

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039932.D
 Acq On : 23 Nov 2022 1:22
 Operator : SY/AP
 Sample : N5767-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Nov 23 04:54:10 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 : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

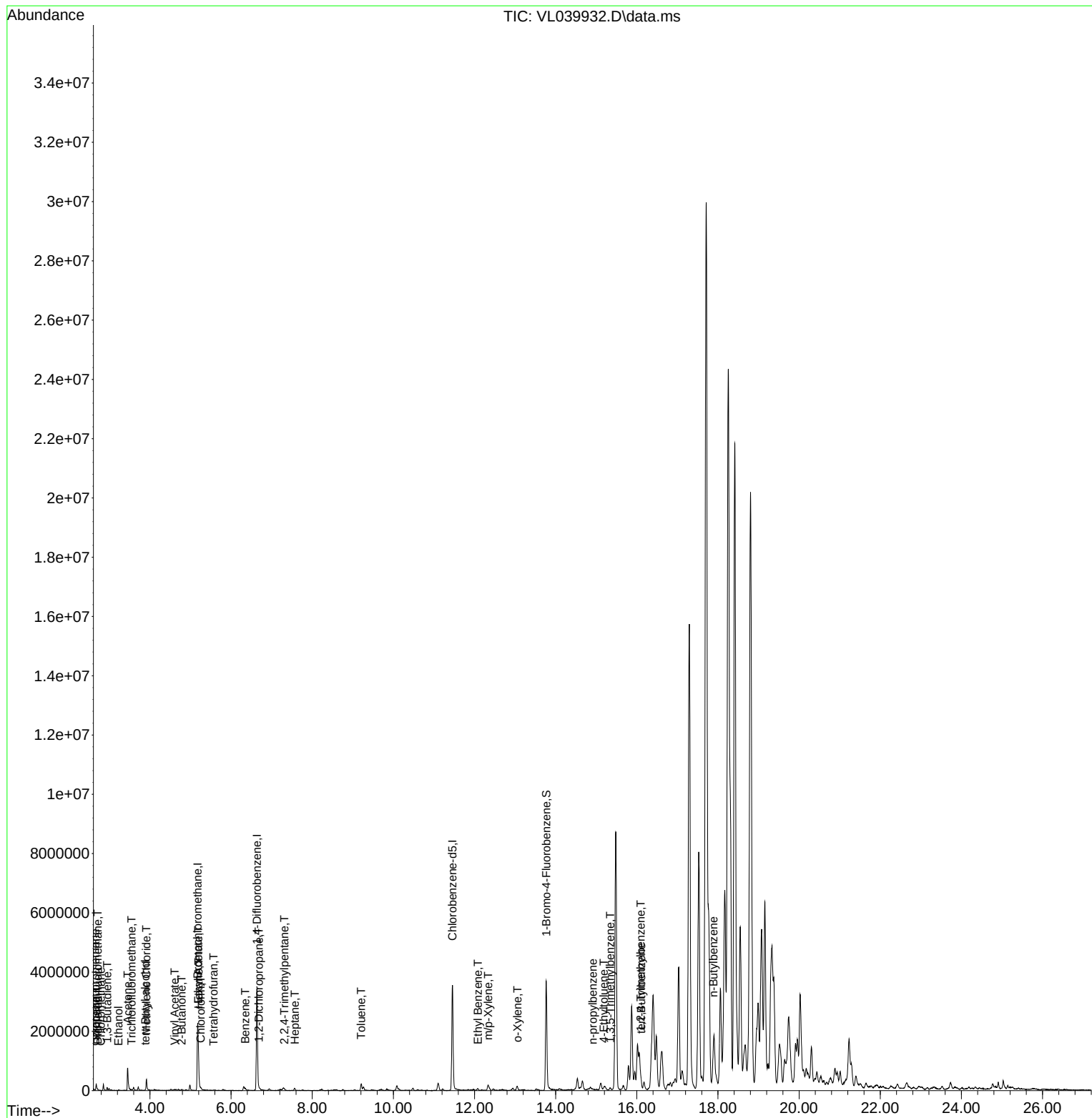
Internal Standards						
1) Bromochloromethane	5.176	49	956931	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	2711548	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.455	117	2408718	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1910427	10.384	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	26289	0.192	ppbv	96
3) Chlorodifluoromethane	2.655	51	9024	0.068	ppbv	96
4) Chloromethane	2.793	50	2570	0.030	ppbv #	43
9) Propene	2.674	41	82780	1.331	ppbv	95
10) Heptane	7.571	43	11655	0.078	ppbv #	1
11) Trichlorofluoromethane	3.546	101	8858	0.053	ppbv #	79
13) Ethanol	3.227	45	4487	0.945	ppbv #	38
15) Acetone	3.452	43	827261	6.518	ppbv	99
16) 1,3-Butadiene	2.947	39	27790	0.439	ppbv #	19
17) tert-Butyl alcohol	3.886	59	11152	0.076	ppbv #	85
20) Methylene Chloride	3.915	84	115056	1.871	ppbv	95
23) Vinyl Acetate	4.610	43	30639	0.588	ppbv #	87
25) Ethyl Acetate	5.195	43	241152	1.035	ppbv #	76
26) Hexane	5.198	57	355005	3.487	ppbv #	35
29) Chloroform	5.253	83	11282	0.083	ppbv	90
34) 2-Butanone	4.780	43	30059	0.232	ppbv #	70
36) Benzene	6.349	78	26624	0.116	ppbv	93
39) 1,2-Dichloropropane	6.684	63	6971	0.078	ppbv #	24
41) Tetrahydrofuran	5.568	42	3521	0.039	ppbv #	1
44) 2,2,4-Trimethylpentane	7.314	57	19038	0.049	ppbv #	42
53) Toluene	9.208	91	173556	0.661	ppbv	97
58) Ethyl Benzene	12.082	91	17022	0.052	ppbv	98
59) m/p-Xylene	12.336	91	181643	0.664	ppbv	94
60) o-Xylene	13.056	91	37699	0.145	ppbv #	30
64) n-propylbenzene	14.915	120	3637	0.037	ppbv #	1
65) tert-Butylbenzene	16.105	119	11676	0.035	ppbv #	1
70) n-Butylbenzene	17.889	91	16472	0.045	ppbv #	1
72) 4-Ethyltoluene	15.185	105	48229	0.165	ppbv #	92
73) 1,3,5-Trimethylbenzene	15.346	105	22911	0.085	ppbv	90
74) 1,2,4-Trimethylbenzene	16.098	105	261441	0.920	ppbv #	69

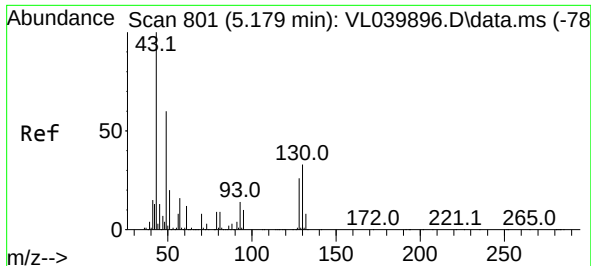
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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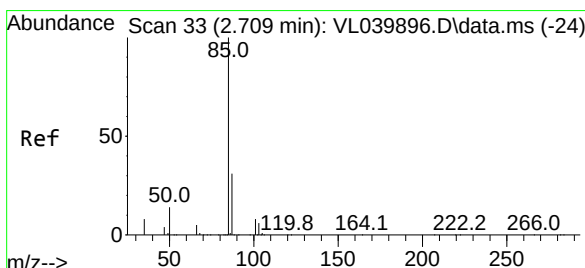
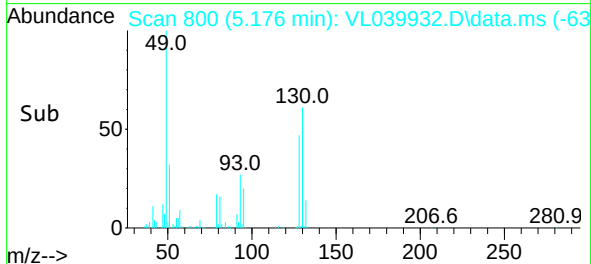
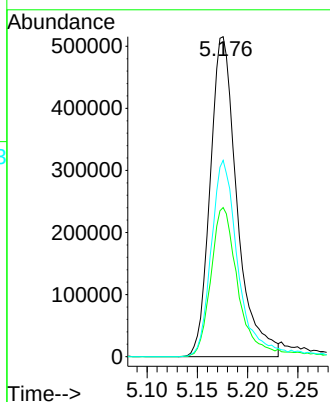
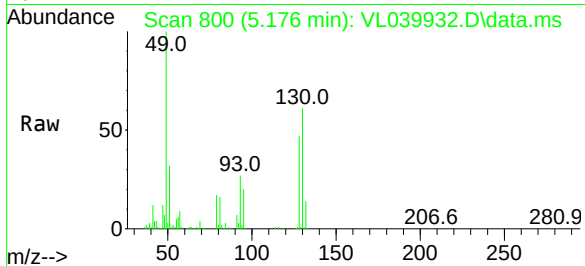




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

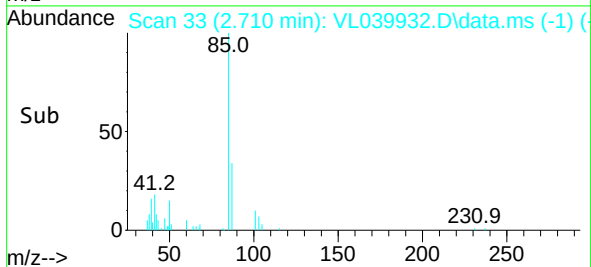
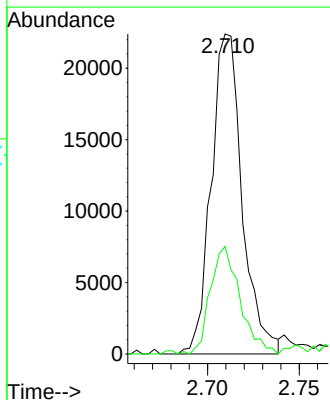
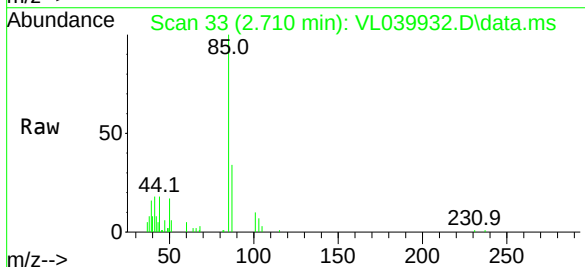
Instrument :
MSVOA_L
ClientSampleId :
SV2

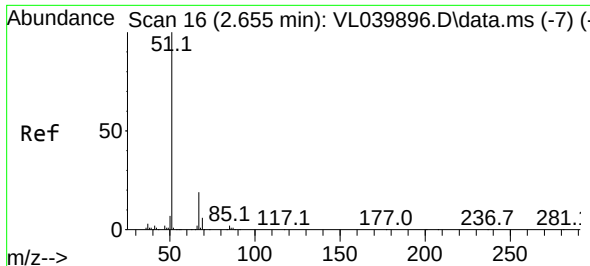
Tgt Ion: 49 Resp: 956931
Ion Ratio Lower Upper
49 100
128 49.2 22.1 66.3
130 63.4 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.192 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 85 Resp: 26289
Ion Ratio Lower Upper
85 100
87 33.6 25.0 37.4

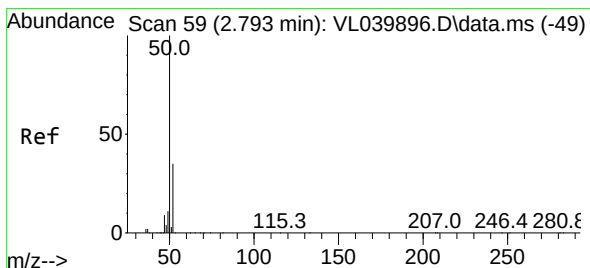
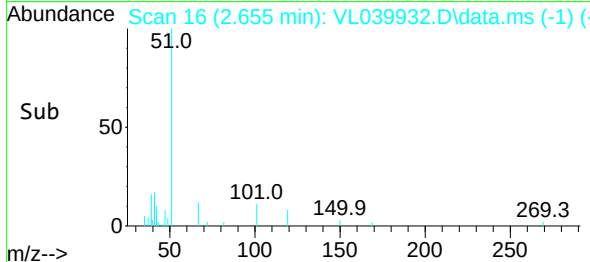
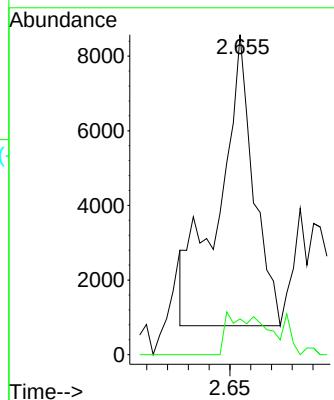
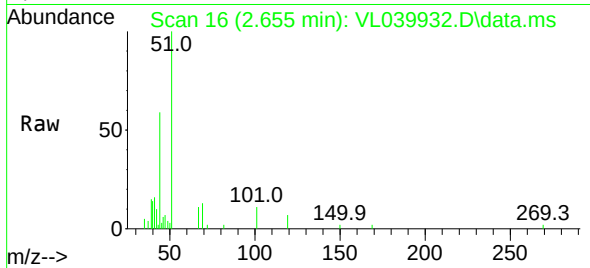




#3
Chlorodifluoromethane
Concen: 0.068 ppbv
RT: 2.655 min Scan# 16
Delta R.T. 0.013 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

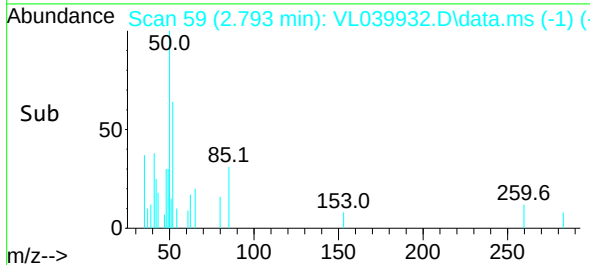
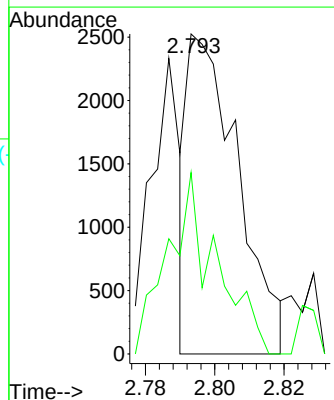
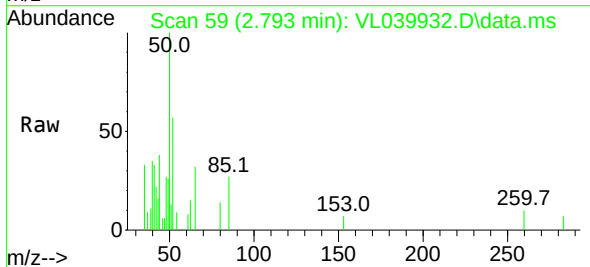
Instrument :
MSVOA_L
ClientSampleId :
SV2

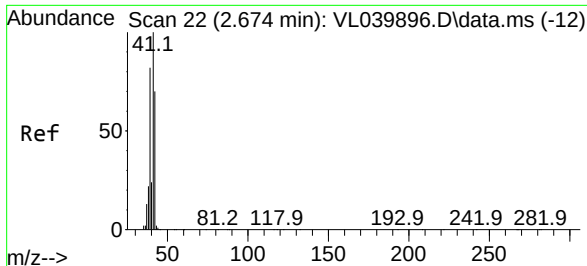
Tgt Ion: 51 Resp: 9024
Ion Ratio Lower Upper
51 100
67 19.5 14.2 21.4



#4
Chloromethane
Concen: 0.030 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.013 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 50 Resp: 2570
Ion Ratio Lower Upper
50 100
52 67.9 27.8 41.8#





#9

Propene

Concen: 1.331 ppbv

RT: 2.674 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Instrument :

MSVOA_L

ClientSampleId :

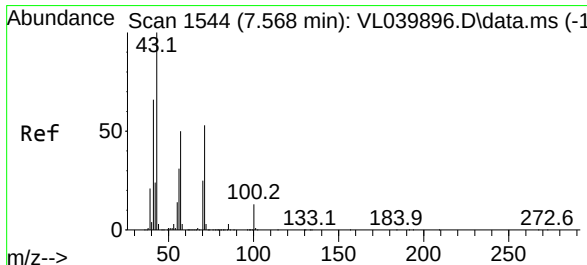
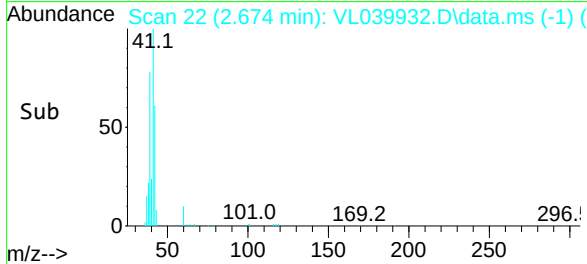
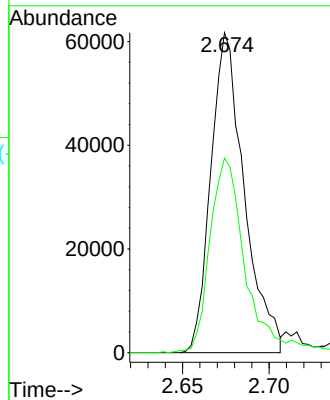
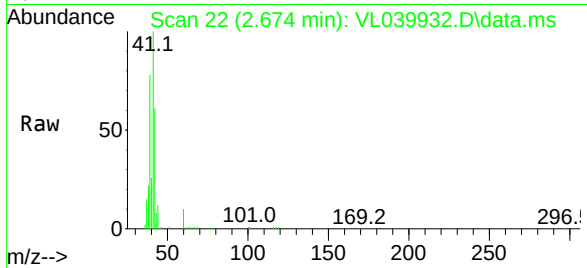
SV2

Tgt Ion: 41 Resp: 82780

Ion Ratio Lower Upper

41 100

42 65.6 55.8 83.6



#10

Heptane

Concen: 0.078 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. 0.026 min

Lab File: VL039932.D

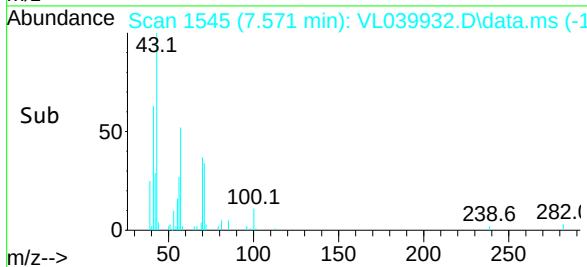
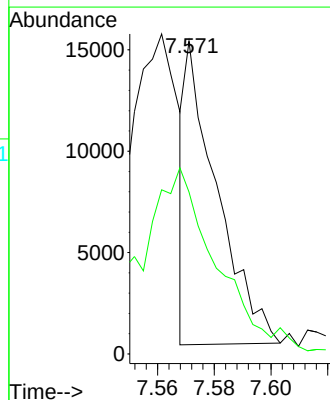
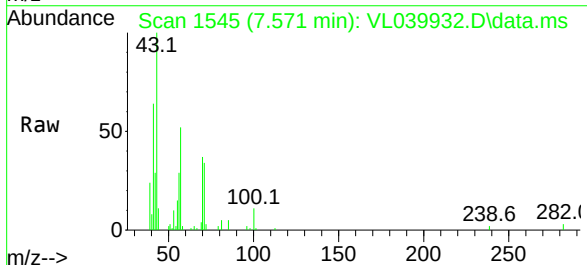
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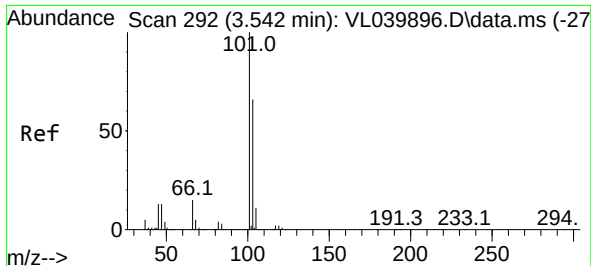
Tgt Ion: 43 Resp: 11655

Ion Ratio Lower Upper

43 100

57 156.1 40.7 61.1#

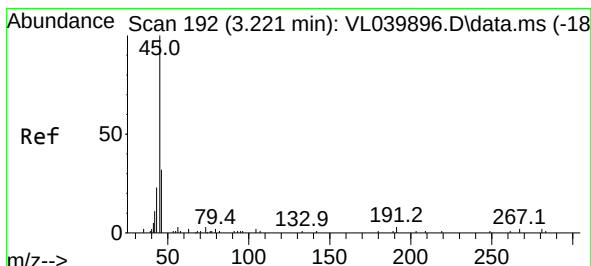
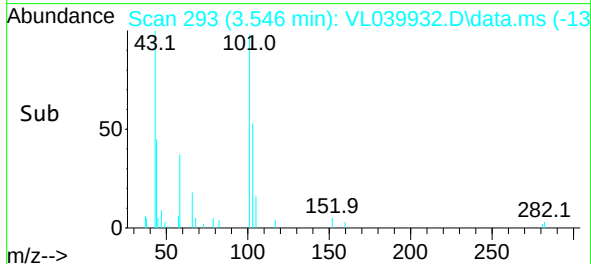
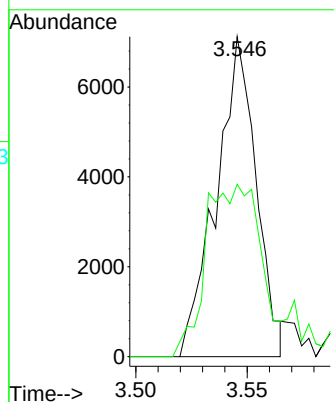
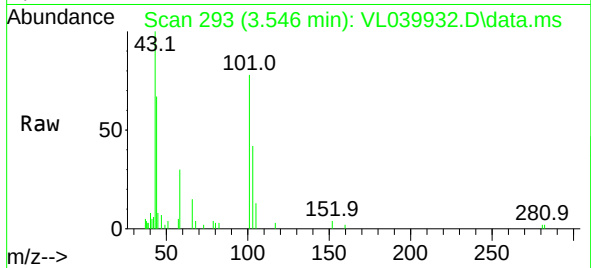




#11
 Trichlorofluoromethane
 Concen: 0.053 ppbv
 RT: 3.546 min Scan# 292
 Delta R.T. 0.016 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

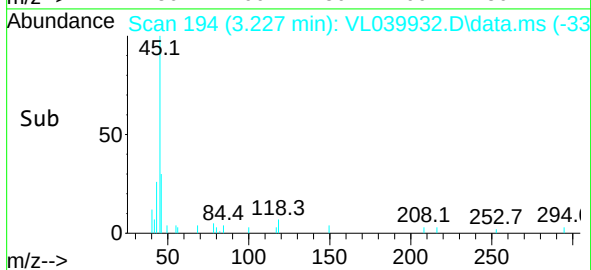
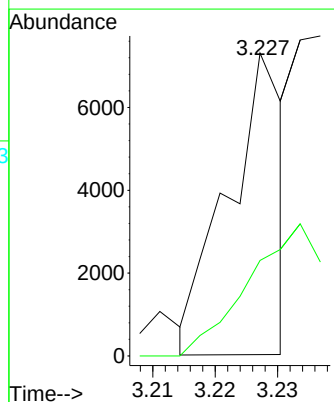
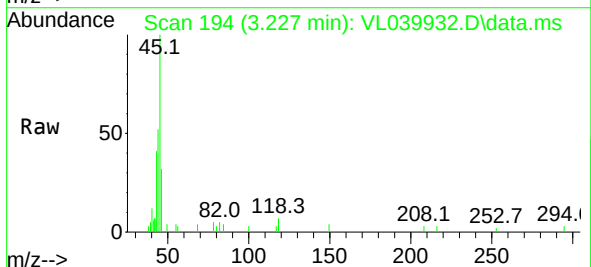
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

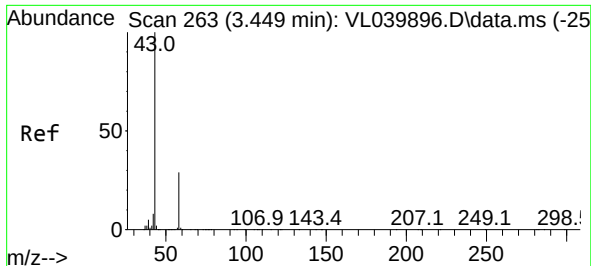
Tgt Ion: 101 Resp: 8858
 Ion Ratio Lower Upper
 101 100
 103 49.1 52.6 78.8#



#13
 Ethanol
 Concen: 0.945 ppbv
 RT: 3.227 min Scan# 194
 Delta R.T. 0.019 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

Tgt Ion: 45 Resp: 4487
 Ion Ratio Lower Upper
 45 100
 46 0.0 14.6 58.2#

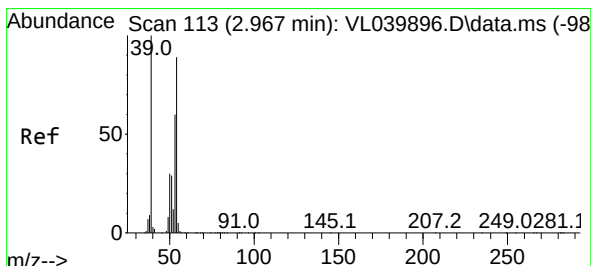
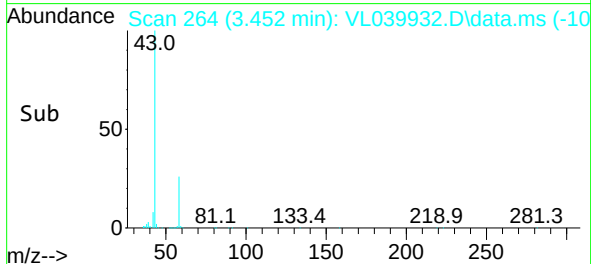
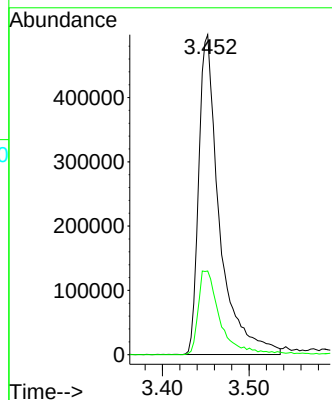
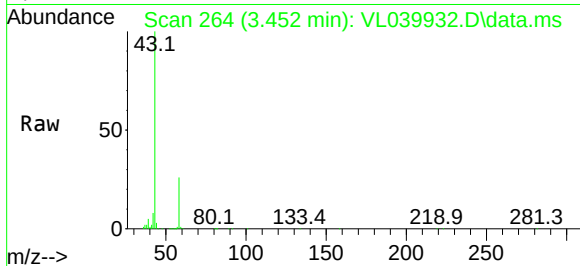




#15
Acetone
Concen: 6.518 ppbv
RT: 3.452 min Scan# 20
Delta R.T. 0.019 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

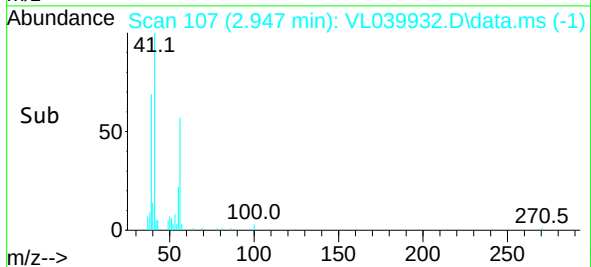
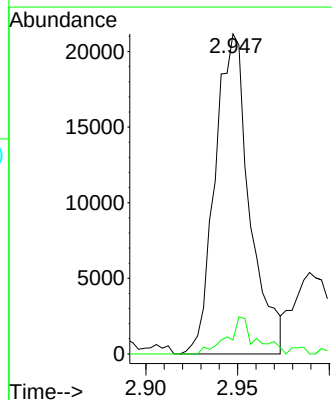
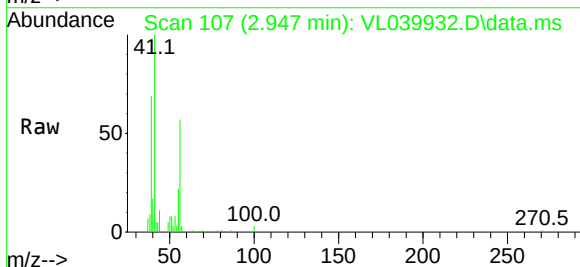
Instrument :
MSVOA_L
ClientSampleId :
SV2

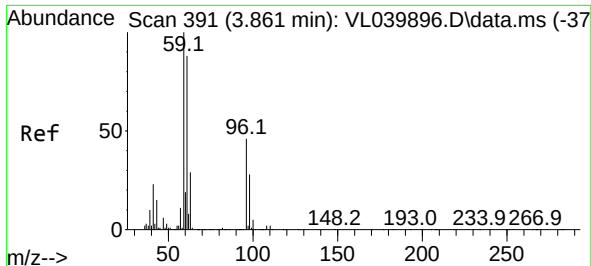
Tgt Ion: 43 Resp: 827261
Ion Ratio Lower Upper
43 100
58 28.3 22.9 34.3



#16
1,3-Butadiene
Concen: 0.439 ppbv
RT: 2.947 min Scan# 107
Delta R.T. -0.006 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 39 Resp: 27790
Ion Ratio Lower Upper
39 100
54 10.5 66.6 99.8#





#17

tert-Butyl alcohol

Concen: 0.076 ppbv

RT: 3.886 min Scan# 391

Delta R.T. 0.042 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Instrument :

MSVOA_L

ClientSampleId :

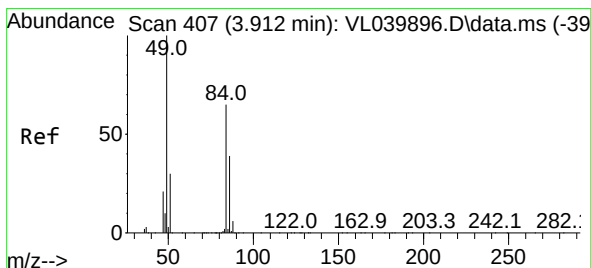
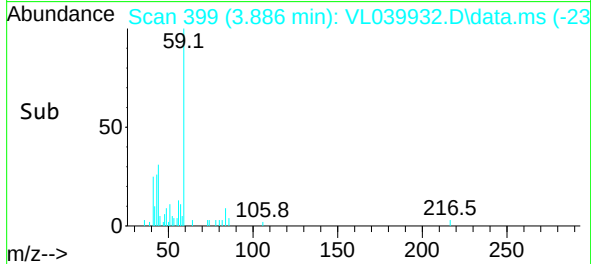
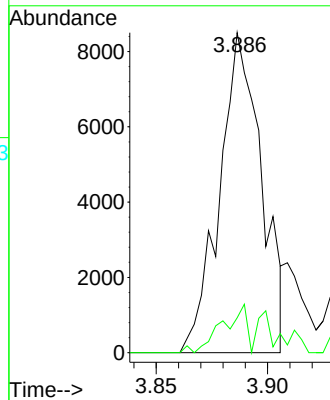
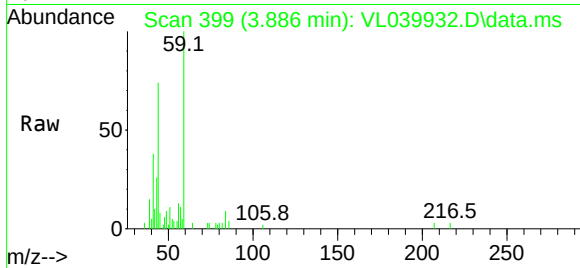
SV2

Tgt Ion: 59 Resp: 11152

Ion Ratio Lower Upper

59 100

57 16.1 8.3 12.5#



#20

Methylene Chloride

Concen: 1.871 ppbv

RT: 3.915 min Scan# 408

Delta R.T. 0.016 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Tgt Ion: 84 Resp: 115056

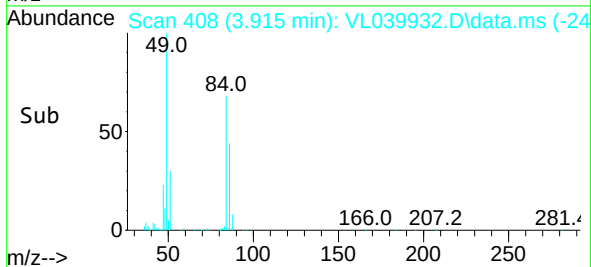
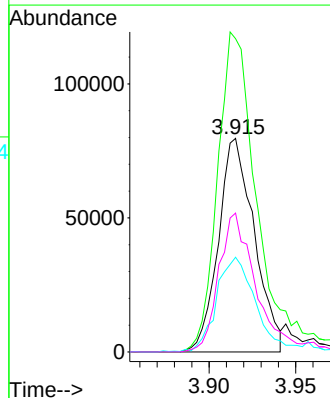
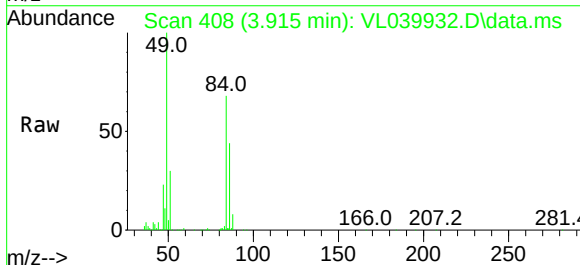
Ion Ratio Lower Upper

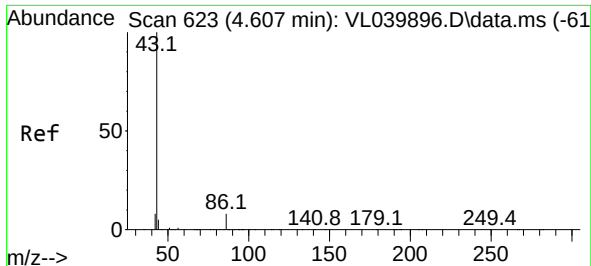
84 100

49 146.7 122.2 183.4

51 44.1 36.3 54.5

86 65.0 47.2 70.8



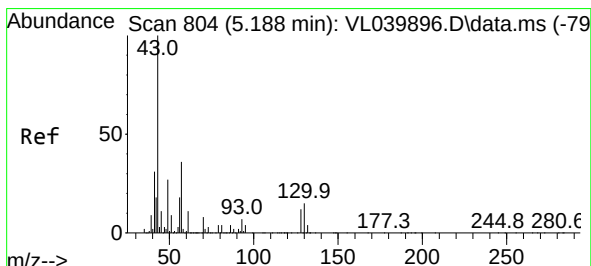
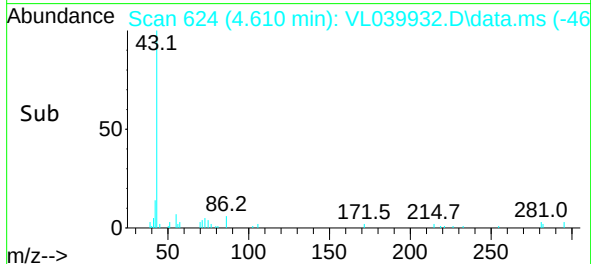
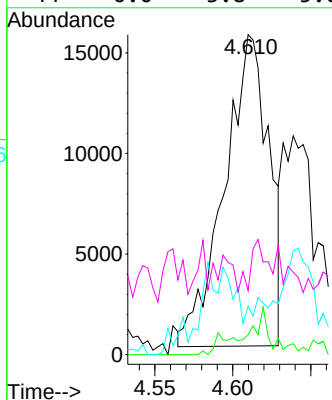
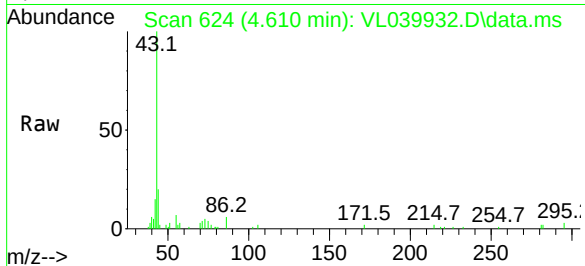


#23
 Vinyl Acetate
 Concen: 0.588 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 43 Resp: 30639

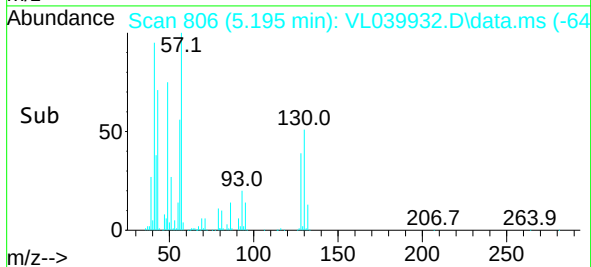
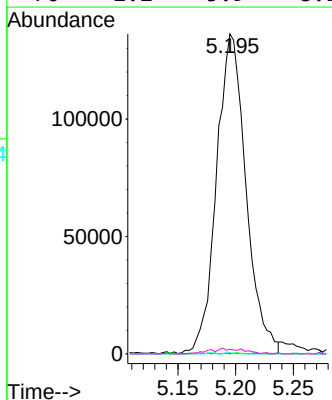
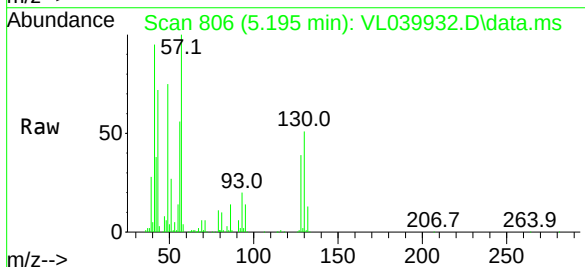
Ion	Ratio	Lower	Upper
43	100		
86	6.7	5.0	7.4
42	2.2	7.6	11.4#
44	0.0	3.8	5.6#

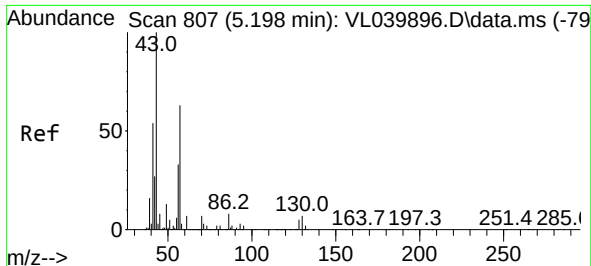


#25
 Ethyl Acetate
 Concen: 1.035 ppbv
 RT: 5.195 min Scan# 806
 Delta R.T. 0.026 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

Tgt Ion: 43 Resp: 241152

Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.4	12.6#
61	0.3	8.5	12.7#
70	2.2	5.9	8.9#

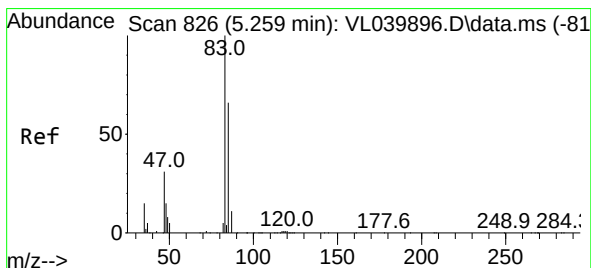
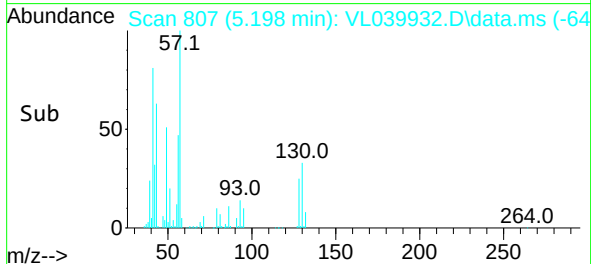
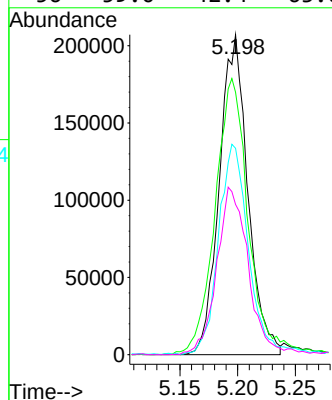
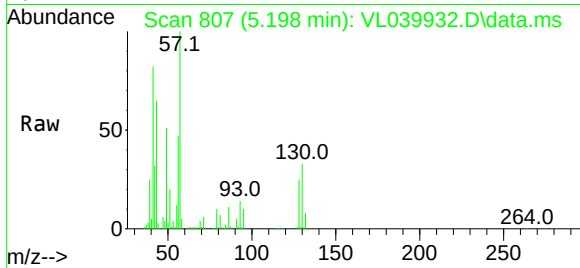




#26
Hexane
Concen: 3.487 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.016 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

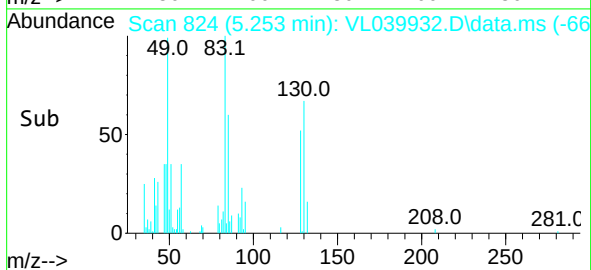
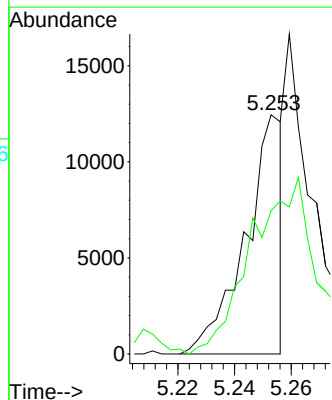
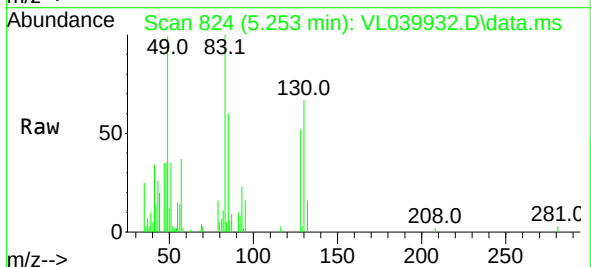
Instrument :
MSVOA_L
ClientSampleId :
SV2

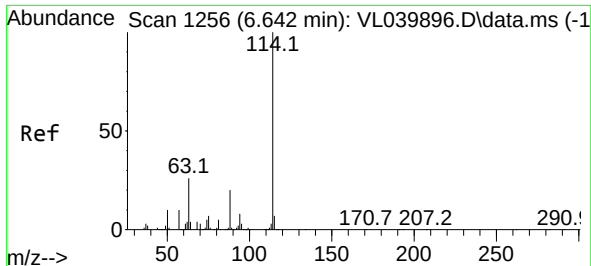
Tgt Ion: 57 Resp: 355005
Ion Ratio Lower Upper
57 100
41 101.8 72.3 108.5
43 70.3 188.7 283.1#
56 59.0 42.4 63.6



#29
Chloroform
Concen: 0.083 ppbv
RT: 5.253 min Scan# 824
Delta R.T. 0.013 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 83 Resp: 11282
Ion Ratio Lower Upper
83 100
85 57.7 52.4 78.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Instrument :

MSVOA_L

ClientSampleId :

SV2

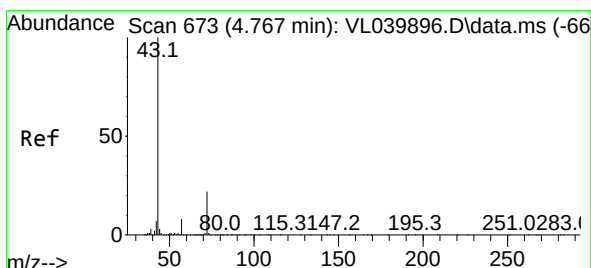
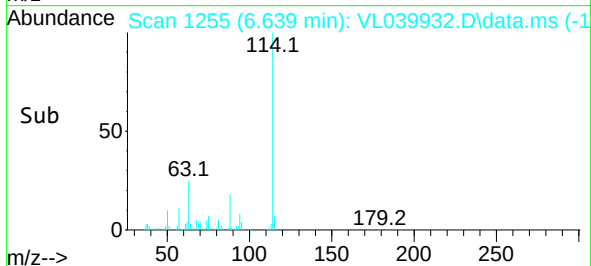
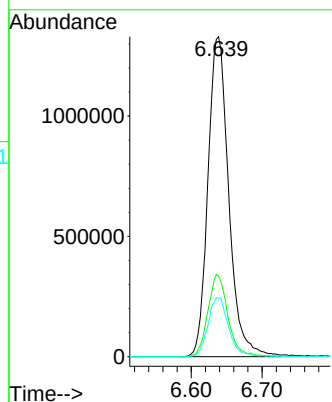
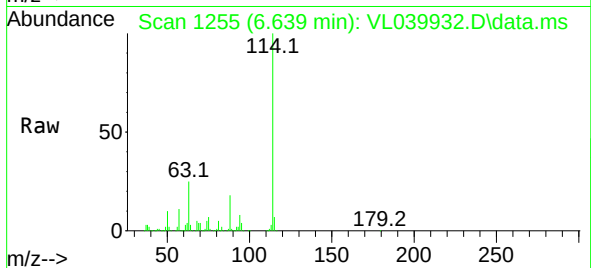
Tgt Ion:114 Resp: 2711548

Ion Ratio Lower Upper

114 100

63 24.9 21.4 32.0

88 18.4 15.3 22.9



#34

2-Butanone

Concen: 0.232 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.029 min

Lab File: VL039932.D

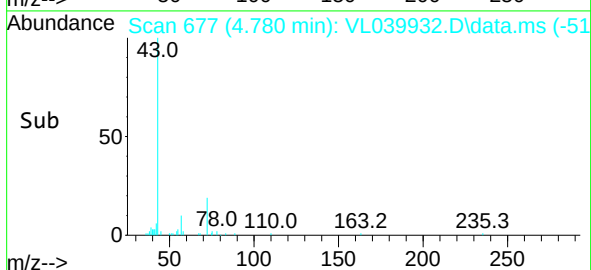
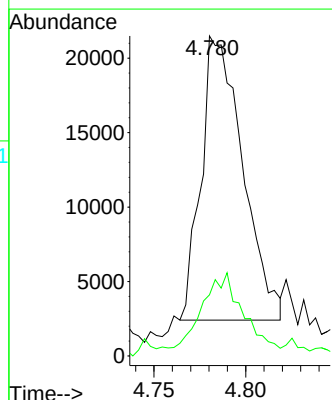
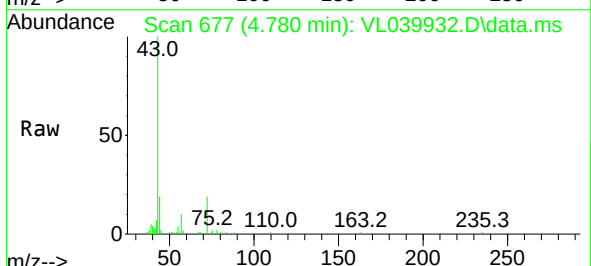
Acq: 23 Nov 2022 1:22

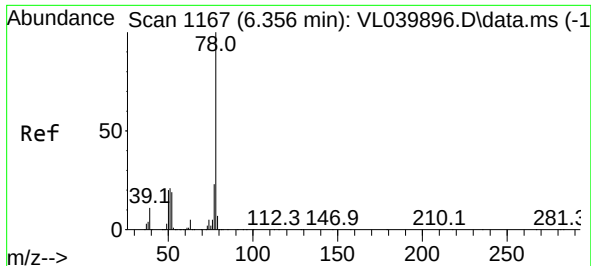
Tgt Ion: 43 Resp: 30059

Ion Ratio Lower Upper

43 100

72 36.2 17.4 26.2#

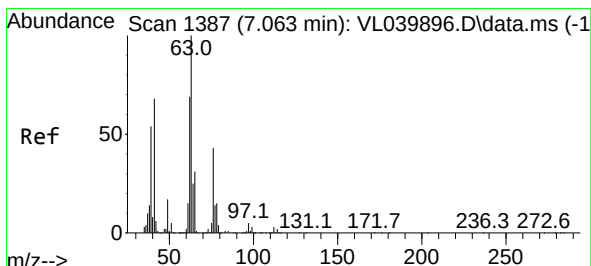
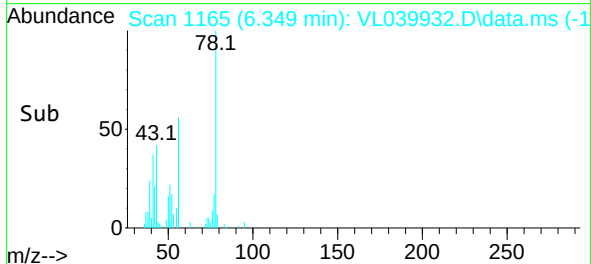
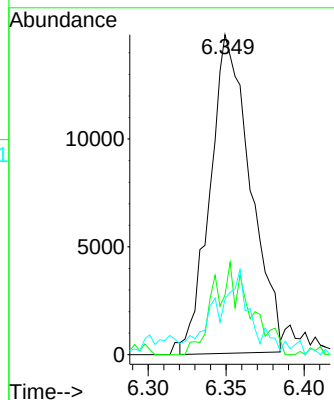
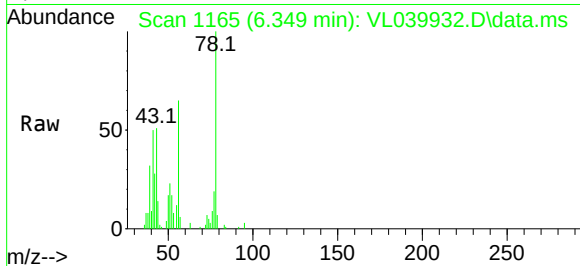




#36
Benzene
Concen: 0.116 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

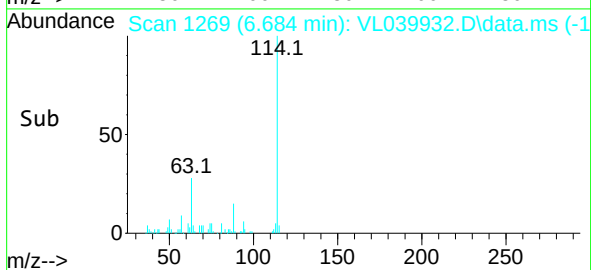
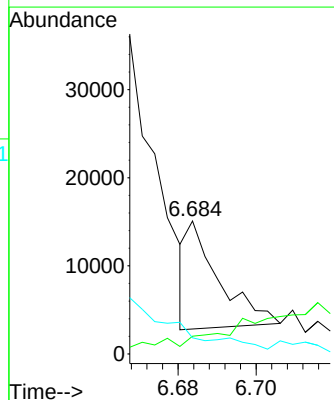
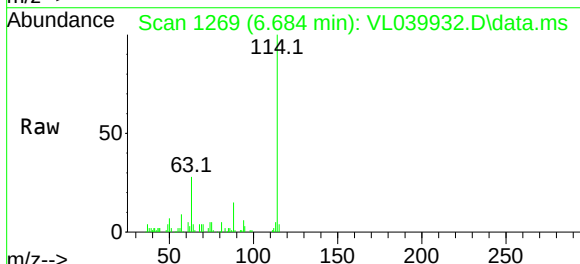
Instrument :
MSVOA_L
ClientSampleId :
SV2

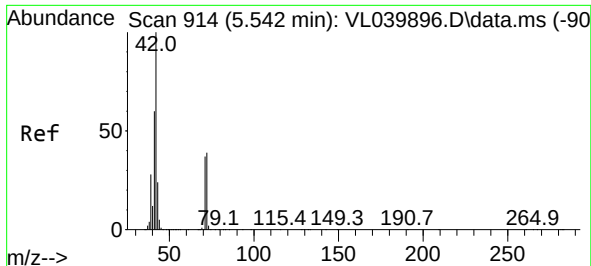
Tgt Ion: 78 Resp: 26624
Ion Ratio Lower Upper
78 100
77 19.4 18.2 27.2
50 16.6 15.8 23.8



#39
1,2-Dichloropropane
Concen: 0.078 ppbv
RT: 6.684 min Scan# 1269
Delta R.T. -0.357 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 63 Resp: 6971
Ion Ratio Lower Upper
63 100
41 10.7 54.7 82.1#
62 3.1 55.0 82.6#





#41

Tetrahydrofuran

Concen: 0.039 ppbv

RT: 5.568 min Scan# 91

Delta R.T. 0.045 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Instrument :

MSVOA_L

ClientSampleId :

SV2

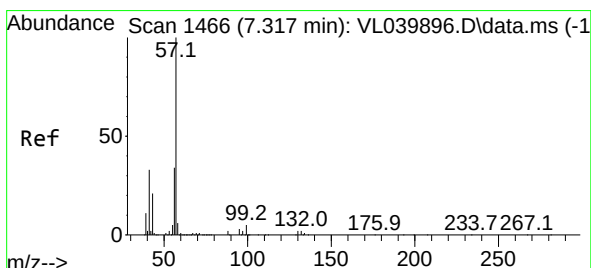
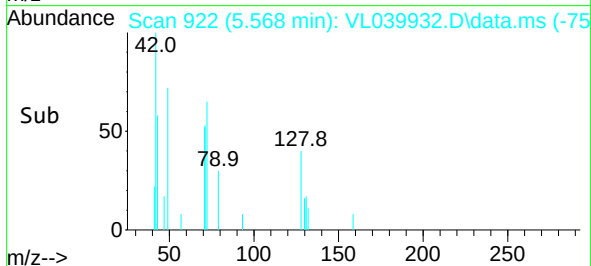
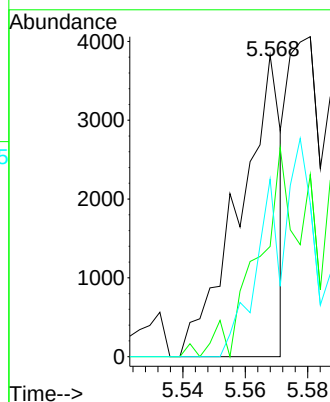
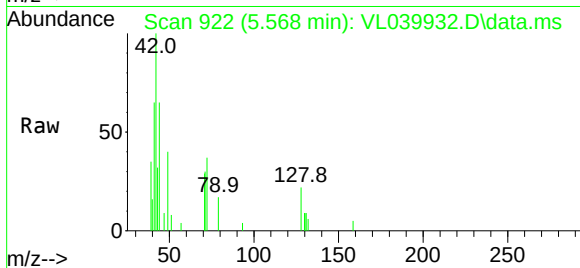
Tgt Ion: 42 Resp: 3521

Ion Ratio Lower Upper

42 100

72 125.0 31.6 47.4#

71 0.0 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.049 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. 0.019 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

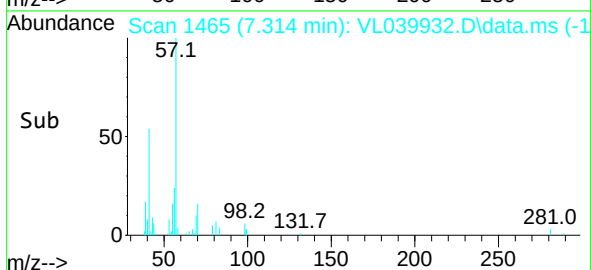
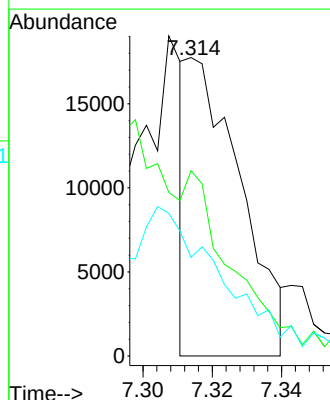
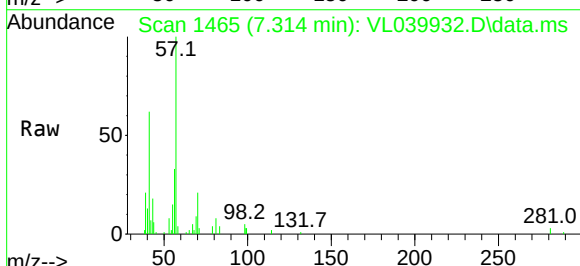
Tgt Ion: 57 Resp: 19038

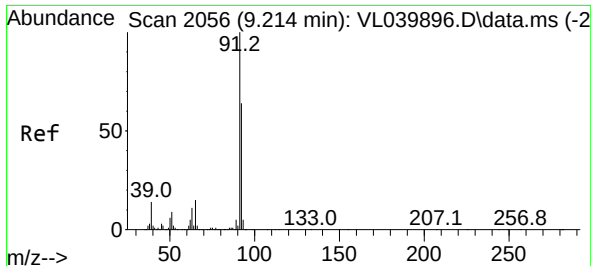
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

56 0.0 25.5 38.3#

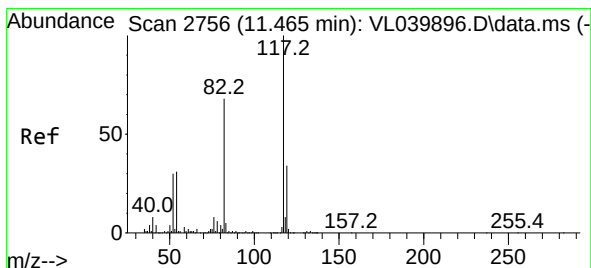
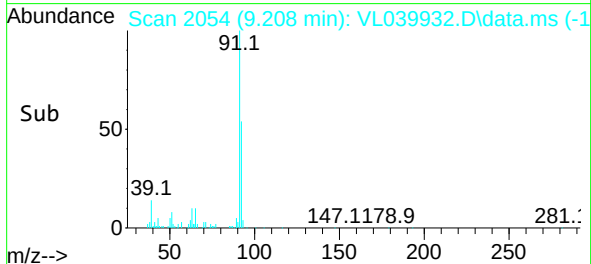
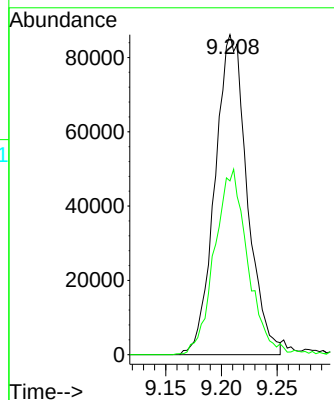
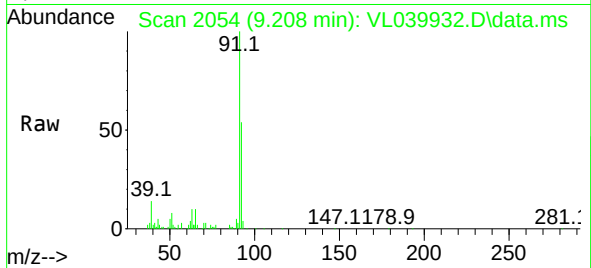




#53
Toluene
Concen: 0.661 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. 0.016 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

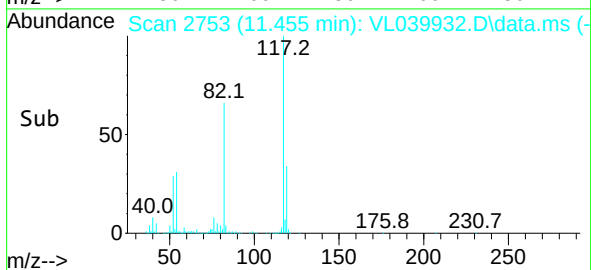
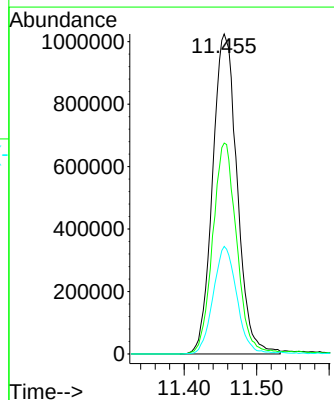
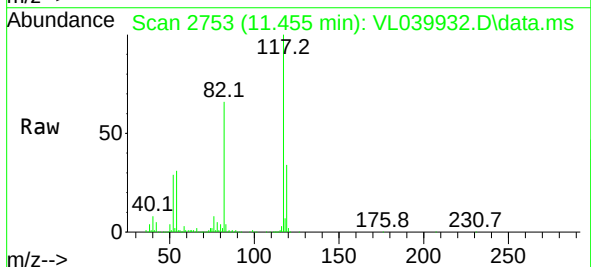
Instrument :
MSVOA_L
ClientSampleId :
SV2

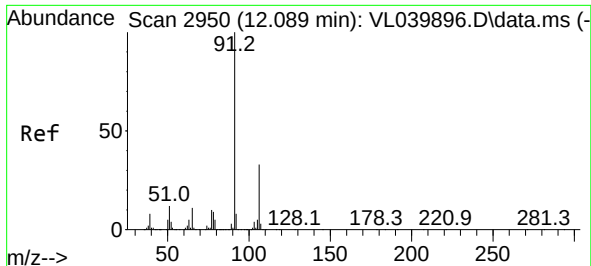
Tgt Ion: 91 Resp: 173556
Ion Ratio Lower Upper
91 100
92 60.2 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. 0.016 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 117 Resp: 2408718
Ion Ratio Lower Upper
117 100
82 64.4 52.3 78.5
119 32.7 25.7 38.5

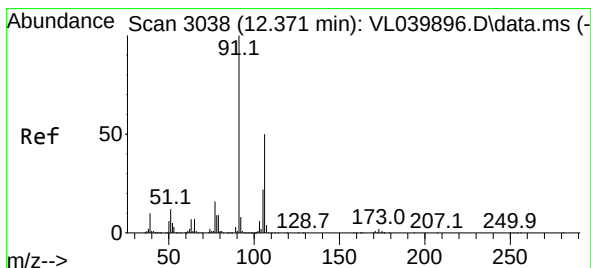
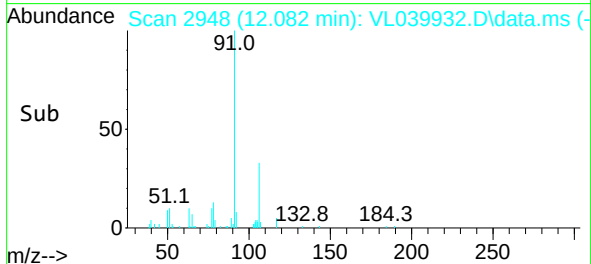
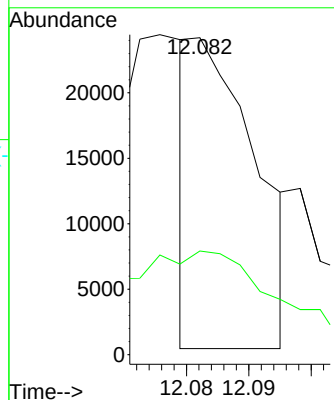
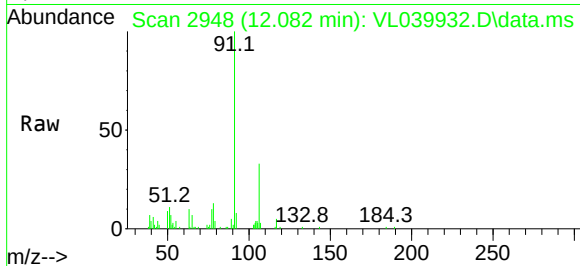




#58
Ethyl Benzene
Concen: 0.052 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. 0.019 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

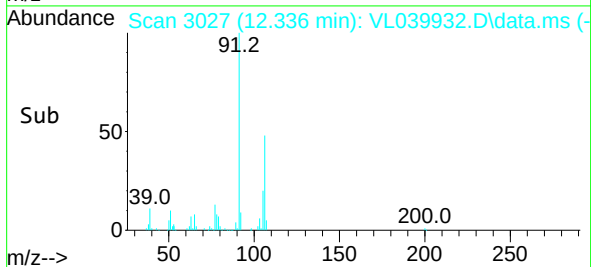
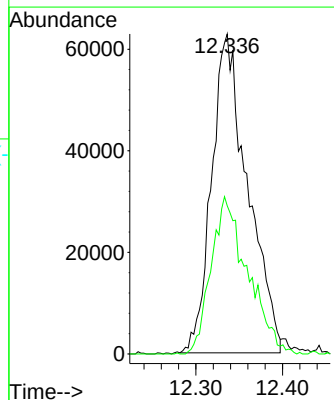
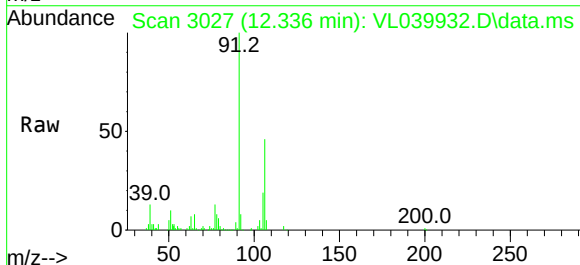
Instrument :
MSVOA_L
ClientSampleId :
SV2

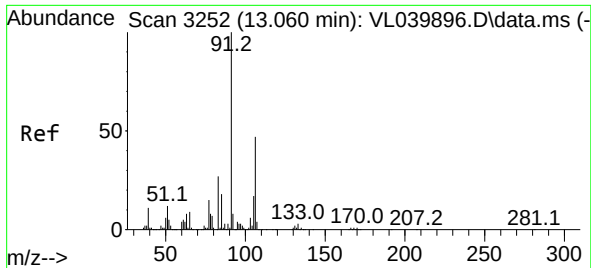
Tgt Ion: 91 Resp: 17022
Ion Ratio Lower Upper
91 100
106 31.3 26.1 39.1



#59
m/p-Xylene
Concen: 0.664 ppbv
RT: 12.336 min Scan# 3027
Delta R.T. -0.010 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 91 Resp: 181643
Ion Ratio Lower Upper
91 100
106 50.0 37.0 55.6

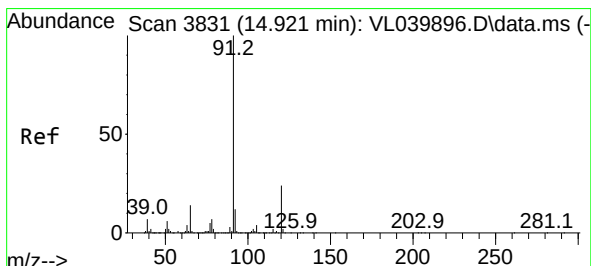
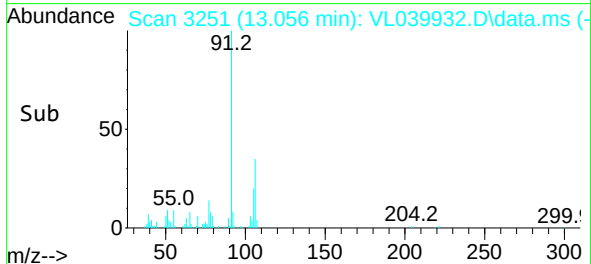
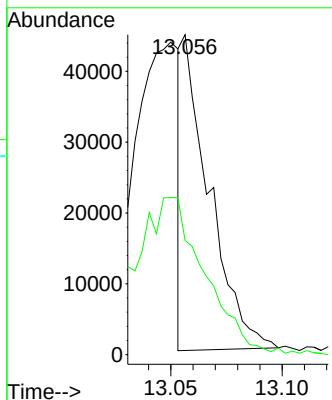
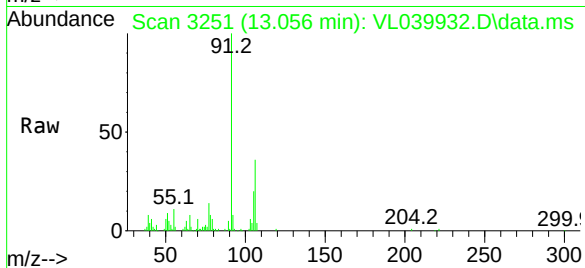




#60
o-Xylene
Concen: 0.145 ppbv
RT: 13.056 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

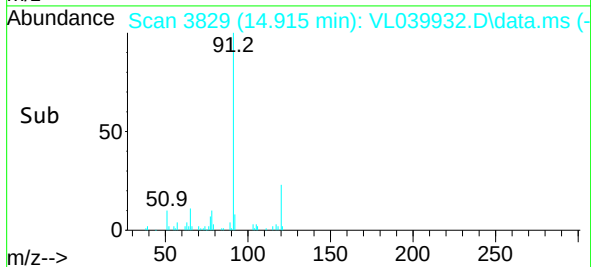
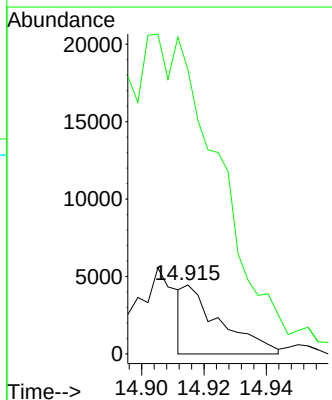
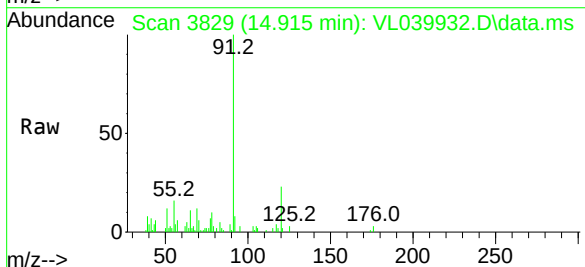
Instrument :
MSVOA_L
ClientSampleId :
SV2

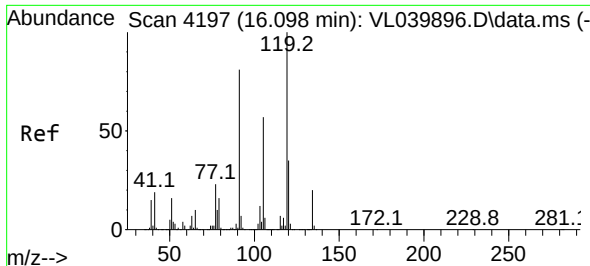
Tgt Ion: 91 Resp: 37699
Ion Ratio Lower Upper
91 100
106 0.0 23.2 69.6#



#64
n-propylbenzene
Concen: 0.037 ppbv
RT: 14.915 min Scan# 3829
Delta R.T. 0.019 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 120 Resp: 3637
Ion Ratio Lower Upper
120 100
91 0.0 353.7 530.5#

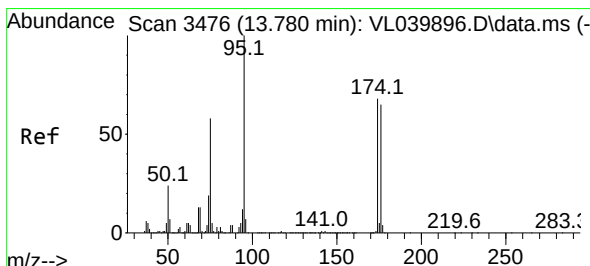
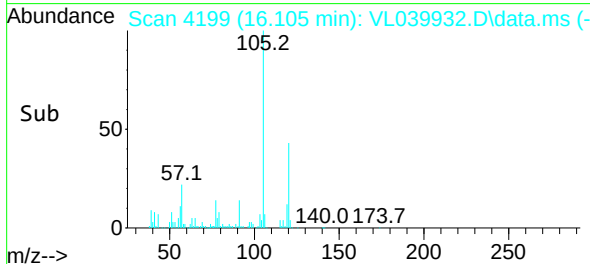
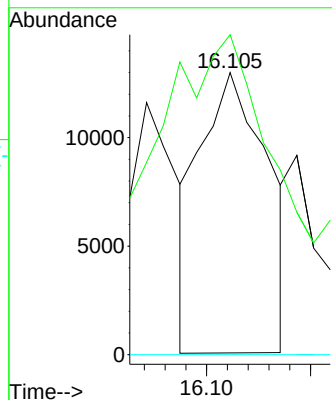
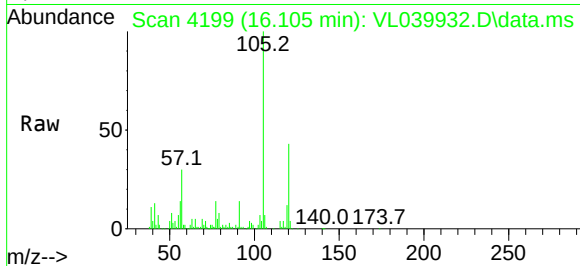




#65
 tert-Butylbenzene
 Concen: 0.035 ppbv
 RT: 16.105 min Scan# 4199
 Delta R.T. 0.032 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

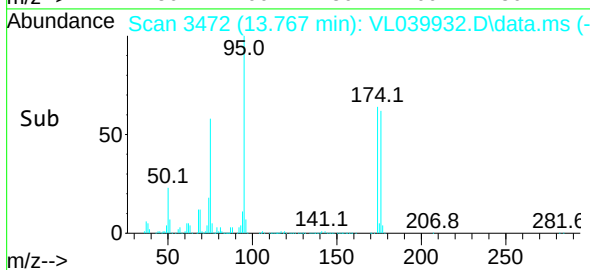
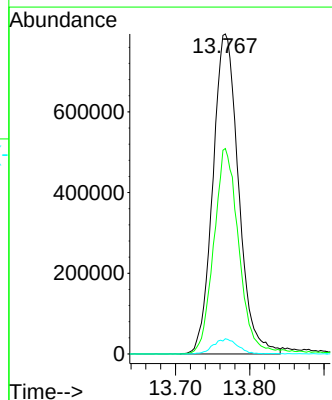
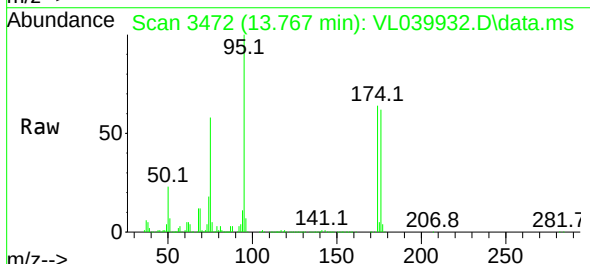
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

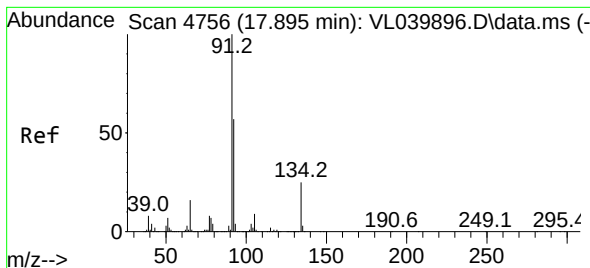
Tgt Ion:119 Resp: 11676
 Ion Ratio Lower Upper
 119 100
 91 282.6 65.8 98.8#
 134 0.0 16.1 24.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.384 ppbv
 RT: 13.767 min Scan# 3472
 Delta R.T. 0.013 min
 Lab File: VL039932.D
 Acq: 23 Nov 2022 1:22

Tgt Ion: 95 Resp: 1910427
 Ion Ratio Lower Upper
 95 100
 174 63.8 53.7 80.5
 175 4.6 4.0 6.0

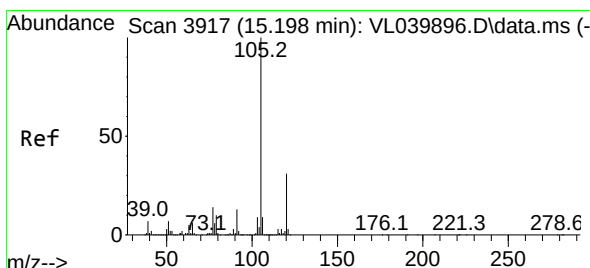
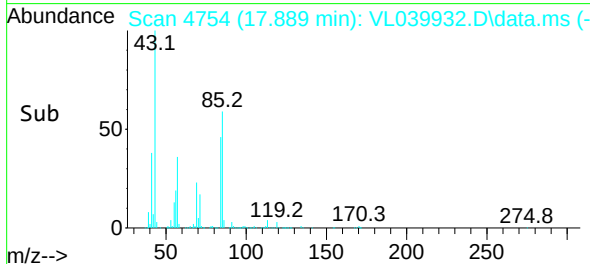
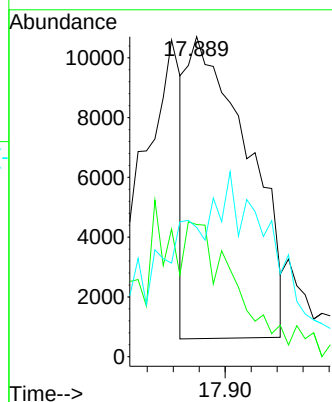
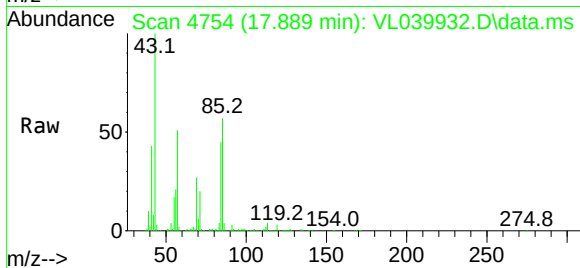




#70
n-Butylbenzene
Concen: 0.045 ppbv
RT: 17.889 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

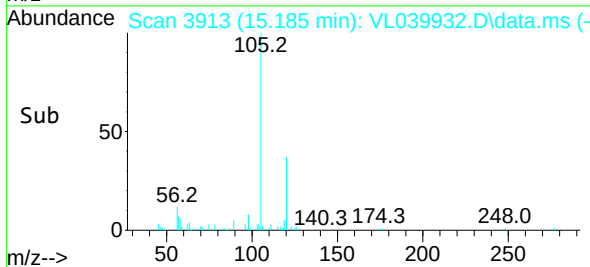
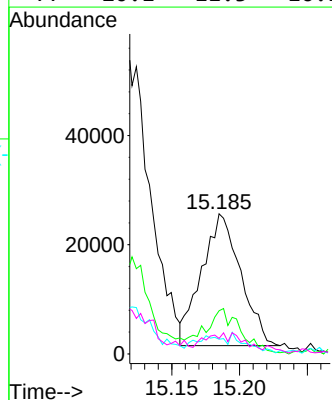
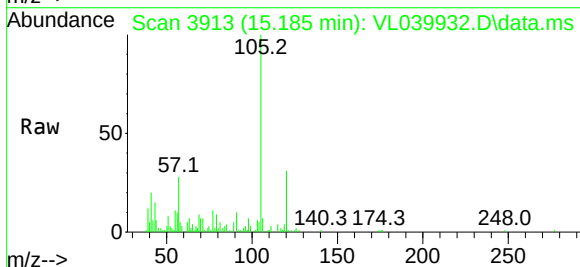
Instrument :
MSVOA_L
ClientSampleId :
SV2

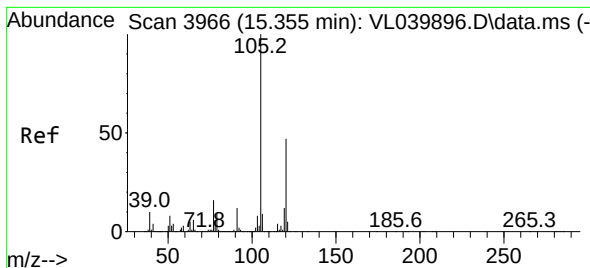
Tgt Ion: 91 Resp: 16472
Ion Ratio Lower Upper
91 100
92 0.0 44.2 66.2#
134 125.9 18.8 28.2#



#72
4-Ethyltoluene
Concen: 0.165 ppbv
RT: 15.185 min Scan# 3913
Delta R.T. 0.010 min
Lab File: VL039932.D
Acq: 23 Nov 2022 1:22

Tgt Ion: 105 Resp: 48229
Ion Ratio Lower Upper
105 100
120 32.6 24.5 36.7
91 17.1 10.4 15.6#
77 20.1 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.085 ppbv

RT: 15.346 min Scan# 3966

Delta R.T. 0.013 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Instrument :

MSVOA_L

ClientSampleId :

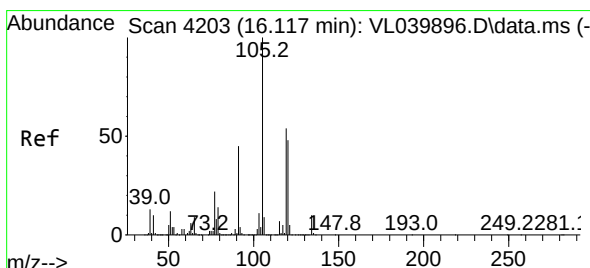
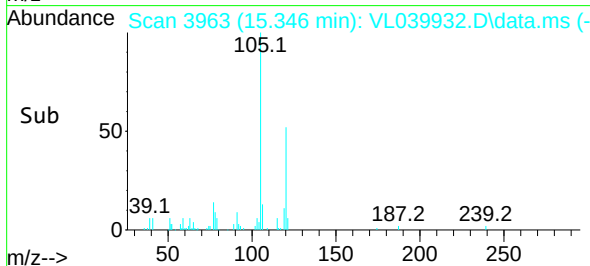
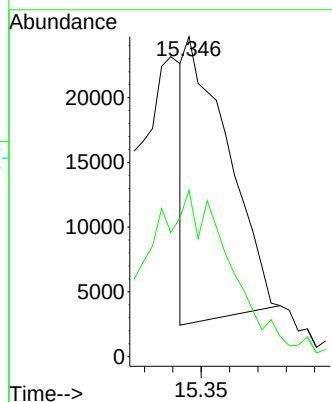
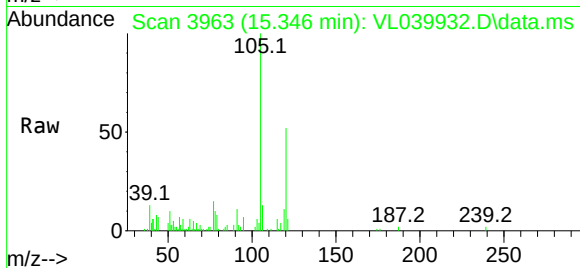
SV2

Tgt Ion:105 Resp: 22911

Ion Ratio Lower Upper

105 100

120 54.3 37.9 56.9



#74

1,2,4-Trimethylbenzene

Concen: 0.920 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. 0.006 min

Lab File: VL039932.D

Acq: 23 Nov 2022 1:22

Tgt Ion:105 Resp: 261441

Ion Ratio Lower Upper

105 100

120 37.5 38.7 58.1#

91 10.2 36.4 54.6#

77 12.5 17.4 26.0#

