

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041445.D
 Acq On : 30 Jul 2024 1:51
 Operator : SY/MD
 Sample : P3342-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:57:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

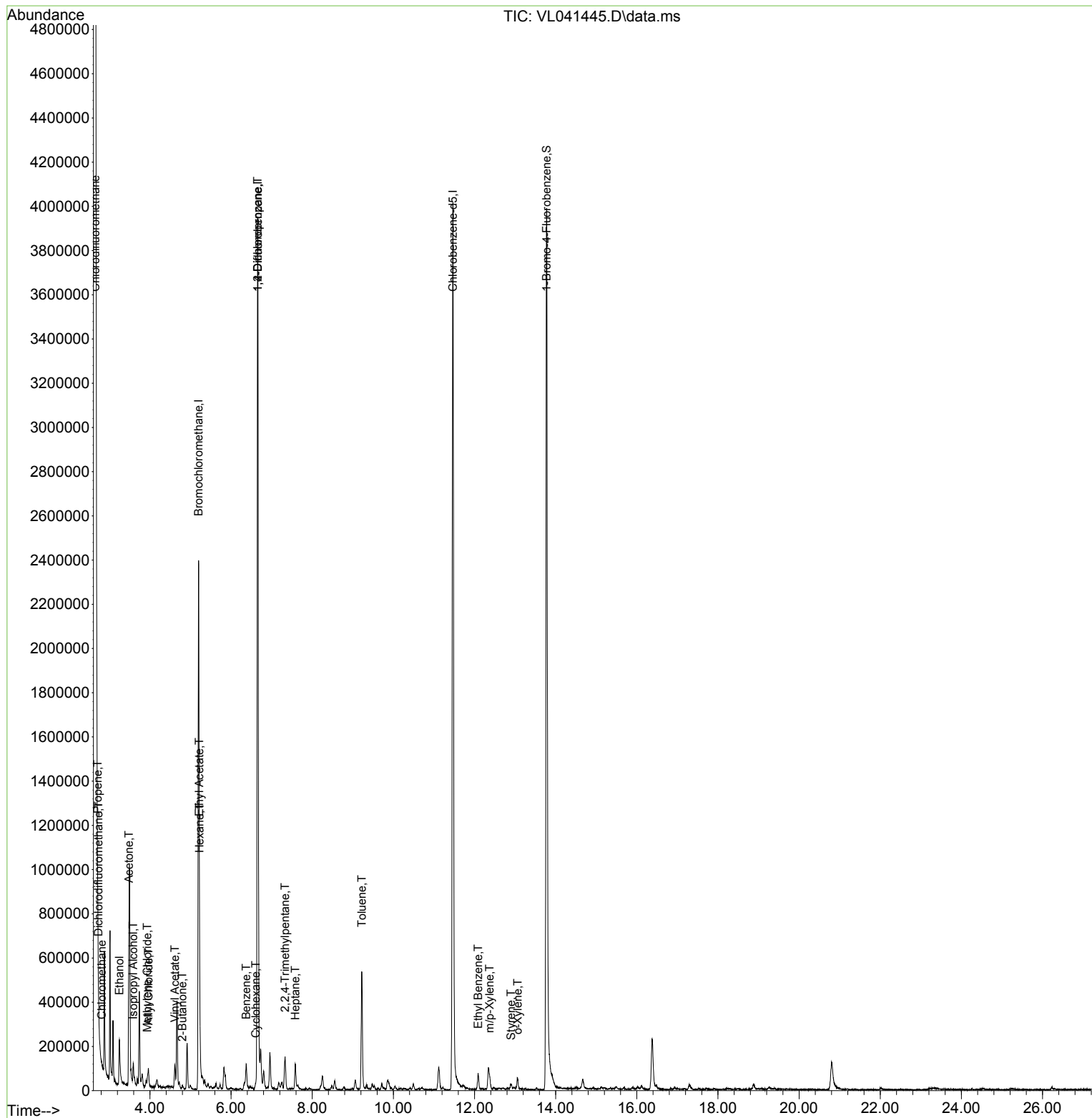
Internal Standards						
1) Bromochloromethane	5.198	49	1095859	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.658	114	2946986	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.468	117	2681688	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2022606	9.801	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	9876	0.052	ppbv	92
3) Chlorodifluoromethane	2.655	51	15979	0.122	ppbv #	61
4) Chloromethane	2.816	50	4532	0.065	ppbv	89
9) Propene	2.710	41	19691	0.329	ppbv	91
10) Heptane	7.584	43	46305	0.344	ppbv	95
13) Ethanol	3.247	45	224646	41.940	ppbv	91
15) Acetone	3.481	43	784016	6.297	ppbv #	84
19) Isopropyl Alcohol	3.591	45	108321	1.488	ppbv #	1
20) Methylene Chloride	3.938	84	7828	0.169	ppbv #	90
21) Allyl Chloride	3.964	41	9801	0.120	ppbv #	21
23) Vinyl Acetate	4.619	43	39818	0.419	ppbv #	1
25) Ethyl Acetate	5.218	43	122364	0.495	ppbv #	88
26) Hexane	5.221	57	153456	1.495	ppbv #	42
30) Cyclohexane	6.610	84	3519	0.042	ppbv #	1
34) 2-Butanone	4.800	43	18703	0.131	ppbv	94
36) Benzene	6.375	78	75329	0.350	ppbv	94
39) 1,2-Dichloropropane	6.655	63	733986	8.903	ppbv #	25
44) 2,2,4-Trimethylpentane	7.330	57	116761	0.325	ppbv #	82
53) Toluene	9.221	91	406119	1.693	ppbv	100
58) Ethyl Benzene	12.089	91	32030	0.104	ppbv	94
59) m/p-Xylene	12.375	91	21214	0.080	ppbv #	31
60) o-Xylene	13.063	91	15498	0.061	ppbv #	30
61) Styrene	12.902	104	8259	0.073	ppbv #	24

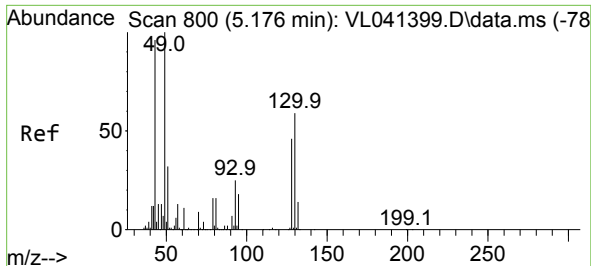
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.198 min Scan# 80

Delta R.T. 0.019 min

Lab File: VL041445.D

Acq: 30 Jul 2024 1:51

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MSVOA_L

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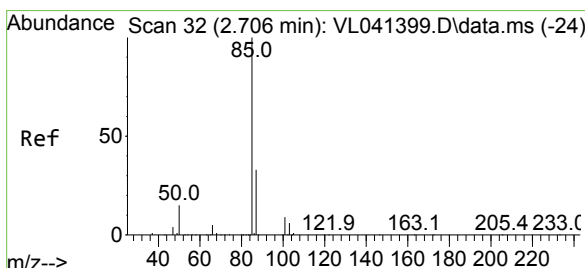
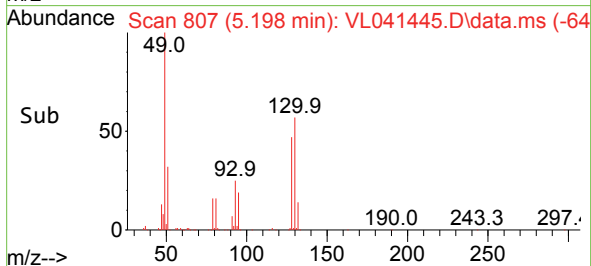
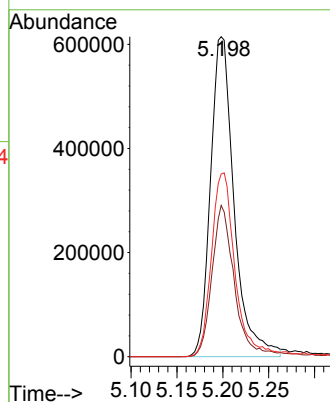
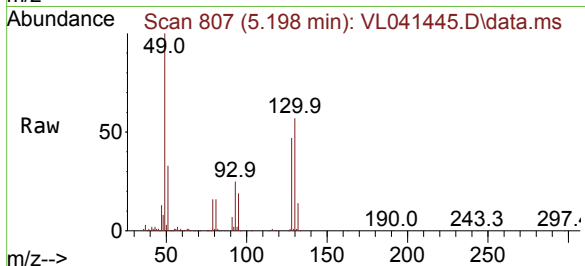
Tgt Ion: 49 Resp: 1095859

Ion Ratio Lower Upper

49 100

128 46.9 23.8 71.4

130 59.4 30.8 92.4



#2

Dichlorodifluoromethane

Concen: 0.052 ppbv

RT: 2.729 min Scan# 39

Delta R.T. 0.019 min

Lab File: VL041445.D

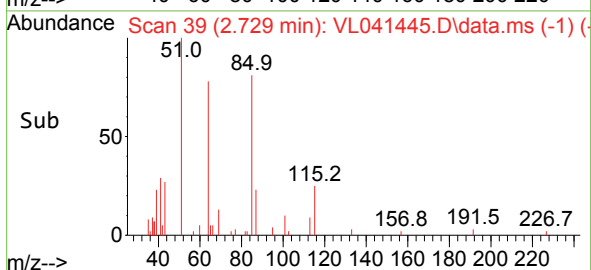
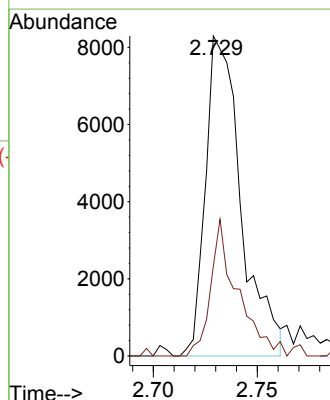
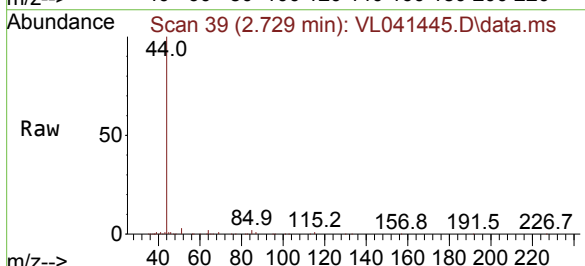
Acq: 30 Jul 2024 1:51

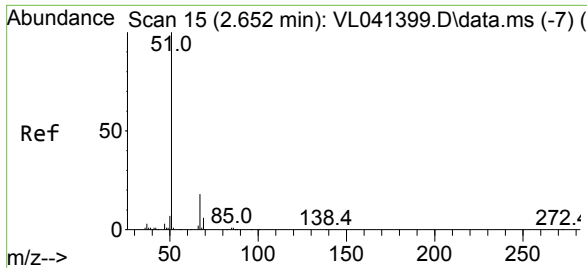
Tgt Ion: 85 Resp: 9876

Ion Ratio Lower Upper

85 100

87 28.1 26.0 39.0

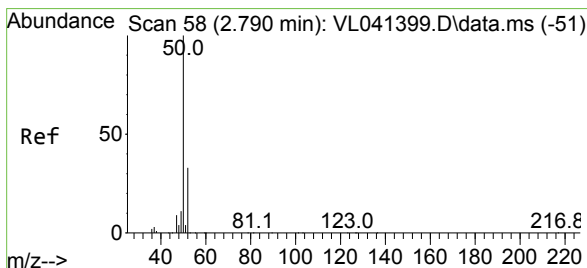
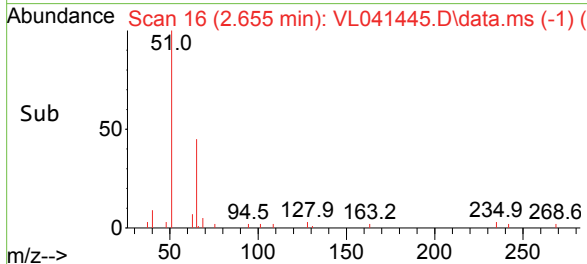
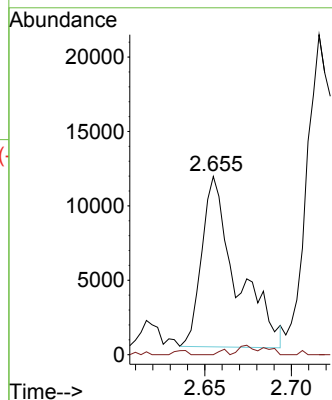
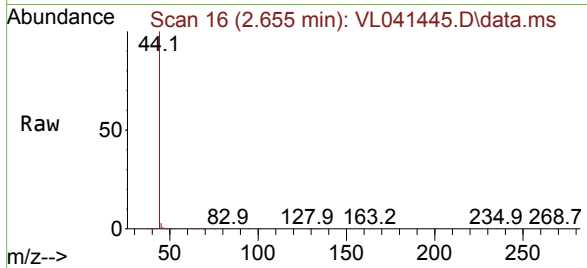




#3
Chlorodifluoromethane
Concen: 0.122 ppbv
RT: 2.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

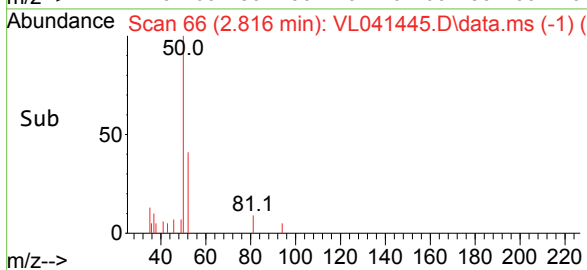
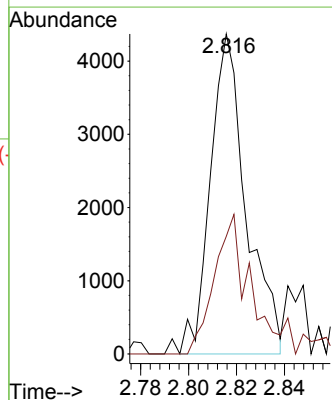
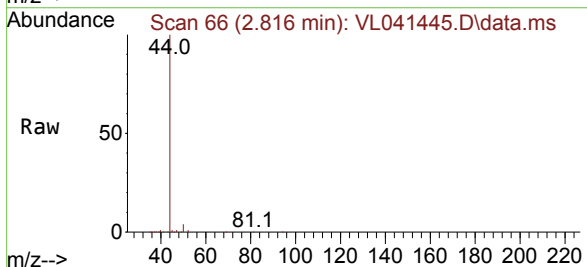
Instrument :
MSVOA_L
ClientSampleId :

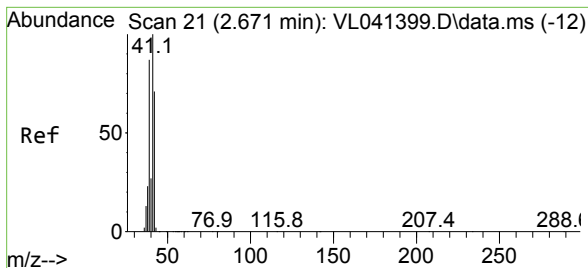
Tgt Ion: 51 Resp: 15979
Ion Ratio Lower Upper
51 100
67 0.9 14.5 21.7#



#4
Chloromethane
Concen: 0.065 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.023 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 50 Resp: 4532
Ion Ratio Lower Upper
50 100
52 38.5 26.1 39.1





#9

Propene

Concen: 0.329 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.039 min

Lab File: VL041445.D

Acq: 30 Jul 2024 1:51

Instrument :

MSVOA_L

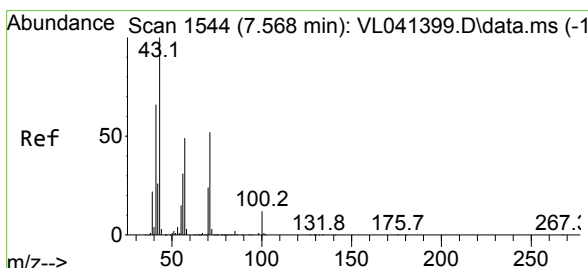
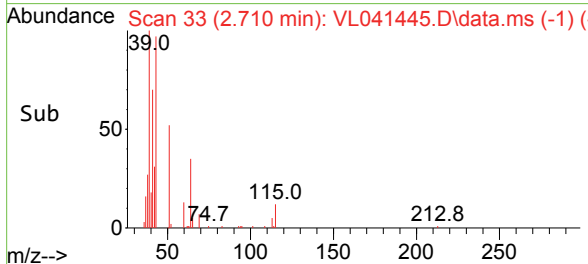
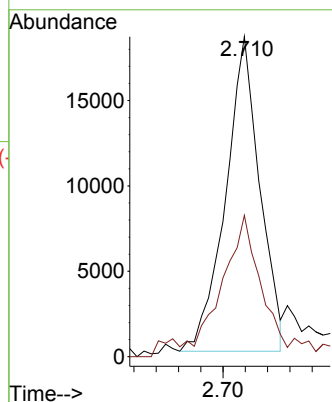
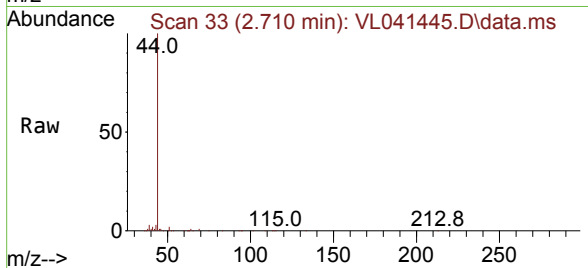
ClientSampleId :

Tgt Ion: 41 Resp: 19691

Ion Ratio Lower Upper

41 100

42 62.2 55.9 83.9



#10

Heptane

Concen: 0.344 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.013 min

Lab File: VL041445.D

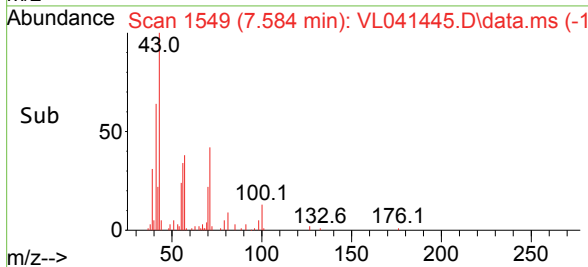
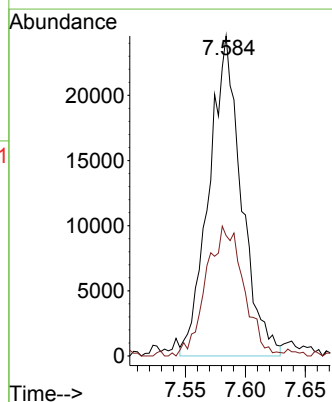
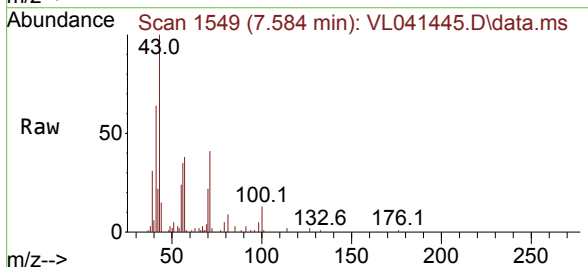
Acq: 30 Jul 2024 1:51

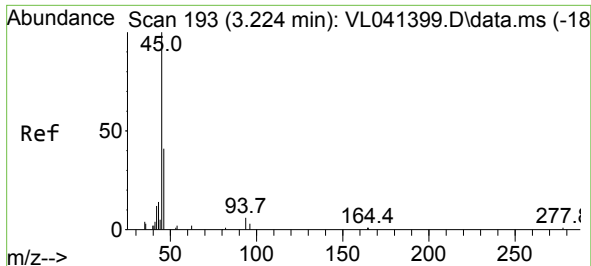
Tgt Ion: 43 Resp: 46305

Ion Ratio Lower Upper

43 100

57 47.4 40.5 60.7

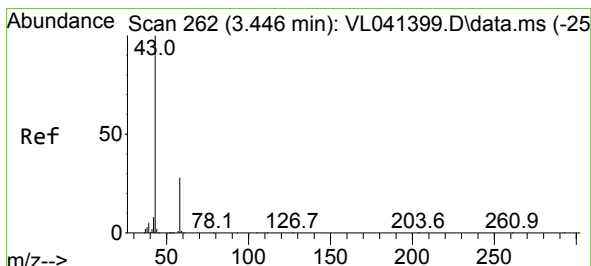
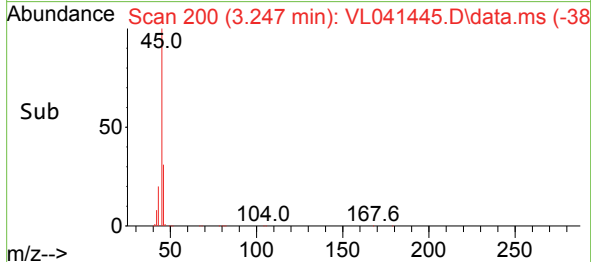
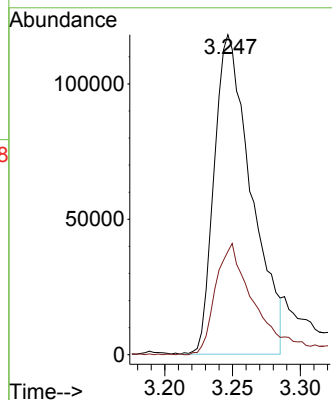
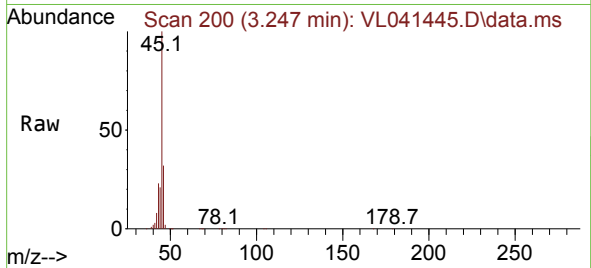




#13
Ethanol
Concen: 41.940 ppbv
RT: 3.247 min Scan# 200
Delta R.T. 0.019 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

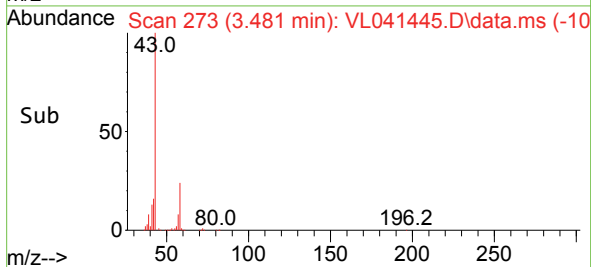
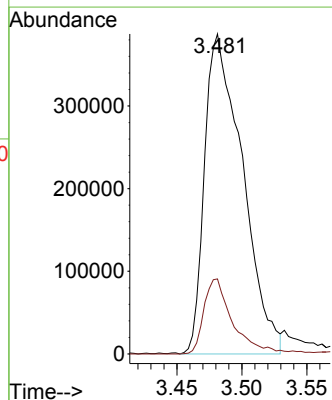
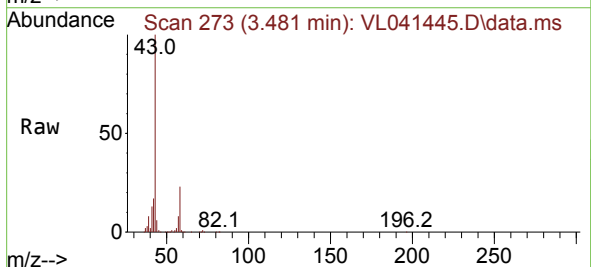
Instrument :
MSVOA_L
ClientSampleId :

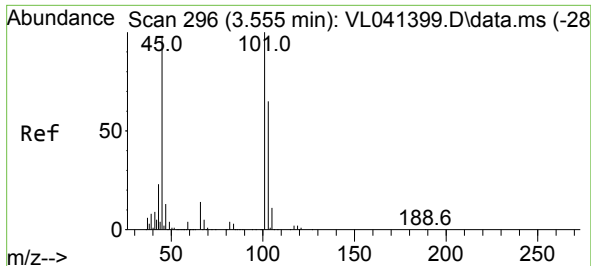
Tgt Ion: 45 Resp: 224646
Ion Ratio Lower Upper
45 100
46 38.8 13.4 53.4



#15
Acetone
Concen: 6.297 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.029 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 43 Resp: 784016
Ion Ratio Lower Upper
43 100
58 18.5 21.4 32.2#

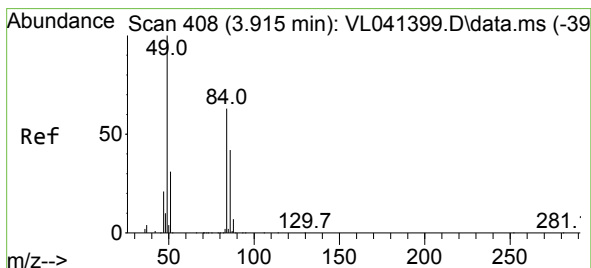
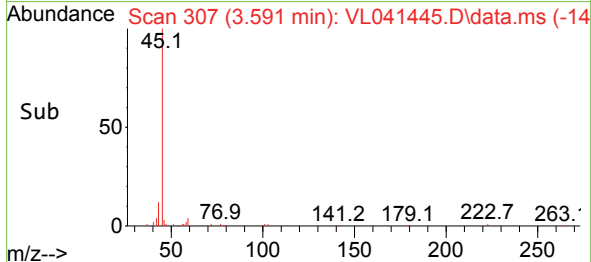
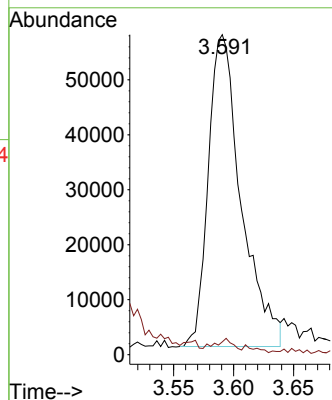
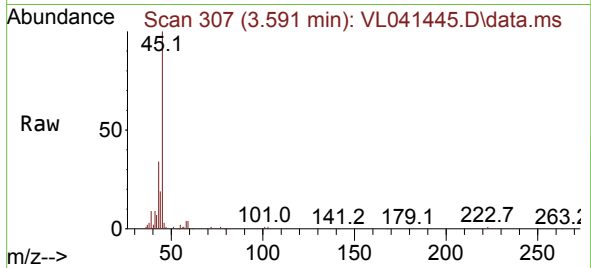




#19
Isopropyl Alcohol
Concen: 1.488 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.029 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

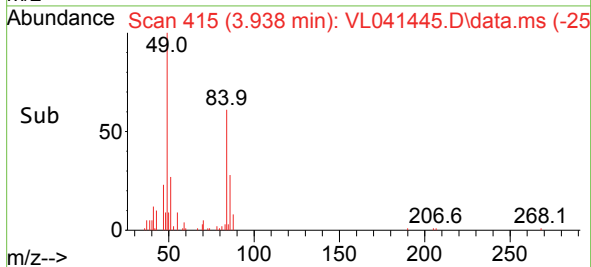
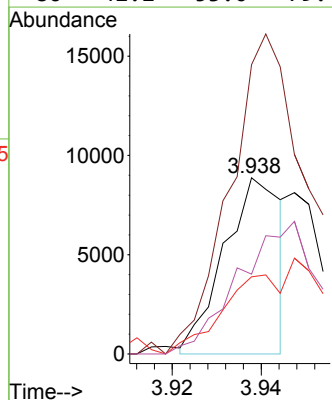
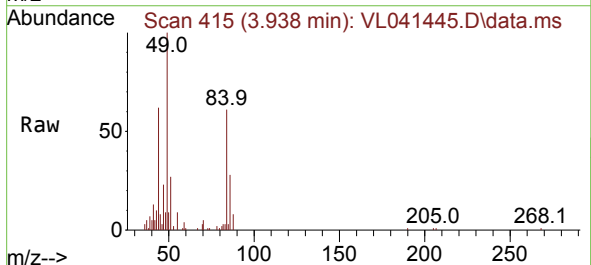
Instrument :
MSVOA_L
ClientSampleId :

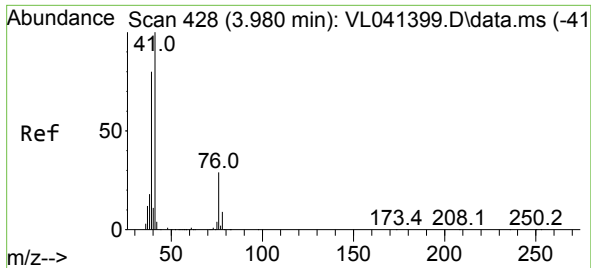
Tgt Ion: 45 Resp: 108321
Ion Ratio Lower Upper
45 100
58 134.2 1.9 2.9#



#20
Methylene Chloride
Concen: 0.169 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.019 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 84 Resp: 7828
Ion Ratio Lower Upper
84 100
49 158.6 126.6 190.0
51 38.8 38.6 58.0
86 42.2 53.0 79.4#

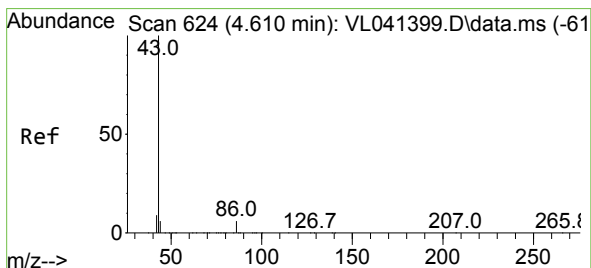
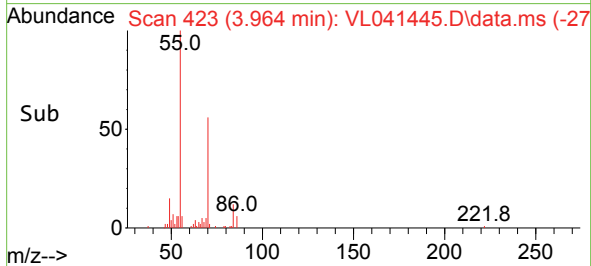
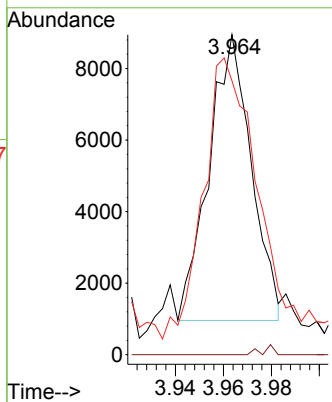
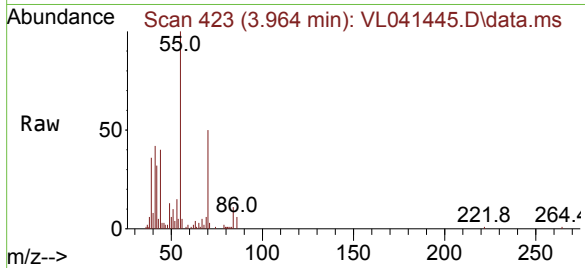




#21
 Allyl Chloride
 Concen: 0.120 ppbv
 RT: 3.964 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL041445.D
 Acq: 30 Jul 2024 1:51

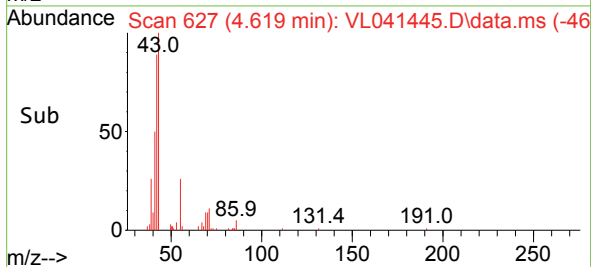
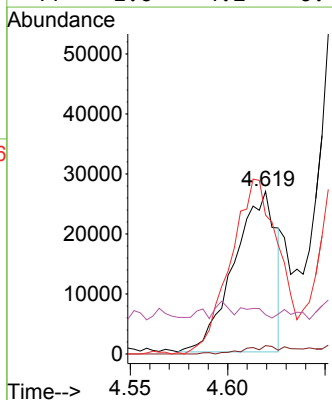
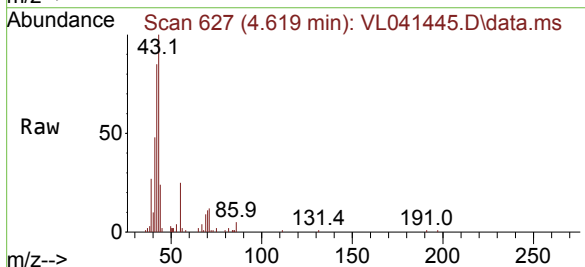
Instrument :
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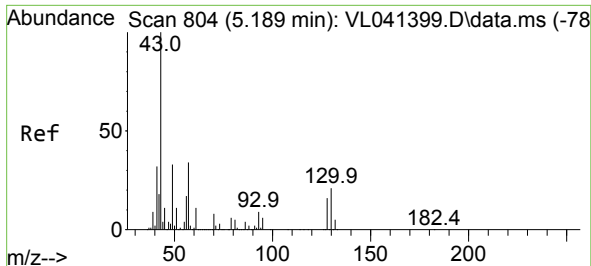
Tgt Ion: 41 Resp: 9801
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 158.5 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.419 ppbv
 RT: 4.619 min Scan# 627
 Delta R.T. 0.006 min
 Lab File: VL041445.D
 Acq: 30 Jul 2024 1:51

Tgt Ion: 43 Resp: 39818
 Ion Ratio Lower Upper
 43 100
 86 5.2 4.6 6.8
 42 85.6 7.9 11.9#
 44 1.6 4.2 6.4#

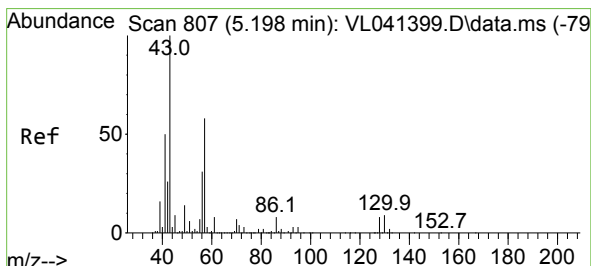
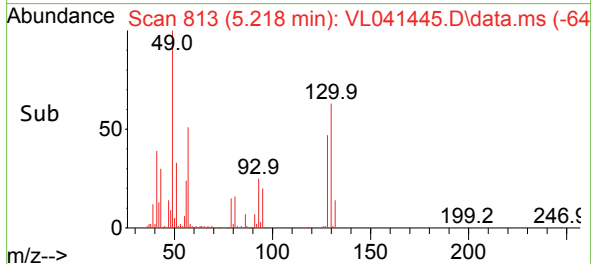
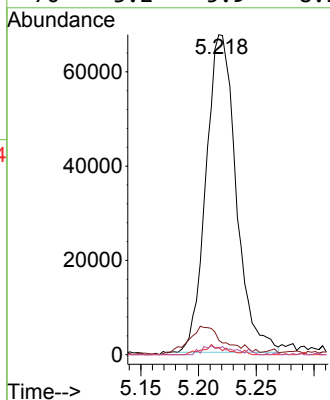
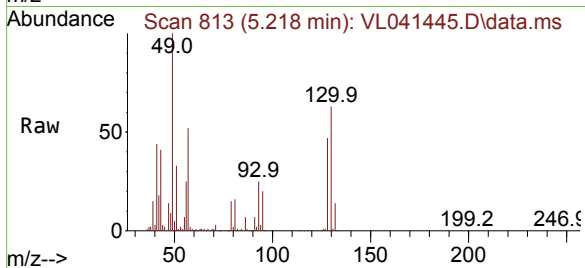




#25
Ethyl Acetate
Concen: 0.495 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.026 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

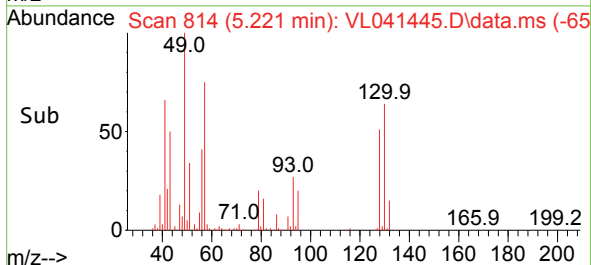
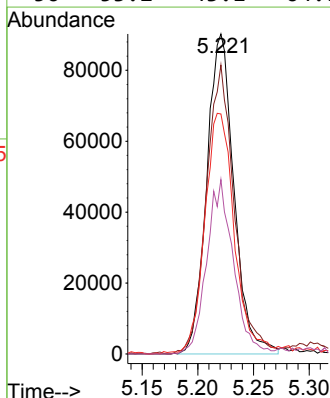
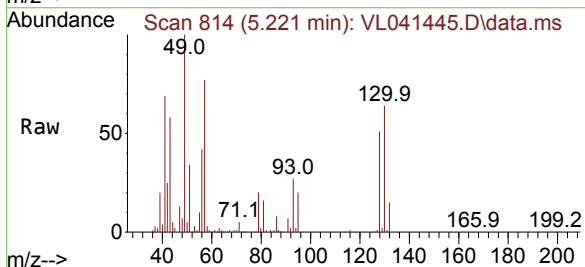
Instrument :
MSVOA_L
ClientSampleId :

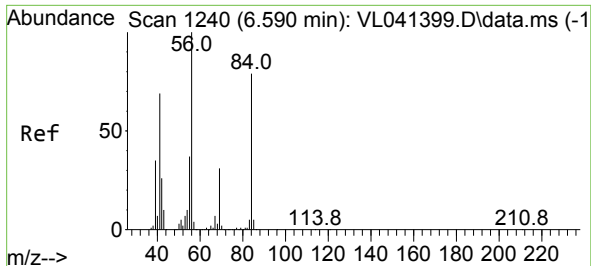
Tgt Ion: 43 Resp: 122364
Ion Ratio Lower Upper
43 100
45 11.7 8.5 12.7
61 2.5 8.0 12.0#
70 3.2 5.9 8.9#



#26
Hexane
Concen: 1.495 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.022 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

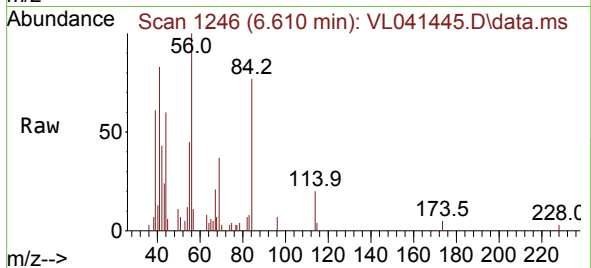
Tgt Ion: 57 Resp: 153456
Ion Ratio Lower Upper
57 100
41 93.1 74.0 111.0
43 84.0 193.6 290.4#
56 53.2 43.1 64.7



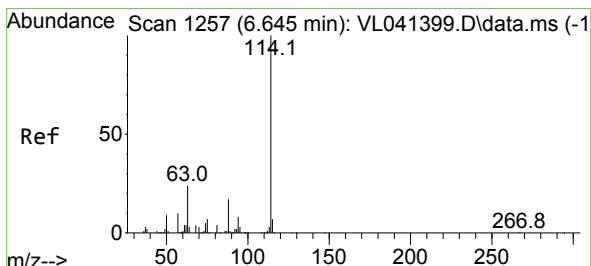
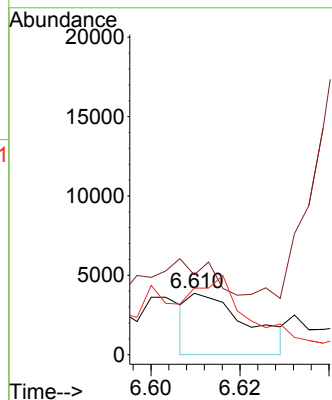
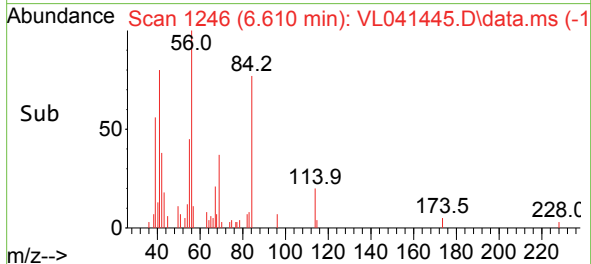


#30
Cyclohexane
Concen: 0.042 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.016 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Instrument :
MSVOA_L
ClientSampleId :

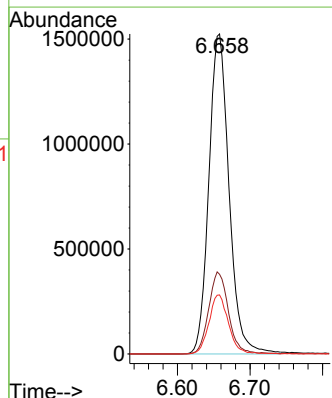
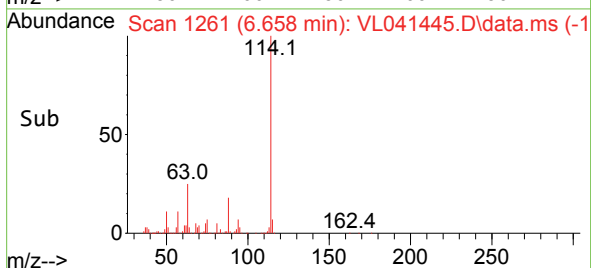
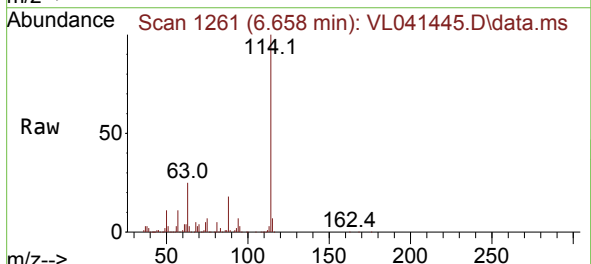


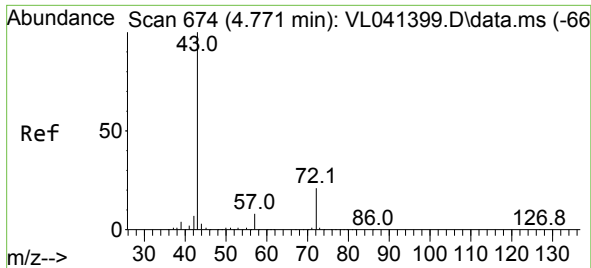
Tgt Ion: 84 Resp: 3519
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 295.6 70.3 105.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.013 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 114 Resp: 2946986
Ion Ratio Lower Upper
114 100
63 25.3 20.3 30.5
88 18.0 14.3 21.5

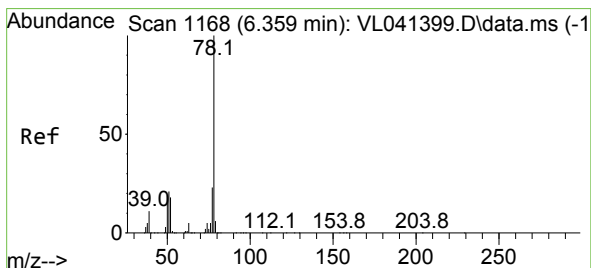
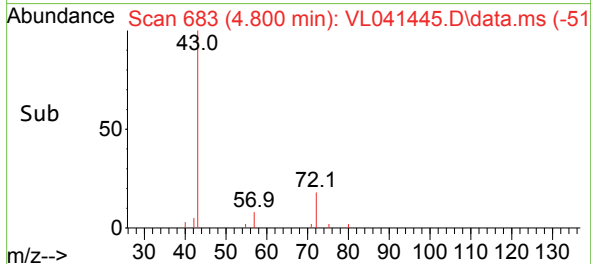
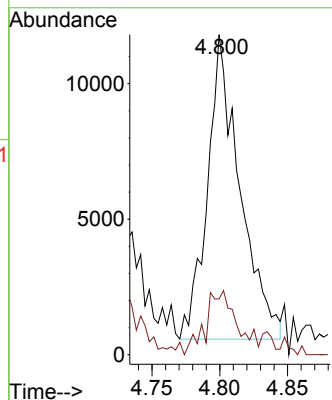
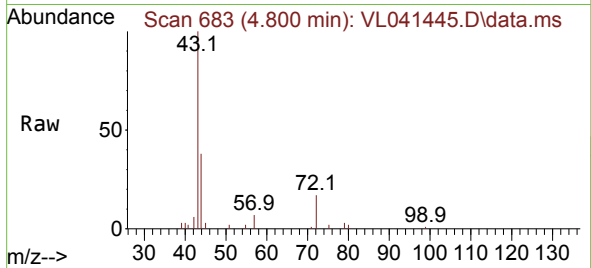




#34
2-Butanone
Concen: 0.131 ppbv
RT: 4.800 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

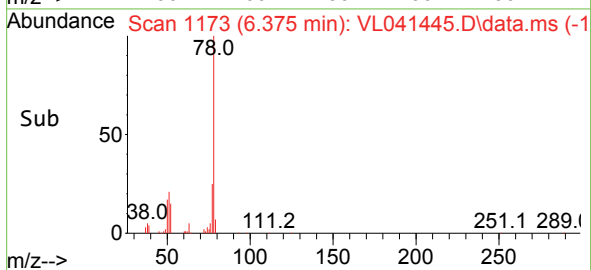
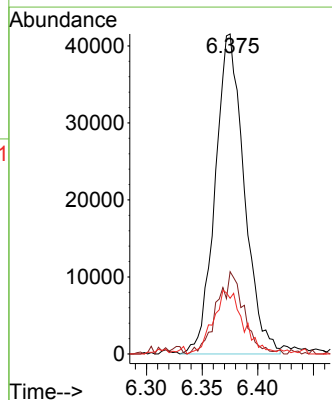
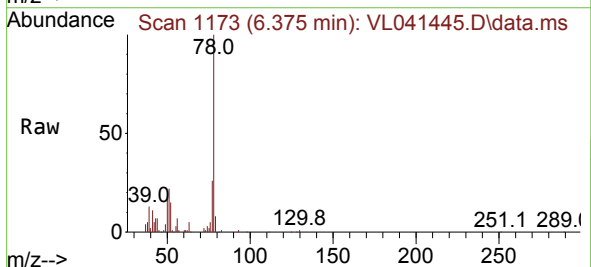
Instrument :
MSVOA_L
ClientSampleId :

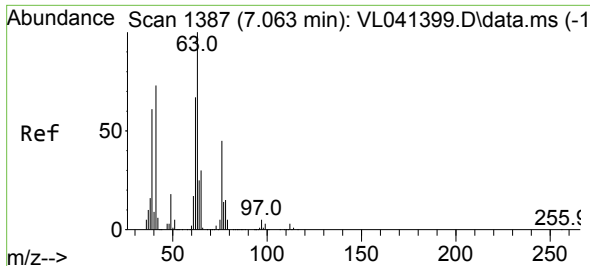
Tgt Ion: 43 Resp: 18703
Ion Ratio Lower Upper
43 100
72 24.4 17.3 25.9



#36
Benzene
Concen: 0.350 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. 0.016 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 78 Resp: 75329
Ion Ratio Lower Upper
78 100
77 24.5 18.1 27.1
50 16.0 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.903 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

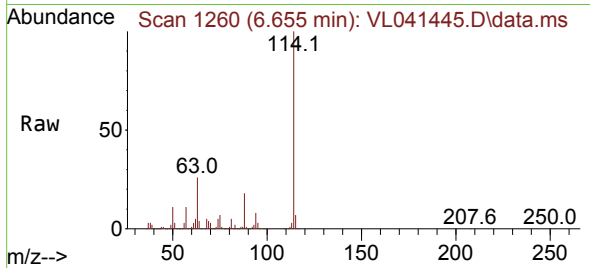
Lab File: VL041445.D

Acq: 30 Jul 2024 1:51

Instrument :

MSVOA_L

ClientSampleId :



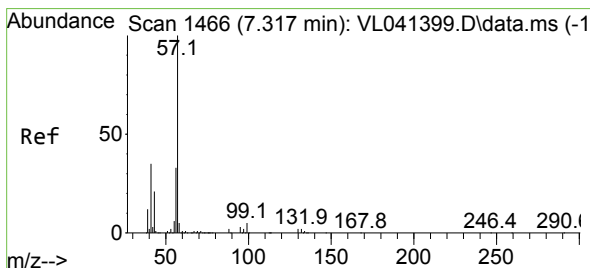
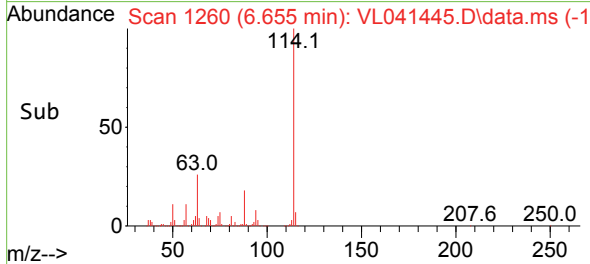
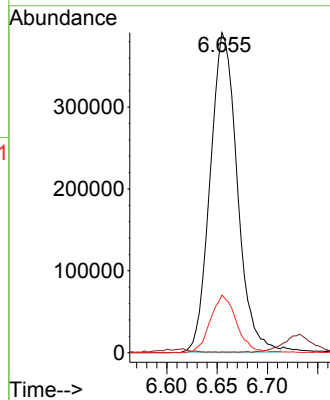
Tgt Ion: 63 Resp: 733986

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.0 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.325 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. 0.013 min

Lab File: VL041445.D

Acq: 30 Jul 2024 1:51

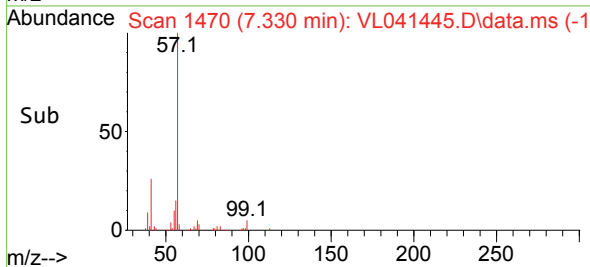
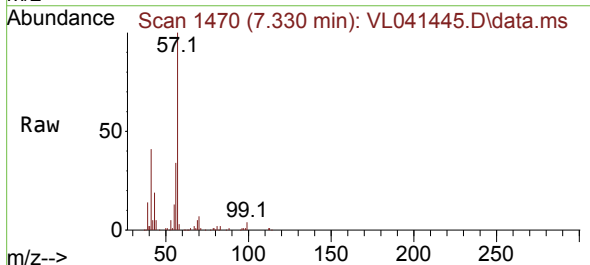
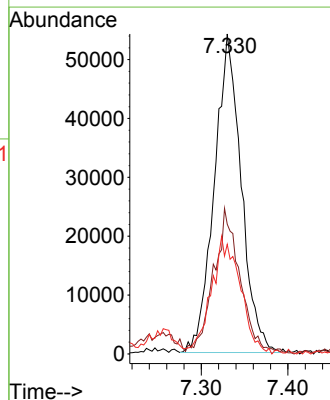
Tgt Ion: 57 Resp: 116761

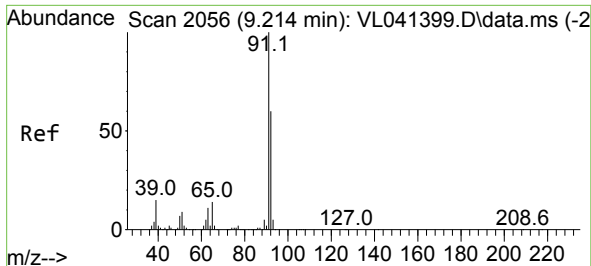
Ion Ratio Lower Upper

57 100

41 45.4 27.0 40.6#

56 39.5 25.2 37.8#

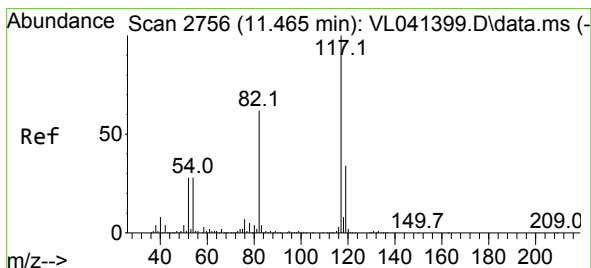
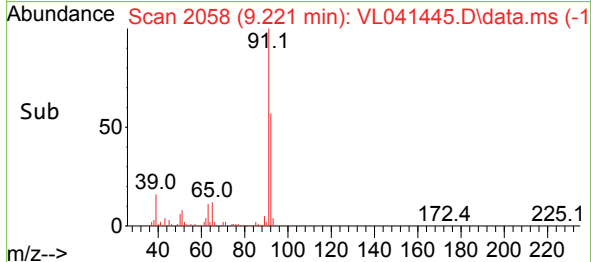
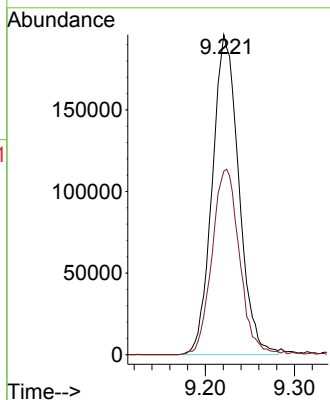
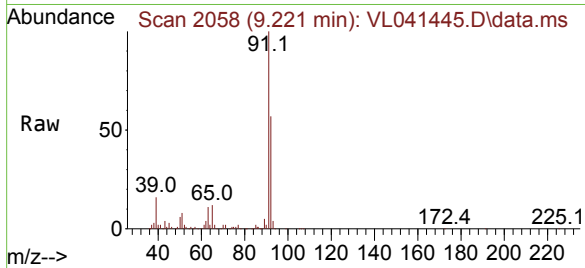




#53
Toluene
Concen: 1.693 ppbv
RT: 9.221 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

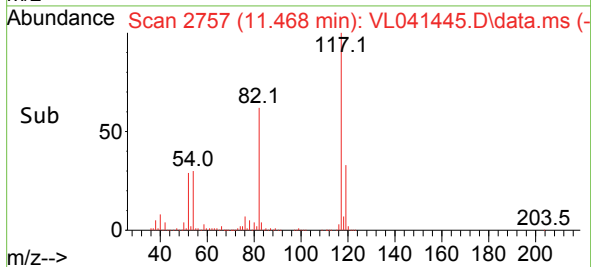
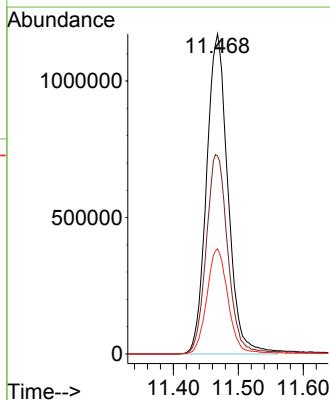
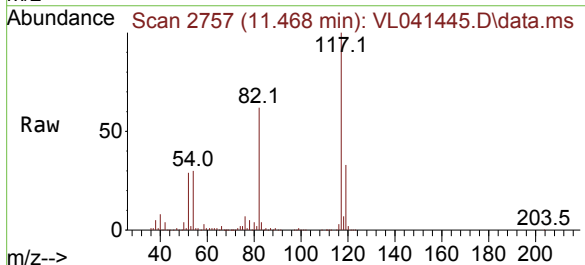
Instrument :
MSVOA_L
ClientSampleId :

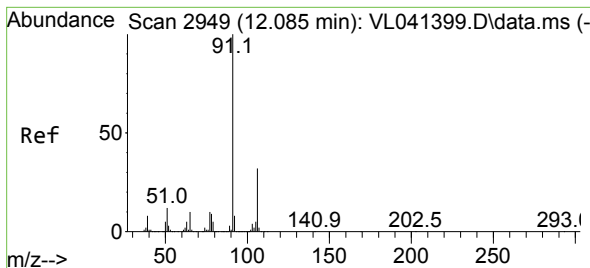
Tgt Ion: 91 Resp: 406119
Ion Ratio Lower Upper
91 100
92 60.6 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 117 Resp: 2681688
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 33.1 45.2 67.8#

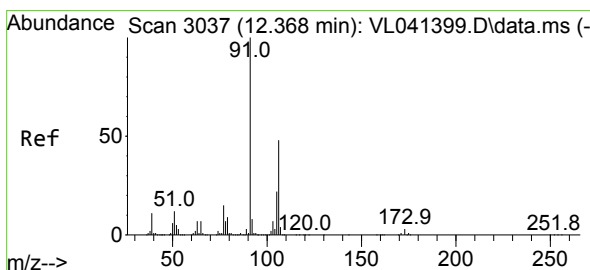
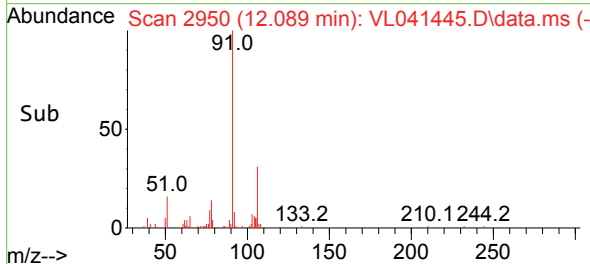
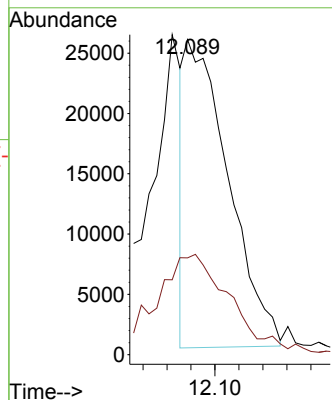
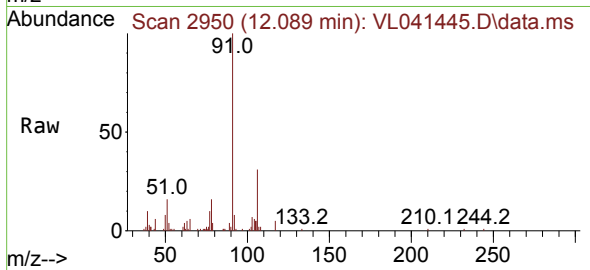




#58
Ethyl Benzene
Concen: 0.104 ppbv
RT: 12.089 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

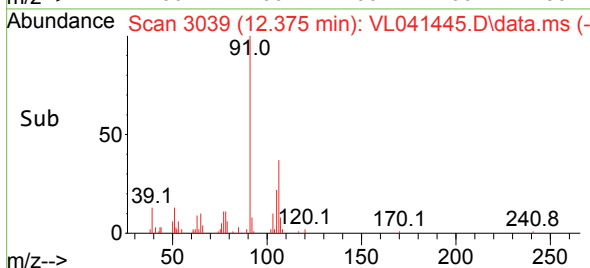
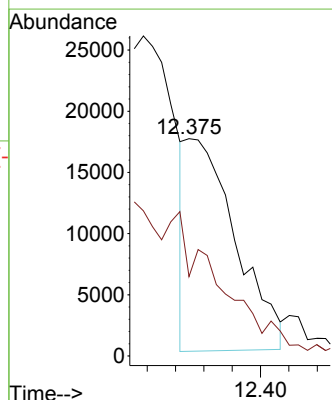
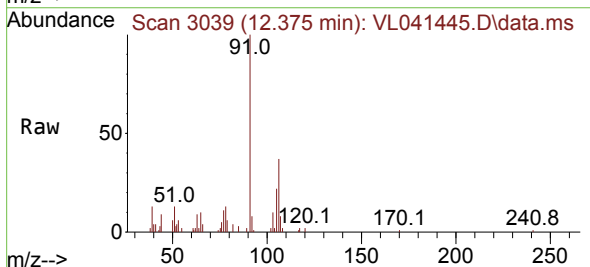
Instrument :
MSVOA_L
ClientSampleId :

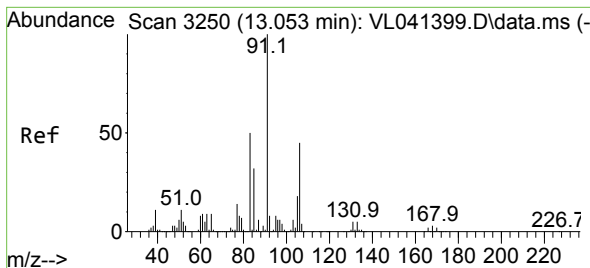
Tgt Ion: 91 Resp: 32030
Ion Ratio Lower Upper
91 100
106 28.7 25.8 38.8



#59
m/p-Xylene
Concen: 0.080 ppbv
RT: 12.375 min Scan# 3039
Delta R.T. 0.006 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

Tgt Ion: 91 Resp: 21214
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#

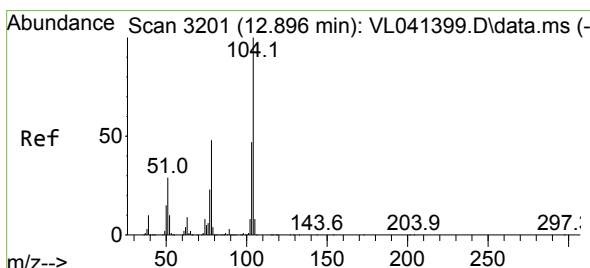
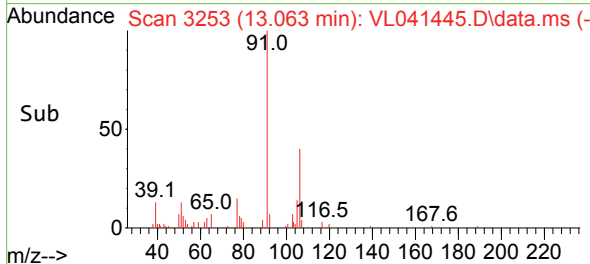
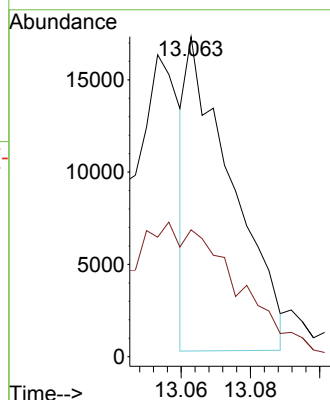
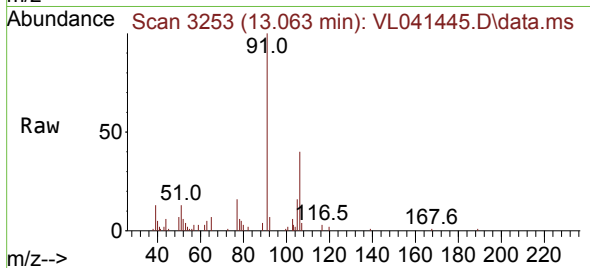




#60
o-Xylene
Concen: 0.061 ppbv
RT: 13.063 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

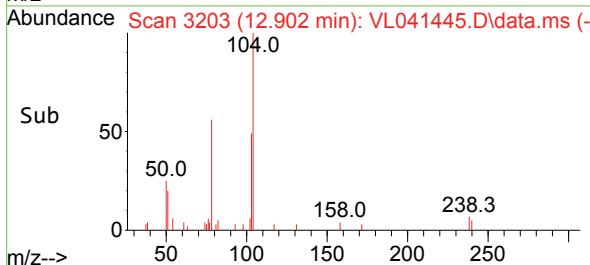
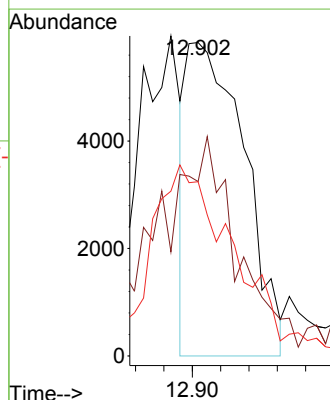
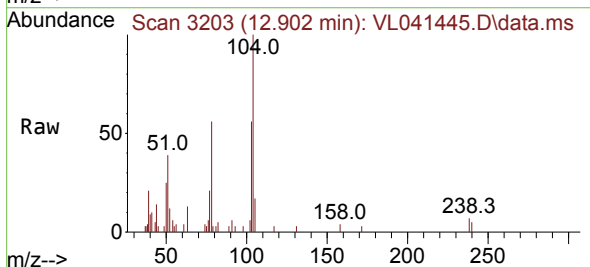
Instrument :
MSVOA_L
ClientSampleId :

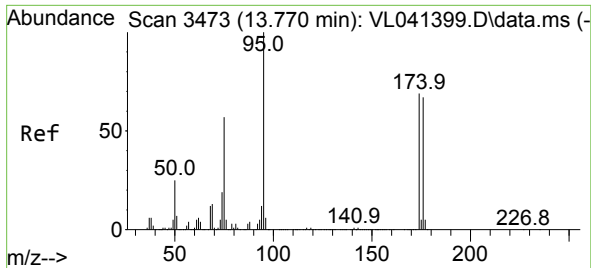
Tgt Ion: 91 Resp: 15498
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3#



#61
Styrene
Concen: 0.073 ppbv
RT: 12.902 min Scan# 3203
Delta R.T. 0.006 min
Lab File: VL041445.D
Acq: 30 Jul 2024 1:51

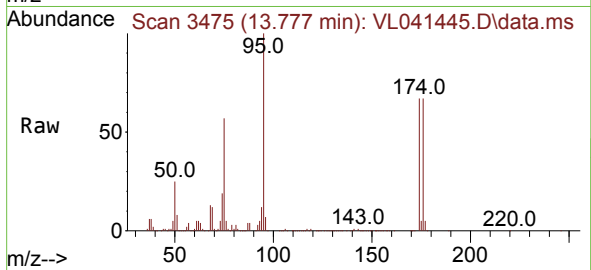
Tgt Ion:104 Resp: 8259
Ion Ratio Lower Upper
104 100
78 107.8 40.8 61.2#
103 0.0 38.2 57.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.801 ppbv
 RT: 13.777 min Scan# 34
 Delta R.T. 0.003 min
 Lab File: VL041445.D
 Acq: 30 Jul 2024 1:51

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 2022606

Ion	Ratio	Lower	Upper
95	100		
174	70.5	56.3	84.5
175	5.2	4.0	6.0

