

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039976.D
 Acq On : 12 Dec 2022 15:08
 Operator : SY/MD
 Sample : N5969-02DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Dec 13 06:10:41 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 23:21:36 2022
 Response via : Initial Calibration

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

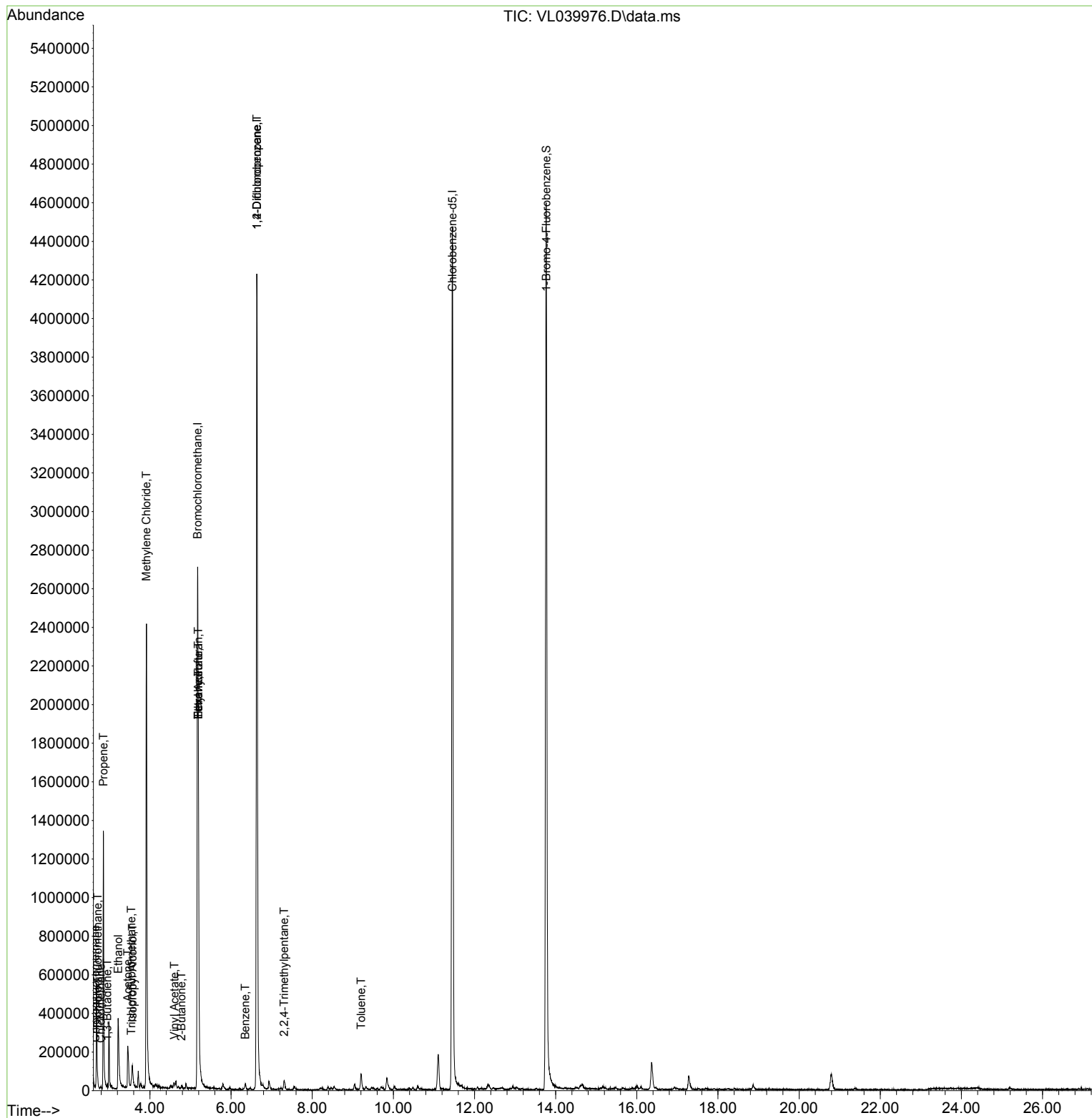
Internal Standards							
1) Bromochloromethane		5.172	49	1178413	10.000	ppbv	0.02
33) 1,4-Difluorobenzene		6.635	114	3226625	10.000	ppbv	0.02
55) Chlorobenzene-d5		11.452	117	2899671	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.767	95	2388585	10.785	ppbv	0.03
Spiked Amount 10.000		Range 65 - 135		Recovery	= 107.800%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.709	85	23624	0.140	ppbv	90
3) Chlorodifluoromethane		2.655	51	13387	0.082	ppbv	93
4) Chloromethane		2.793	50	10056	0.097	ppbv #	82
9) Propene		2.851	41	354397	4.627	ppbv	97
11) Trichlorofluoromethane		3.542	101	19302	0.094	ppbv	100
13) Ethanol		3.217	45	377439	64.541	ppbv	94
15) Acetone		3.452	43	213113	1.363	ppbv	91
16) 1,3-Butadiene		2.947	39	3949	0.051	ppbv #	60
19) Isopropyl Alcohol		3.571	45	68897	0.814	ppbv #	43
20) Methylene Chloride		3.912	84	832921	10.999	ppbv	96
23) Vinyl Acetate		4.603	43	14275	0.222	ppbv #	87
25) Ethyl Acetate		5.195	43	307655	1.072	ppbv #	78
26) Hexane		5.195	57	423503	3.378	ppbv #	40
34) 2-Butanone		4.777	43	7171	0.046	ppbv #	82
36) Benzene		6.349	78	7575	0.028	ppbv #	92
39) 1,2-Dichloropropane		6.635	63	804949	7.533	ppbv #	26
41) Tetrahydrofuran		5.195	42	155707	1.461	ppbv #	49
44) 2,2,4-Trimethylpentane		7.307	57	39718	0.087	ppbv #	83
53) Toluene		9.204	91	22677	0.073	ppbv #	25

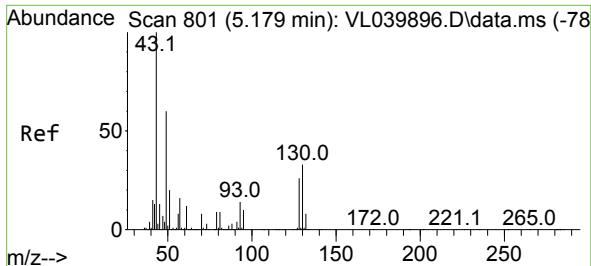
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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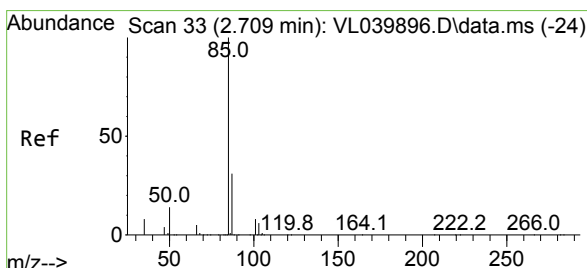
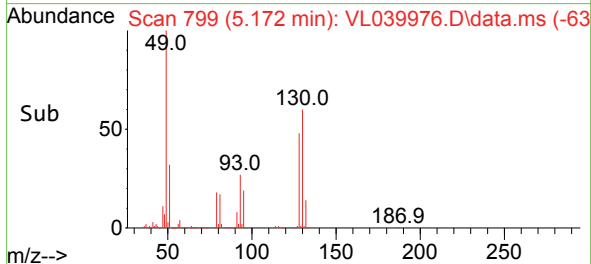
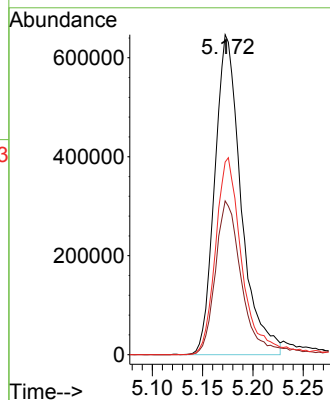
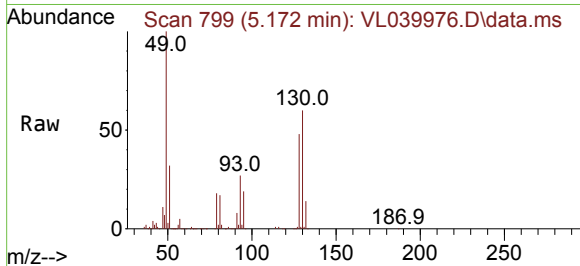




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 79
Delta R.T. 0.016 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

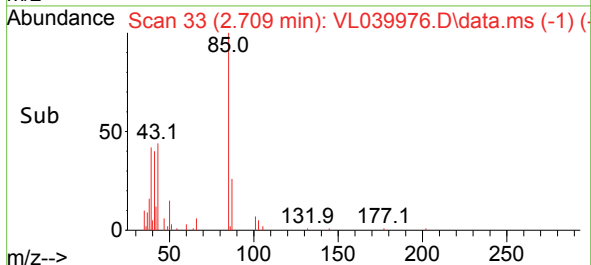
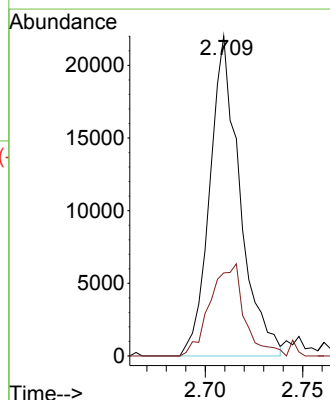
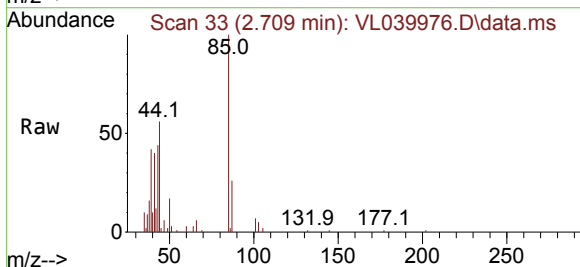
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

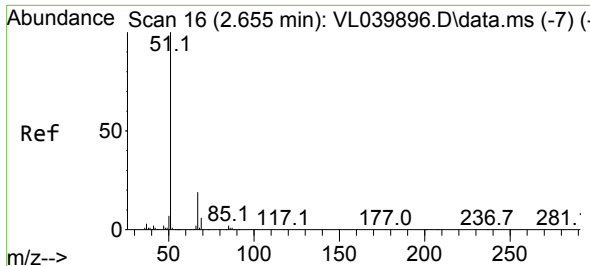
Tgt Ion: 49 Resp: 1178413
Ion Ratio Lower Upper
49 100
128 50.0 22.1 66.3
130 64.0 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.140 ppbv
RT: 2.709 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt Ion: 85 Resp: 23624
Ion Ratio Lower Upper
85 100
87 25.9 25.0 37.4

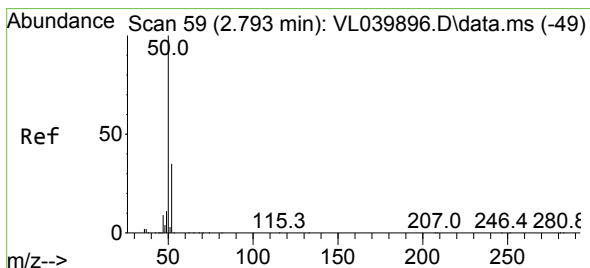
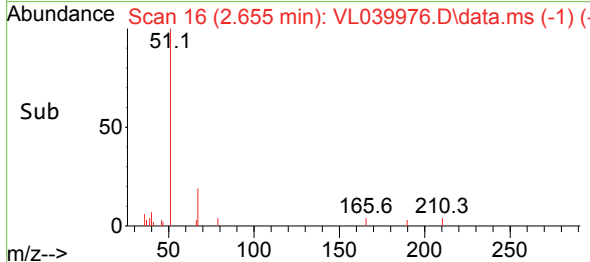
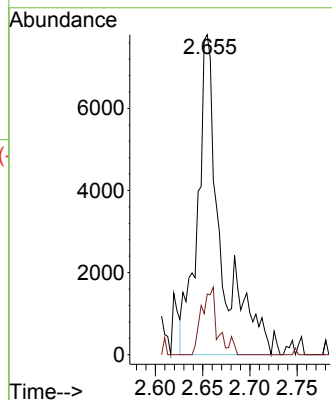
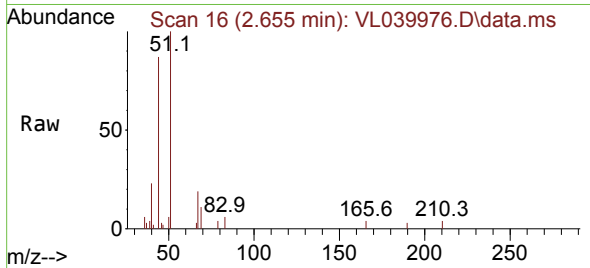




#3
Chlorodifluoromethane
Concen: 0.082 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.013 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

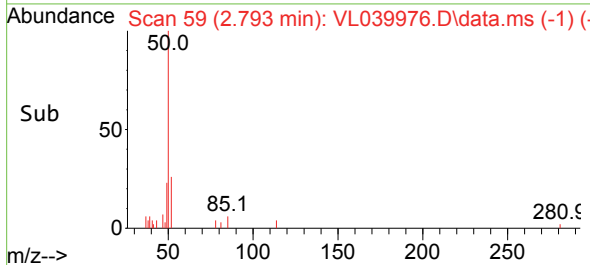
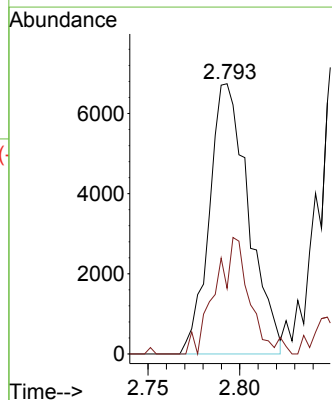
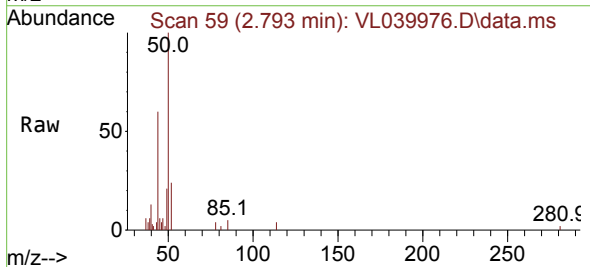
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

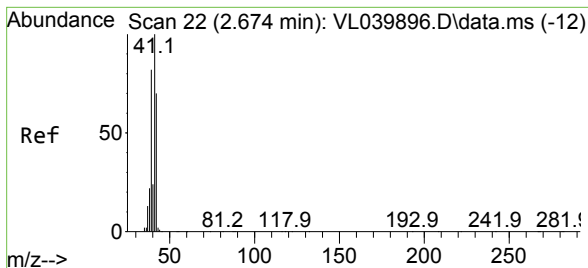
Tgt Ion: 51 Resp: 13387
Ion Ratio Lower Upper
51 100
67 14.5 14.2 21.4



#4
Chloromethane
Concen: 0.097 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt Ion: 50 Resp: 10056
Ion Ratio Lower Upper
50 100
52 24.3 27.8 41.8#





#9

Propene

Concen: 4.627 ppbv

RT: 2.851 min Scan# 71

Delta R.T. 0.190 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

Instrument :

MSVOA_L

ClientSampleId :

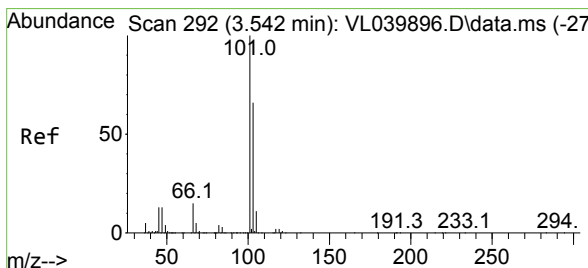
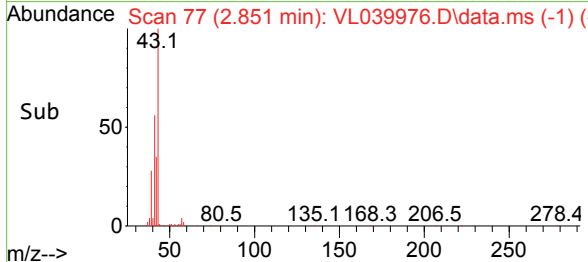
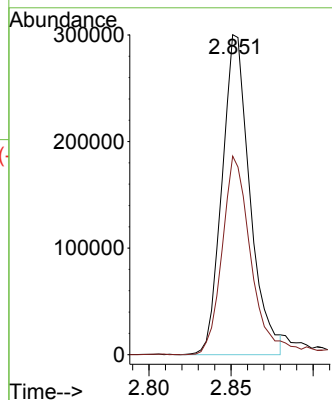
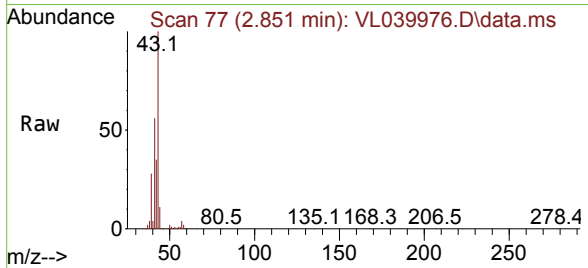
IA-2DL

Tgt Ion: 41 Resp: 354397

Ion Ratio Lower Upper

41 100

42 67.3 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.094 ppbv

RT: 3.542 min Scan# 292

Delta R.T. 0.013 min

Lab File: VL039976.D

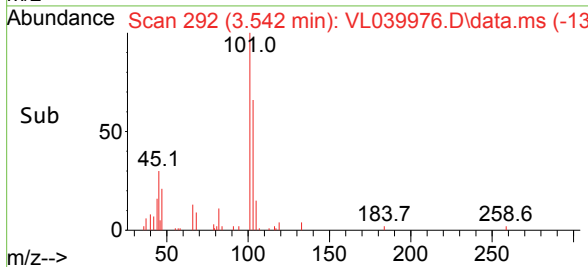
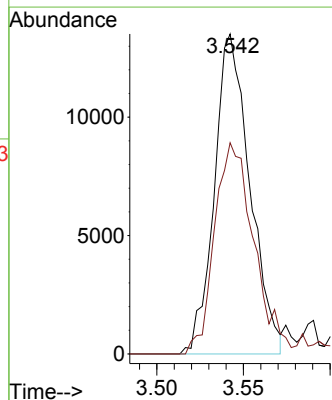
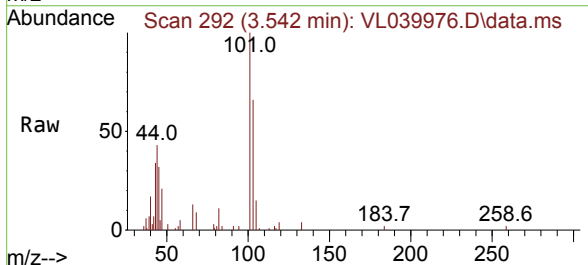
Acq: 12 Dec 2022 15:08

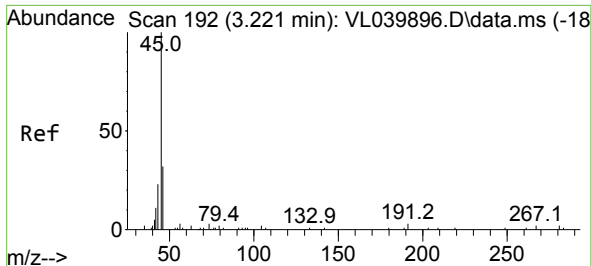
Tgt Ion: 101 Resp: 19302

Ion Ratio Lower Upper

101 100

103 66.0 52.6 78.8

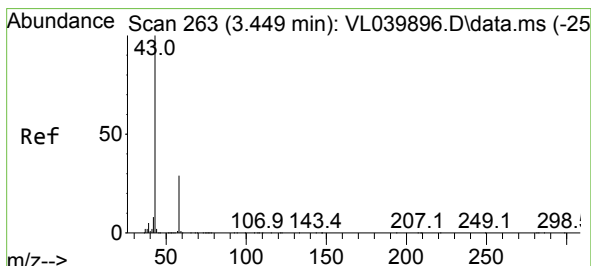
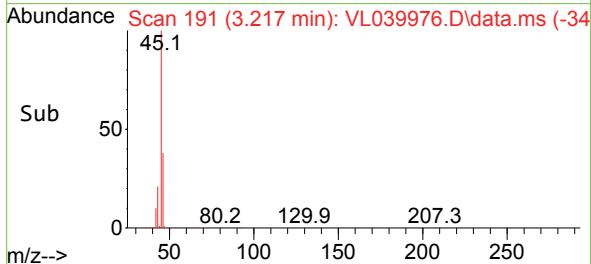
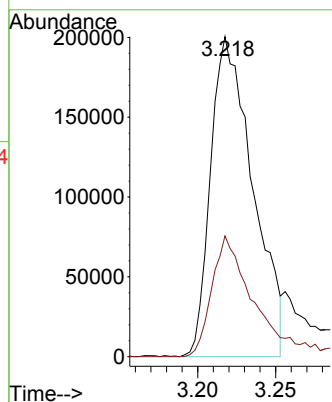
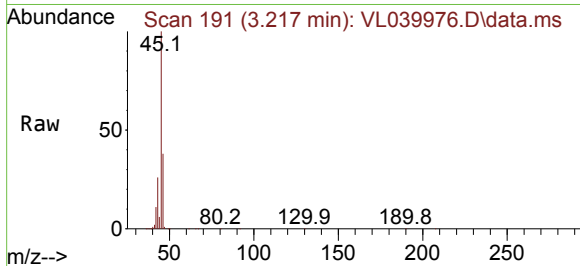




#13
 Ethanol
 Concen: 64.541 ppbv
 RT: 3.217 min Scan# 19
 Delta R.T. 0.003 min
 Lab File: VL039976.D
 Acq: 12 Dec 2022 15:08

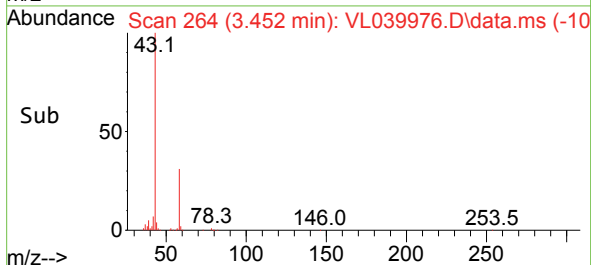
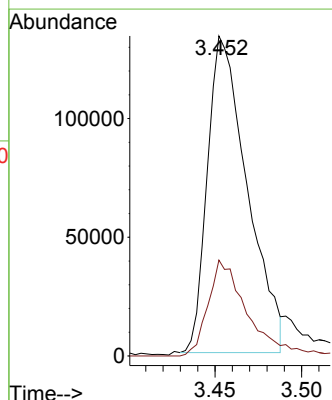
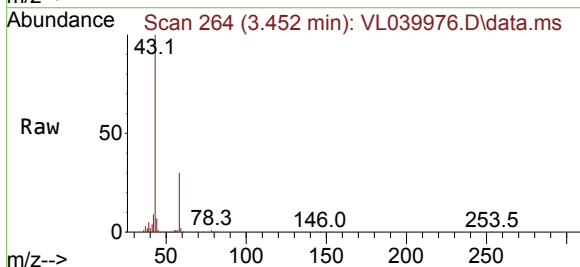
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

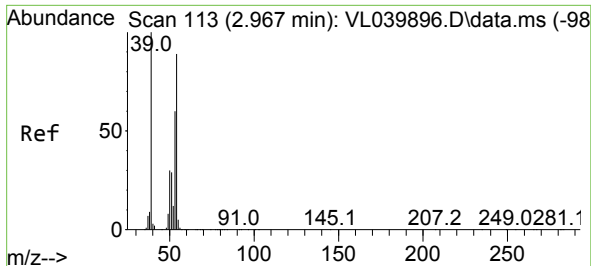
Tgt Ion: 45 Resp: 377439
 Ion Ratio Lower Upper
 45 100
 46 40.2 14.6 58.2



#15
 Acetone
 Concen: 1.363 ppbv
 RT: 3.452 min Scan# 264
 Delta R.T. 0.019 min
 Lab File: VL039976.D
 Acq: 12 Dec 2022 15:08

Tgt Ion: 43 Resp: 213113
 Ion Ratio Lower Upper
 43 100
 58 33.5 22.9 34.3

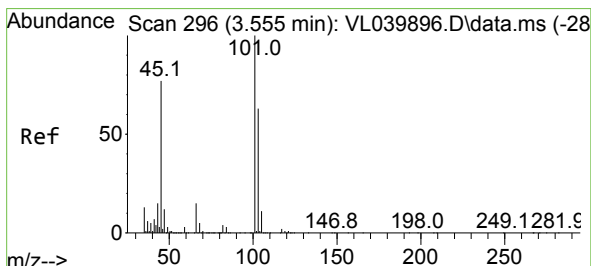
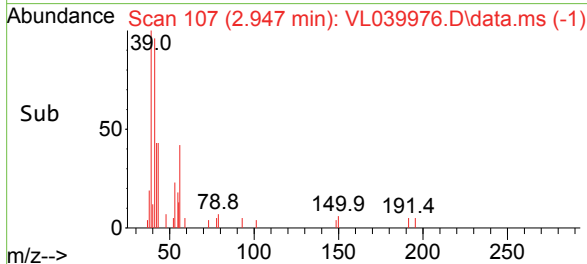
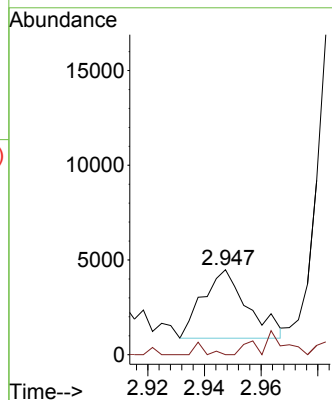
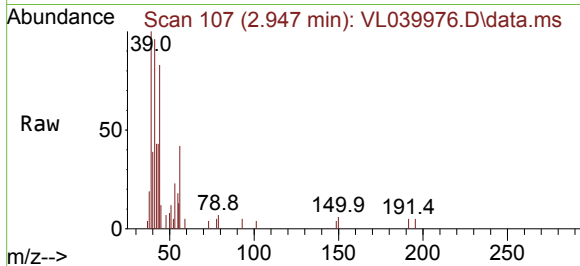




#16
1,3-Butadiene
Concen: 0.051 ppbv
RT: 2.947 min Scan# 107
Delta R.T. -0.003 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

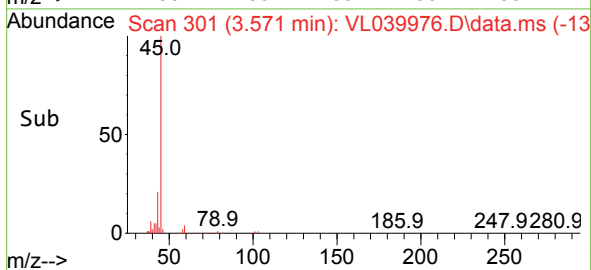
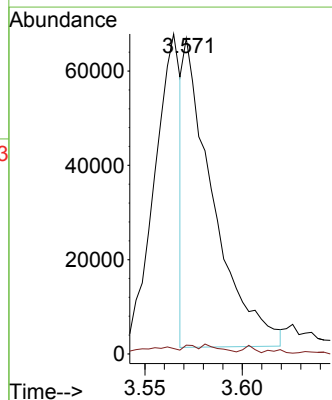
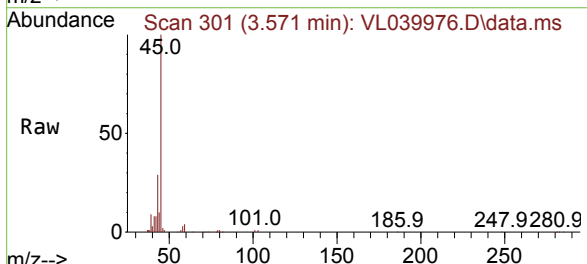
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

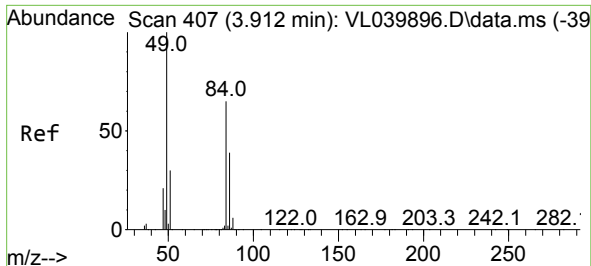
Tgt Ion: 39 Resp: 3949
Ion Ratio Lower Upper
39 100
54 46.8 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 0.814 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.029 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt Ion: 45 Resp: 68897
Ion Ratio Lower Upper
45 100
58 9.5 38.7 58.1#





#20

Methylene Chloride

Concen: 10.999 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.016 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tgt Ion: 84 Resp: 832921

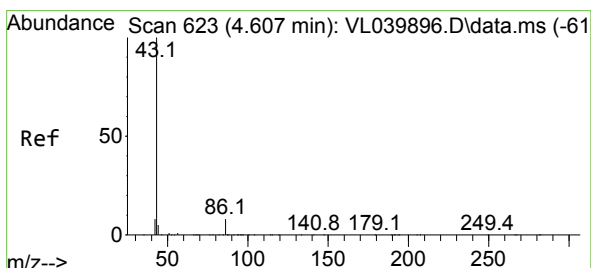
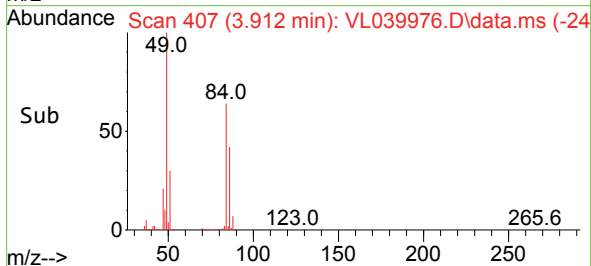
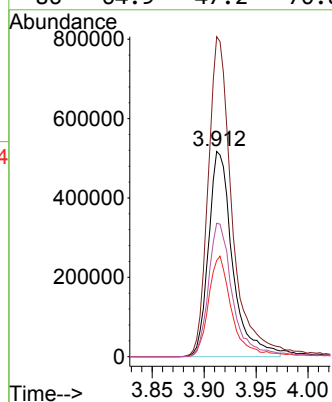
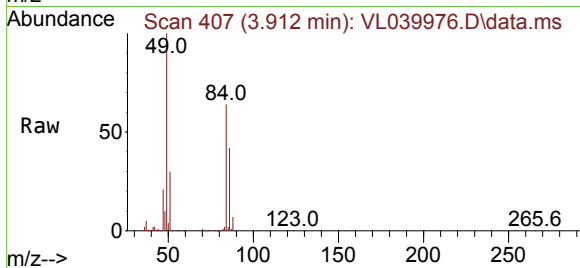
Ion Ratio Lower Upper

84 100

49 155.9 122.2 183.4

51 46.9 36.3 54.5

86 64.9 47.2 70.8



#23

Vinyl Acetate

Concen: 0.222 ppbv

RT: 4.603 min Scan# 622

Delta R.T. 0.010 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

Tgt Ion: 43 Resp: 14275

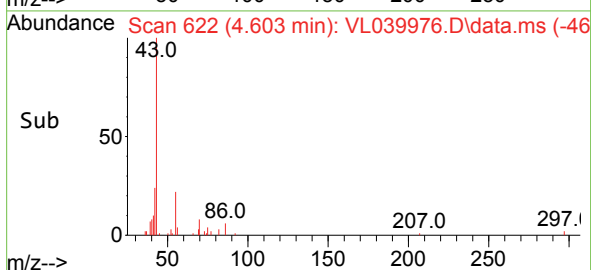
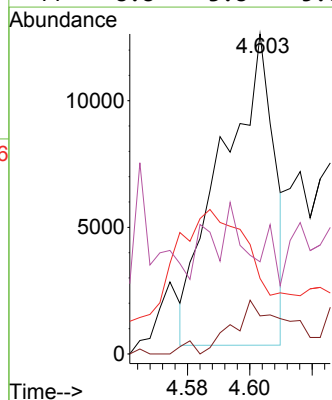
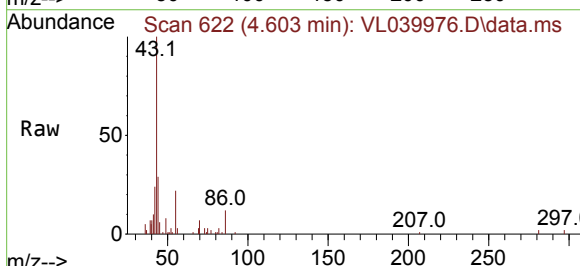
Ion Ratio Lower Upper

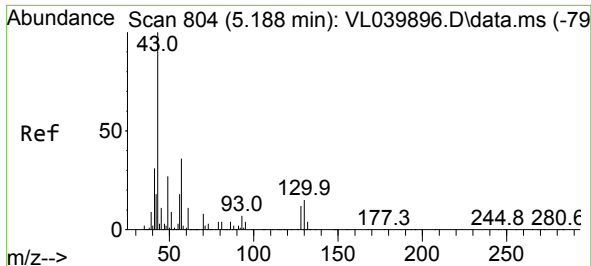
43 100

86 11.4 5.0 7.4#

42 5.4 7.6 11.4#

44 8.8 3.8 5.6#

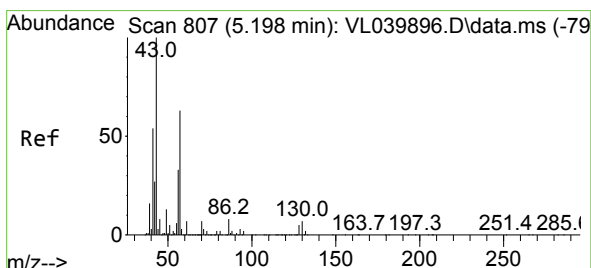
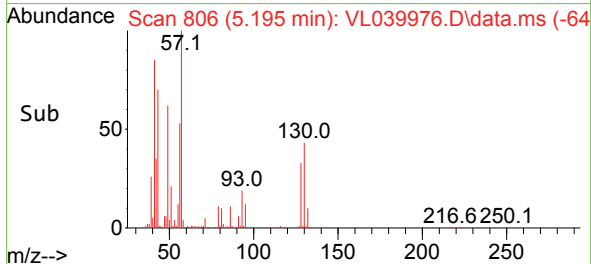
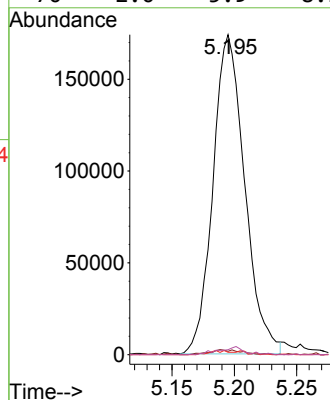
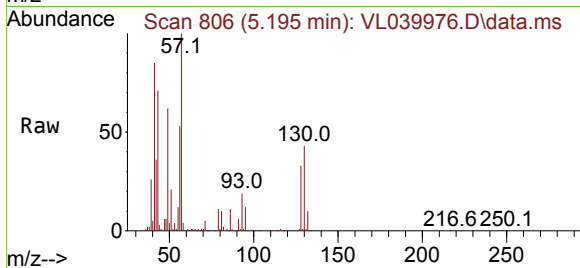




#25
Ethyl Acetate
Concen: 1.072 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.026 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

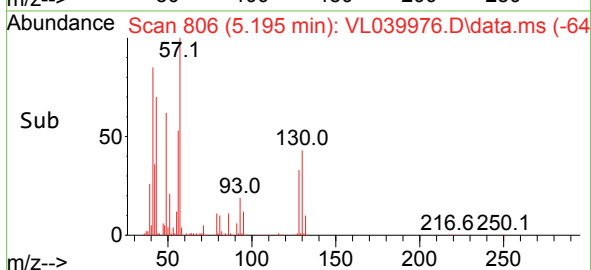
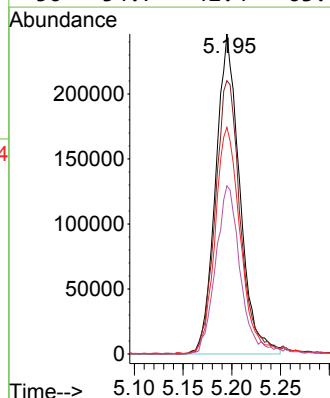
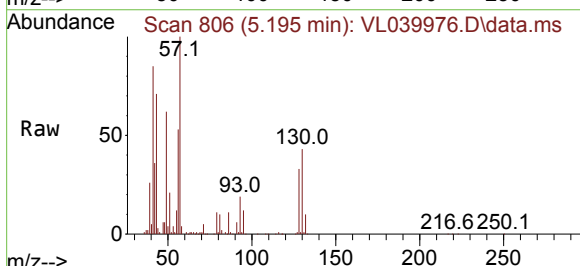
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

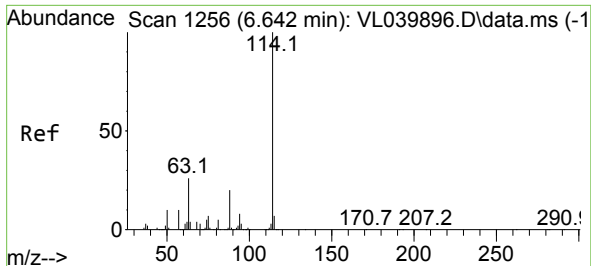
Tgt Ion: 43	Resp: 307655
Ion Ratio	Lower Upper
43 100	
45 1.6	8.4 12.6#
61 1.3	8.5 12.7#
70 2.0	5.9 8.9#



#26
Hexane
Concen: 3.378 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.019 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt	Ion: 57	Resp:	423503
Ion	Ratio	Lower	Upper
57	100		
41	90.3	72.3	108.5
43	75.4	188.7	283.1#
56	54.7	42.4	63.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 1

Delta R.T. 0.016 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

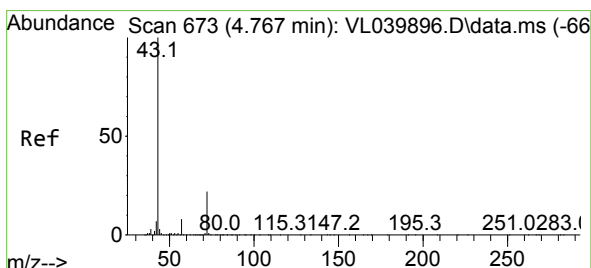
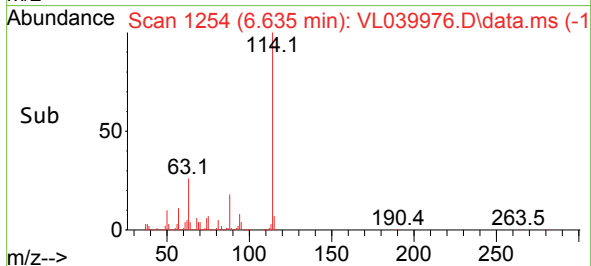
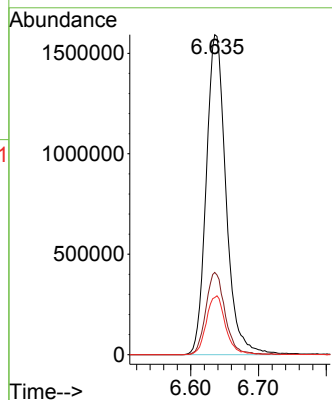
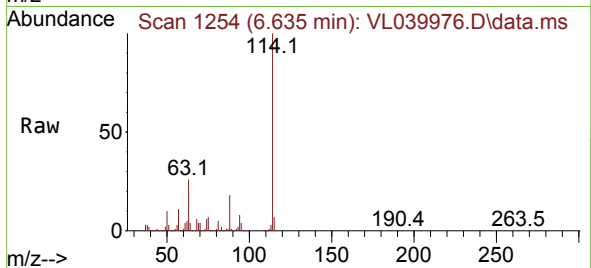
Tgt Ion:114 Resp: 3226625

Ion Ratio Lower Upper

114 100

63 25.3 21.4 32.0

88 18.0 15.3 22.9



#34

2-Butanone

Concen: 0.046 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.026 min

Lab File: VL039976.D

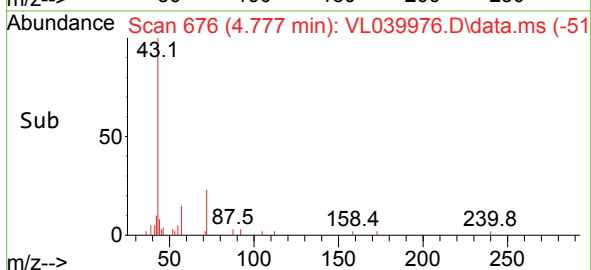
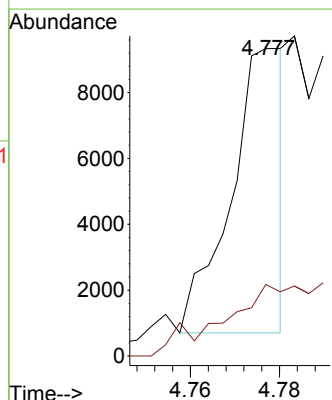
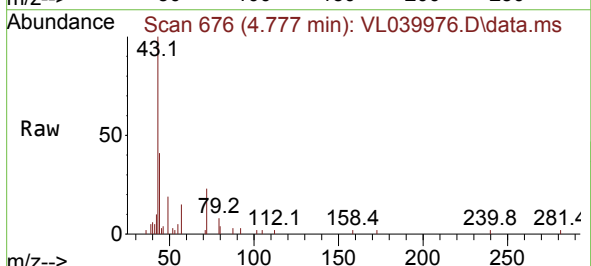
Acq: 12 Dec 2022 15:08

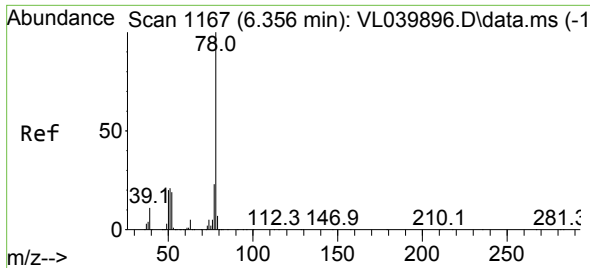
Tgt Ion: 43 Resp: 7171

Ion Ratio Lower Upper

43 100

72 30.6 17.4 26.2#

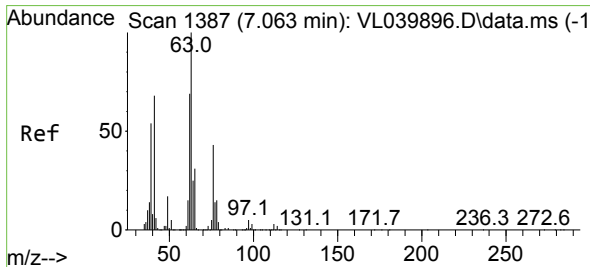
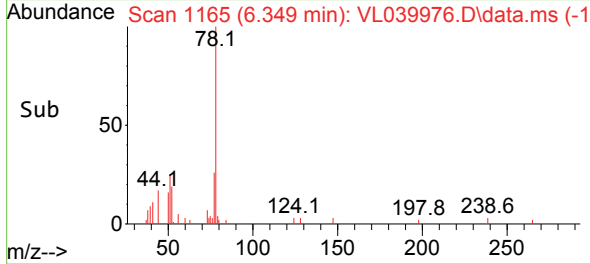
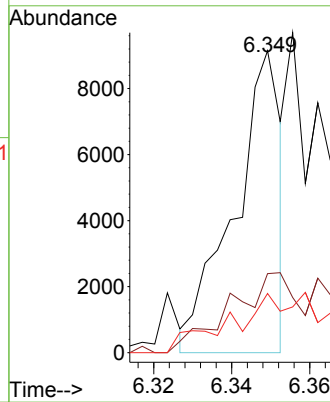
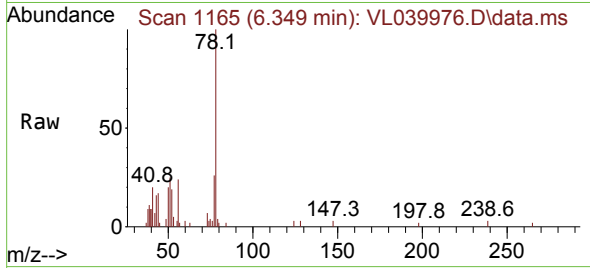




#36
Benzene
Concen: 0.028 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

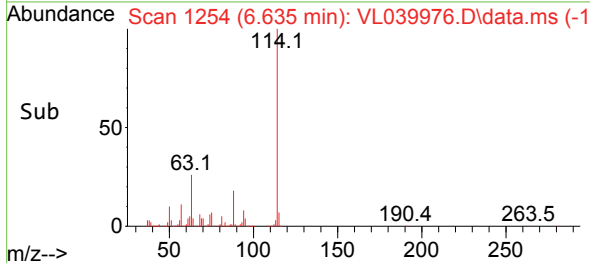
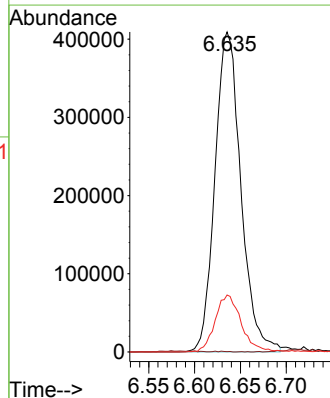
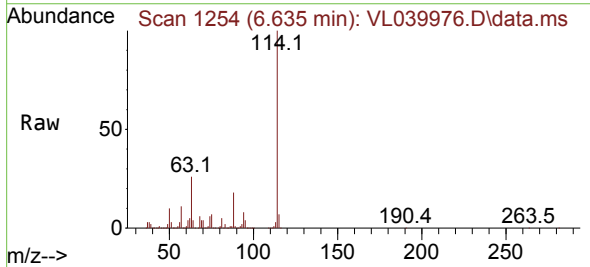
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

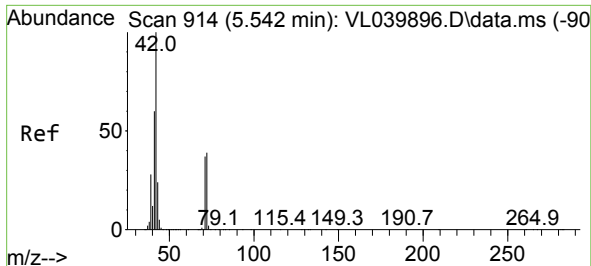
Tgt Ion: 78 Resp: 7575
Ion Ratio Lower Upper
78 100
77 24.3 18.2 27.2
50 14.0 15.8 23.8#



#39
1,2-Dichloropropane
Concen: 7.533 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. -0.399 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt Ion: 63 Resp: 804949
Ion Ratio Lower Upper
63 100
41 0.0 54.7 82.1#
62 17.8 55.0 82.6#





#41

Tetrahydrofuran

Concen: 1.461 ppbv

RT: 5.195 min Scan# 80

Delta R.T. -0.325 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

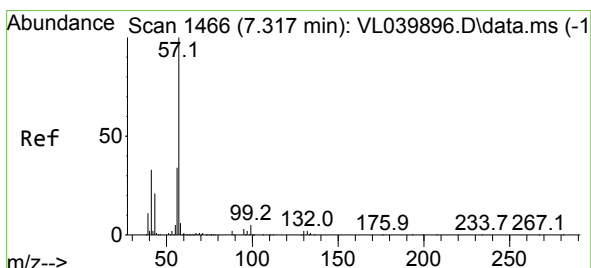
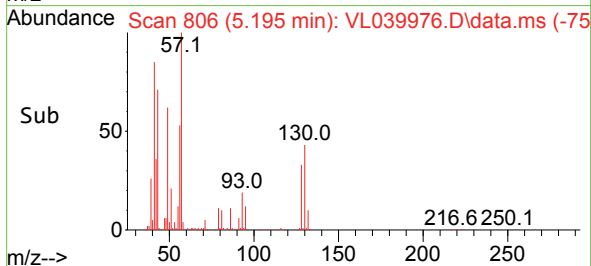
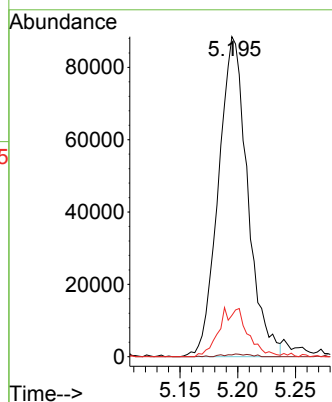
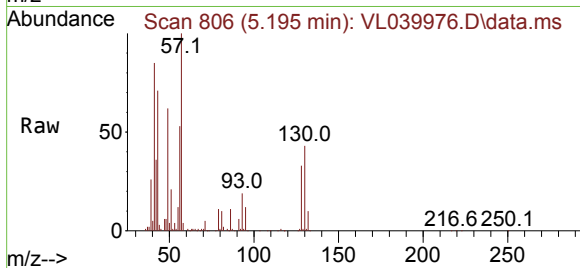
Tgt Ion: 42 Resp: 155707

Ion Ratio Lower Upper

42 100

72 0.8 31.6 47.4#

71 15.3 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.087 ppbv

RT: 7.307 min Scan# 1463

Delta R.T. 0.016 min

Lab File: VL039976.D

Acq: 12 Dec 2022 15:08

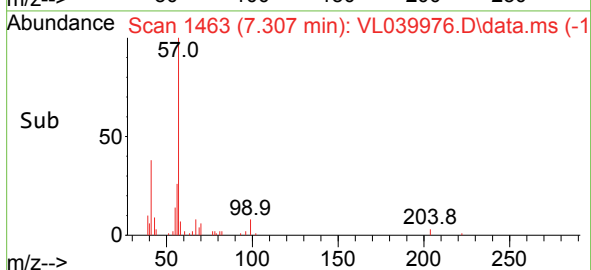
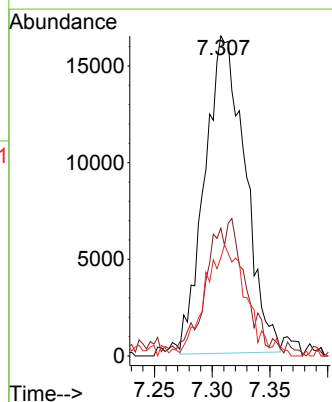
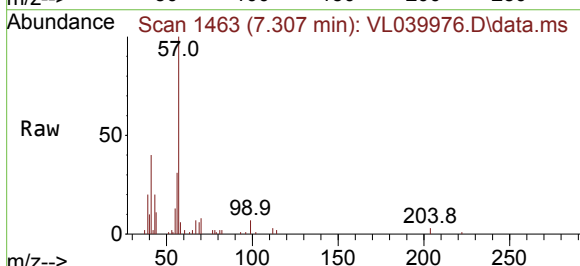
Tgt Ion: 57 Resp: 39718

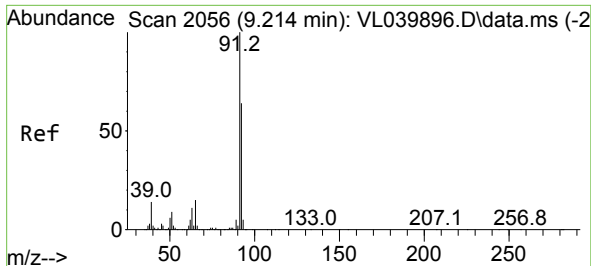
Ion Ratio Lower Upper

57 100

41 47.1 26.2 39.2#

56 37.0 25.5 38.3

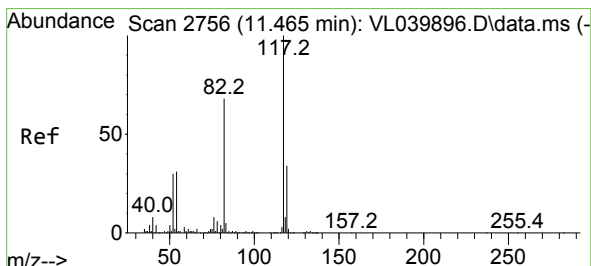
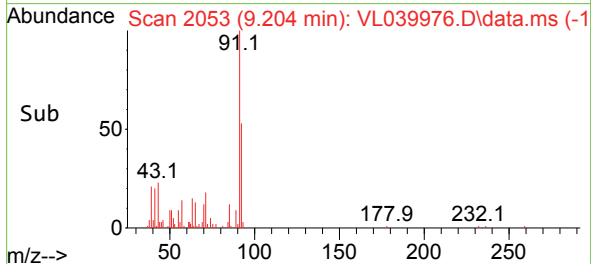
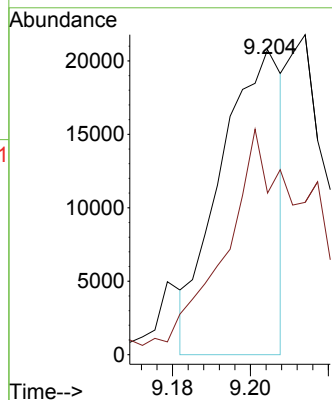
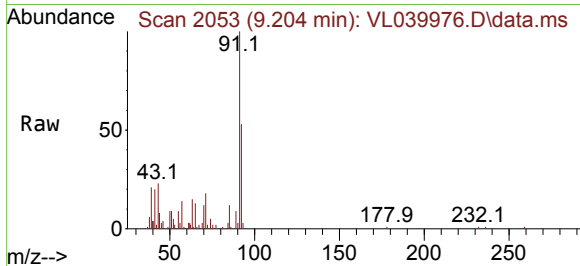




#53
Toluene
Concen: 0.073 ppbv
RT: 9.204 min Scan# 2056
Delta R.T. 0.019 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

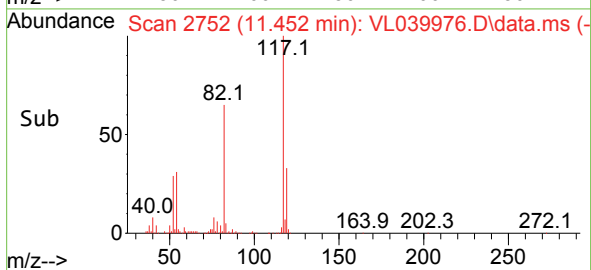
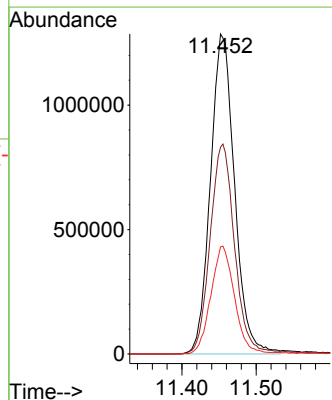
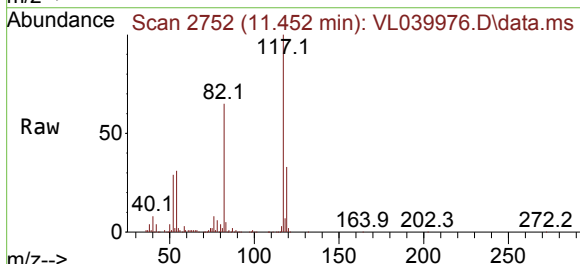
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

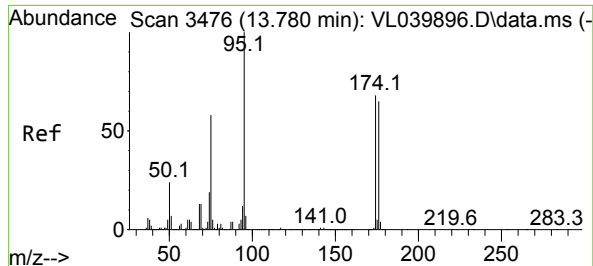
Tgt Ion: 91 Resp: 22677
Ion Ratio Lower Upper
91 100
92 119.6 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.019 min
Lab File: VL039976.D
Acq: 12 Dec 2022 15:08

Tgt Ion: 117 Resp: 2899671
Ion Ratio Lower Upper
117 100
82 67.1 52.3 78.5
119 33.6 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.785 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. 0.026 min
 Lab File: VL039976.D
 Acq: 12 Dec 2022 15:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Tgt Ion: 95 Resp: 2388585
 Ion Ratio Lower Upper
 95 100
 174 60.6 53.7 80.5
 175 4.2 4.0 6.0

