

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040424\
 Data File : VL041135.D
 Acq On : 4 Apr 2024 21:32
 Operator : SY/MD
 Sample : P1953-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Apr 05 03:46:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 05 03:20:09 2024
 Response via : Initial Calibration

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

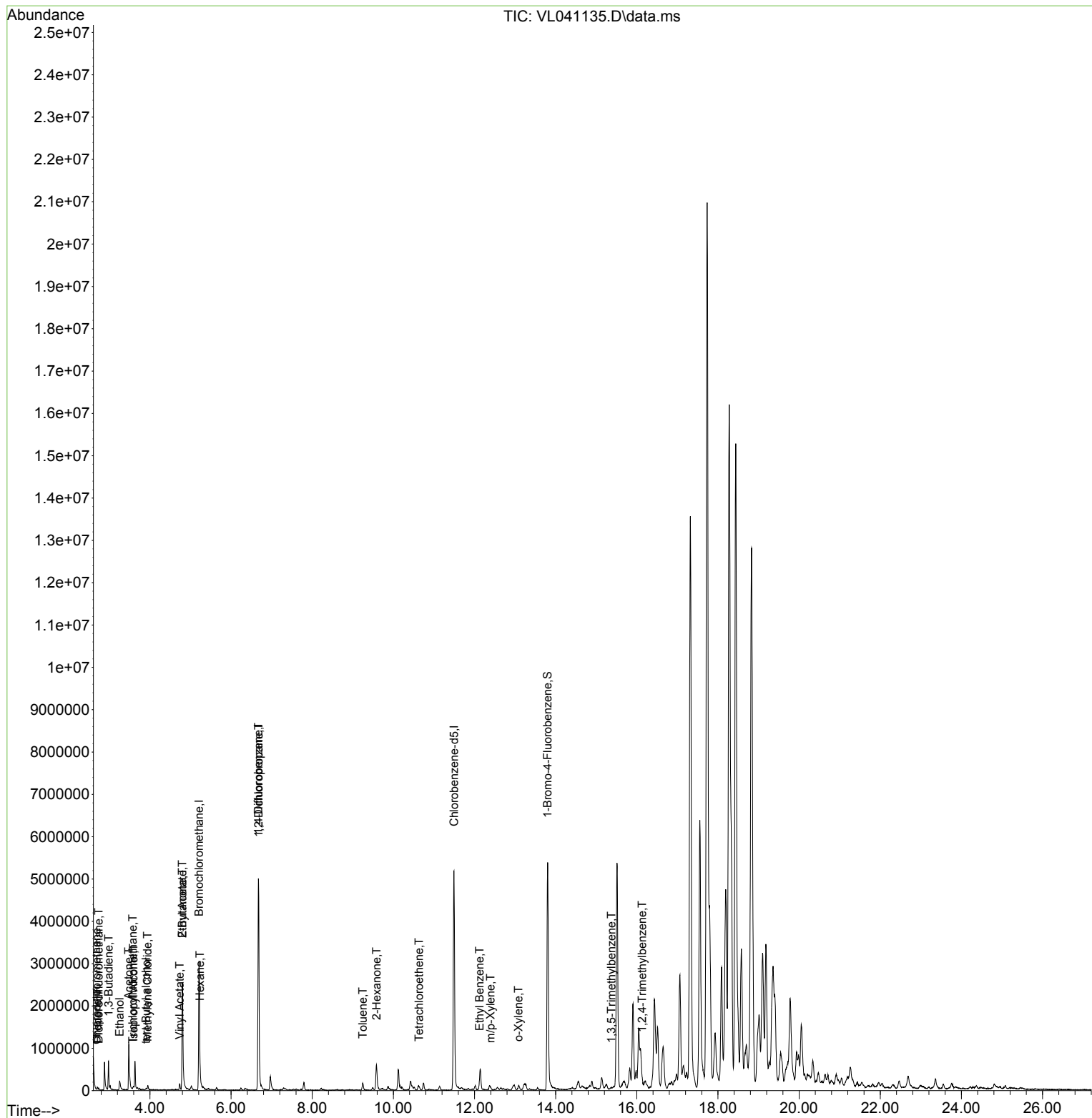
Internal Standards						
1) Bromochloromethane	5.211	49	1414184	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	3857070	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.494	117	3471280	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	2793477	9.967	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	28277	0.117	ppbv #	85
3) Chlorodifluoromethane	2.681	51	14608	0.067	ppbv	97
9) Propene	2.706	41	25571	0.369	ppbv	95
11) Trichlorofluoromethane	3.575	101	9980	0.045	ppbv #	71
13) Ethanol	3.253	45	271129	16.799	ppbv	99
15) Acetone	3.478	43	1092899	7.137	ppbv #	79
16) 1,3-Butadiene	2.980	39	155847	2.073	ppbv #	17
17) tert-Butyl alcohol	3.906	59	12460	0.090	ppbv #	62
19) Isopropyl Alcohol	3.594	45	82407	0.876	ppbv #	1
20) Methylene Chloride	3.944	84	14082	0.223	ppbv	96
23) Vinyl Acetate	4.732	43	44705	0.281	ppbv #	9
25) Ethyl Acetate	4.800	43	3143525	10.931	ppbv #	75
26) Hexane	5.230	57	35354	0.274	ppbv #	1
34) 2-Butanone	4.800	43	3143525	18.869	ppbv	100
39) 1,2-Dichloropropane	6.677	63	946489	8.428	ppbv #	23
51) 2-Hexanone	9.584	43	564509	2.848	ppbv #	100
52) Tetrachloroethene	10.632	164	5322	0.059	ppbv #	61
53) Toluene	9.246	91	124643	0.416	ppbv	95
58) Ethyl Benzene	12.127	91	11642	0.030	ppbv	90
59) m/p-Xylene	12.397	91	24203	0.070	ppbv #	32
60) o-Xylene	13.082	91	21489	0.065	ppbv #	31
73) 1,3,5-Trimethylbenzene	15.375	105	19390	0.060	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.130	105	97033	0.261	ppbv #	66

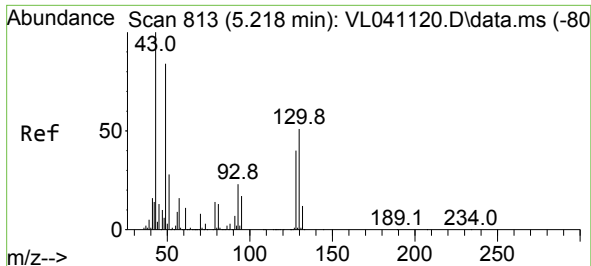
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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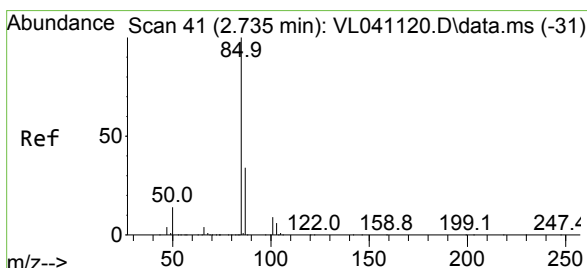
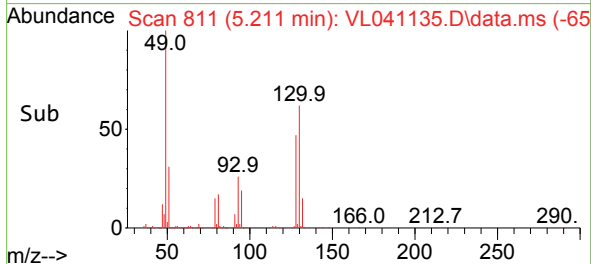
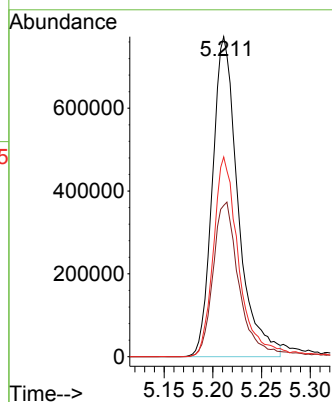
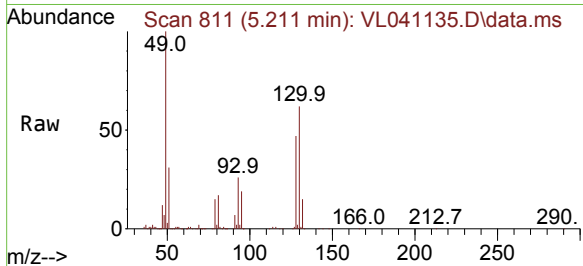




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

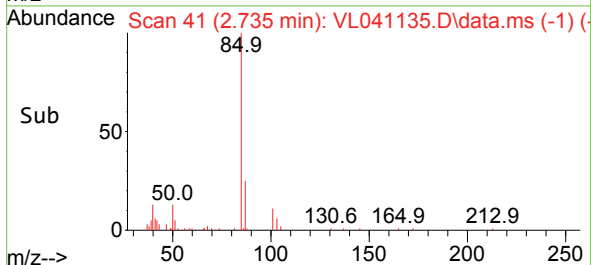
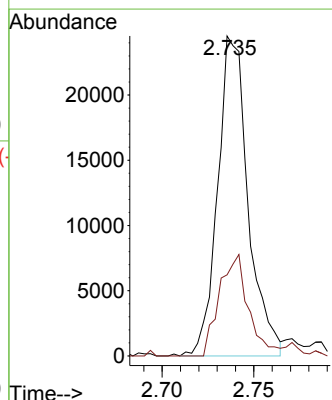
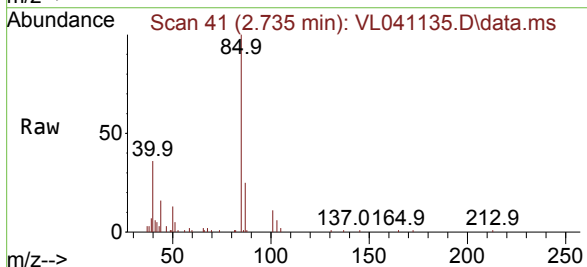
Instrument :
MSVOA_L
ClientSampleId :
SV2

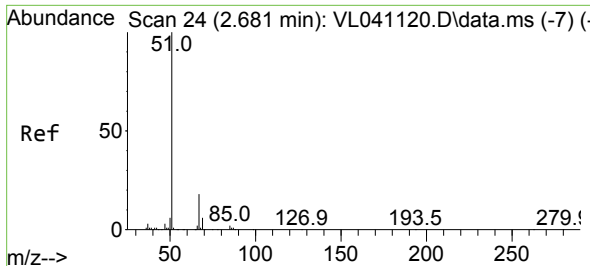
Tgt Ion: 49 Resp: 1414184
Ion Ratio Lower Upper
49 100
128 50.8 23.8 71.5
130 64.1 30.3 90.9



#2
Dichlorodifluoromethane
Concen: 0.117 ppbv
RT: 2.735 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 85 Resp: 28277
Ion Ratio Lower Upper
85 100
87 26.1 28.1 42.1#

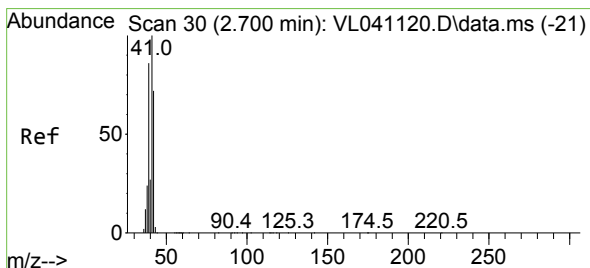
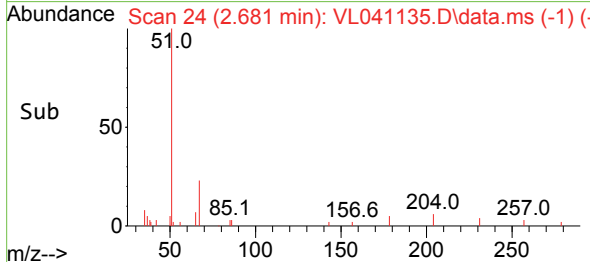
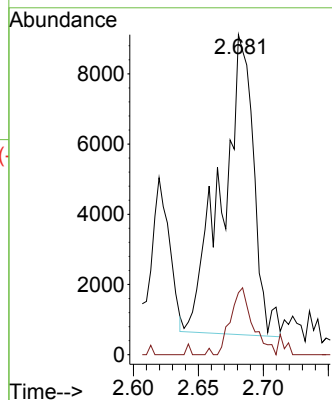
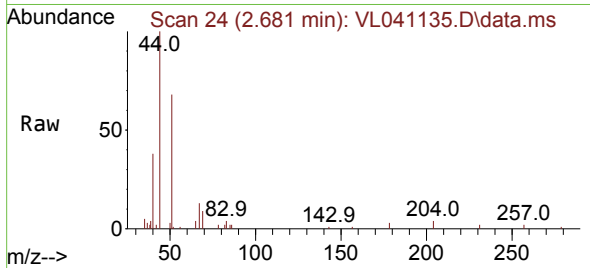




#3
Chlorodifluoromethane
Concen: 0.067 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.000 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

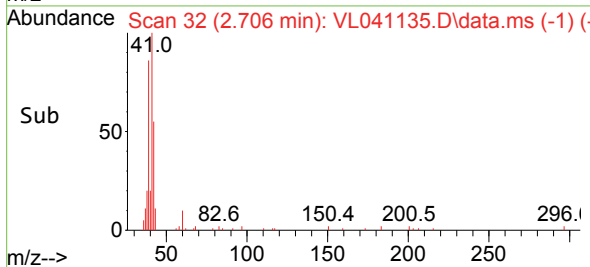
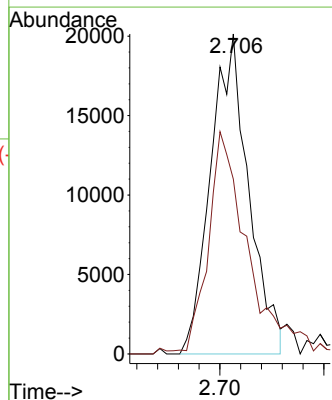
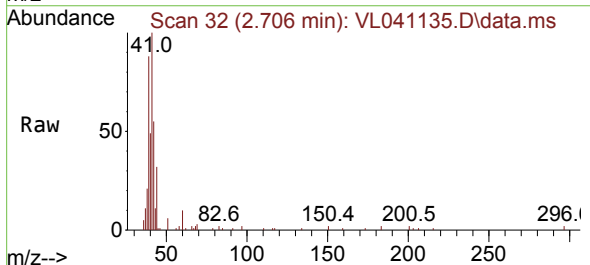
Instrument :
MSVOA_L
ClientSampleId :
SV2

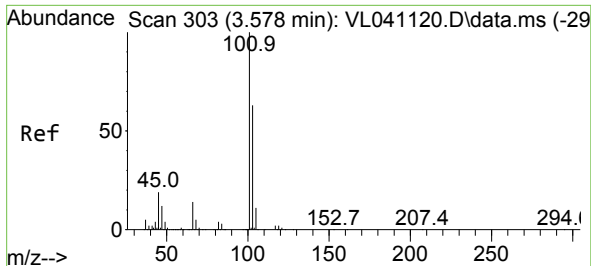
Tgt Ion: 51 Resp: 14608
Ion Ratio Lower Upper
51 100
67 16.9 14.5 21.7



#9
Propene
Concen: 0.369 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.006 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 41 Resp: 25571
Ion Ratio Lower Upper
41 100
42 73.6 55.9 83.9

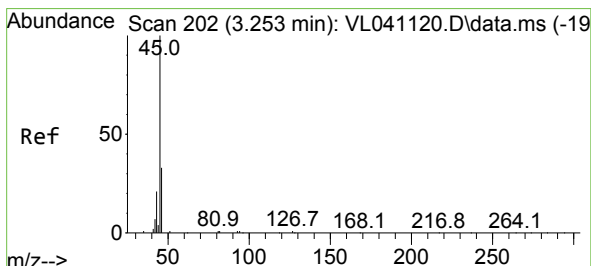
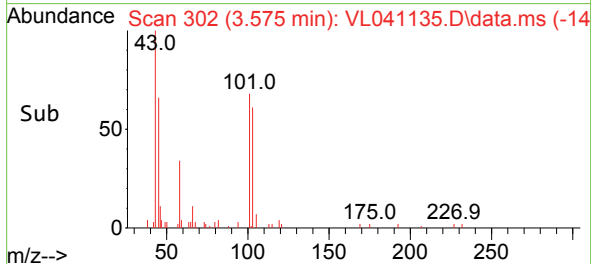
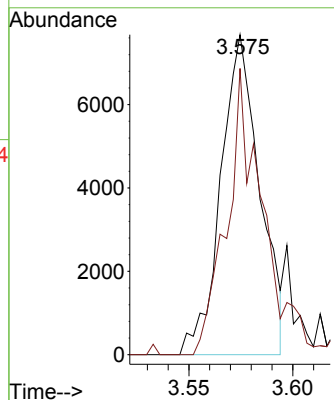
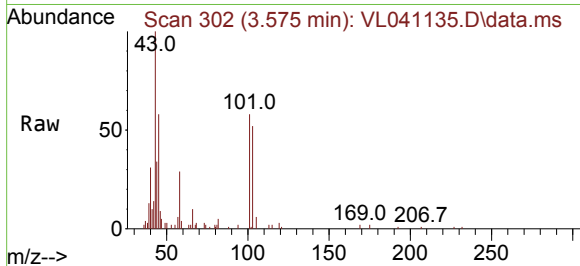




#11
Trichlorofluoromethane
Concen: 0.045 ppbv
RT: 3.575 min Scan# 303
Delta R.T. -0.003 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

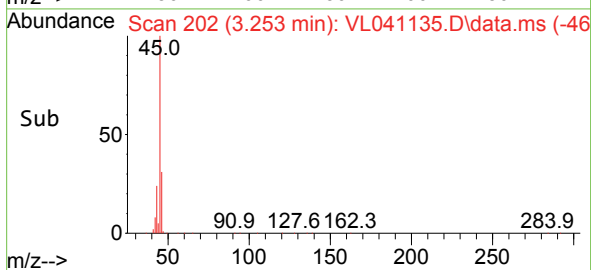
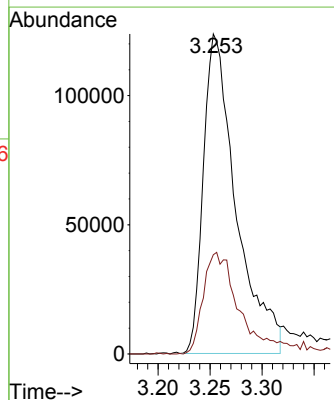
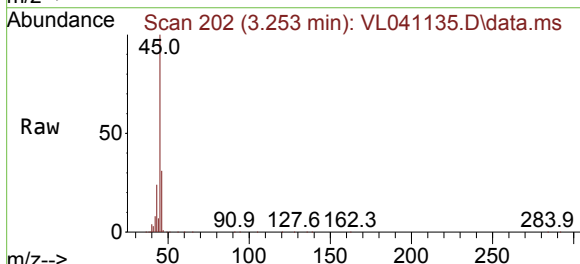
Instrument :
MSVOA_L
ClientSampleId :
SV2

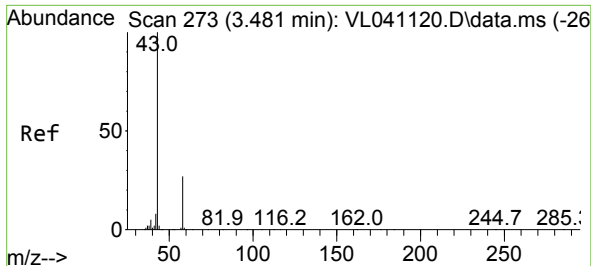
Tgt Ion:101 Resp: 9980
Ion Ratio Lower Upper
101 100
103 89.5 53.0 79.4#



#13
Ethanol
Concen: 16.799 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.000 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 45 Resp: 271129
Ion Ratio Lower Upper
45 100
46 37.0 14.6 58.2





#15

Acetone

Concen: 7.137 ppbv

RT: 3.478 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

Instrument :

MSVOA_L

ClientSampleId :

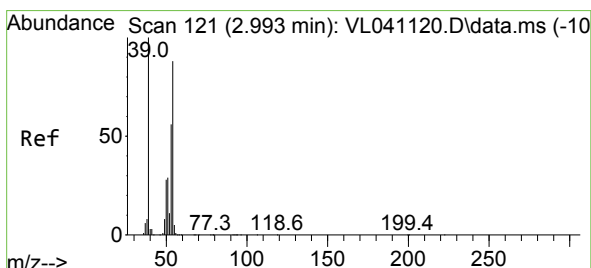
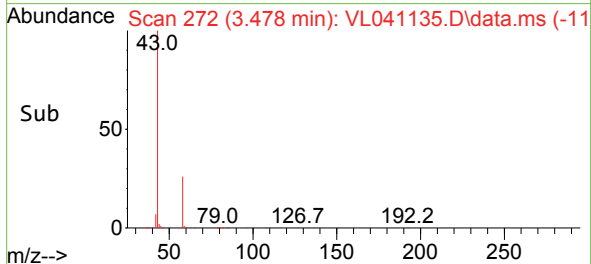
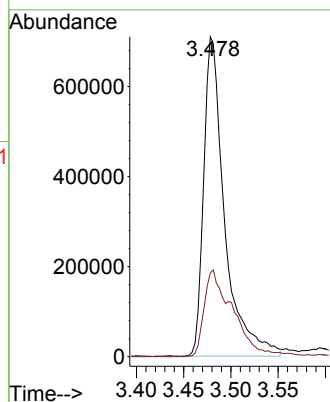
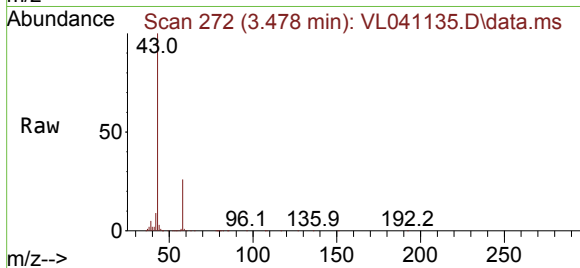
SV2

Tgt Ion: 43 Resp: 1092899

Ion Ratio Lower Upper

43 100

58 37.9 21.7 32.5#



#16

1,3-Butadiene

Concen: 2.073 ppbv

RT: 2.980 min Scan# 117

Delta R.T. -0.013 min

Lab File: VL041135.D

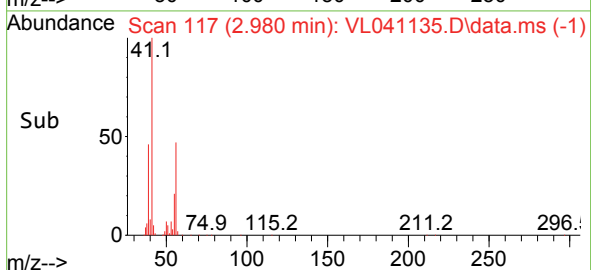
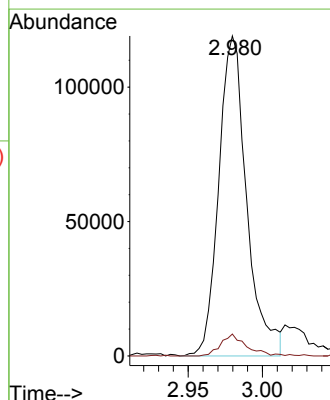
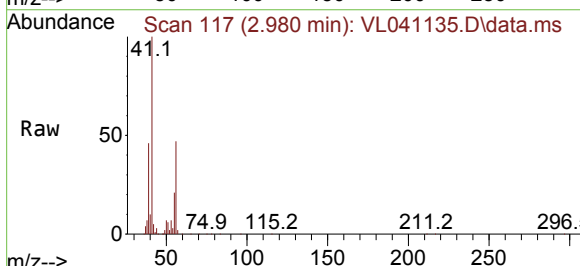
Acq: 4 Apr 2024 21:32

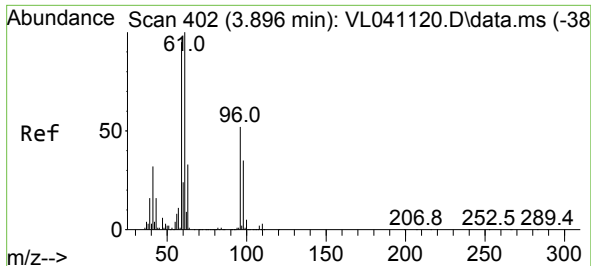
Tgt Ion: 39 Resp: 155847

Ion Ratio Lower Upper

39 100

54 6.5 64.0 96.0#





#17

tert-Butyl alcohol

Concen: 0.090 ppbv

RT: 3.906 min Scan# 402

Delta R.T. 0.010 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

Instrument :

MSVOA_L

ClientSampleId :

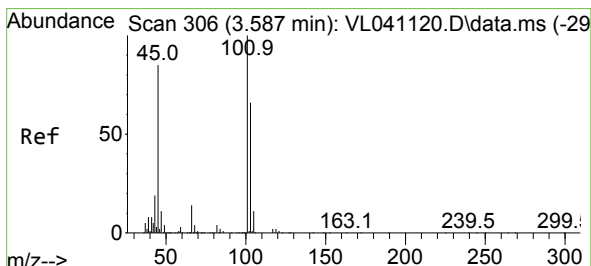
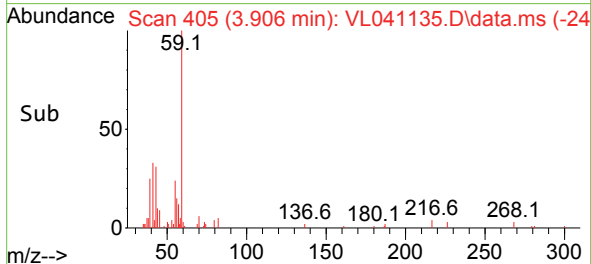
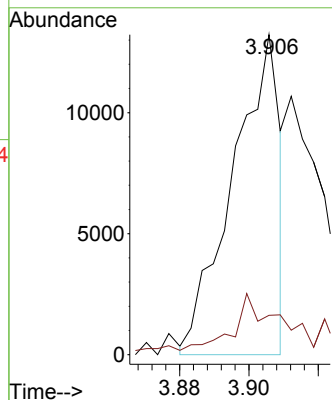
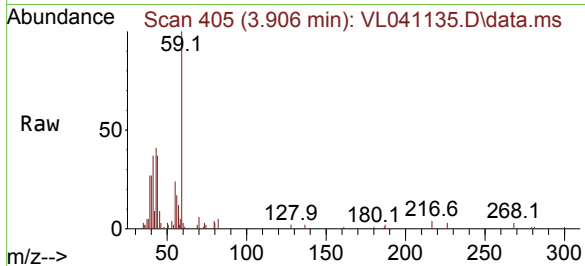
SV2

Tgt Ion: 59 Resp: 12460

Ion Ratio Lower Upper

59 100

57 25.9 9.0 13.6#



#19

Isopropyl Alcohol

Concen: 0.876 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.007 min

Lab File: VL041135.D

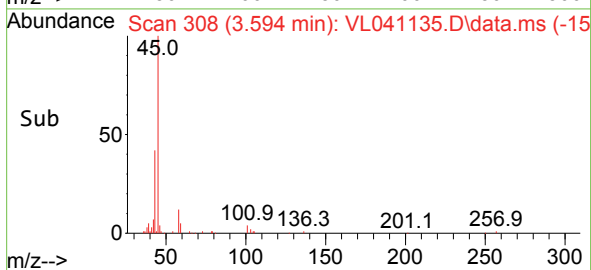
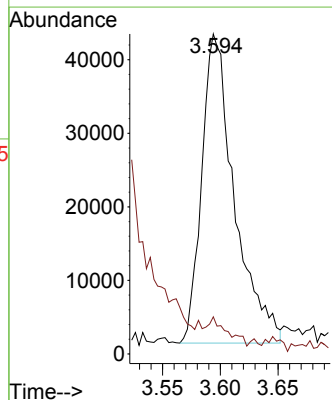
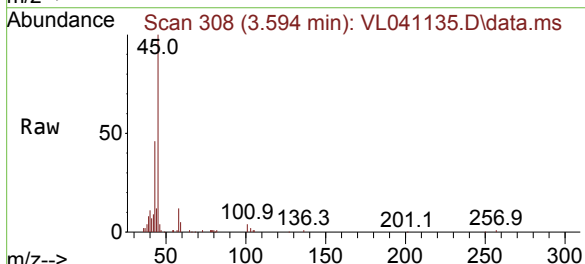
Acq: 4 Apr 2024 21:32

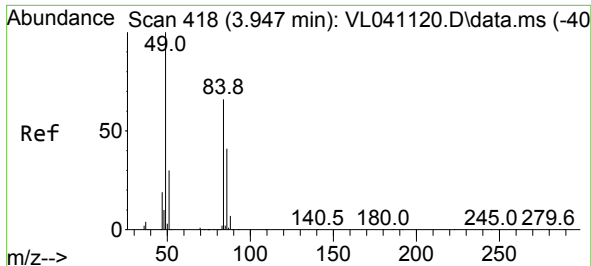
Tgt Ion: 45 Resp: 82407

Ion Ratio Lower Upper

45 100

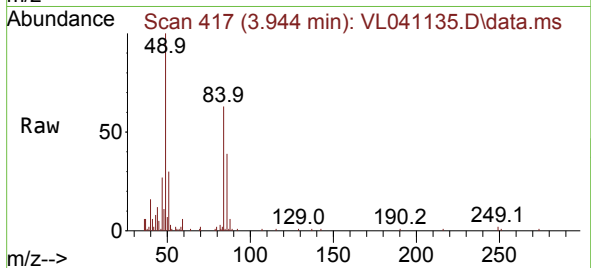
58 503.2 2.2 3.4#



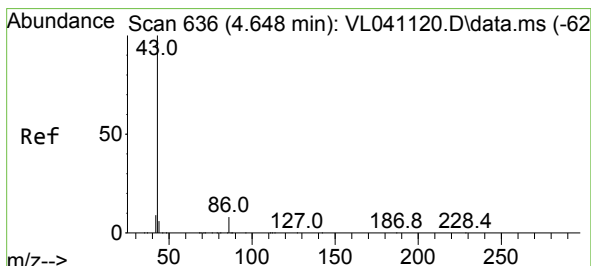
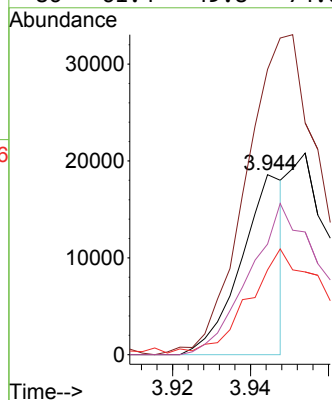
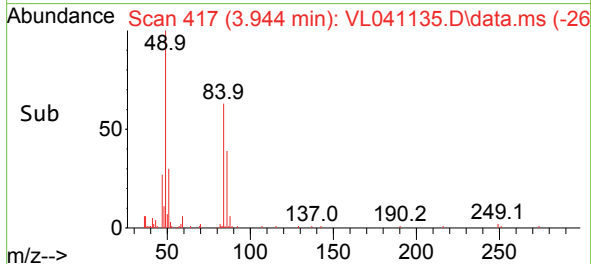


#20
Methylene Chloride
Concen: 0.223 ppbv
RT: 3.944 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Instrument :
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ClientSampleId :
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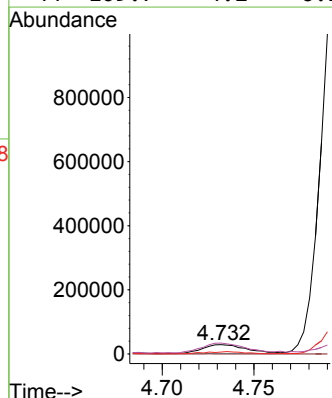
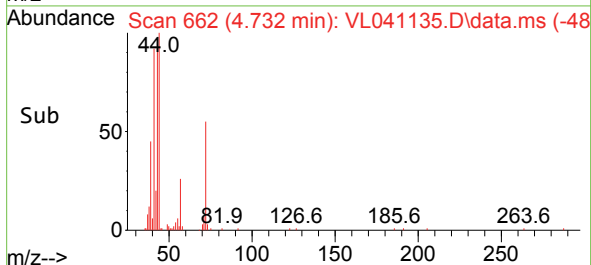
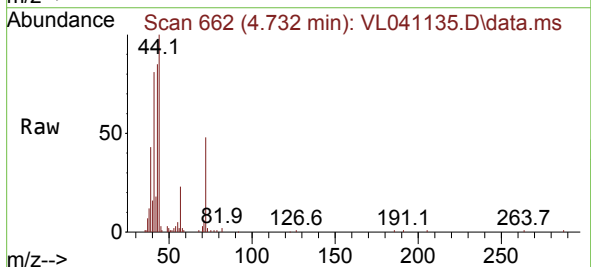


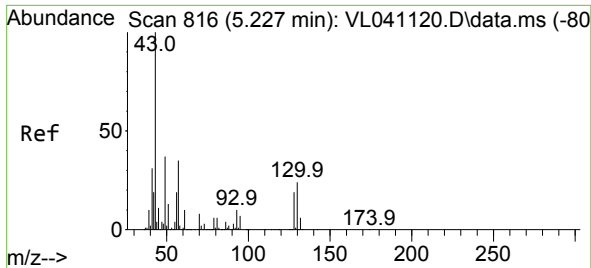
Tgt Ion: 84 Resp: 14082
Ion Ratio Lower Upper
84 100
49 154.3 117.0 175.6
51 43.9 34.9 52.3
86 61.4 49.8 74.6



#23
Vinyl Acetate
Concen: 0.281 ppbv
RT: 4.732 min Scan# 662
Delta R.T. 0.084 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 43 Resp: 44705
Ion Ratio Lower Upper
43 100
86 0.0 5.4 8.2#
42 18.3 8.0 12.0#
44 109.7 4.2 6.2#

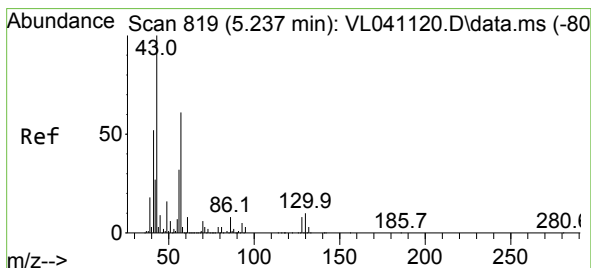
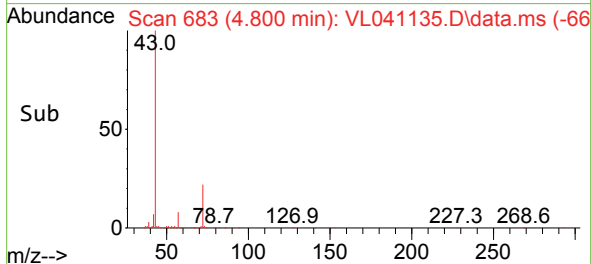
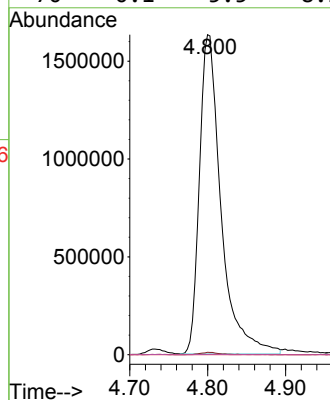
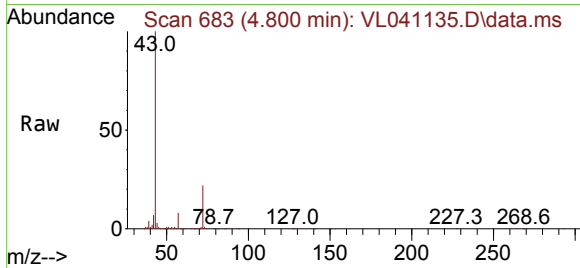




#25
Ethyl Acetate
Concen: 10.931 ppbv
RT: 4.800 min Scan# 61
Delta R.T. -0.428 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

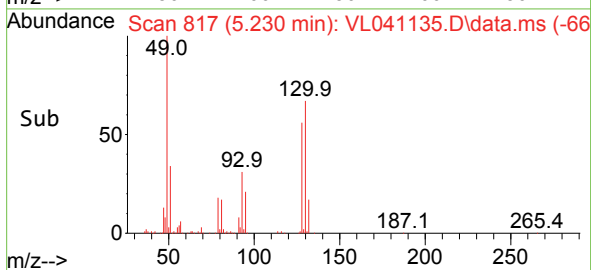
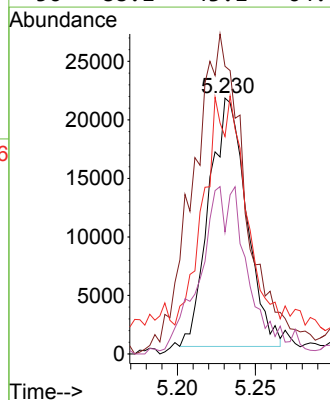
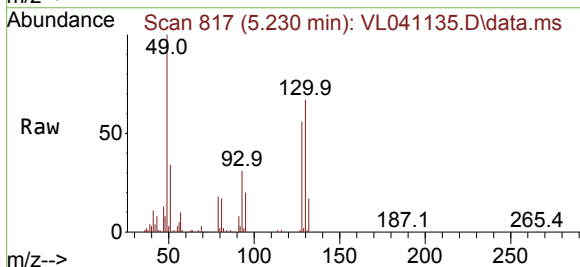
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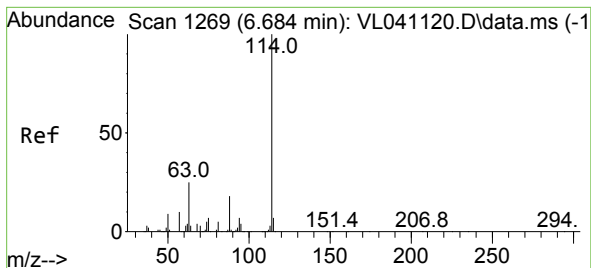
Tgt Ion: 43 Resp: 3143525
Ion Ratio Lower Upper
43 100
45 0.7 8.2 12.2#
61 0.0 8.2 12.2#
70 0.1 5.5 8.3#



#26
Hexane
Concen: 0.274 ppbv
RT: 5.230 min Scan# 817
Delta R.T. -0.006 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 57 Resp: 35354
Ion Ratio Lower Upper
57 100
41 186.4 73.8 110.6#
43 0.0 184.2 276.2#
56 88.1 43.1 64.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

Instrument :

MSVOA_L

ClientSampleId :

SV2

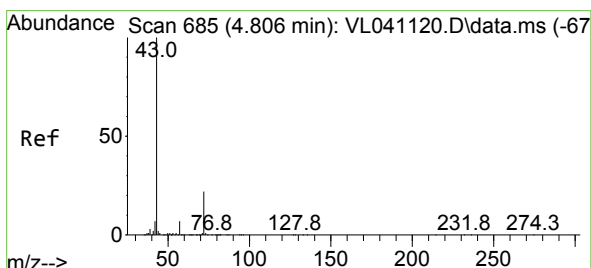
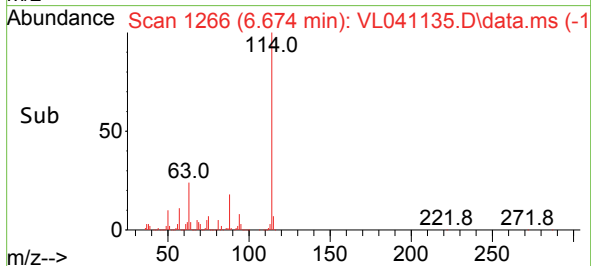
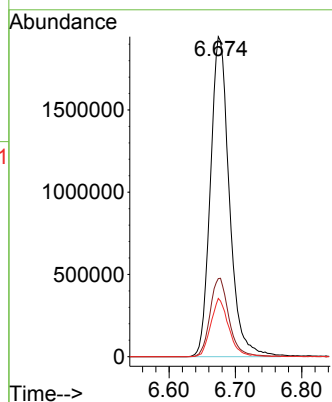
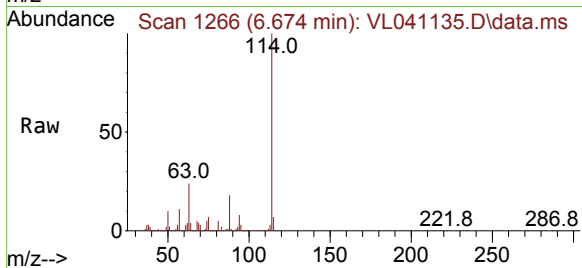
Tgt Ion:114 Resp: 3857070

Ion Ratio Lower Upper

114 100

63 24.8 21.0 31.6

88 17.5 14.6 22.0



#34

2-Butanone

Concen: 18.869 ppbv

RT: 4.800 min Scan# 683

Delta R.T. -0.006 min

Lab File: VL041135.D

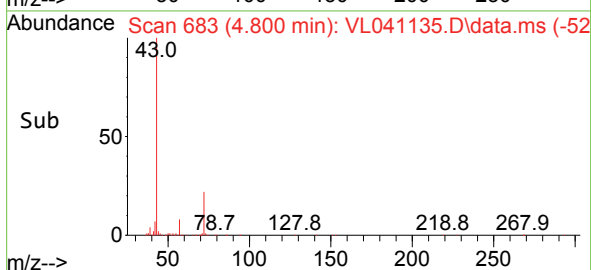
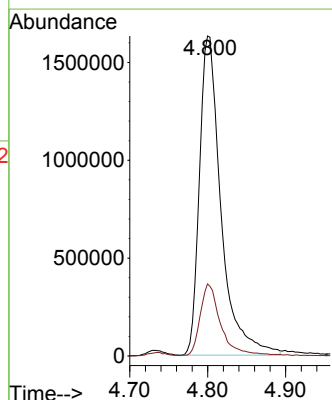
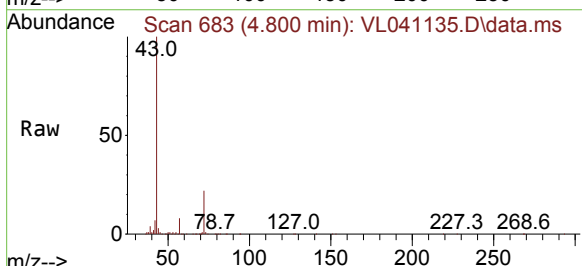
Acq: 4 Apr 2024 21:32

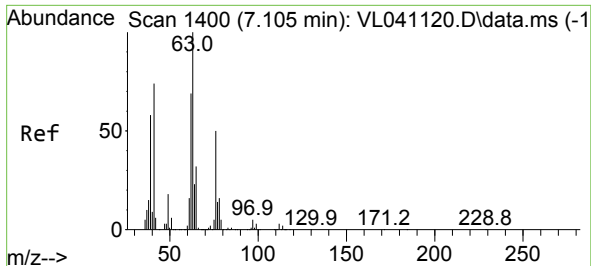
Tgt Ion: 43 Resp: 3143525

Ion Ratio Lower Upper

43 100

72 21.7 17.4 26.0





#39

1,2-Dichloropropane

Concen: 8.428 ppbv

RT: 6.677 min Scan# 1

Delta R.T. -0.428 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

Instrument :

MSVOA_L

ClientSampleId :

SV2

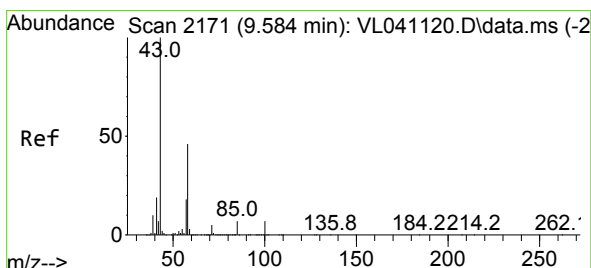
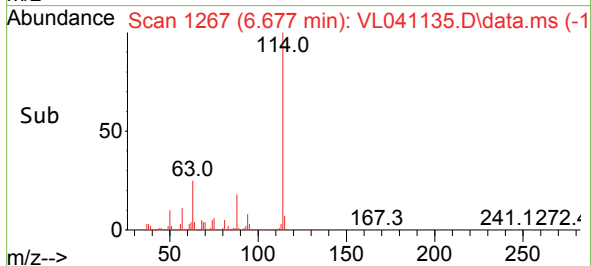
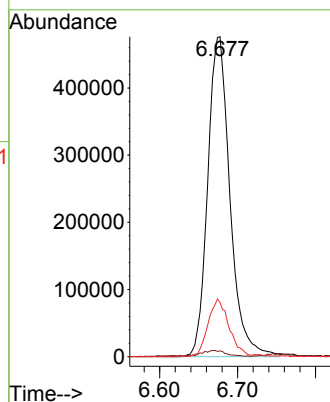
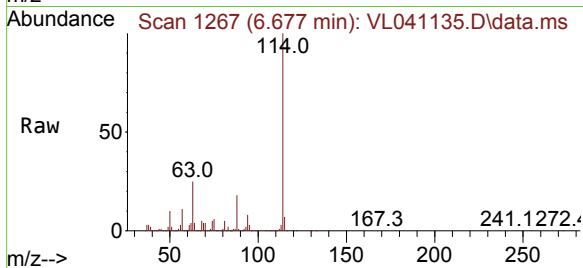
Tgt Ion: 63 Resp: 946489

Ion Ratio Lower Upper

63 100

41 1.4 62.2 93.4#

62 16.9 57.0 85.4#



#51

2-Hexanone

Concen: 2.848 ppbv

RT: 9.584 min Scan# 2171

Delta R.T. 0.000 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

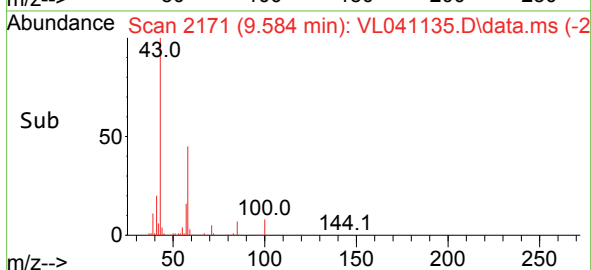
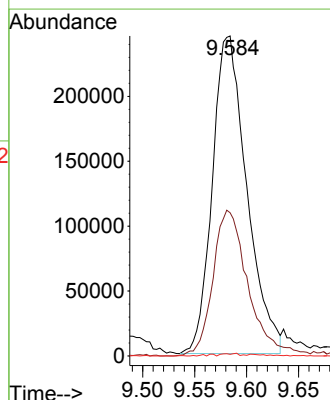
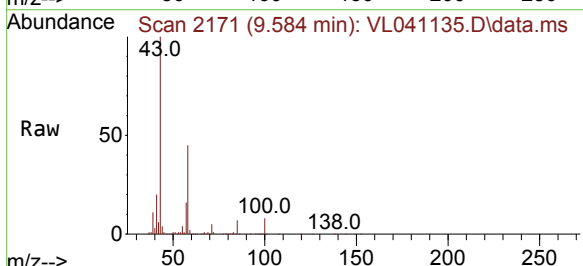
Tgt Ion: 43 Resp: 564509

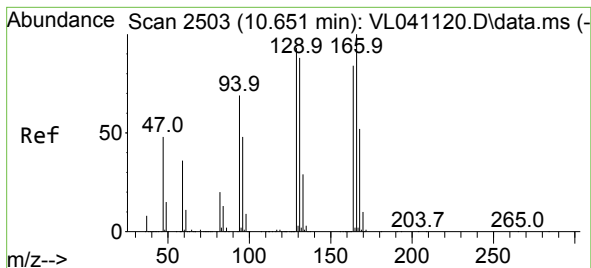
Ion Ratio Lower Upper

43 100

58 47.0 37.4 56.2

98 0.8 0.4 0.6#





#52

Tetrachloroethene

Concen: 0.059 ppbv

RT: 10.632 min Scan# 2497

Delta R.T. -0.019 min

Lab File: VL041135.D

Acq: 4 Apr 2024 21:32

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:164 Resp: 5322

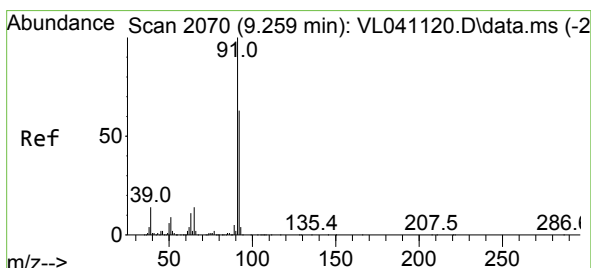
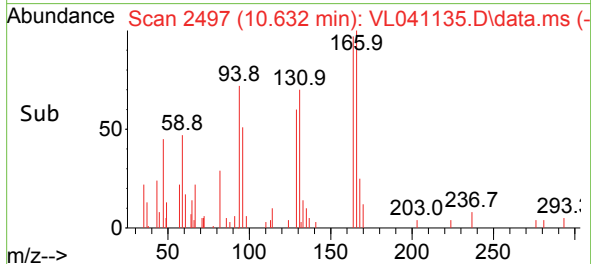
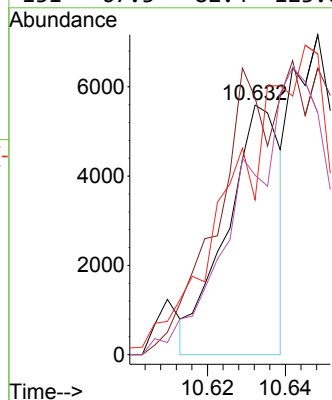
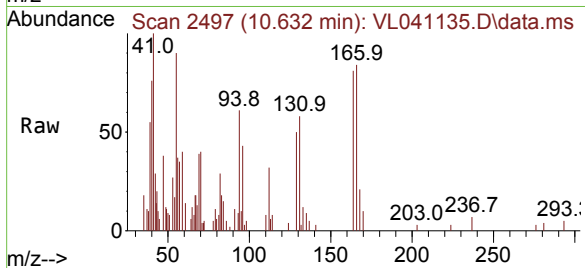
Ion Ratio Lower Upper

164 100

166 96.2 100.6 150.8#

129 46.8 87.2 130.8#

131 67.3 82.4 123.6#



#53

Toluene

Concen: 0.416 ppbv

RT: 9.246 min Scan# 2066

Delta R.T. -0.013 min

Lab File: VL041135.D

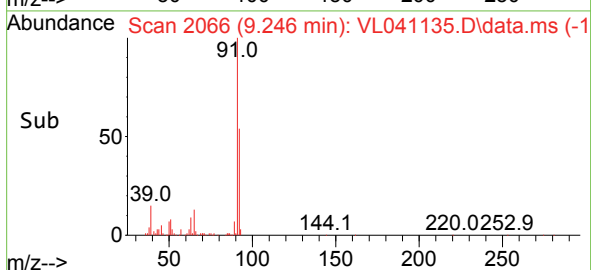
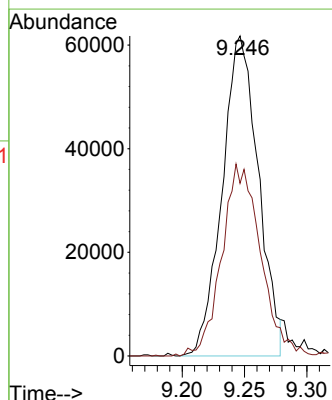
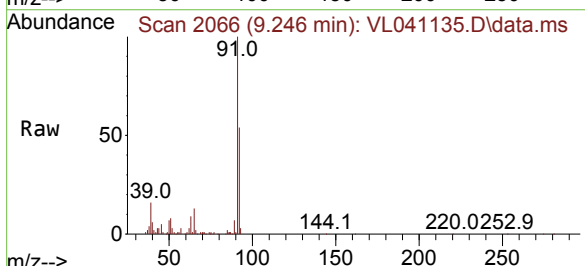
Acq: 4 Apr 2024 21:32

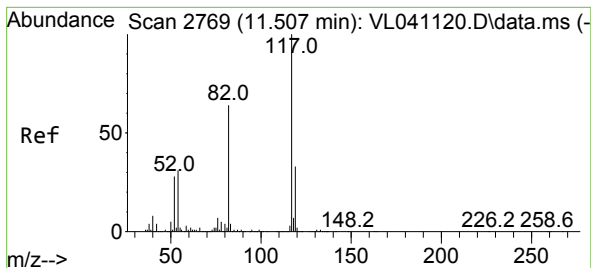
Tgt Ion: 91 Resp: 124643

Ion Ratio Lower Upper

91 100

92 64.5 48.9 73.3

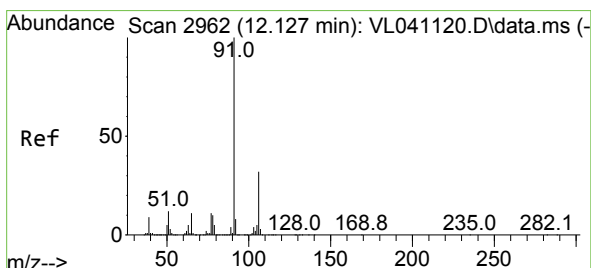
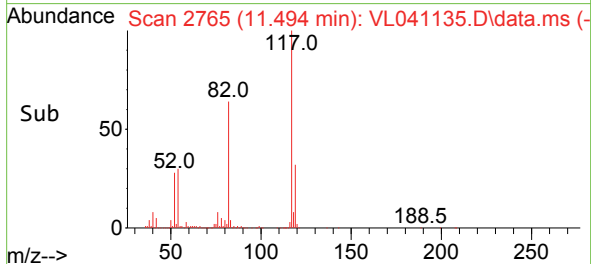
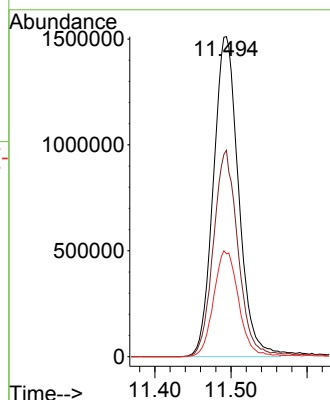
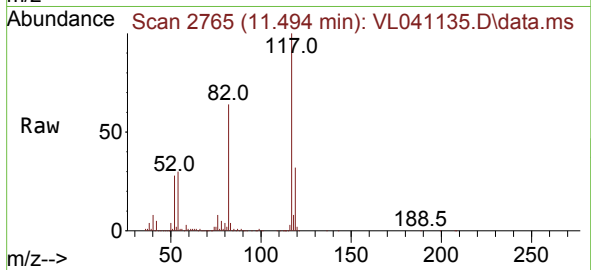




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

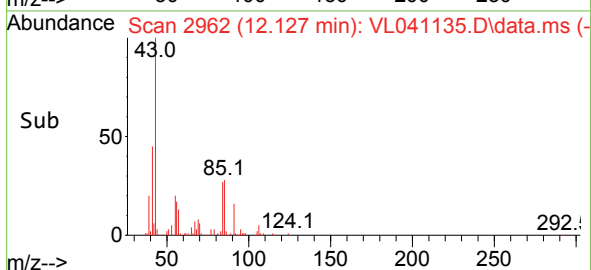
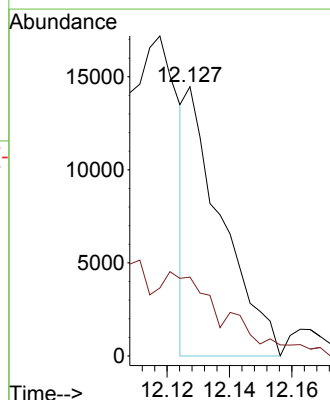
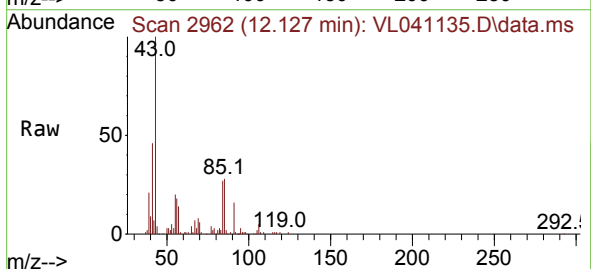
Instrument :
MSVOA_L
ClientSampleId :
SV2

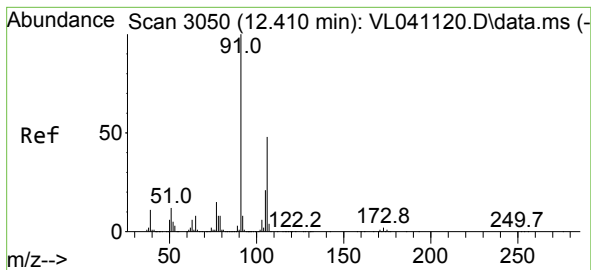
Tgt Ion:117 Resp: 3471280
Ion Ratio Lower Upper
117 100
82 64.7 51.4 77.2
119 33.5 23.7 35.5



#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 12.127 min Scan# 2962
Delta R.T. 0.000 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 91 Resp: 11642
Ion Ratio Lower Upper
91 100
106 25.2 24.6 36.8

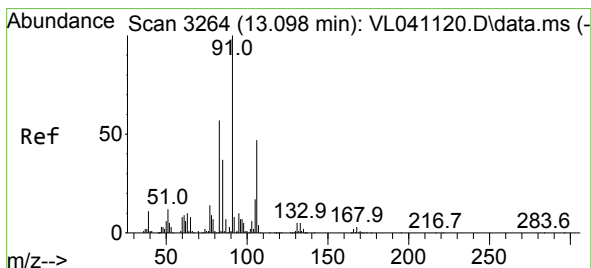
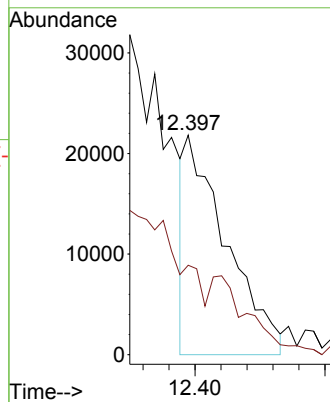
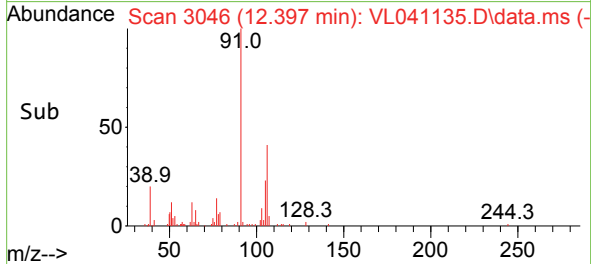
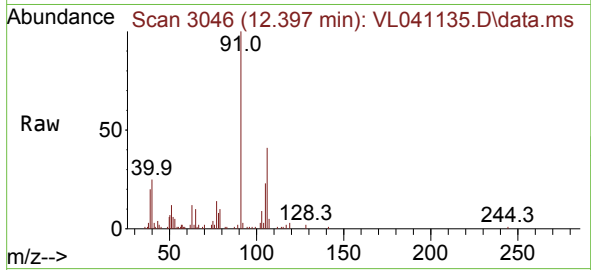




#59
m/p-Xylene
Concen: 0.070 ppbv
RT: 12.397 min Scan# 3050
Delta R.T. -0.013 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

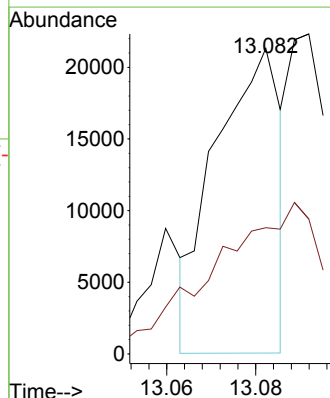
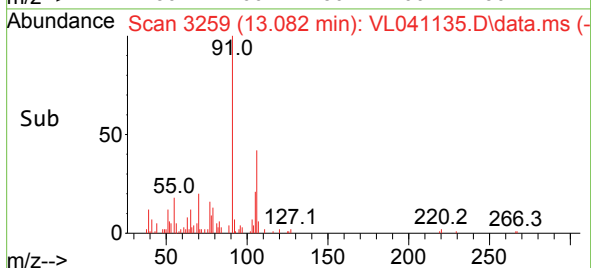
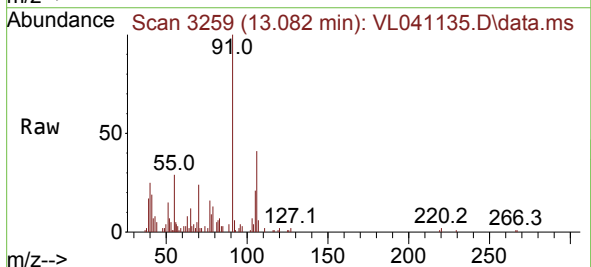
Instrument :
MSVOA_L
ClientSampleId :
SV2

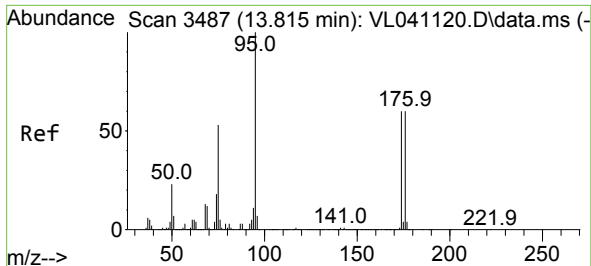
Tgt Ion: 91 Resp: 24203
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#60
o-Xylene
Concen: 0.065 ppbv
RT: 13.082 min Scan# 3259
Delta R.T. -0.016 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

Tgt Ion: 91 Resp: 21489
Ion Ratio Lower Upper
91 100
106 0.0 22.4 67.3#

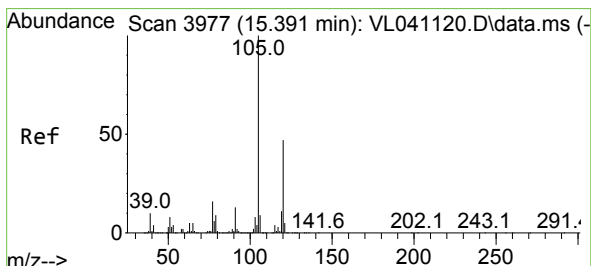
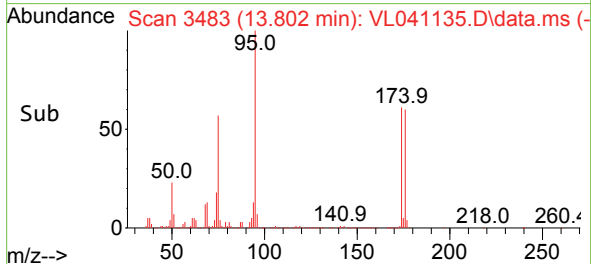
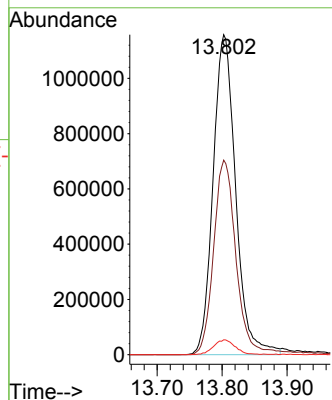
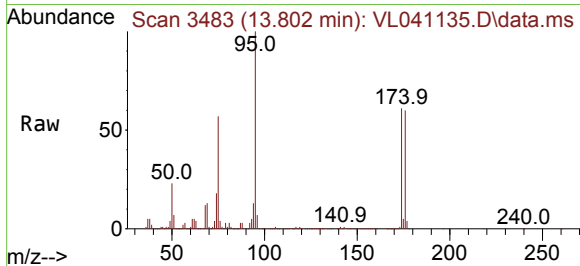




#68
1-Bromo-4-Fluorobenzene
Concen: 9.967 ppbv
RT: 13.802 min Scan# 3483
Delta R.T. -0.013 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

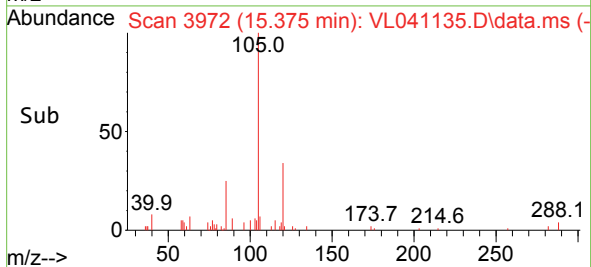
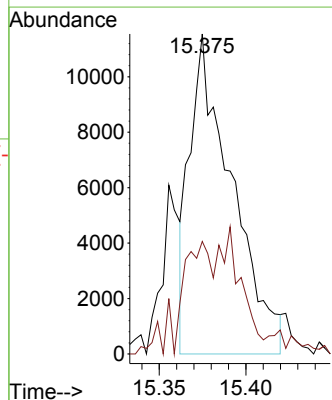
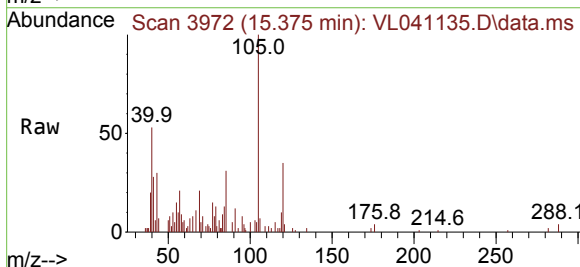
Instrument :
MSVOA_L
ClientSampleId :
SV2

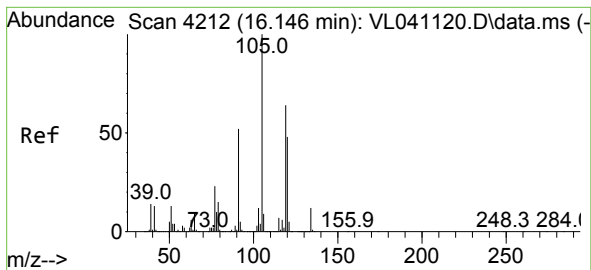
Tgt Ion: 95 Resp: 2793477
Ion Ratio Lower Upper
95 100
174 61.7 47.8 71.8
175 4.6 3.5 5.3



#73
1,3,5-Trimethylbenzene
Concen: 0.060 ppbv
RT: 15.375 min Scan# 3972
Delta R.T. -0.016 min
Lab File: VL041135.D
Acq: 4 Apr 2024 21:32

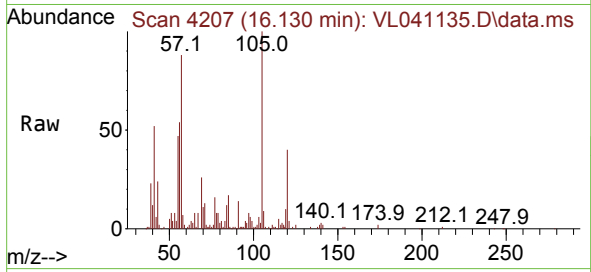
Tgt Ion: 105 Resp: 19390
Ion Ratio Lower Upper
105 100
120 36.1 38.7 58.1#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.261 ppbv
 RT: 16.130 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: VL041135.D
 Acq: 4 Apr 2024 21:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion:	105	Resp:	97033
Ion	Ratio	Lower	Upper
105	100		
120	39.3	40.4	60.6#
91	12.2	41.4	62.0#
77	13.1	19.0	28.4#

