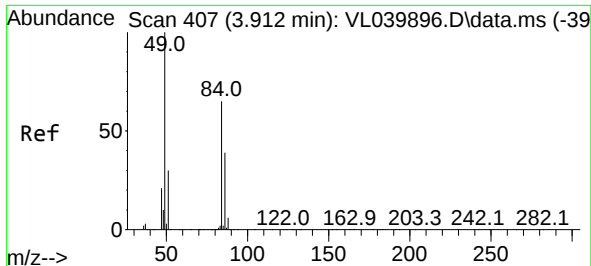
Tgt Ion: 45 Resp: 14994

Ion Ratio Lower Upper

45 100

58 41.6 38.7 58.1





#20

Methylene Chloride

Concen: 0.533 ppbv

RT: 3.899 min Scan# 407

Delta R.T. -0.013 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Instrument :

MSVOA_1

ClientSampleId :

SG-1DL

Tgt Ion: 84 Resp: 38375

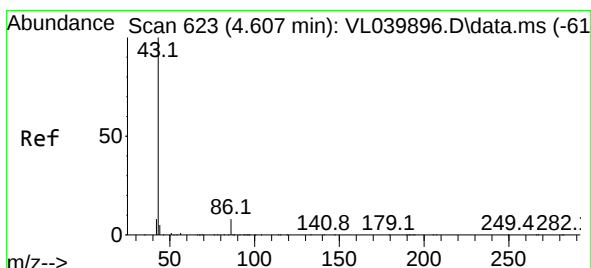
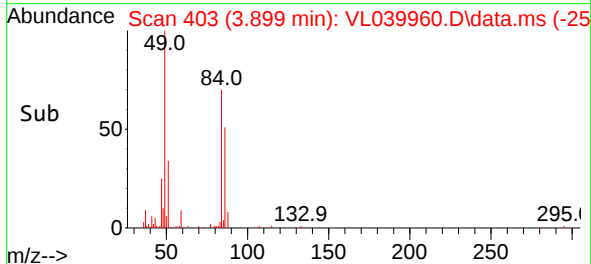
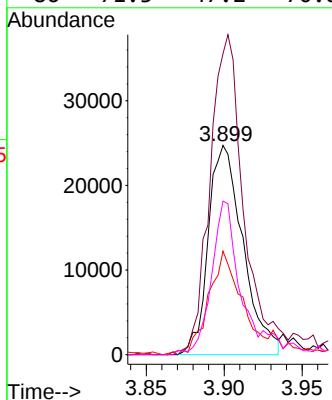
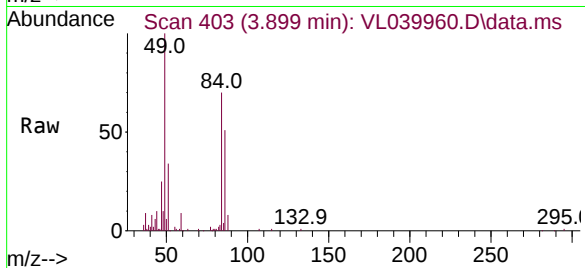
Ion Ratio Lower Upper

84 100

49 143.8 122.2 183.4

51 47.7 36.3 54.5

86 71.3 47.2 70.8#



#23

Vinyl Acetate

Concen: 0.297 ppbv

RT: 4.574 min Scan# 613

Delta R.T. -0.032 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Tgt Ion: 43 Resp: 18145

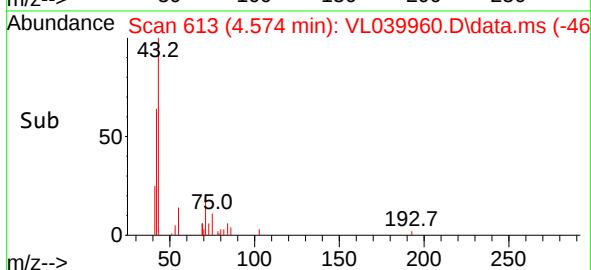
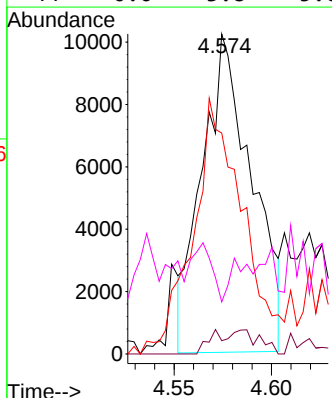
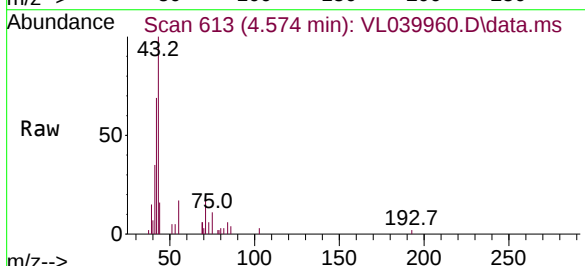
Ion Ratio Lower Upper

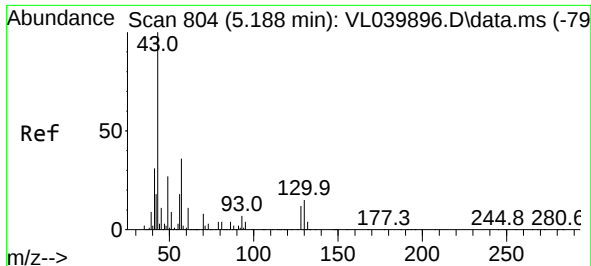
43 100

86 5.5 5.0 7.4

42 75.2 7.6 11.4#

44 0.0 3.8 5.6#





#25

Ethyl Acetate

Concen: 0.080 ppbv

RT: 5.176 min Scan# 800

Delta R.T. -0.010 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

Tgt Ion: 43 Resp: 21922

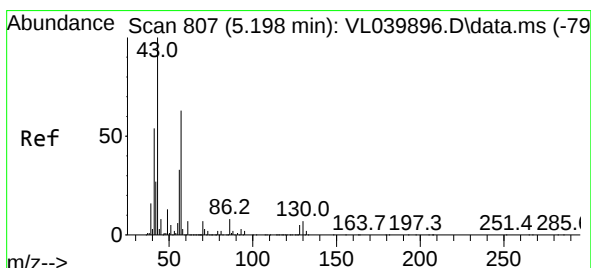
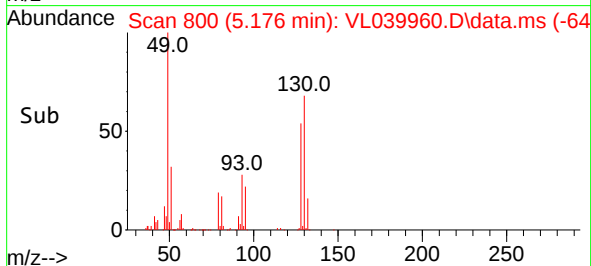
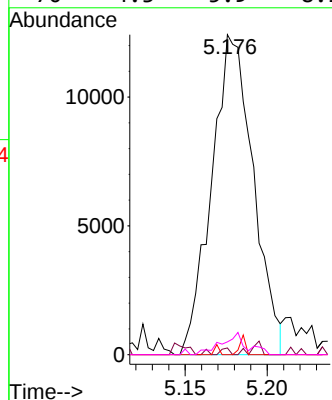
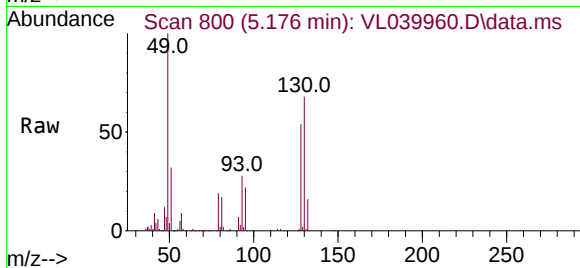
Ion Ratio Lower Upper

43 100

45 1.8 8.4 12.6#

61 1.2 8.5 12.7#

70 4.3 5.9 8.9#



#26

Hexane

Concen: 0.264 ppbv

RT: 5.179 min Scan# 801

Delta R.T. -0.016 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Tgt Ion: 57 Resp: 31462

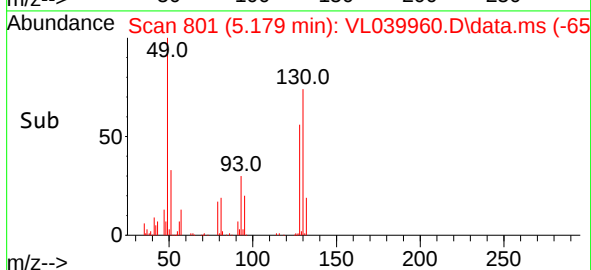
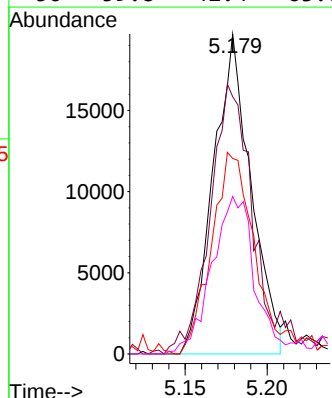
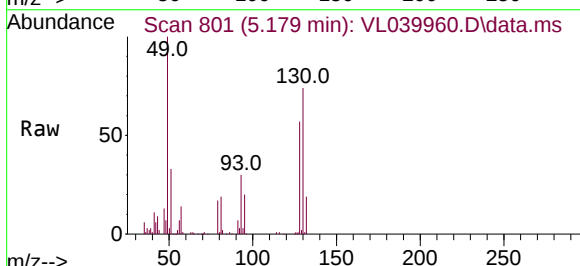
Ion Ratio Lower Upper

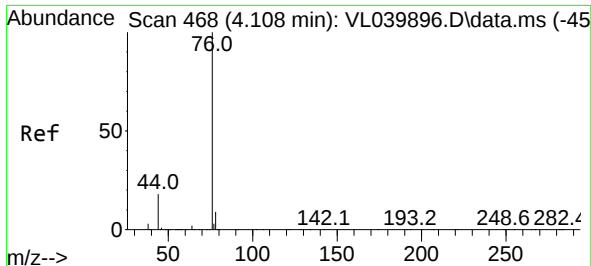
57 100

41 97.8 72.3 108.5

43 73.9 188.7 283.1#

56 59.8 42.4 63.6

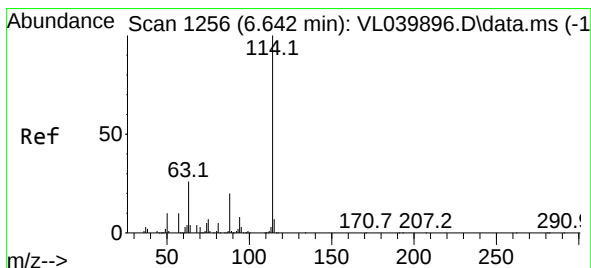
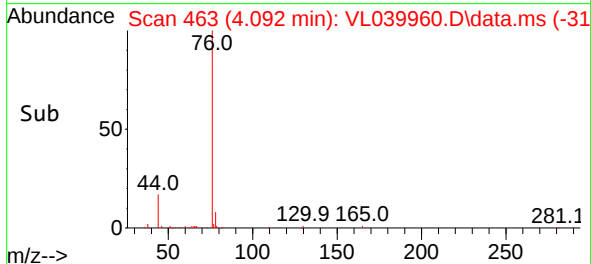
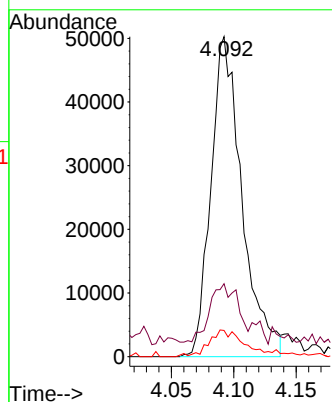
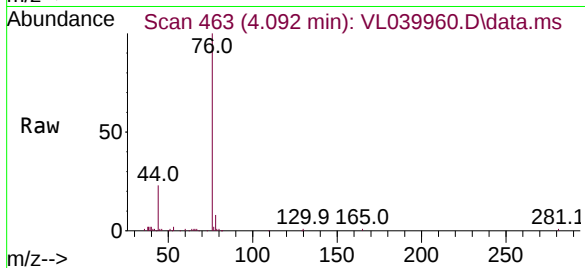




#27
Carbon Disulfide
Concen: 0.579 ppbv
RT: 4.092 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

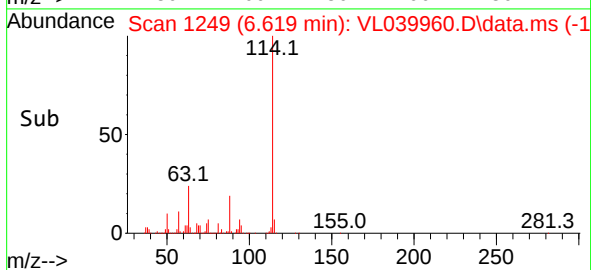
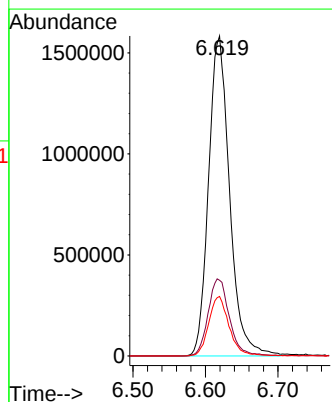
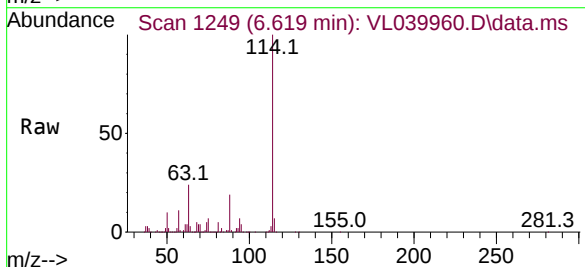
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

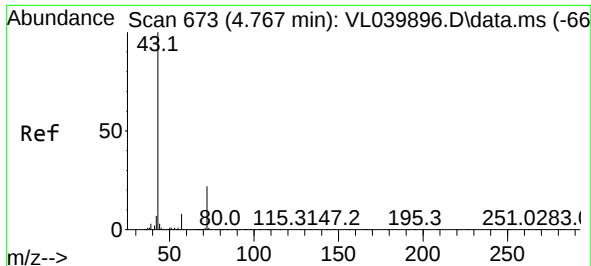
Tgt Ion: 76 Resp: 87108
Ion Ratio Lower Upper
76 100
44 21.1 14.7 22.1
78 10.7 7.8 11.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.619 min Scan# 1249
Delta R.T. -0.016 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 114 Resp: 3189715
Ion Ratio Lower Upper
114 100
63 24.4 21.4 32.0
88 18.2 15.3 22.9

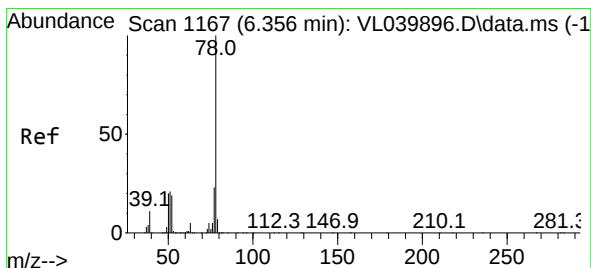
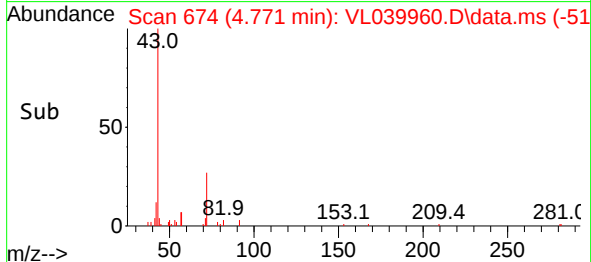
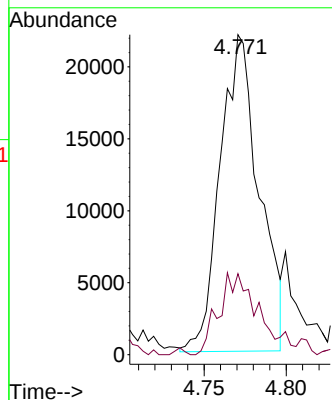
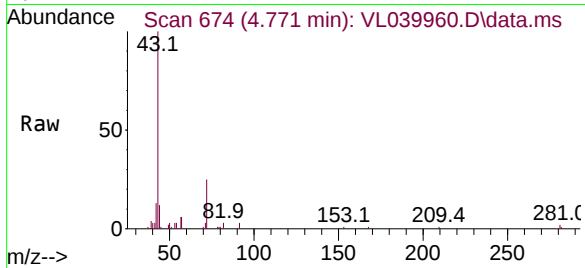




#34
2-Butanone
Concen: 0.238 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

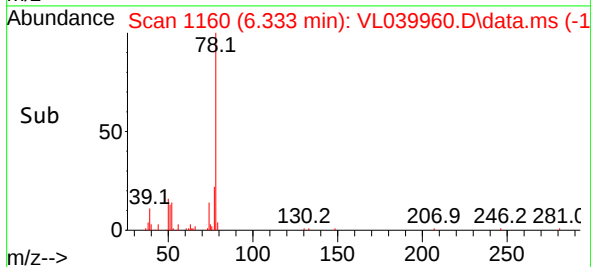
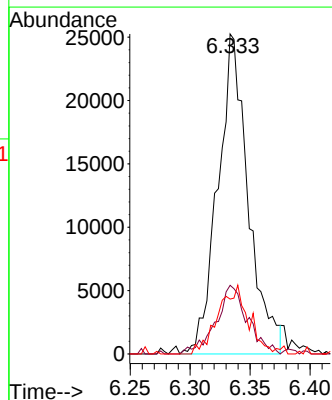
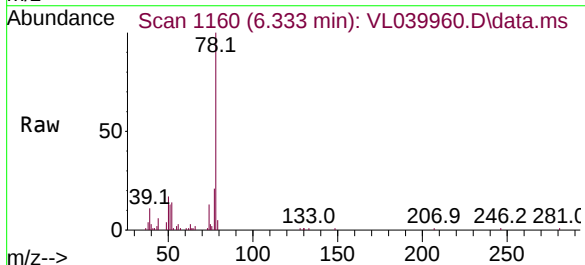
Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

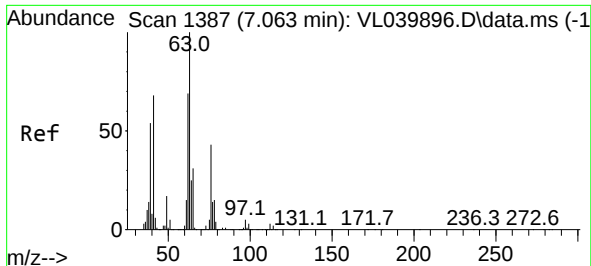
Tgt Ion: 43 Resp: 36358
Ion Ratio Lower Upper
43 100
72 29.1 17.4 26.2#



#36
Benzene
Concen: 0.164 ppbv
RT: 6.333 min Scan# 1160
Delta R.T. -0.019 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 78 Resp: 44403
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.2
50 17.1 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.314 ppbv

RT: 6.616 min Scan# 11

Delta R.T. -0.440 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Instrument :

MSVOA_L

ClientSampleId :

SG-1DL

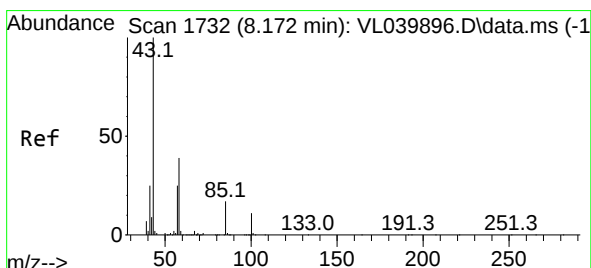
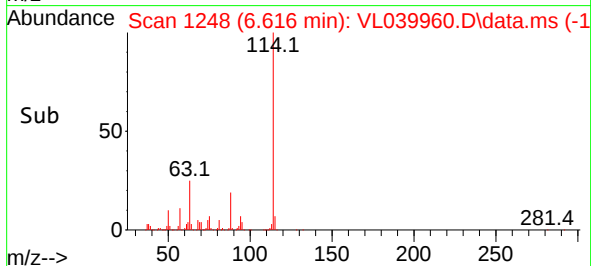
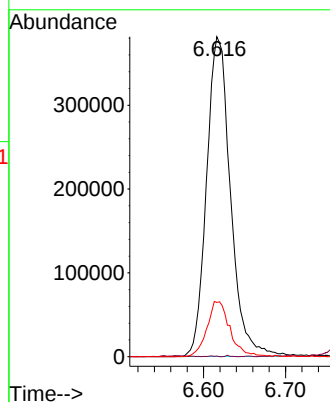
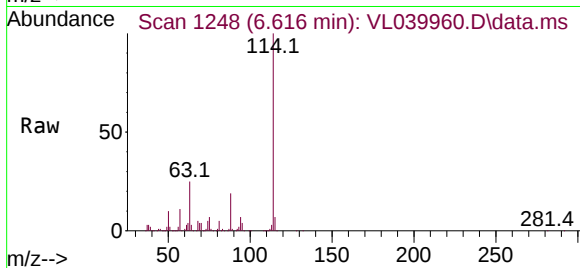
Tgt Ion: 63 Resp: 772601

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.0 55.0 82.6#



#50

4-Methyl-2-Pentanone

Concen: 0.036 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. 0.006 min

Lab File: VL039960.D

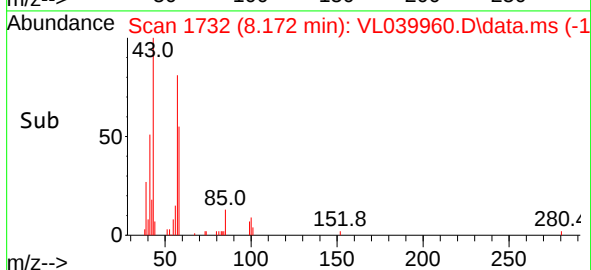
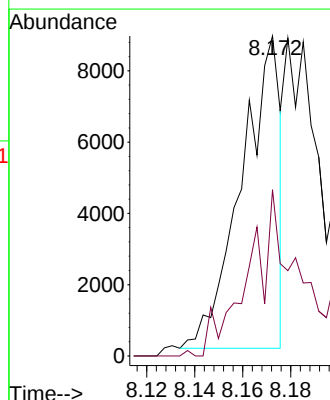
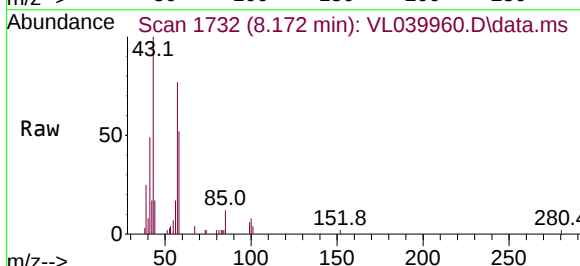
Acq: 2 Dec 2022 2:44

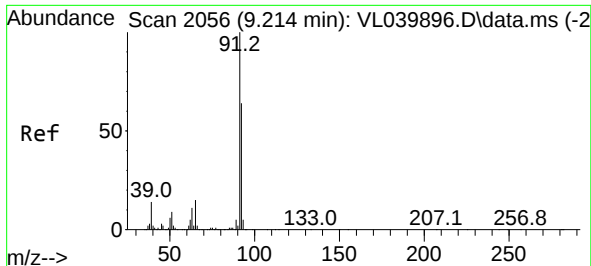
Tgt Ion: 43 Resp: 9821

Ion Ratio Lower Upper

43 100

58 80.8 29.8 44.6#





#53

Toluene

Concen: 0.036 ppbv

RT: 9.176 min Scan# 2056

Delta R.T. -0.029 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

Instrument :

MSVOA_L

ClientSampleId :

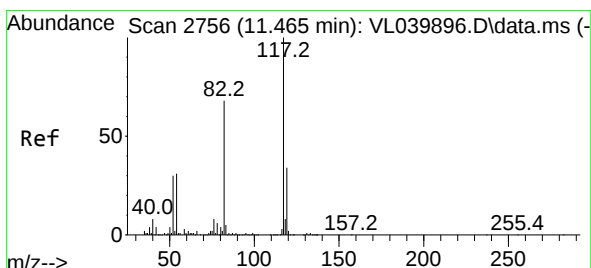
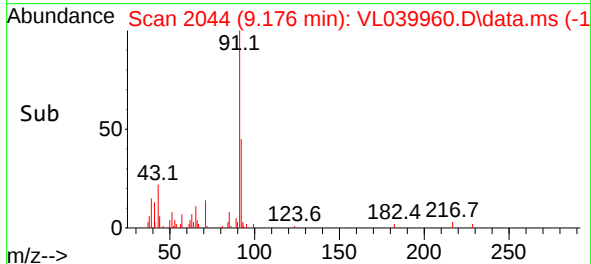
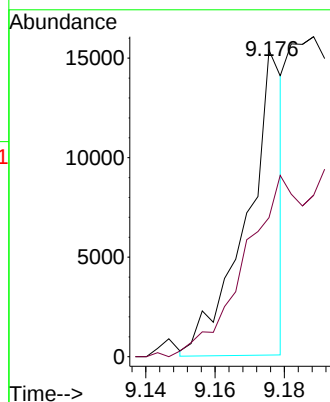
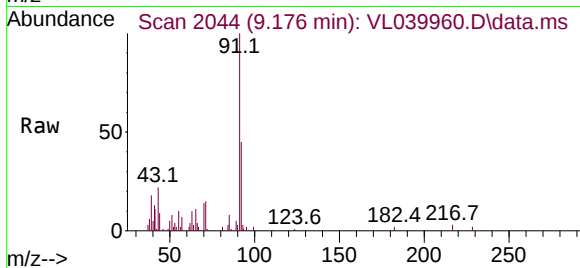
SG-1DL

Tgt Ion: 91 Resp: 11153

Ion Ratio Lower Upper

91 100

92 0.0 49.8 74.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.433 min Scan# 2746

Delta R.T. -0.019 min

Lab File: VL039960.D

Acq: 2 Dec 2022 2:44

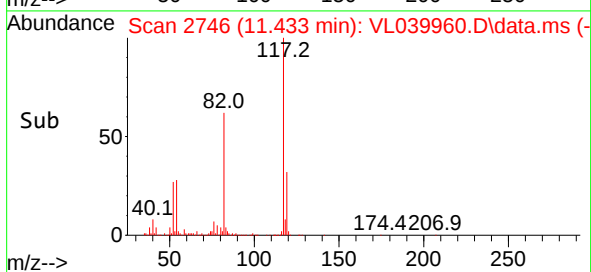
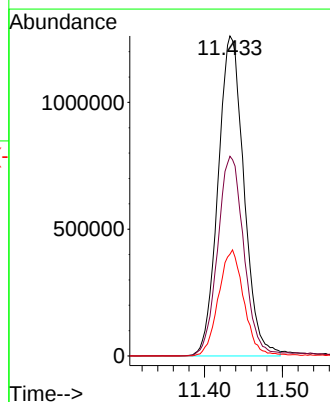
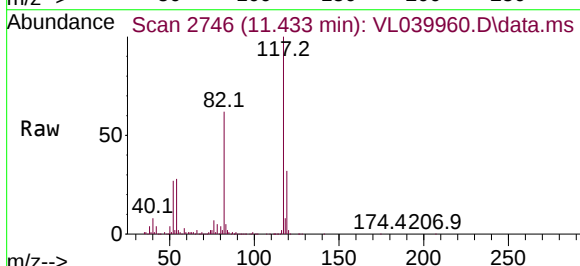
Tgt Ion: 117 Resp: 2909448

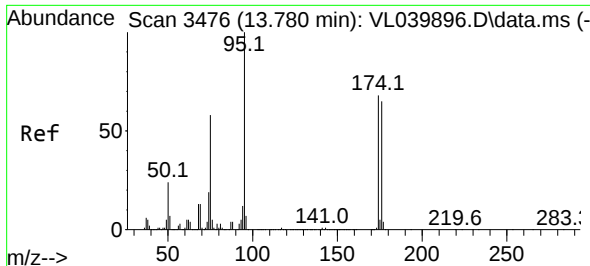
Ion Ratio Lower Upper

117 100

82 64.6 52.3 78.5

119 32.9 25.7 38.5

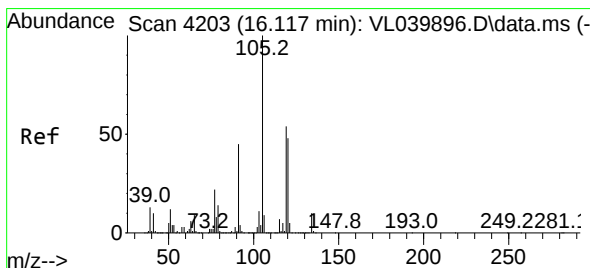
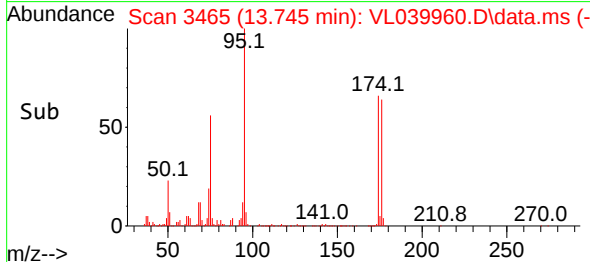
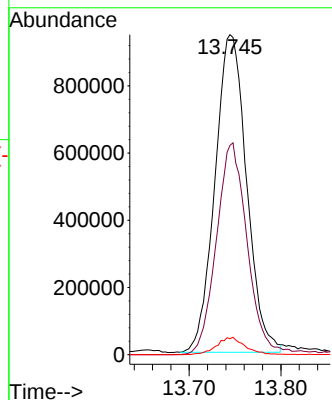
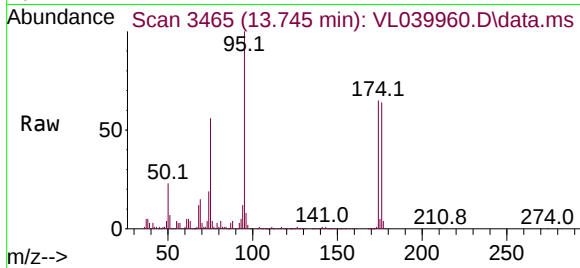




#68
1-Bromo-4-Fluorobenzene
Concen: 10.190 ppbv
RT: 13.745 min Scan# 3476
Delta R.T. -0.019 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Instrument :
MSVOA_L
ClientSampleId :
SG-1DL

Tgt Ion: 95 Resp: 2264567
Ion Ratio Lower Upper
95 100
174 66.9 53.7 80.5
175 5.0 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.045 ppbv
RT: 16.076 min Scan# 4190
Delta R.T. -0.023 min
Lab File: VL039960.D
Acq: 2 Dec 2022 2:44

Tgt Ion: 105 Resp: 15357
Ion Ratio Lower Upper
105 100
120 25.0 38.7 58.1#
91 23.6 36.4 54.6#
77 1.0 17.4 26.0#

