

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040828.D
 Acq On : 9 Nov 2023 9:20
 Operator : SY/MD
 Sample : 05276-03DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-3DL

Quant Time: Nov 10 04:49:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

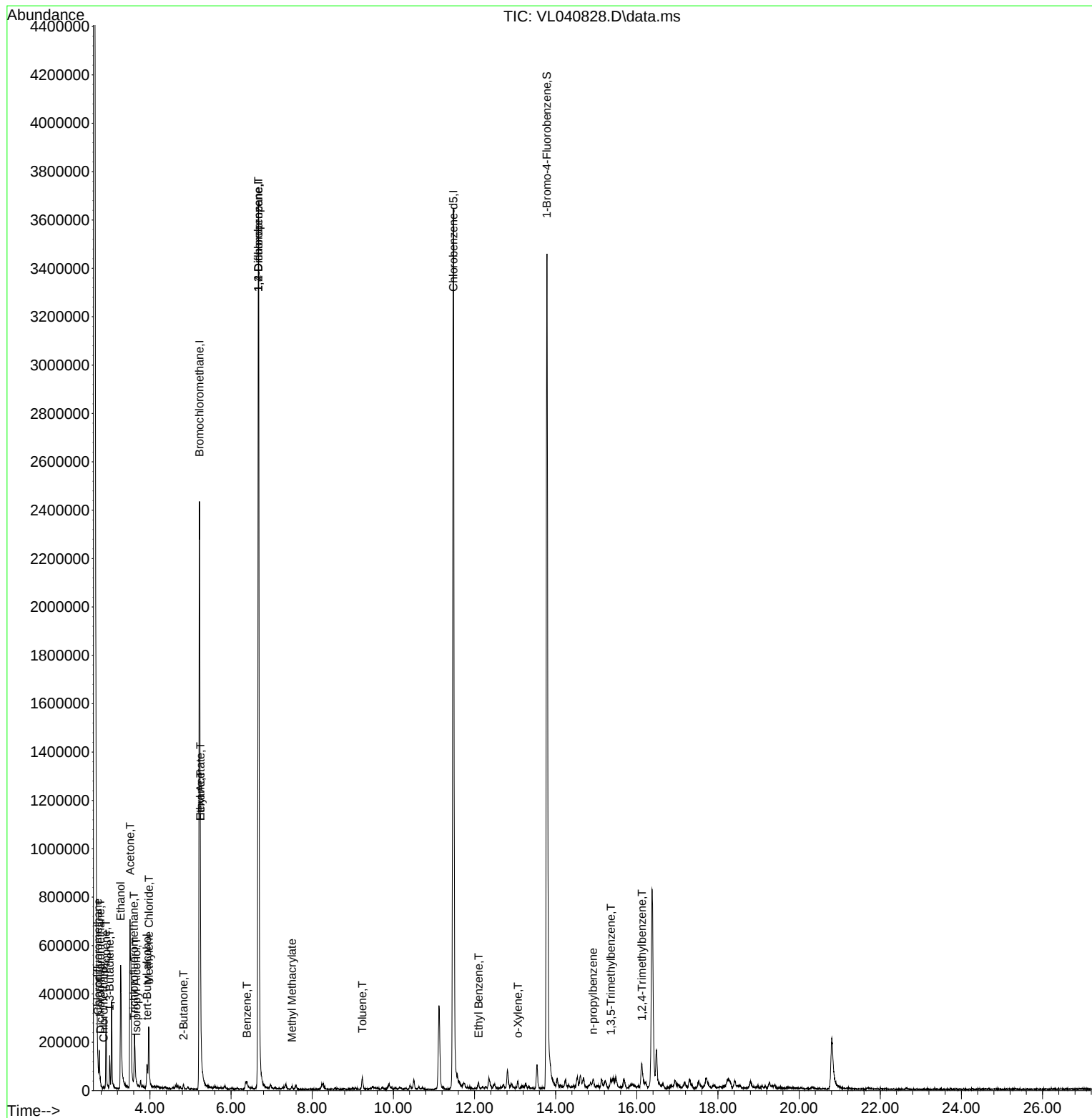
Internal Standards						
1) Bromochloromethane	5.221	49	1127567	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2775768	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2394190	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1789136	10.156	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.777	85	9240	0.047	ppbv #	85
3) Chlorodifluoromethane	2.719	51	11981	0.072	ppbv #	88
4) Chloromethane	2.861	50	4016	0.061	ppbv	95
9) Propene	2.919	41	68561	1.114	ppbv	97
11) Trichlorofluoromethane	3.607	101	5480	0.036	ppbv	90
13) Ethanol	3.279	45	561346	40.402	ppbv	99
15) Acetone	3.510	43	795789	6.827	ppbv	92
16) 1,3-Butadiene	3.009	39	34637	0.566	ppbv #	15
17) tert-Butyl alcohol	3.931	59	64999	0.544	ppbv #	93
19) Isopropyl Alcohol	3.664	45	7508	0.100	ppbv #	37
20) Methylene Chloride	3.973	84	78166	1.610	ppbv	87
25) Ethyl Acetate	5.243	43	108936	0.427	ppbv #	78
26) Hexane	5.243	57	147258	1.262	ppbv #	41
34) 2-Butanone	4.825	43	12504	0.100	ppbv #	55
36) Benzene	6.394	78	7125	0.033	ppbv #	74
39) 1,2-Dichloropropane	6.674	63	716482	8.590	ppbv #	27
43) Methyl Methacrylate	7.500	69	2714	0.032	ppbv #	1
53) Toluene	9.237	91	30317	0.119	ppbv	97
58) Ethyl Benzene	12.101	91	10184	0.034	ppbv #	77
60) o-Xylene	13.072	91	8858	0.037	ppbv #	10
64) n-propylbenzene	14.925	120	3382	0.035	ppbv #	1
73) 1,3,5-Trimethylbenzene	15.365	105	8800	0.036	ppbv	95
74) 1,2,4-Trimethylbenzene	16.124	105	39218	0.147	ppbv #	68

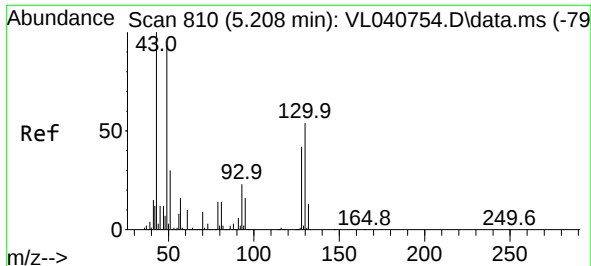
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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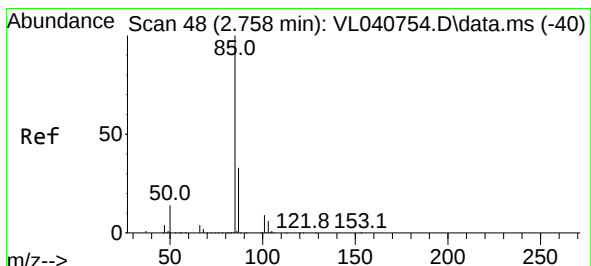
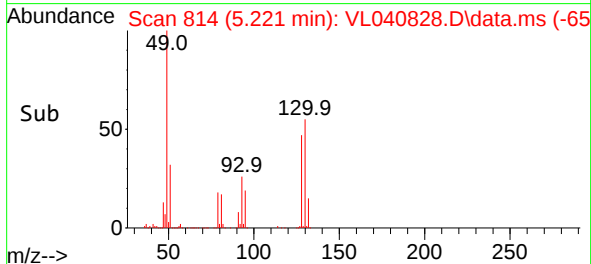
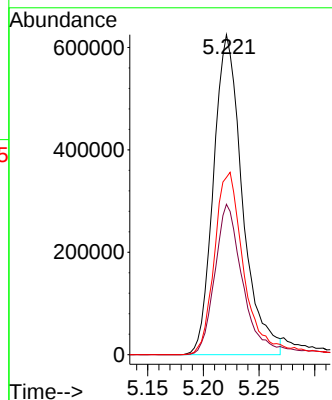
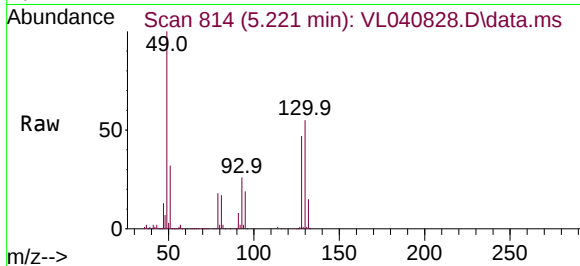




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.221 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

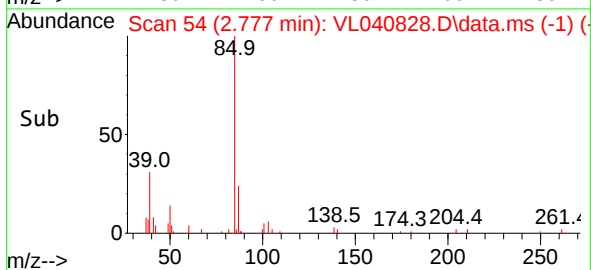
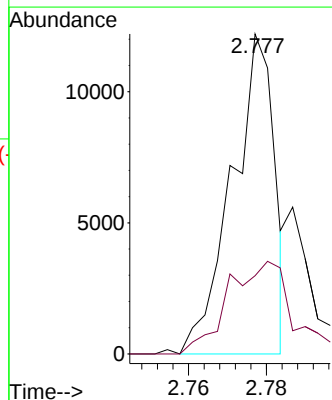
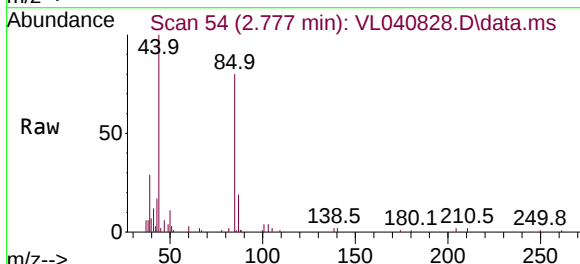
Instrument :
MSVOA_L
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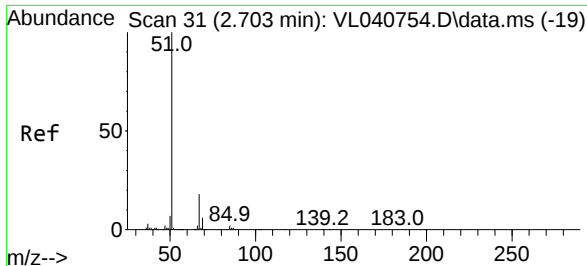
Tgt Ion: 49 Resp: 1127567
Ion Ratio Lower Upper
49 100
128 47.2 23.9 71.7
130 60.5 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.047 ppbv
RT: 2.777 min Scan# 54
Delta R.T. 0.007 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 85 Resp: 9240
Ion Ratio Lower Upper
85 100
87 24.1 26.0 39.0#

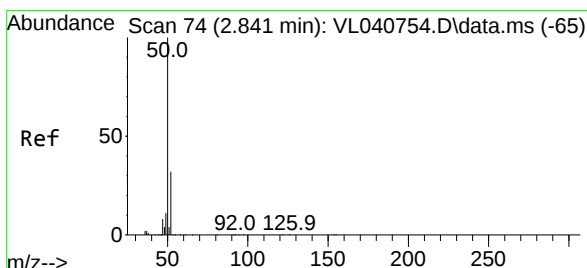
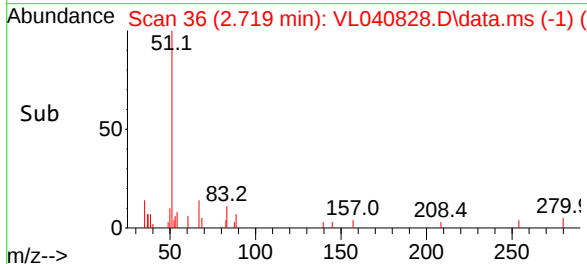
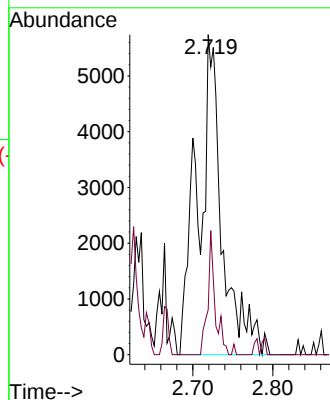
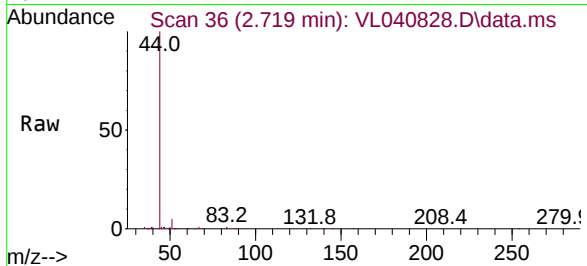




#3
Chlorodifluoromethane
Concen: 0.072 ppbv
RT: 2.719 min Scan# 30
Delta R.T. 0.003 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

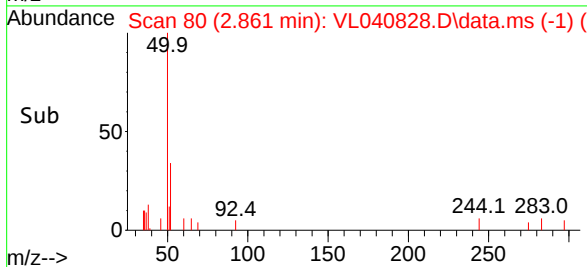
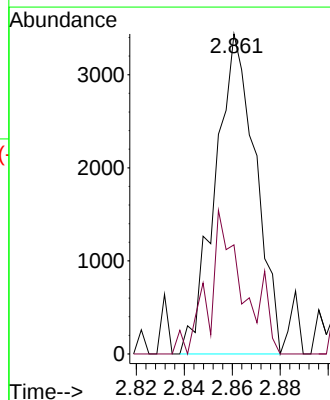
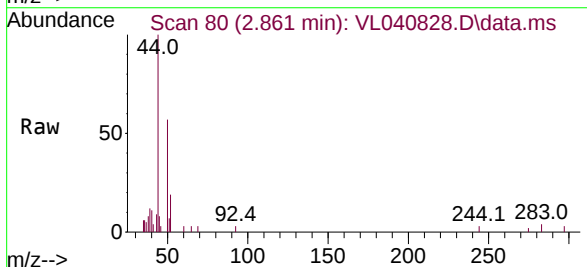
Instrument :
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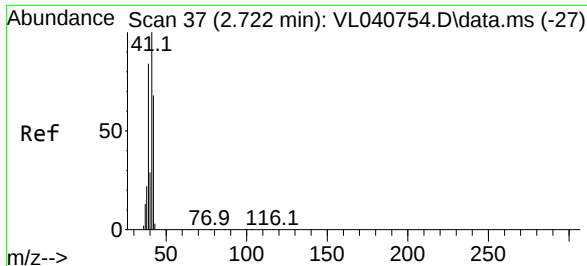
Tgt Ion: 51 Resp: 11981
Ion Ratio Lower Upper
51 100
67 12.2 13.8 20.6#



#4
Chloromethane
Concen: 0.061 ppbv
RT: 2.861 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 50 Resp: 4016
Ion Ratio Lower Upper
50 100
52 34.1 25.3 37.9

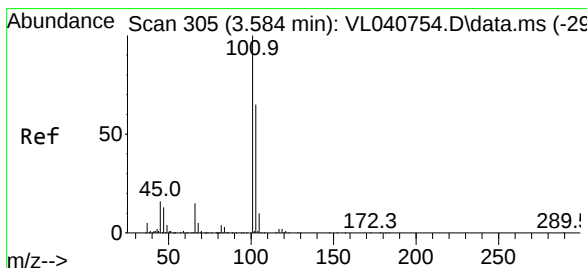
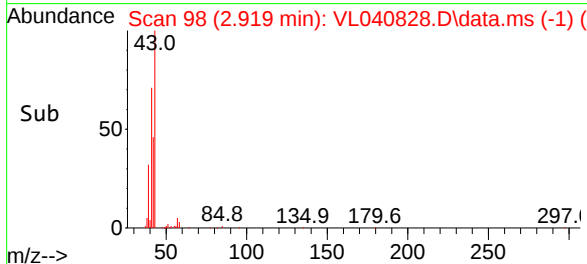
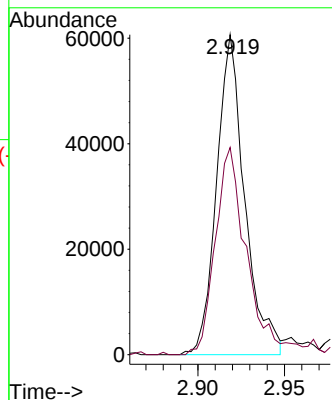
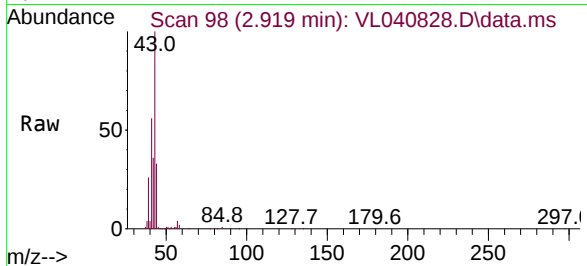




#9
 Propene
 Concen: 1.114 ppbv
 RT: 2.919 min Scan# 91
 Delta R.T. 0.183 min
 Lab File: VL040828.D
 Acq: 9 Nov 2023 9:20

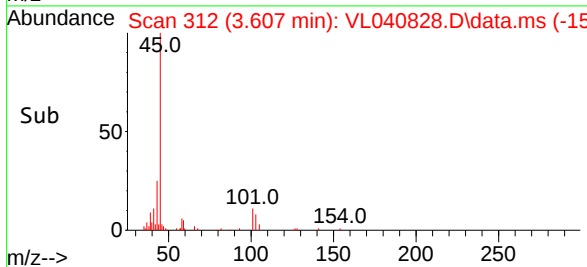
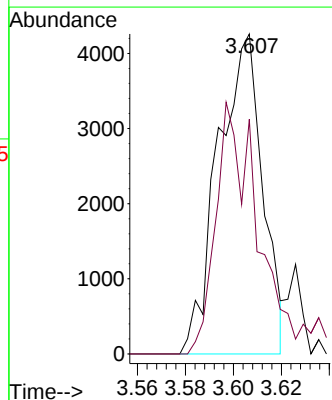
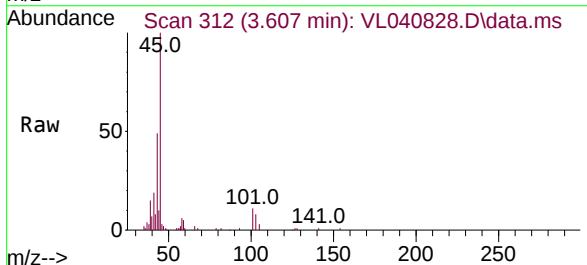
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-3DL

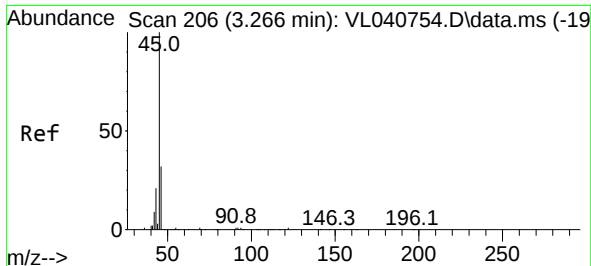
Tgt Ion: 41 Resp: 68561
 Ion Ratio Lower Upper
 41 100
 42 73.9 57.1 85.7



#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 3.607 min Scan# 312
 Delta R.T. 0.013 min
 Lab File: VL040828.D
 Acq: 9 Nov 2023 9:20

Tgt Ion: 101 Resp: 5480
 Ion Ratio Lower Upper
 101 100
 103 73.3 52.2 78.2

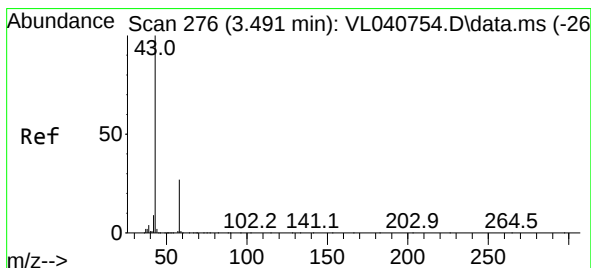
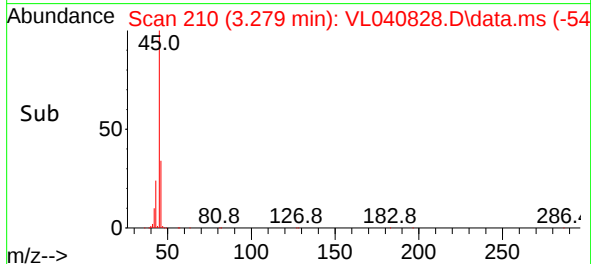
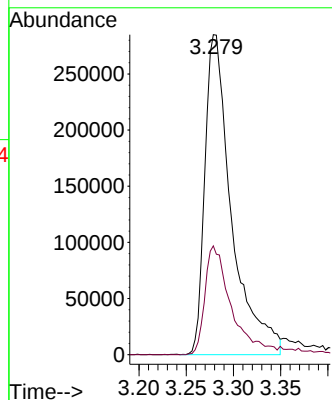
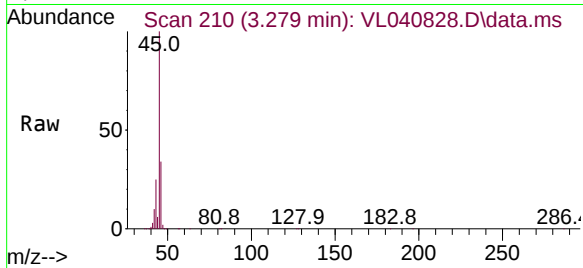




#13
Ethanol
Concen: 40.402 ppbv
RT: 3.279 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

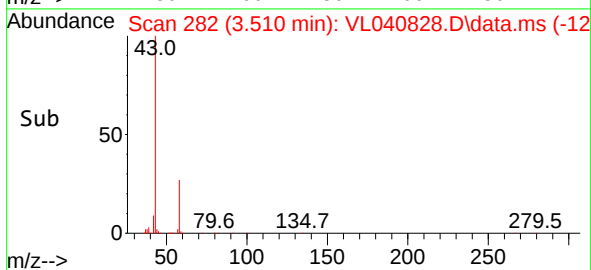
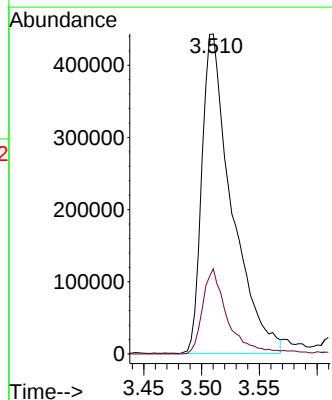
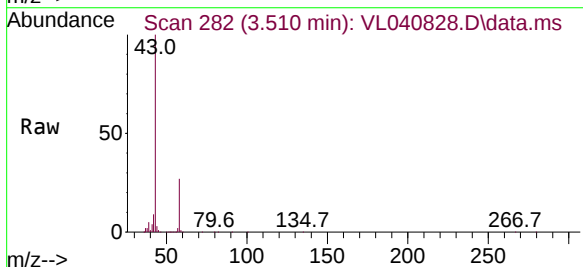
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

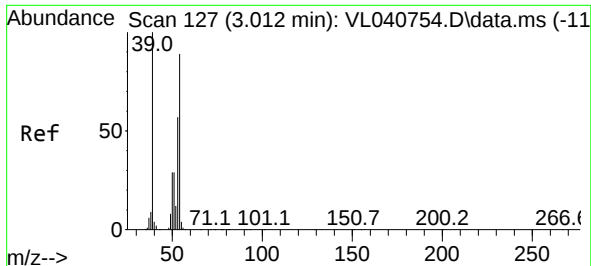
Tgt Ion: 45 Resp: 561346
Ion Ratio Lower Upper
45 100
46 35.8 14.6 58.2



#15
Acetone
Concen: 6.827 ppbv
RT: 3.510 min Scan# 282
Delta R.T. 0.010 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 43 Resp: 795789
Ion Ratio Lower Upper
43 100
58 22.7 21.6 32.4

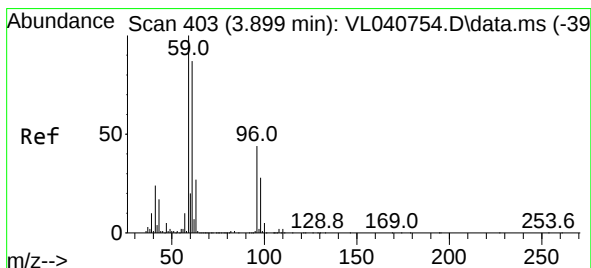
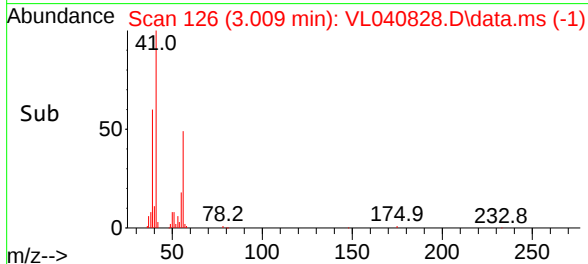
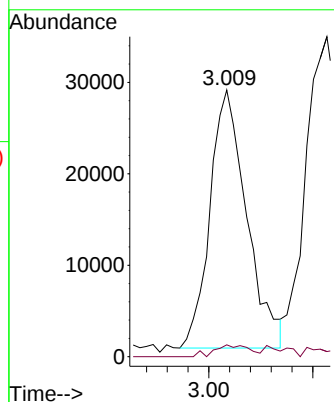
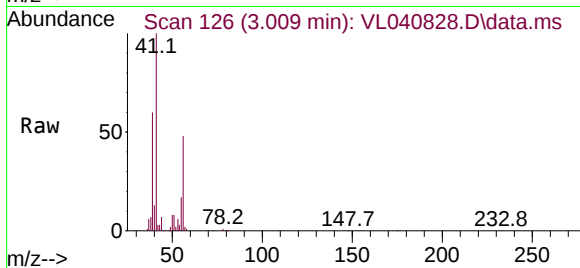




#16
1,3-Butadiene
Concen: 0.566 ppbv
RT: 3.009 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

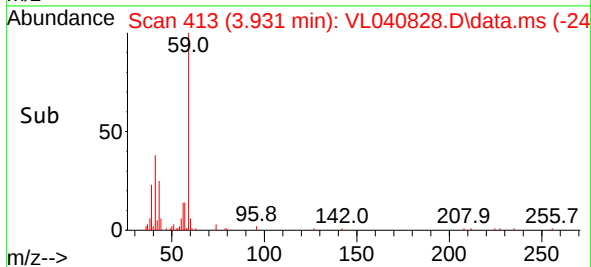
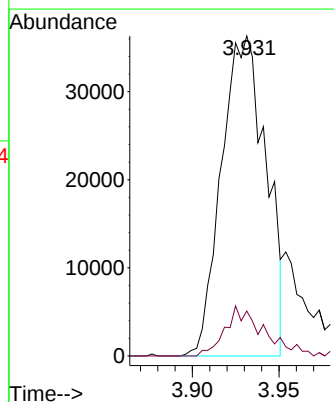
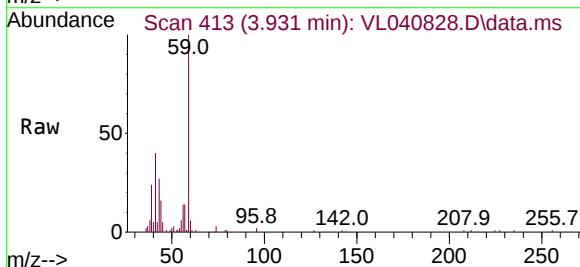
Instrument :
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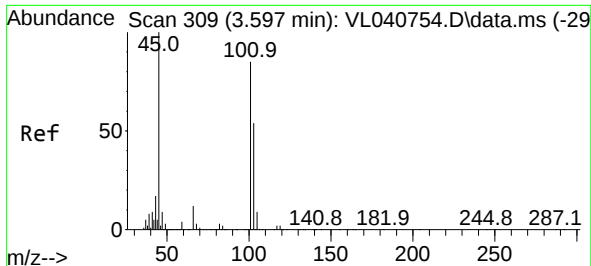
Tgt Ion: 39 Resp: 34637
Ion Ratio Lower Upper
39 100
54 4.1 63.0 94.6#



#17
tert-Butyl alcohol
Concen: 0.544 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.026 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 59 Resp: 64999
Ion Ratio Lower Upper
59 100
57 13.5 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.100 ppbv

RT: 3.664 min Scan# 31

Delta R.T. 0.058 min

Lab File: VL040828.D

Acq: 9 Nov 2023 9:20

Instrument :

MSVOA_L

ClientSampleId :

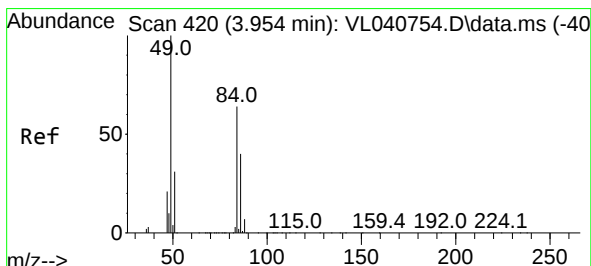
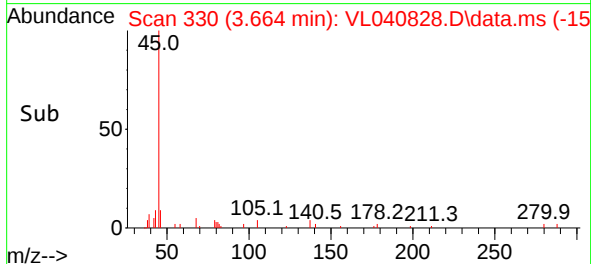
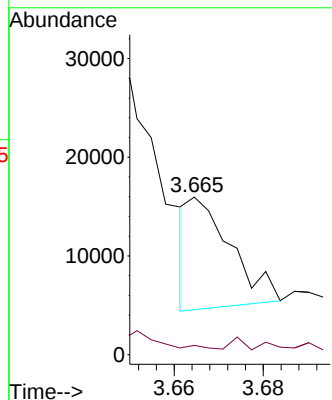
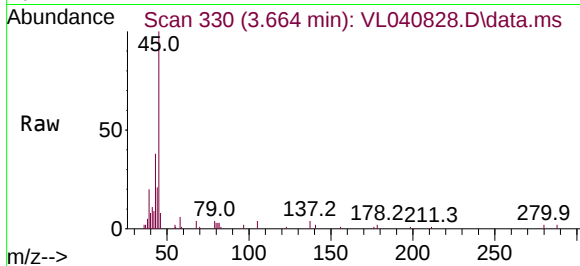
SH-IA-3DL

Tgt Ion: 45 Resp: 7508

Ion Ratio Lower Upper

45 100

58 0.0 30.3 45.5#



#20

Methylene Chloride

Concen: 1.610 ppbv

RT: 3.973 min Scan# 426

Delta R.T. 0.013 min

Lab File: VL040828.D

Acq: 9 Nov 2023 9:20

Tgt Ion: 84 Resp: 78166

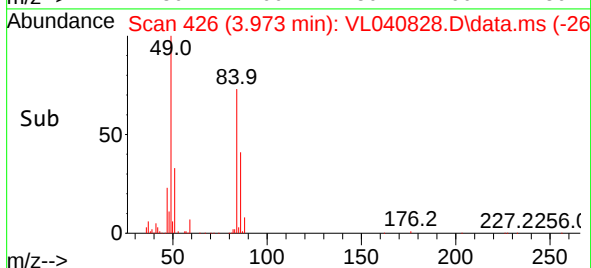
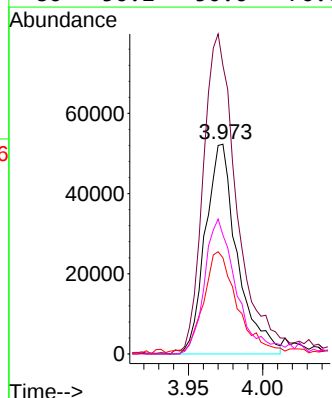
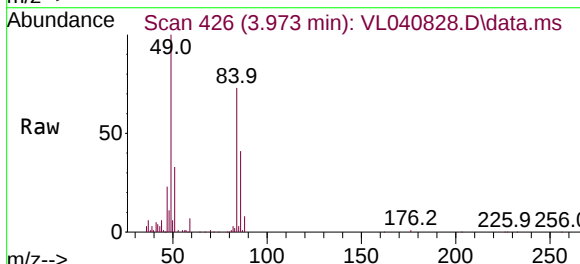
Ion Ratio Lower Upper

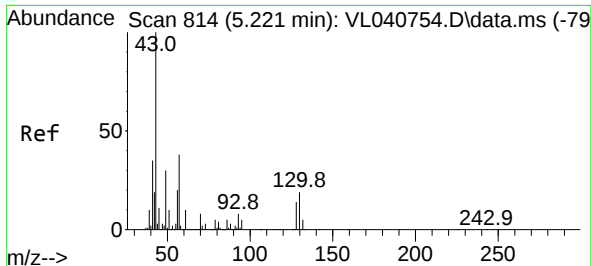
84 100

49 136.1 125.6 188.4

51 44.0 38.9 58.3

86 56.2 50.6 76.0

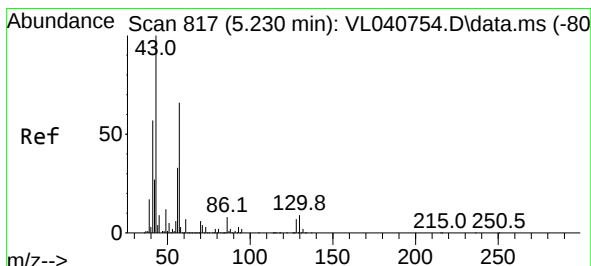
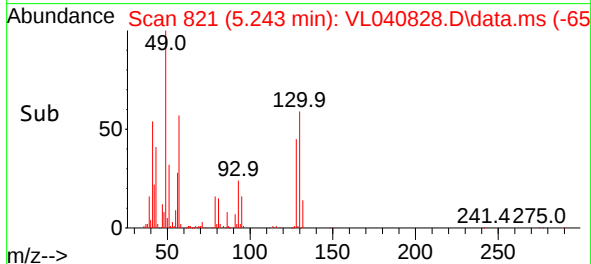
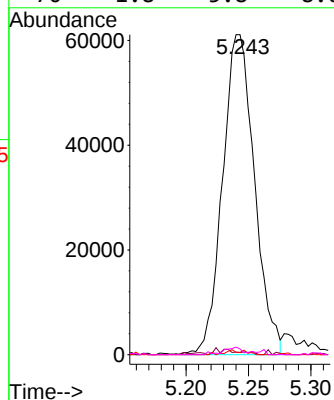
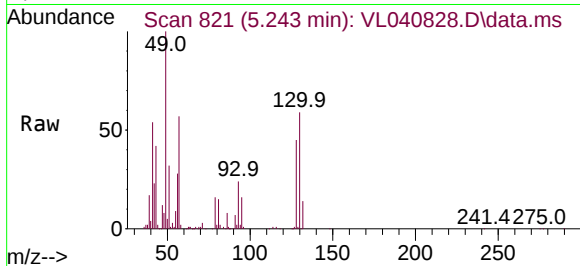




#25
Ethyl Acetate
Concen: 0.427 ppbv
RT: 5.243 min Scan# 814
Delta R.T. 0.023 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

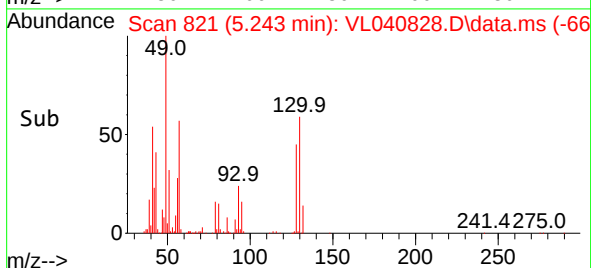
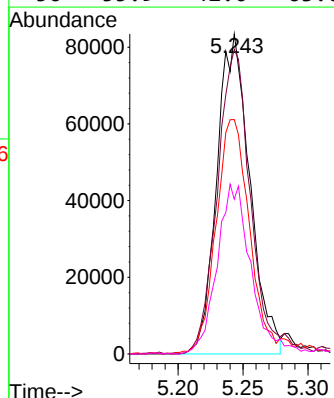
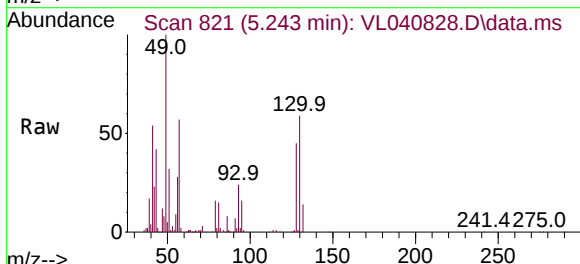
Instrument :
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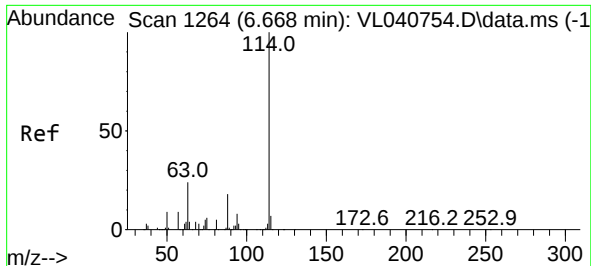
Tgt Ion: 43 Resp: 108936
Ion Ratio Lower Upper
43 100
45 1.6 8.2 12.4#
61 0.9 8.2 12.2#
70 1.8 5.8 8.6#



#26
Hexane
Concen: 1.262 ppbv
RT: 5.243 min Scan# 821
Delta R.T. 0.016 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 57 Resp: 147258
Ion Ratio Lower Upper
57 100
41 99.0 71.4 107.2
43 78.7 182.3 273.5#
56 55.9 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040828.D

Acq: 9 Nov 2023 9:20

Instrument :

MSVOA_L

ClientSampleId :

SH-IA-3DL

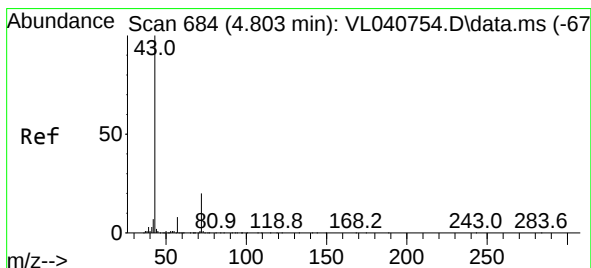
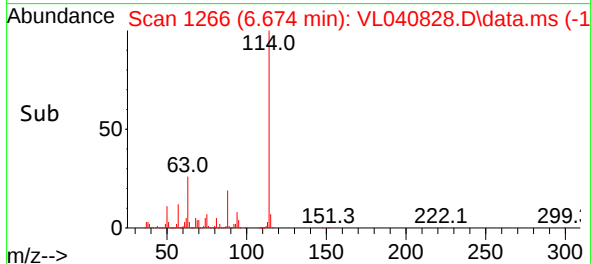
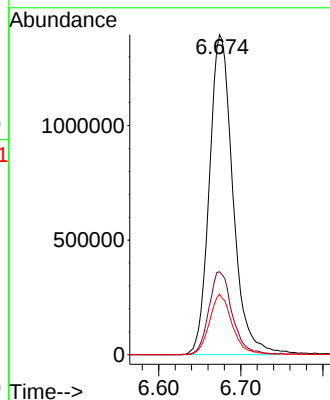
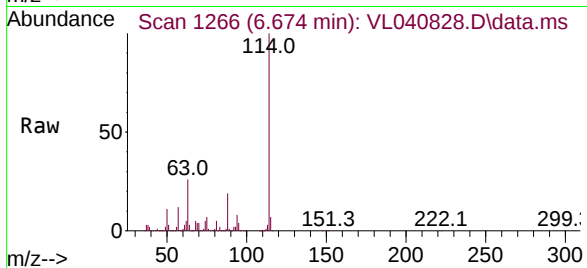
Tgt Ion:114 Resp: 2775768

Ion Ratio Lower Upper

114 100

63 26.3 19.8 29.6

88 18.5 14.2 21.2



#34

2-Butanone

Concen: 0.100 ppbv

RT: 4.825 min Scan# 691

Delta R.T. 0.019 min

Lab File: VL040828.D

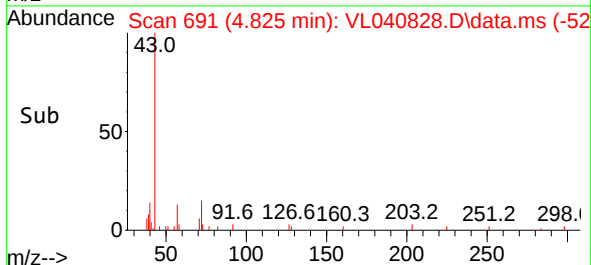
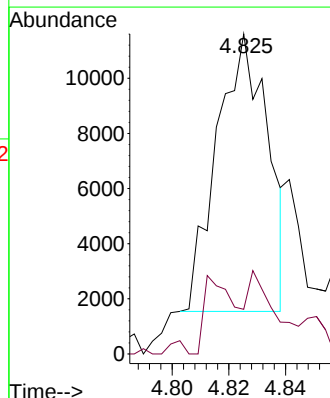
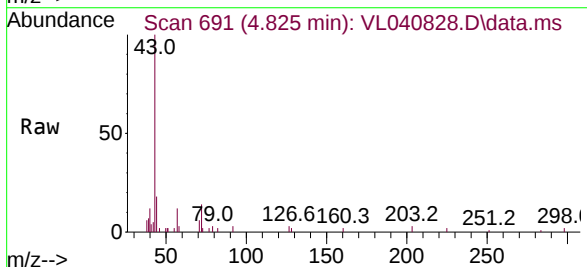
Acq: 9 Nov 2023 9:20

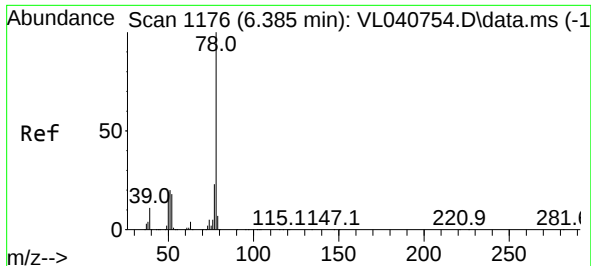
Tgt Ion: 43 Resp: 12504

Ion Ratio Lower Upper

43 100

72 42.0 16.8 25.2#

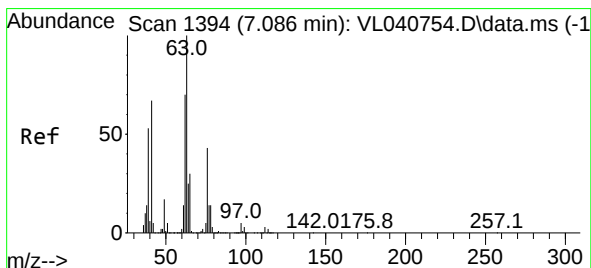
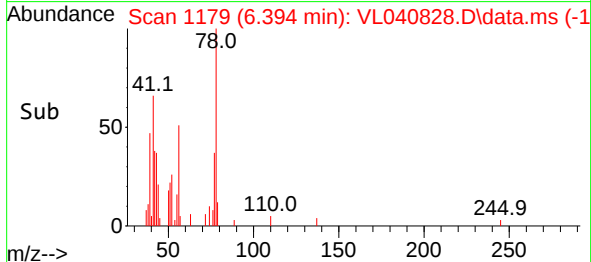
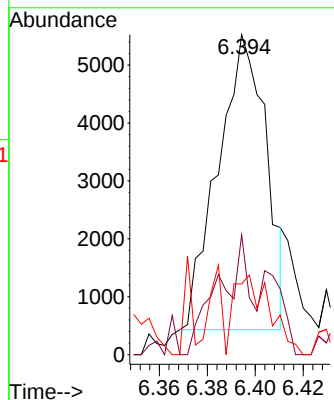
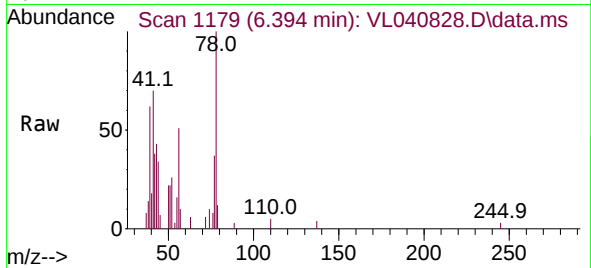




#36
Benzene
Concen: 0.033 ppbv
RT: 6.394 min Scan# 1176
Delta R.T. 0.013 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

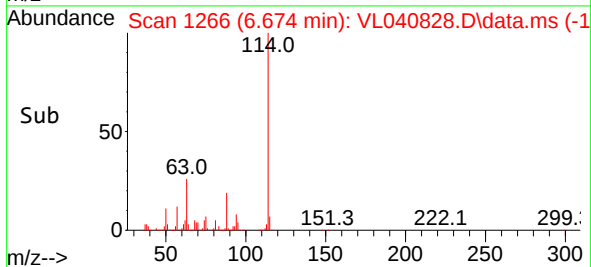
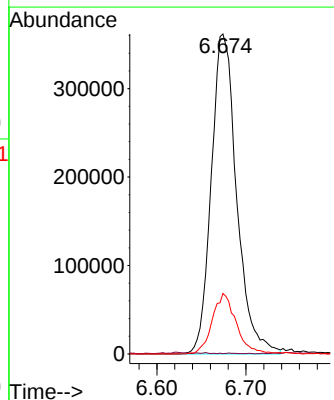
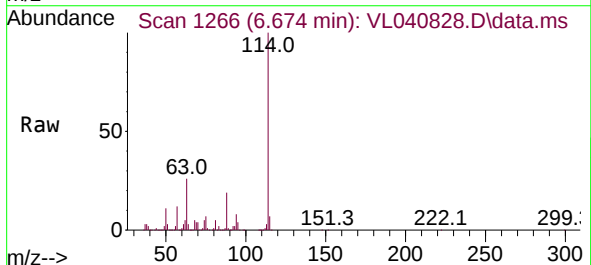
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

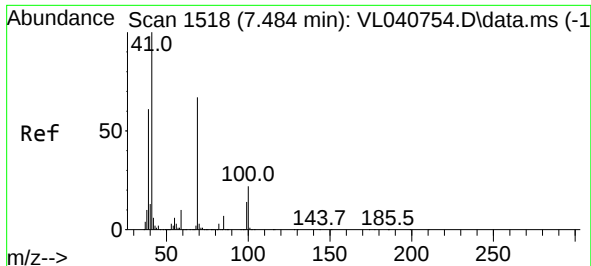
Tgt Ion: 78 Resp: 7125
Ion Ratio Lower Upper
78 100
77 36.0 18.4 27.6#
50 7.5 15.0 22.4#



#39
1,2-Dichloropropane
Concen: 8.590 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.408 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 63 Resp: 716482
Ion Ratio Lower Upper
63 100
41 0.0 53.7 80.5#
62 18.9 55.7 83.5#

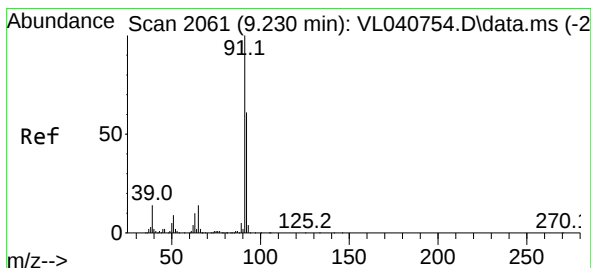
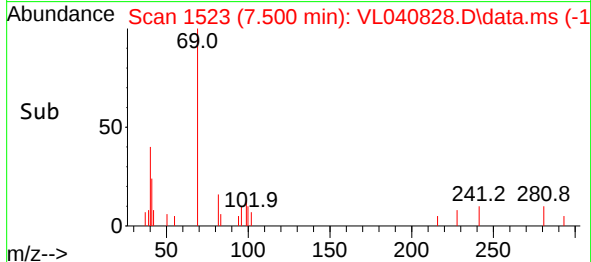
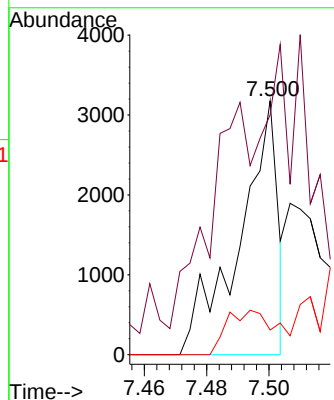
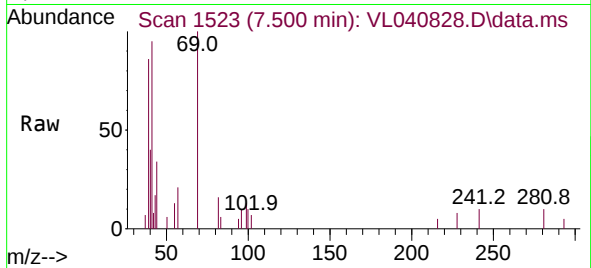




#43
Methyl Methacrylate
Concen: 0.032 ppbv
RT: 7.500 min Scan# 11
Delta R.T. 0.019 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

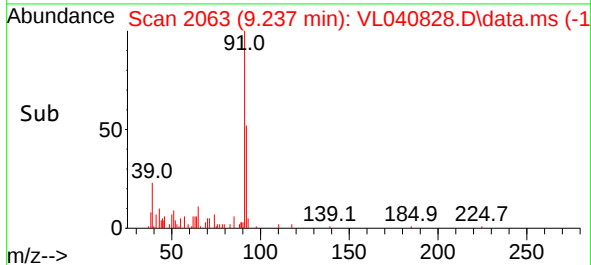
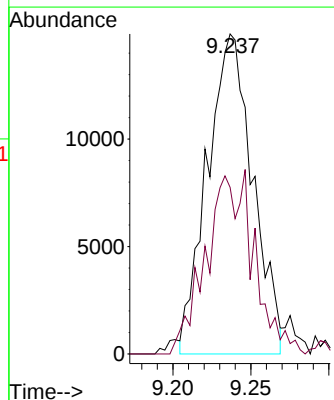
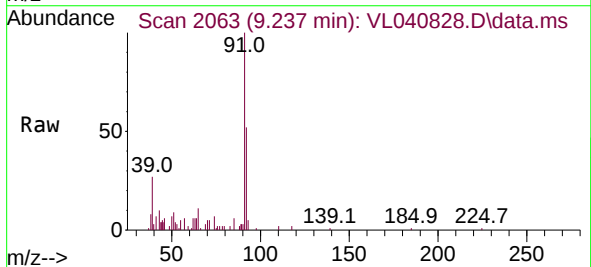
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

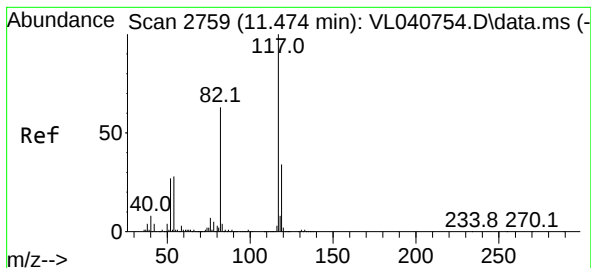
Tgt Ion: 69 Resp: 2714
Ion Ratio Lower Upper
69 100
41 0.0 120.6 181.0#
100 0.0 27.1 40.7#



#53
Toluene
Concen: 0.119 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.016 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 91 Resp: 30317
Ion Ratio Lower Upper
91 100
92 60.6 50.2 75.2

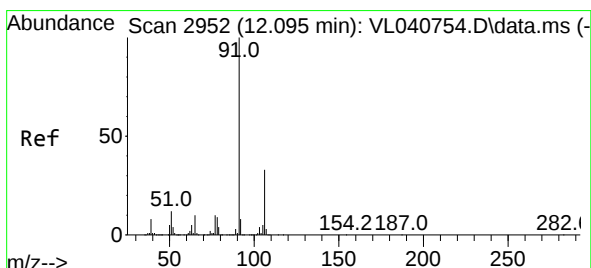
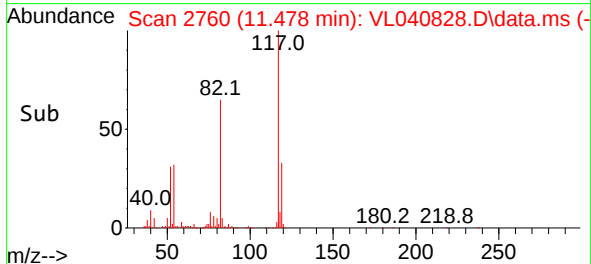
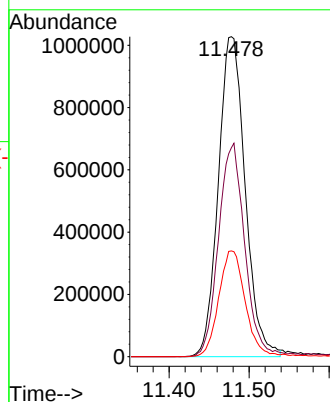
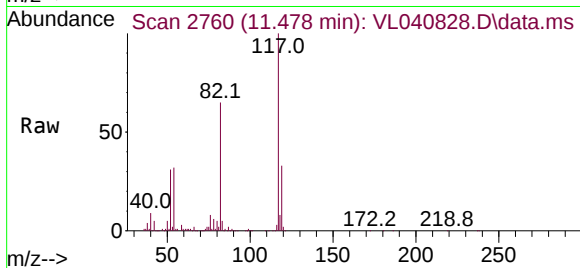




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

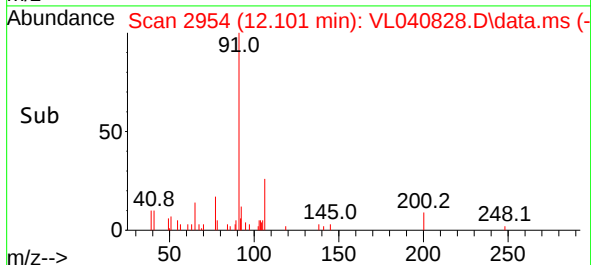
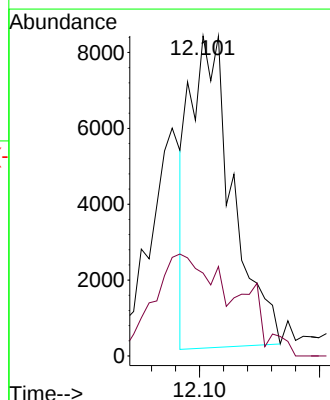
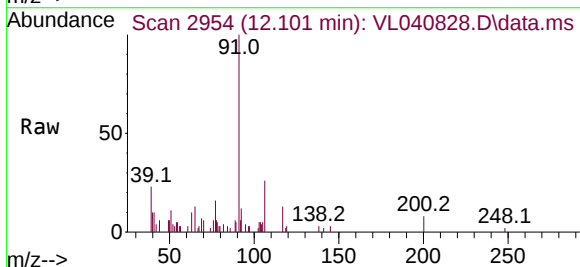
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

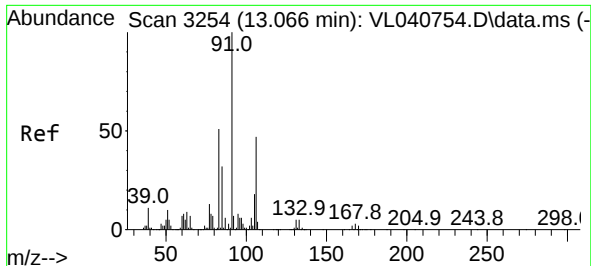
Tgt Ion:117 Resp: 2394190
Ion Ratio Lower Upper
117 100
82 66.9 46.6 70.0
119 33.4 26.0 39.0



#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. 0.019 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 91 Resp: 10184
Ion Ratio Lower Upper
91 100
106 20.5 26.7 40.1#

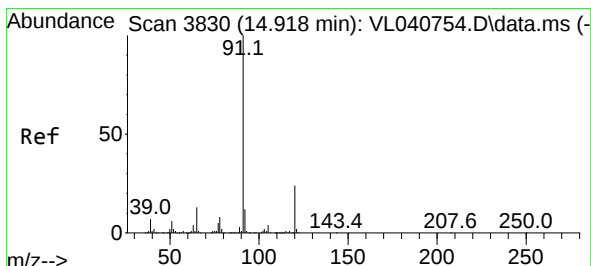
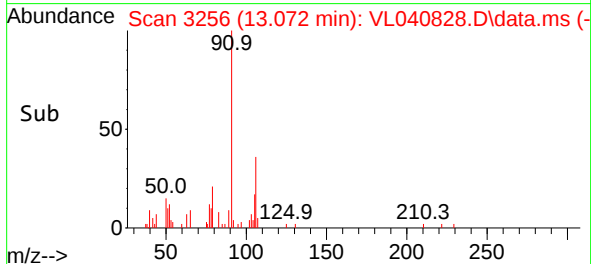
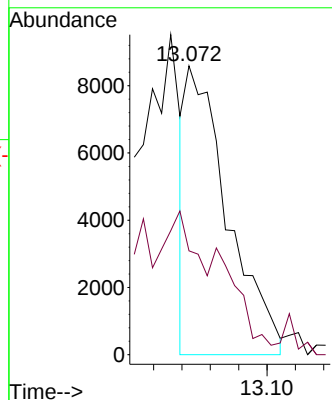
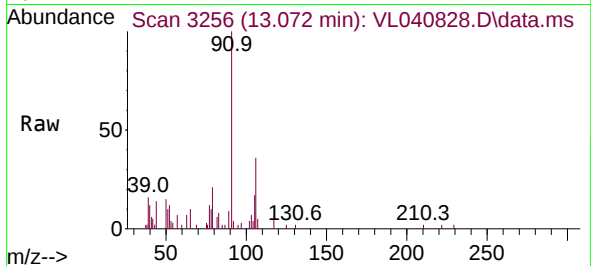




#60
o-Xylene
Concen: 0.037 ppbv
RT: 13.072 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

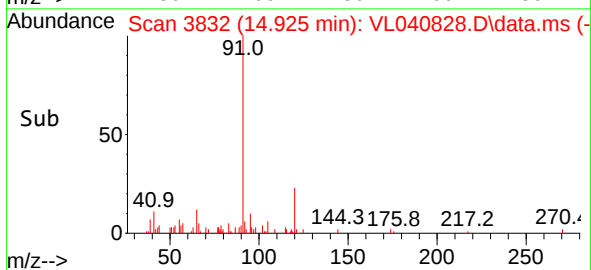
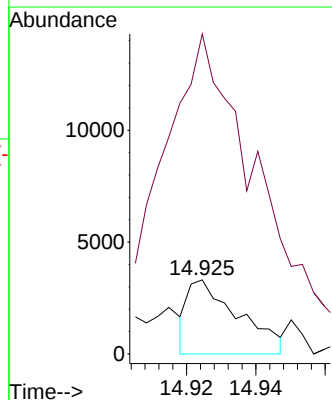
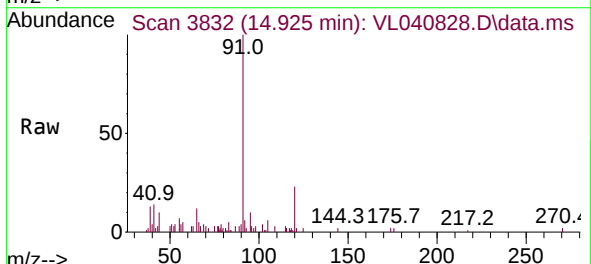
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

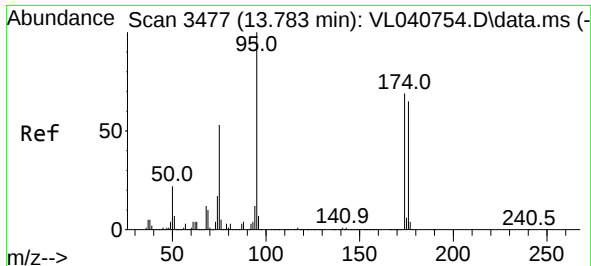
Tgt Ion: 91 Resp: 8858
Ion Ratio Lower Upper
91 100
106 107.4 23.5 70.5#



#64
n-propylbenzene
Concen: 0.035 ppbv
RT: 14.925 min Scan# 3832
Delta R.T. 0.016 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

Tgt Ion: 120 Resp: 3382
Ion Ratio Lower Upper
120 100
91 920.6 345.9 518.9#

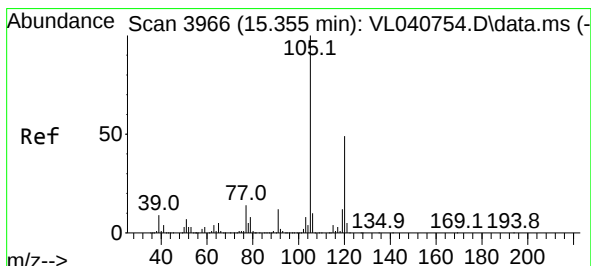
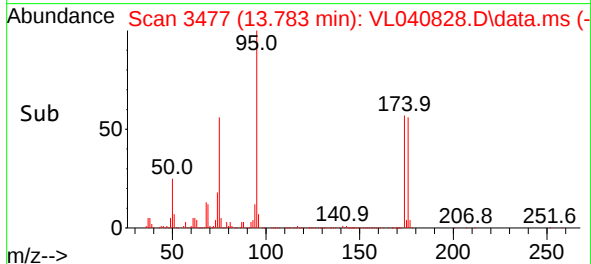
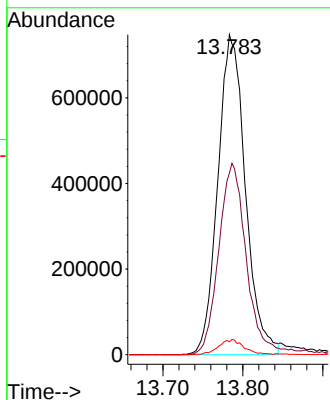
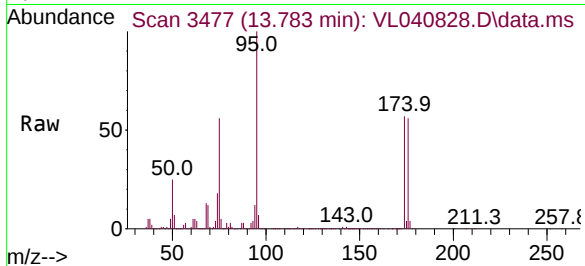




#68
1-Bromo-4-Fluorobenzene
Concen: 10.156 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.013 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

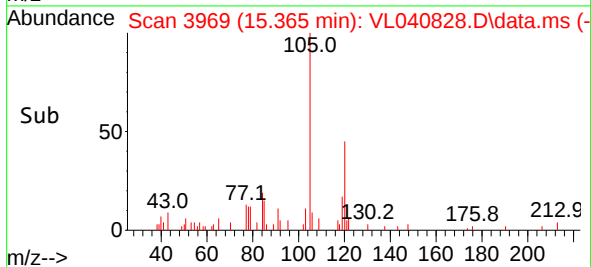
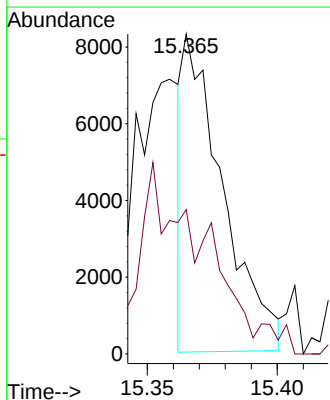
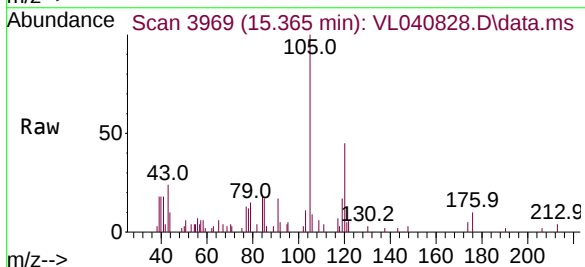
Instrument :
MSVOA_L
ClientSampleId :
SH-IA-3DL

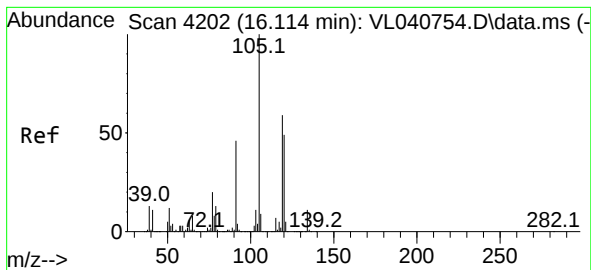
Tgt Ion: 95 Resp: 1789136
Ion Ratio Lower Upper
95 100
174 61.6 54.7 82.1
175 4.5 4.2 6.4



#73
1,3,5-Trimethylbenzene
Concen: 0.036 ppbv
RT: 15.365 min Scan# 3969
Delta R.T. 0.023 min
Lab File: VL040828.D
Acq: 9 Nov 2023 9:20

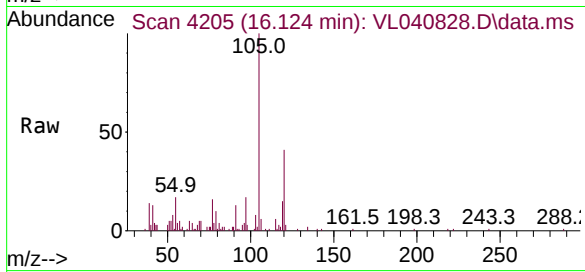
Tgt Ion: 105 Resp: 8800
Ion Ratio Lower Upper
105 100
120 45.8 39.4 59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv
 RT: 16.124 min Scan# 41
 Delta R.T. 0.023 min
 Lab File: VL040828.D
 Acq: 9 Nov 2023 9:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-IA-3DL



Tgt Ion:	105	Resp:	39218
Ion	Ratio	Lower	Upper
105	100		
120	38.5	39.4	59.2#
91	9.2	38.6	58.0#
77	14.8	16.6	25.0#

