

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120122\
 Data File : VL039943.D
 Acq On : 1 Dec 2022 15:46
 Operator : SY/MD
 Sample : N5824-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TPC-1ADUP

Quant Time: Dec 02 05:32:54 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 05:29:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	1097239	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	3030604	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2686629	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	2037528	9.929	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	79219	0.504	ppbv	97
4) Chloromethane	2.790	50	33235	0.343	ppbv	98
9) Propene	2.848	41	1880819	26.371	ppbv	95
10) Heptane	7.555	43	21094	0.123	ppbv #	18
11) Trichlorofluoromethane	3.536	101	95597	0.499	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.041	101	6249	0.043	ppbv #	55
13) Ethanol	3.227	45	12296485	2258.202	ppbv	92
15) Acetone	3.439	43	3407751	23.415	ppbv	99
16) 1,3-Butadiene	2.938	39	18193	0.251	ppbv #	26
17) tert-Butyl alcohol	3.877	59	55688	0.333	ppbv	100
19) Isopropyl Alcohol	3.565	45	9010818	114.353	ppbv #	31
20) Methylene Chloride	3.909	84	732427	10.388	ppbv	96
21) Allyl Chloride	3.909	41	21651	0.214	ppbv #	18
23) Vinyl Acetate	4.587	43	45006	0.753	ppbv #	30
25) Ethyl Acetate	5.182	43	1192980	4.465	ppbv #	90
26) Hexane	5.185	57	1008871	8.643	ppbv #	57
30) Cyclohexane	6.574	84	24789	0.216	ppbv #	83
31) cis-1,2-Dichloroethene	5.179	61	64858	0.601	ppbv #	27
34) 2-Butanone	4.764	43	48378	0.334	ppbv	92
36) Benzene	6.340	78	53787	0.209	ppbv	94
39) 1,2-Dichloropropane	6.626	63	744932	7.422	ppbv #	27
41) Tetrahydrofuran	5.185	42	405343	4.049	ppbv #	48
44) 2,2,4-Trimethylpentane	7.301	57	22098	0.051	ppbv #	42
52) Tetrachloroethene	10.590	164	4824	0.050	ppbv #	68
53) Toluene	9.195	91	807368	2.751	ppbv	99
58) Ethyl Benzene	12.073	91	11844	0.032	ppbv	94
59) m/p-Xylene	12.343	91	16876	0.055	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.088	105	15168	0.048	ppbv #	68

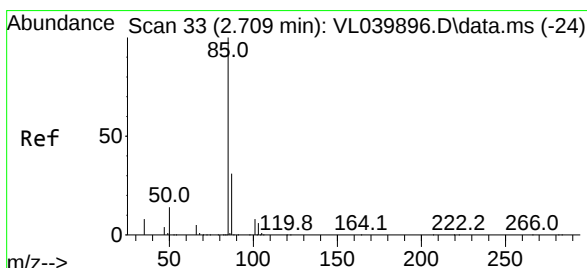
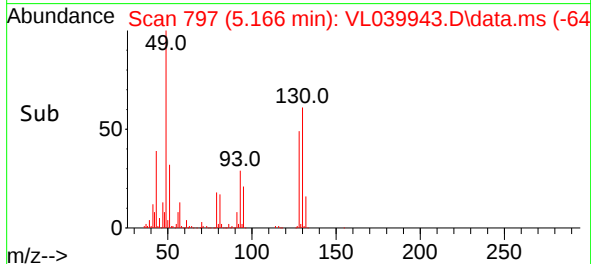
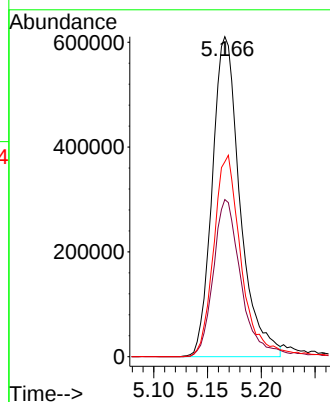
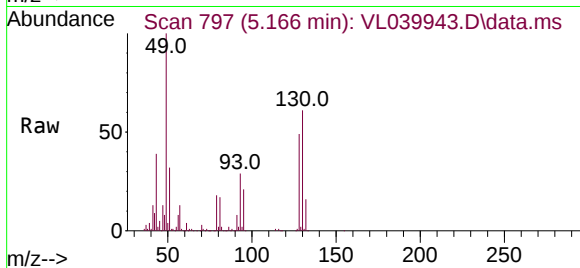
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.166 min Scan# 79
 Delta R.T. -0.007 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

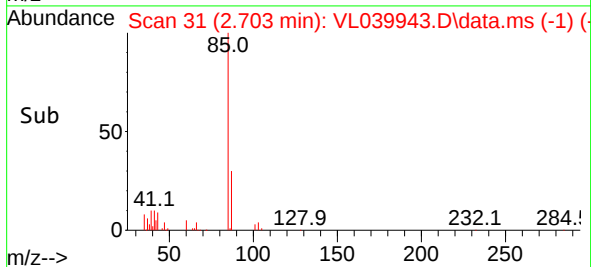
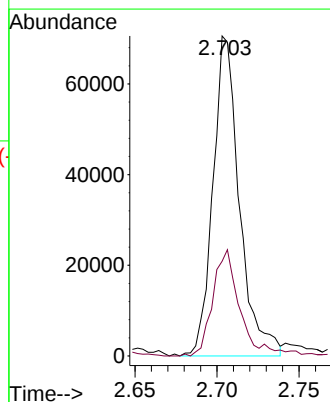
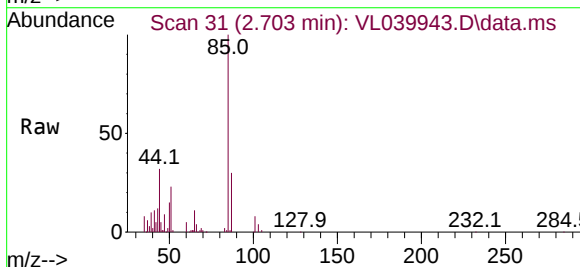
Instrument :
 MSVOA_L
 ClientSampleId :
 TPC-1ADUP

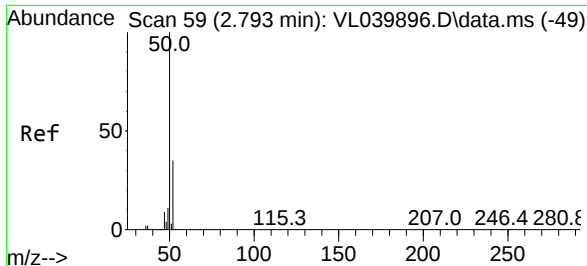
Tgt Ion: 49 Resp: 1097239
 Ion Ratio Lower Upper
 49 100
 128 49.8 22.1 66.3
 130 64.2 27.7 83.1



#2
 Dichlorodifluoromethane
 Concen: 0.504 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

Tgt Ion: 85 Resp: 79219
 Ion Ratio Lower Upper
 85 100
 87 29.6 25.0 37.4

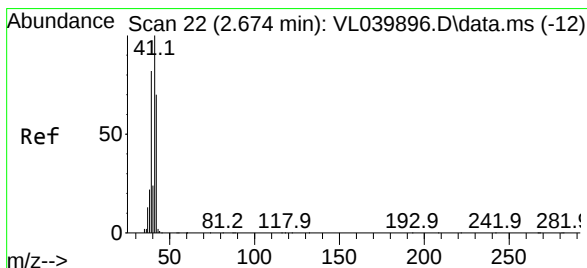
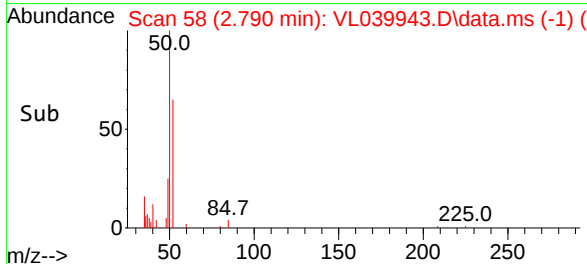
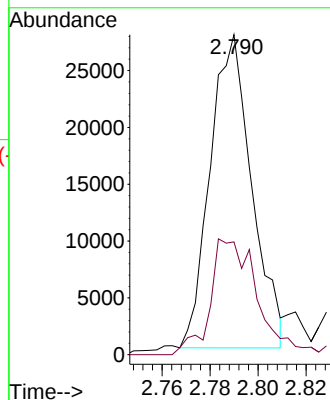
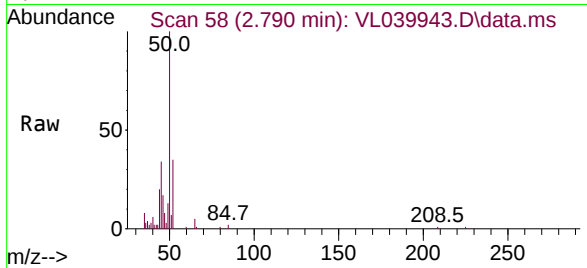




#4
Chloromethane
Concen: 0.343 ppbv
RT: 2.790 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

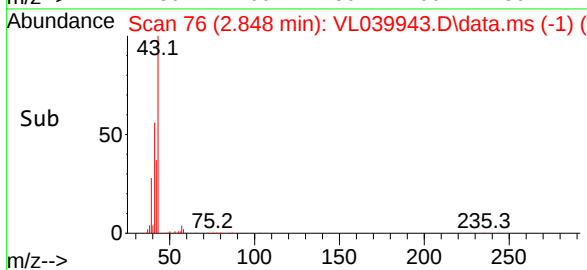
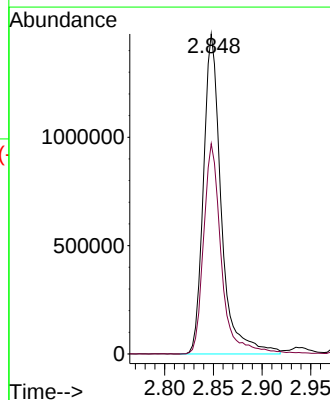
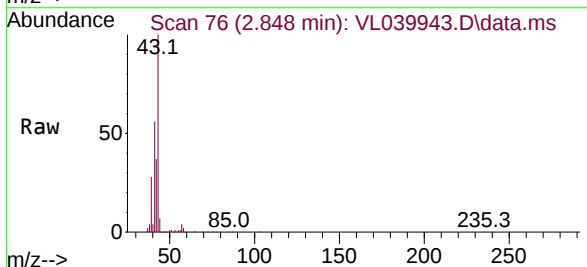
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

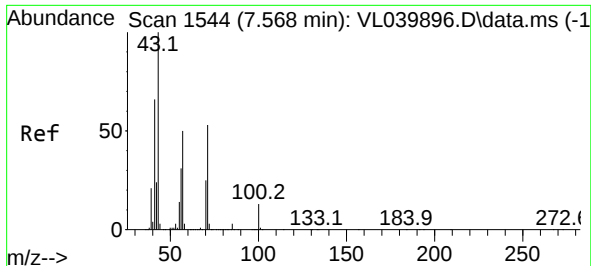
Tgt Ion: 50 Resp: 33235
Ion Ratio Lower Upper
50 100
52 33.8 27.8 41.8



#9
Propene
Concen: 26.371 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.177 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 41 Resp: 1880819
Ion Ratio Lower Upper
41 100
42 65.7 55.8 83.6

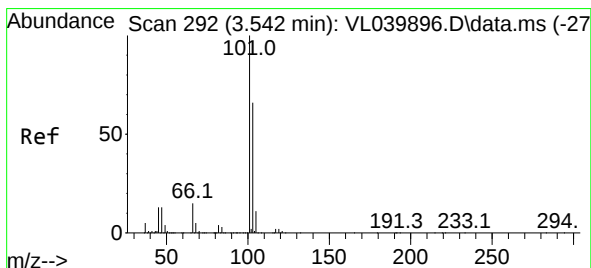
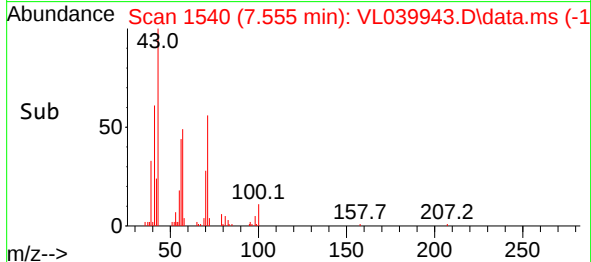
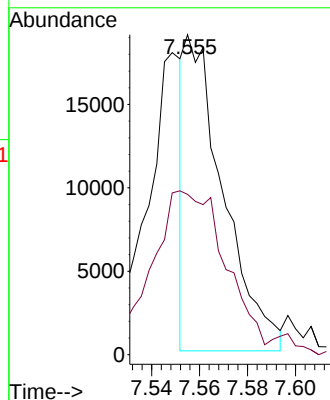
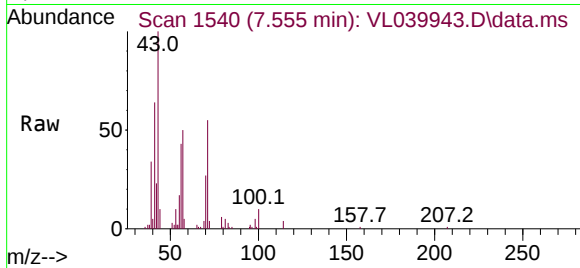




#10
Heptane
Concen: 0.123 ppbv
RT: 7.555 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

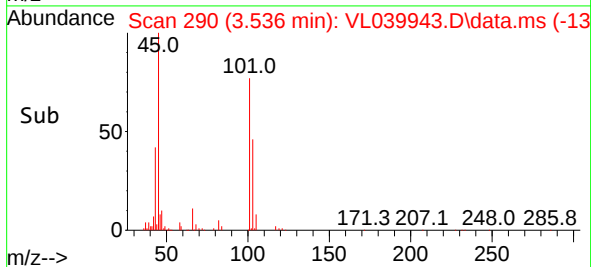
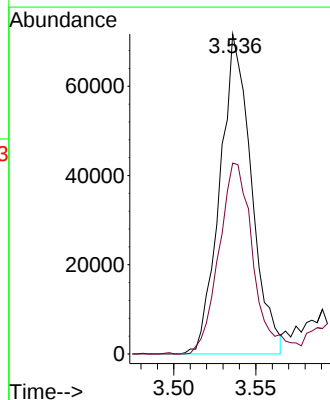
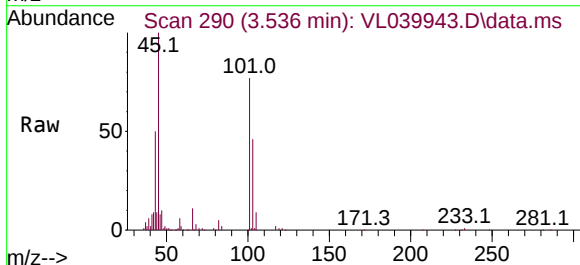
Instrument :
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ClientSampleId :
TPC-1ADUP

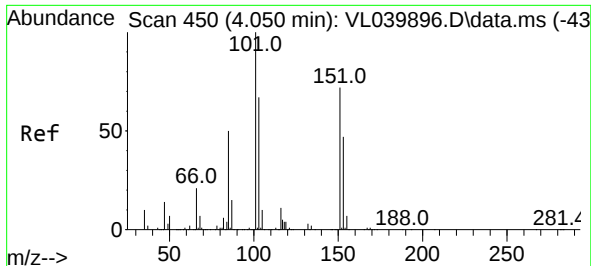
Tgt Ion: 43 Resp: 21094
Ion Ratio Lower Upper
43 100
57 108.1 40.7 61.1#



#11
Trichlorofluoromethane
Concen: 0.499 ppbv
RT: 3.536 min Scan# 290
Delta R.T. -0.006 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion:101 Resp: 95597
Ion Ratio Lower Upper
101 100
103 59.6 52.6 78.8

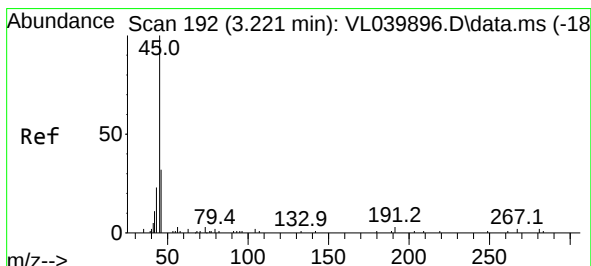
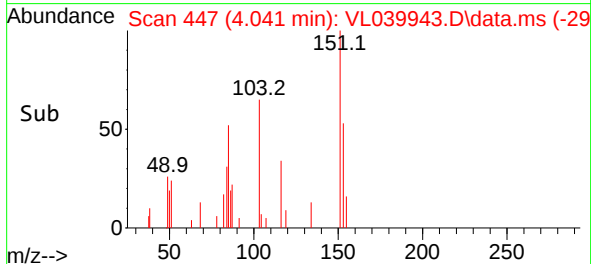
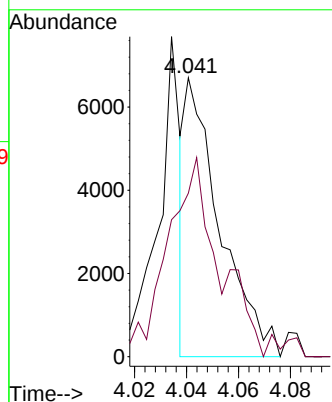
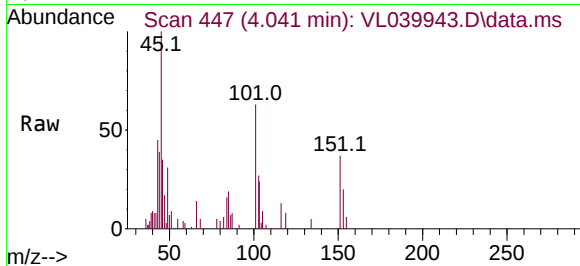




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 4.041 min Scan# 447
Delta R.T. -0.006 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

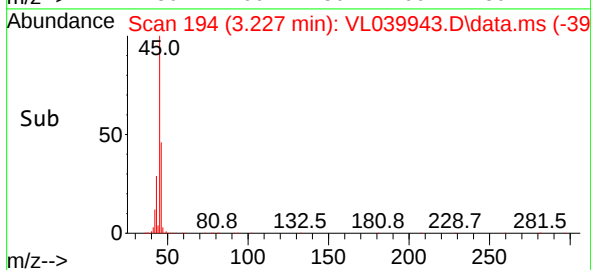
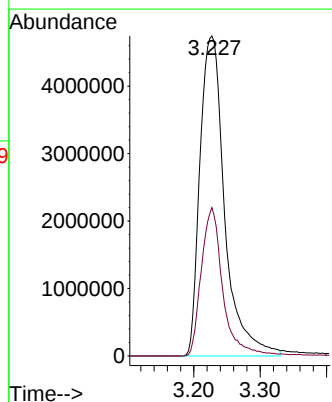
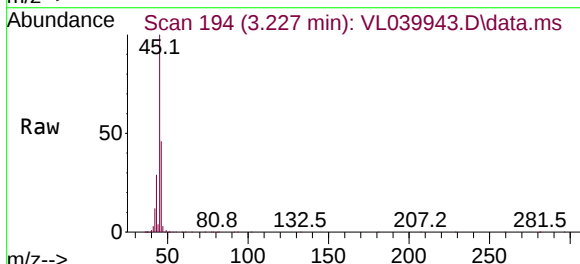
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

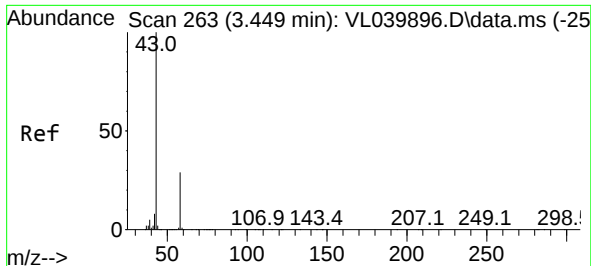
Tgt Ion:101 Resp: 6249
Ion Ratio Lower Upper
101 100
151 112.3 59.6 89.4#



#13
Ethanol
Concen: 2258.202 ppbv
RT: 3.227 min Scan# 194
Delta R.T. -0.000 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 45 Resp:12296485
Ion Ratio Lower Upper
45 100
46 41.1 14.6 58.2

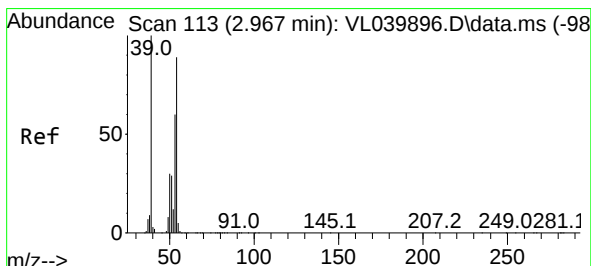
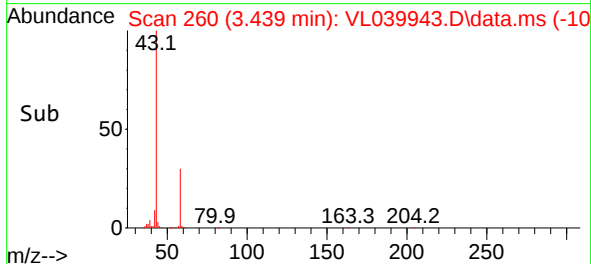
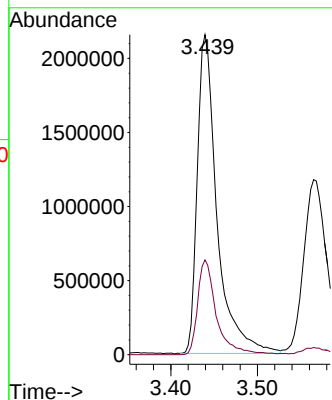
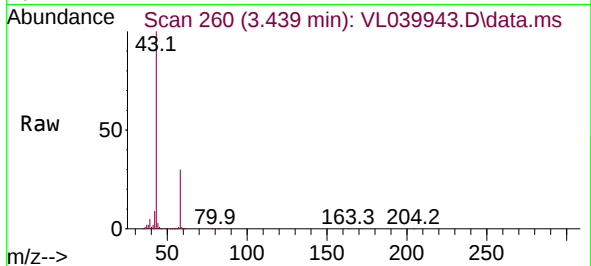




#15
Acetone
Concen: 23.415 ppbv
RT: 3.439 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

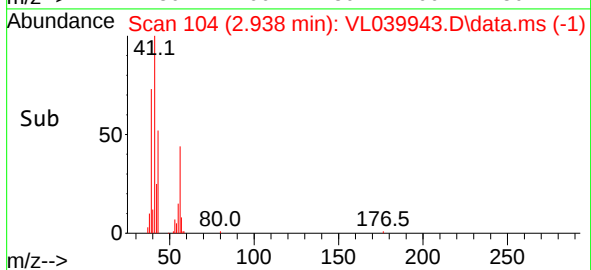
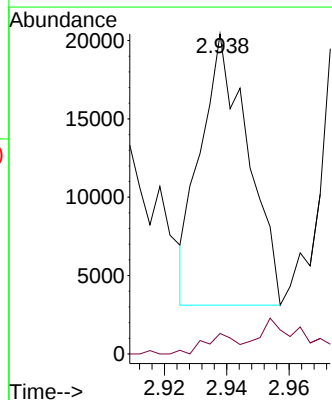
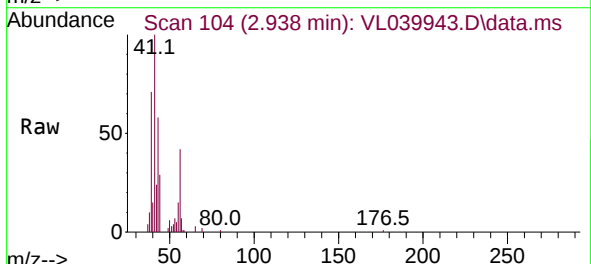
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

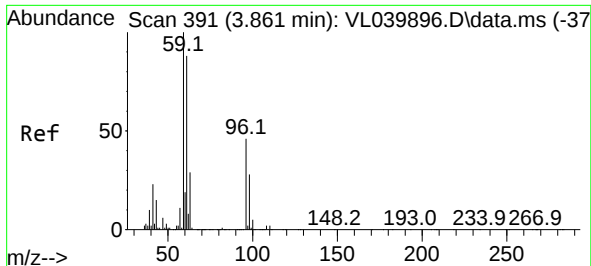
Tgt Ion: 43 Resp: 3407751
Ion Ratio Lower Upper
43 100
58 28.3 22.9 34.3



#16
1,3-Butadiene
Concen: 0.251 ppbv
RT: 2.938 min Scan# 104
Delta R.T. -0.026 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 39 Resp: 18193
Ion Ratio Lower Upper
39 100
54 16.9 66.6 99.8#





#17

tert-Butyl alcohol

Concen: 0.333 ppbv

RT: 3.877 min Scan# 391

Delta R.T. 0.019 min

Lab File: VL039943.D

Acq: 1 Dec 2022 15:46

Instrument :

MSVOA_L

ClientSampleId :

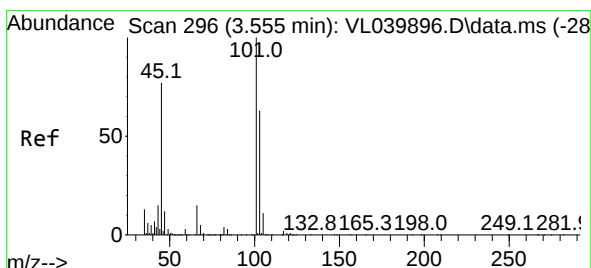
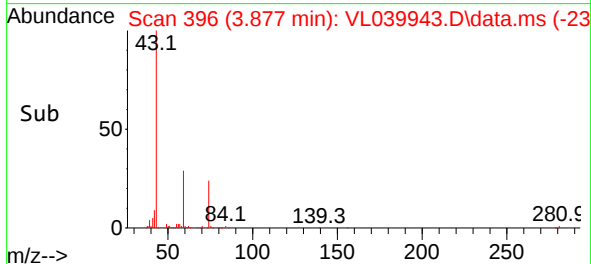
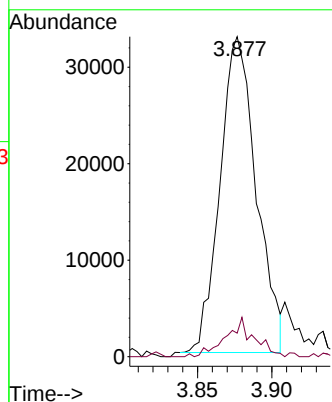
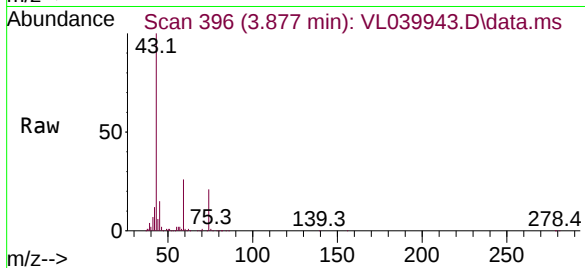
TPC-1ADUP

Tgt Ion: 59 Resp: 55688

Ion Ratio Lower Upper

59 100

57 10.2 8.3 12.5



#19

Isopropyl Alcohol

Concen: 114.353 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.010 min

Lab File: VL039943.D

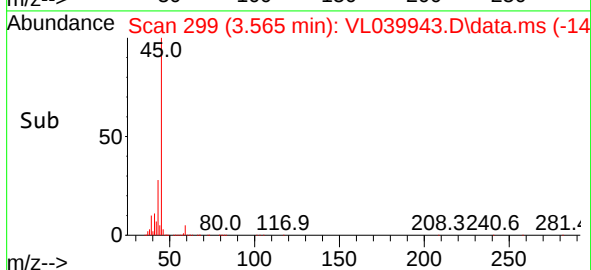
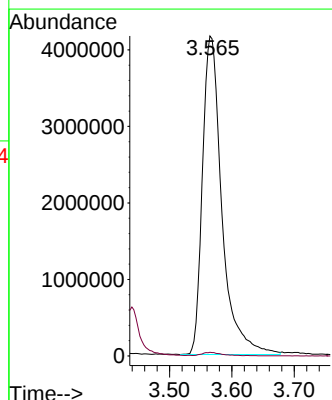
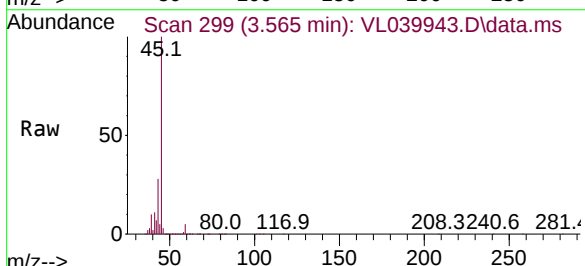
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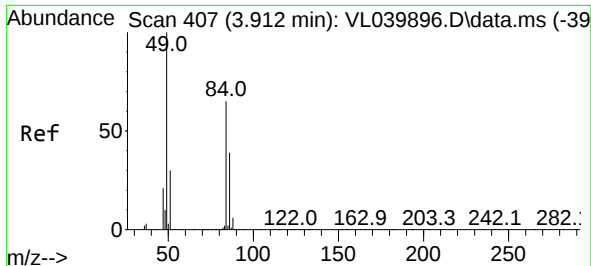
Tgt Ion: 45 Resp: 9010818

Ion Ratio Lower Upper

45 100

58 1.4 38.7 58.1#





#20

Methylene Chloride

Concen: 10.388 ppbv

RT: 3.909 min Scan# 406

Delta R.T. -0.003 min

Lab File: VL039943.D

Acq: 1 Dec 2022 15:46

Instrument :

MSVOA_L

ClientSampleId :

TPC-1ADUP

Tgt Ion: 84 Resp: 732427

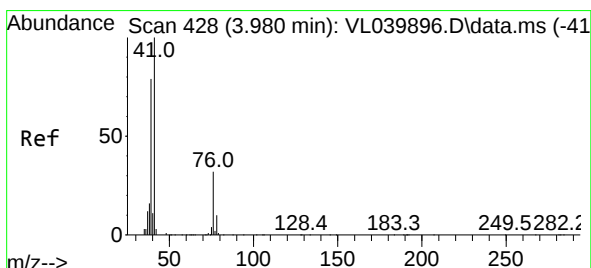
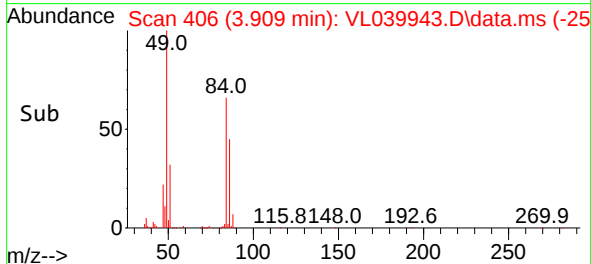
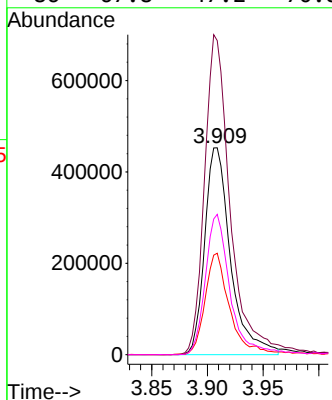
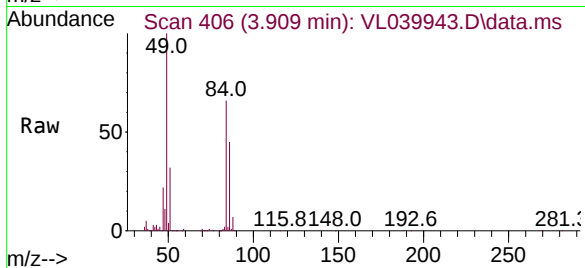
Ion Ratio Lower Upper

84 100

49 151.7 122.2 183.4

51 48.7 36.3 54.5

86 67.8 47.2 70.8



#21

Allyl Chloride

Concen: 0.214 ppbv

RT: 3.909 min Scan# 406

Delta R.T. -0.068 min

Lab File: VL039943.D

Acq: 1 Dec 2022 15:46

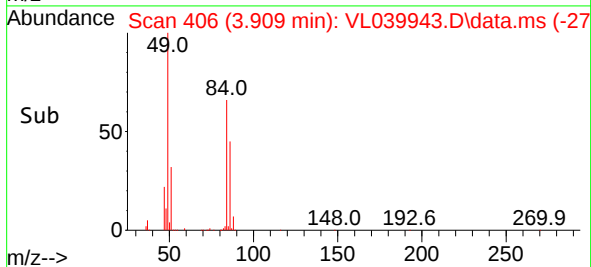
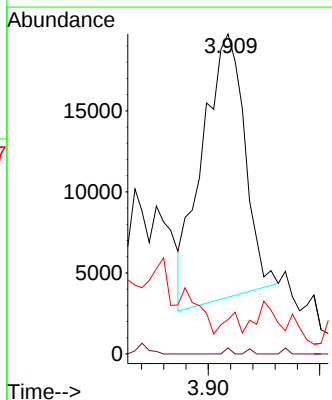
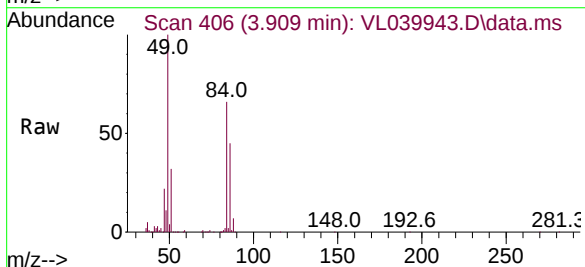
Tgt Ion: 41 Resp: 21651

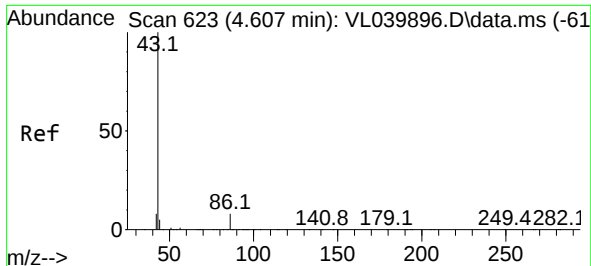
Ion Ratio Lower Upper

41 100

76 0.6 25.6 38.4#

39 0.0 65.2 97.8#

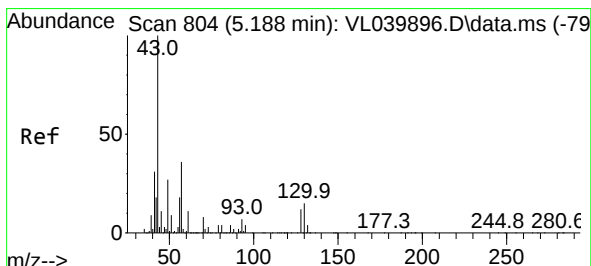
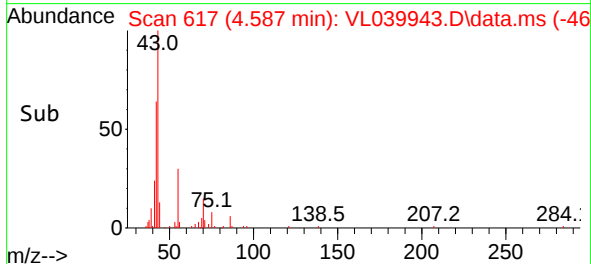
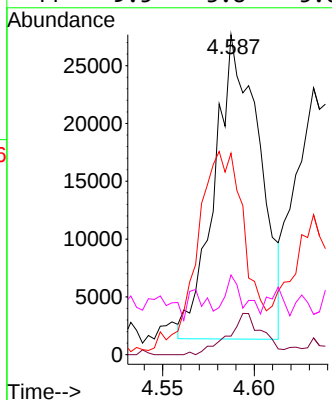
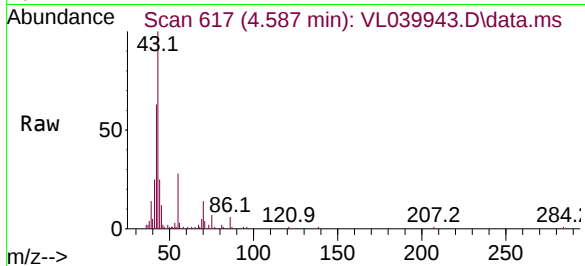




#23
 Vinyl Acetate
 Concen: 0.753 ppbv
 RT: 4.587 min Scan# 617
 Delta R.T. -0.019 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

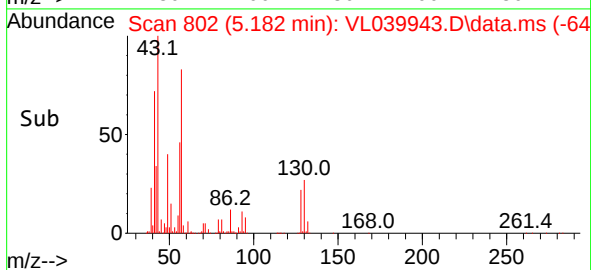
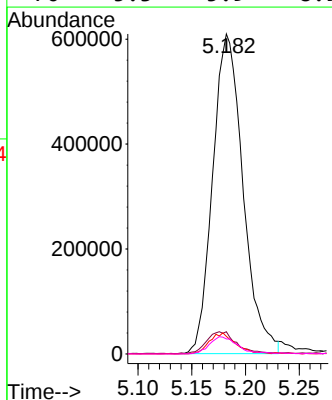
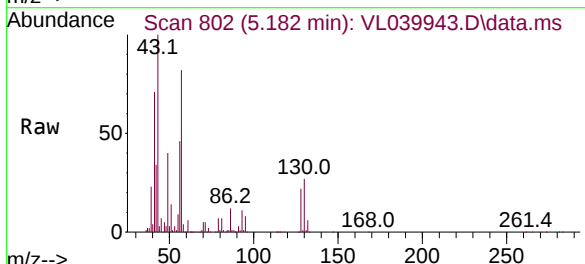
Instrument :
 MSVOA_1
 ClientSampleId :
 TPC-1ADUP

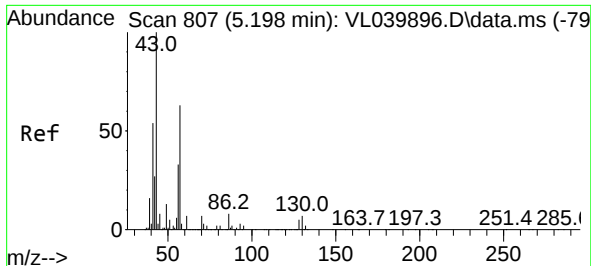
Tgt Ion:	43	Resp:	45006
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.0	7.4
42	61.4	7.6	11.4#
44	9.5	3.8	5.6#



#25
 Ethyl Acetate
 Concen: 4.465 ppbv
 RT: 5.182 min Scan# 802
 Delta R.T. -0.003 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

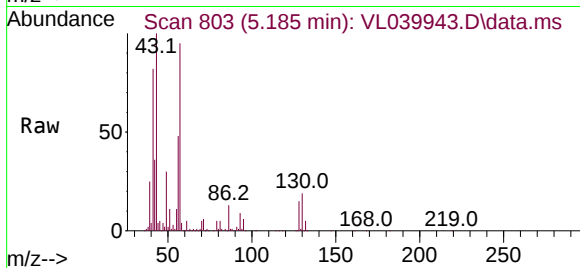
Tgt Ion:	43	Resp:	1192980
Ion	Ratio	Lower	Upper
43	100		
45	7.1	8.4	12.6#
61	6.0	8.5	12.7#
70	5.3	5.9	8.9#





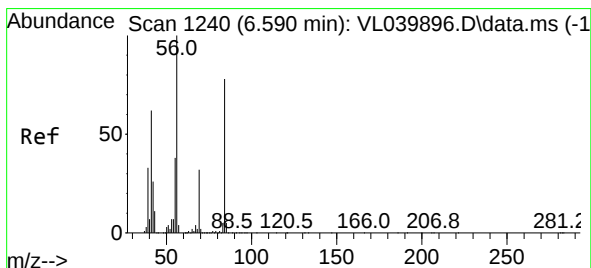
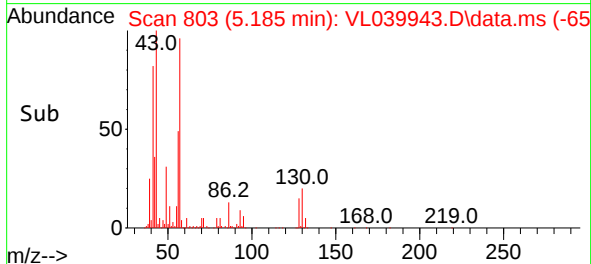
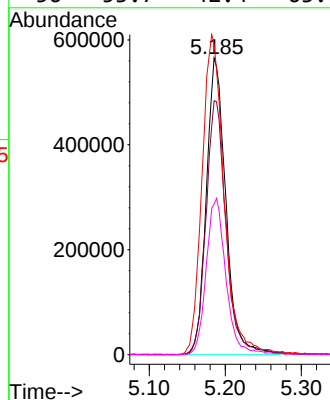
#26
Hexane
Concen: 8.643 ppbv
RT: 5.185 min Scan# 807
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP



Tgt Ion: 57 Resp: 1008871

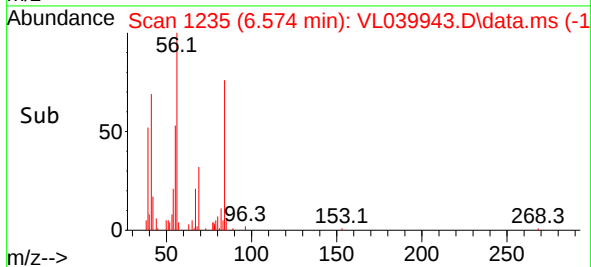
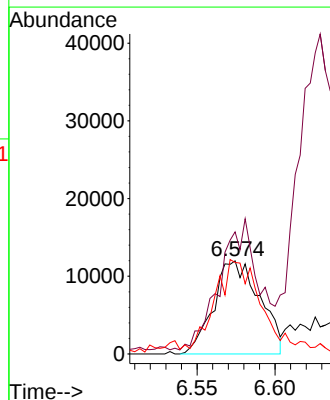
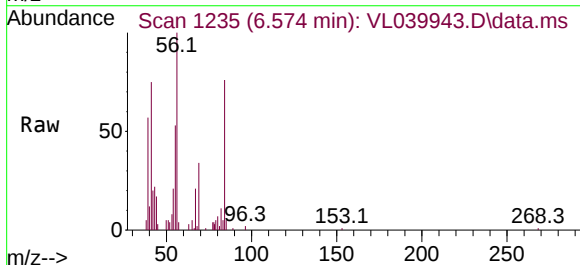
Ion	Ratio	Lower	Upper
57	100		
41	88.6	72.3	108.5
43	121.6	188.7	283.1#
56	53.7	42.4	63.6

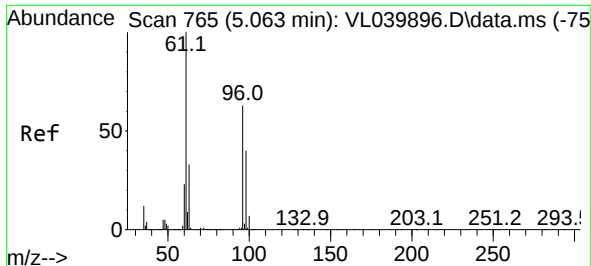


#30
Cyclohexane
Concen: 0.216 ppbv
RT: 6.574 min Scan# 1235
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 84 Resp: 24789

Ion	Ratio	Lower	Upper
84	100		
56	124.2	112.5	168.7
41	104.9	67.8	101.8#

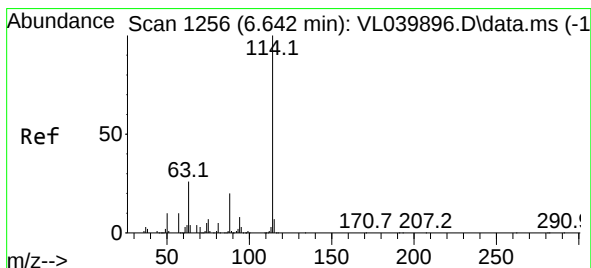
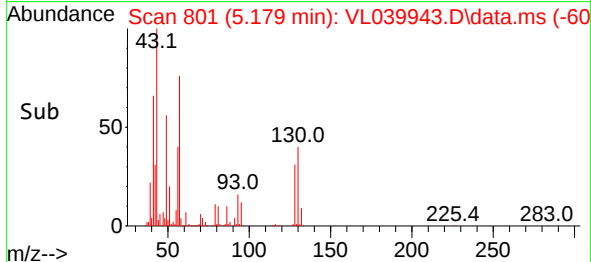
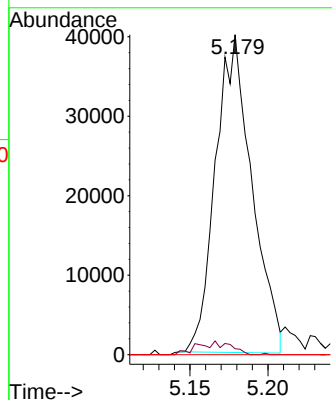
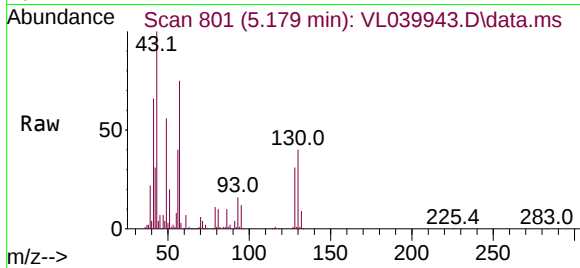




#31
 cis-1,2-Dichloroethene
 Concen: 0.601 ppbv
 RT: 5.179 min Scan# 801
 Delta R.T. 0.122 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

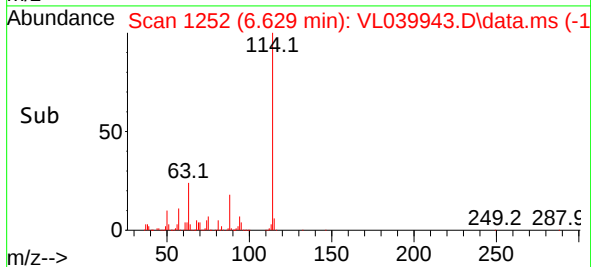
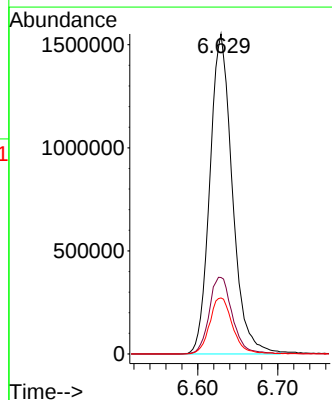
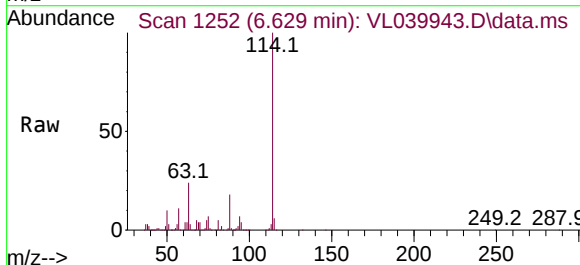
Instrument :
 MSVOA_L
 ClientSampleId :
 TPC-1ADUP

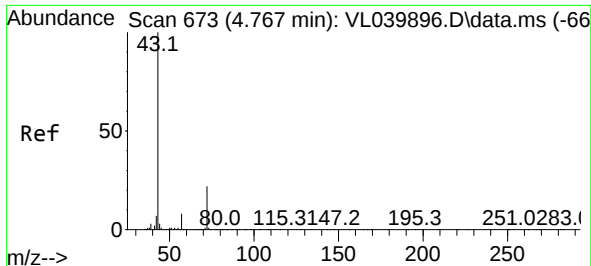
Tgt Ion: 61 Resp: 64858
 Ion Ratio Lower Upper
 61 100
 96 1.9 50.3 75.5#
 98 0.0 32.2 48.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.629 min Scan# 1252
 Delta R.T. -0.006 min
 Lab File: VL039943.D
 Acq: 1 Dec 2022 15:46

Tgt Ion: 114 Resp: 3030604
 Ion Ratio Lower Upper
 114 100
 63 25.0 21.4 32.0
 88 18.0 15.3 22.9

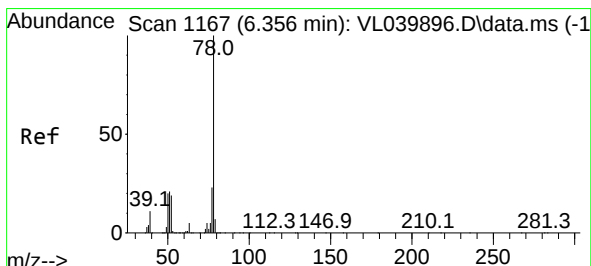
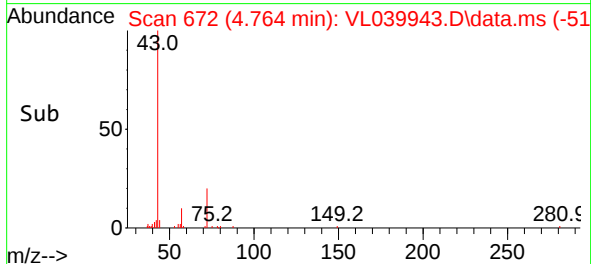
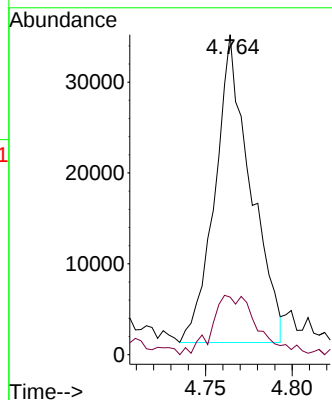
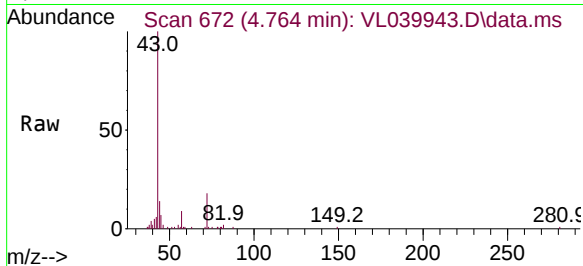




#34
2-Butanone
Concen: 0.334 ppbv
RT: 4.764 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

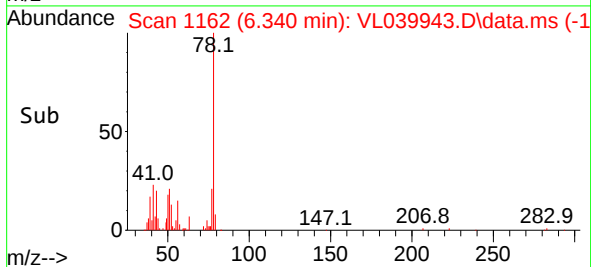
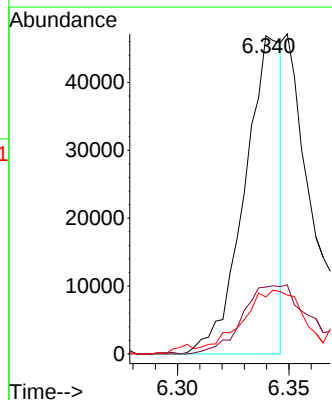
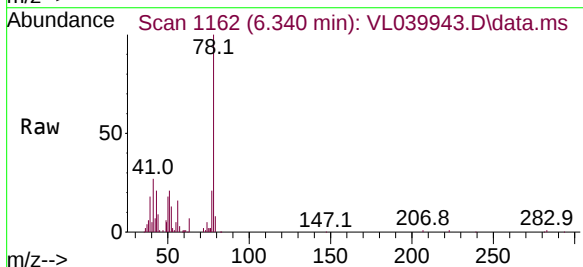
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

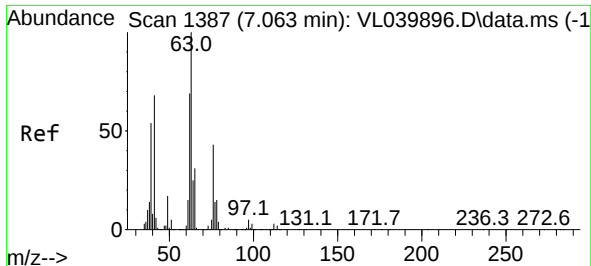
Tgt Ion: 43 Resp: 48378
Ion Ratio Lower Upper
43 100
72 25.6 17.4 26.2



#36
Benzene
Concen: 0.209 ppbv
RT: 6.340 min Scan# 1162
Delta R.T. -0.013 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 78 Resp: 53787
Ion Ratio Lower Upper
78 100
77 21.0 18.2 27.2
50 15.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.422 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.431 min

Lab File: VL039943.D

Acq: 1 Dec 2022 15:46

Instrument :

MSVOA_L

ClientSampleId :

TPC-1ADUP

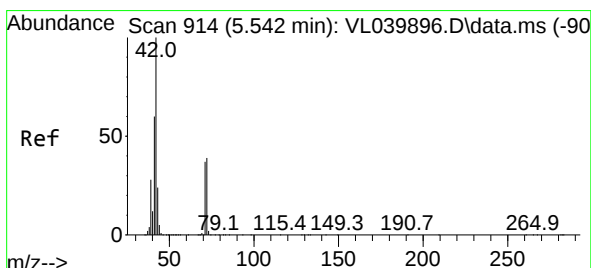
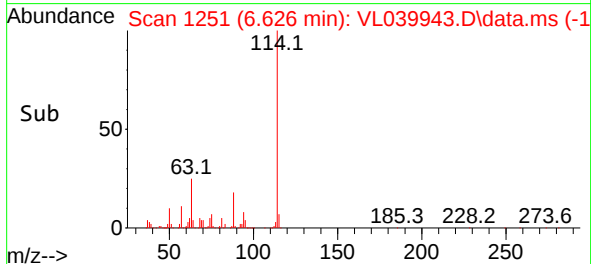
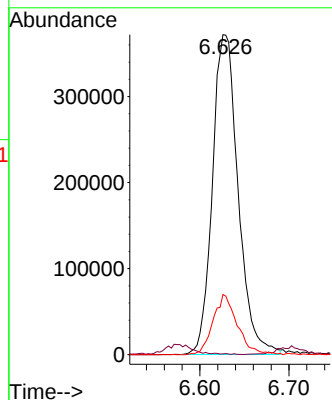
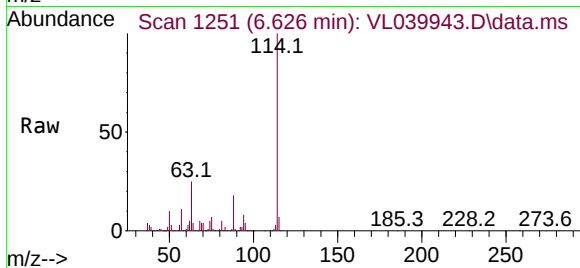
Tgt Ion: 63 Resp: 744932

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 18.8 55.0 82.6#



#41

Tetrahydrofuran

Concen: 4.049 ppbv

RT: 5.185 min Scan# 803

Delta R.T. -0.354 min

Lab File: VL039943.D

Acq: 1 Dec 2022 15:46

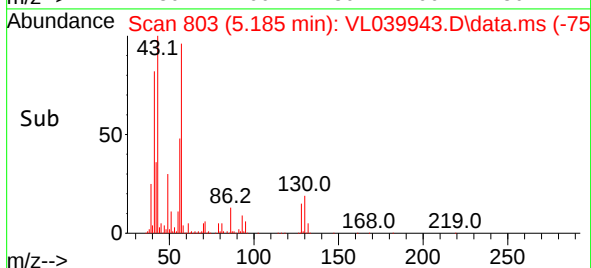
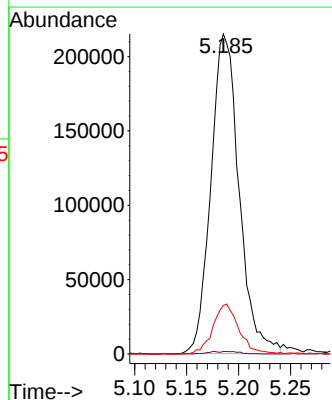
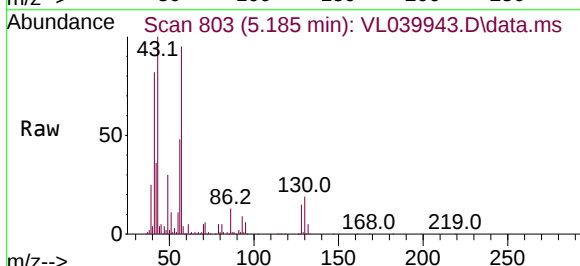
Tgt Ion: 42 Resp: 405343

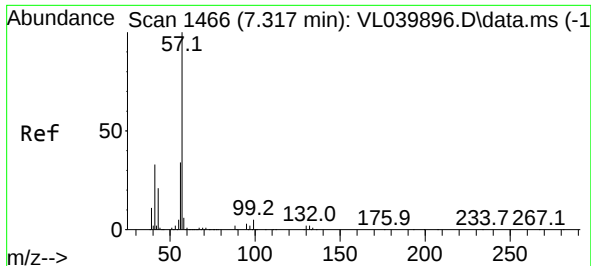
Ion Ratio Lower Upper

42 100

72 0.9 31.6 47.4#

71 14.4 31.2 46.8#

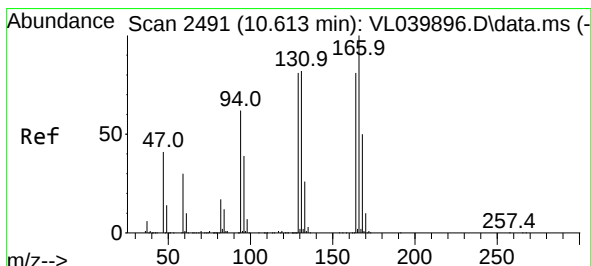
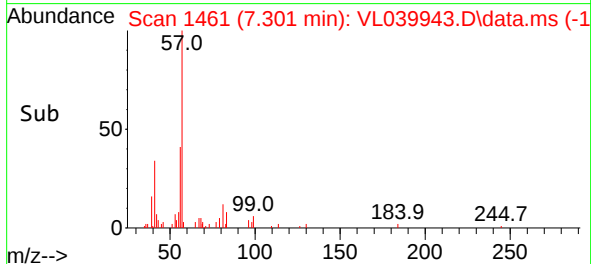
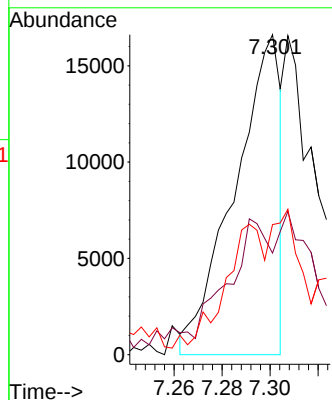
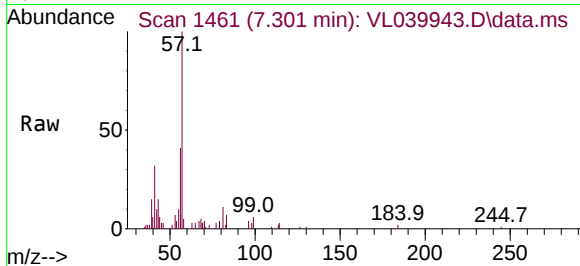




#44
2,2,4-Trimethylpentane
Concen: 0.051 ppbv
RT: 7.301 min Scan# 1466
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

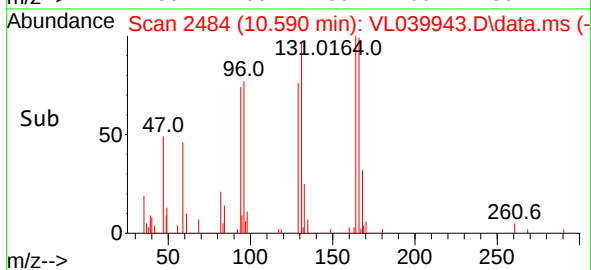
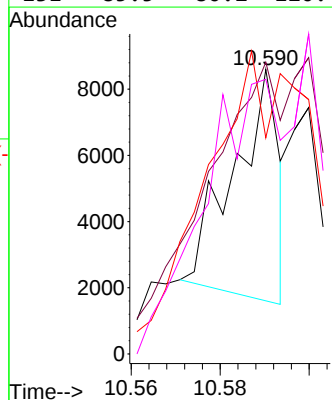
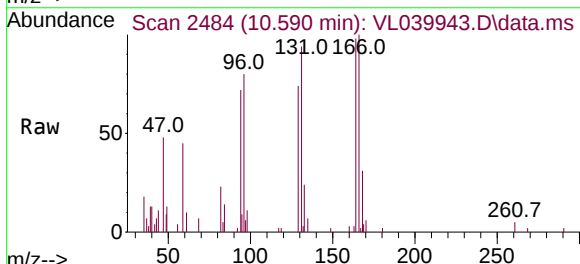
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

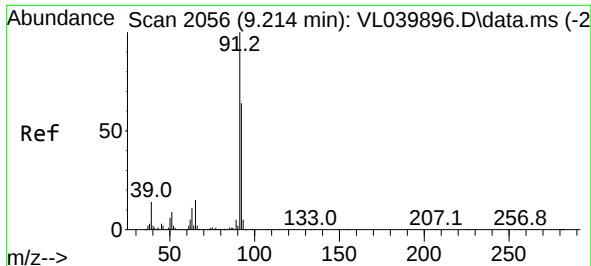
Tgt Ion: 57 Resp: 22098
Ion Ratio Lower Upper
57 100
41 0.0 26.2 39.2#
56 0.0 25.5 38.3#



#52
Tetrachloroethene
Concen: 0.050 ppbv
RT: 10.590 min Scan# 2484
Delta R.T. -0.013 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 164 Resp: 4824
Ion Ratio Lower Upper
164 100
166 86.6 98.3 147.5#
129 49.4 79.7 119.5#
131 85.5 80.2 120.4

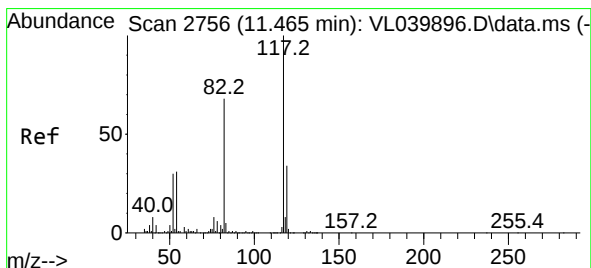
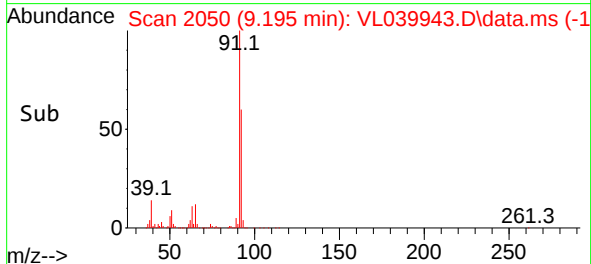
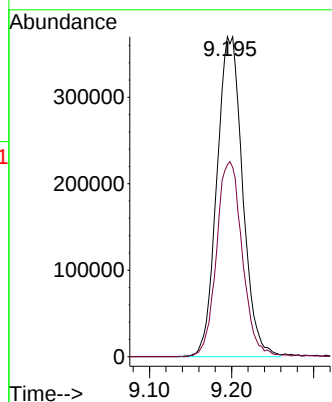
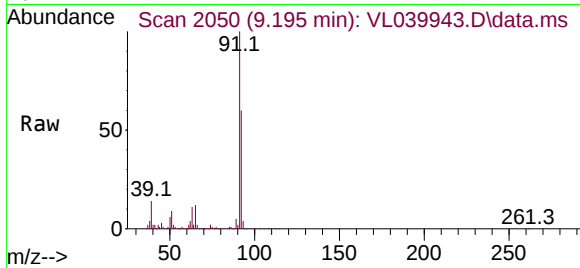




#53
Toluene
Concen: 2.751 ppbv
RT: 9.195 min Scan# 2056
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

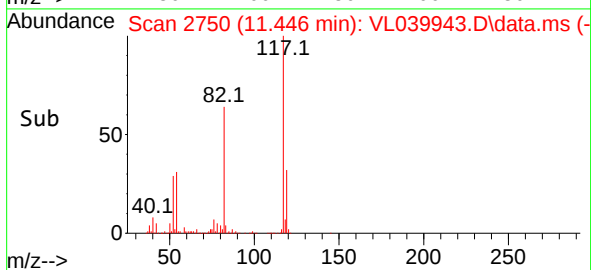
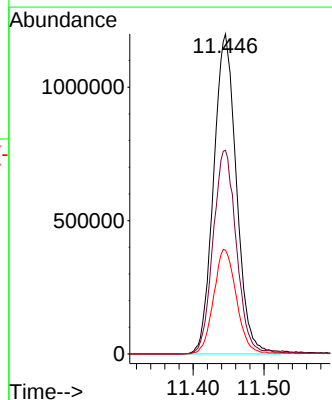
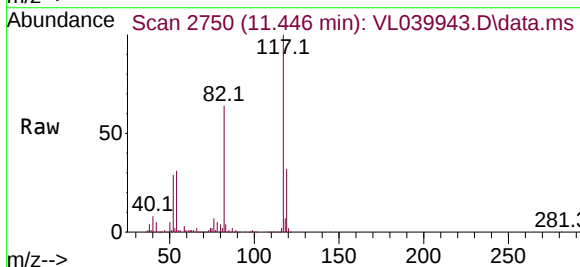
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

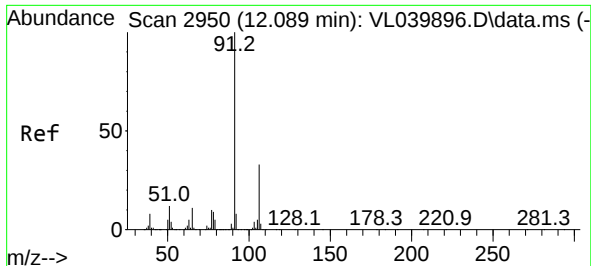
Tgt Ion: 91 Resp: 807368
Ion Ratio Lower Upper
91 100
92 61.5 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. -0.006 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 117 Resp: 2686629
Ion Ratio Lower Upper
117 100
82 65.6 52.3 78.5
119 32.9 25.7 38.5

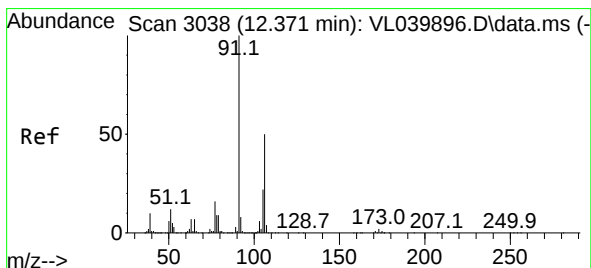
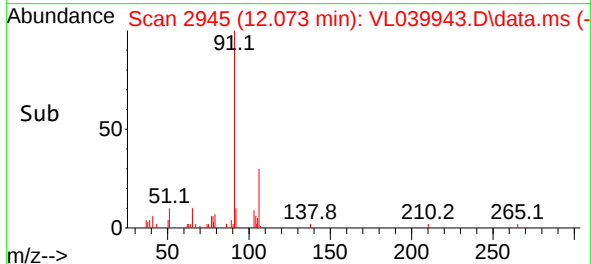
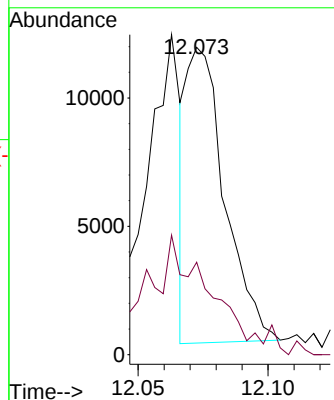
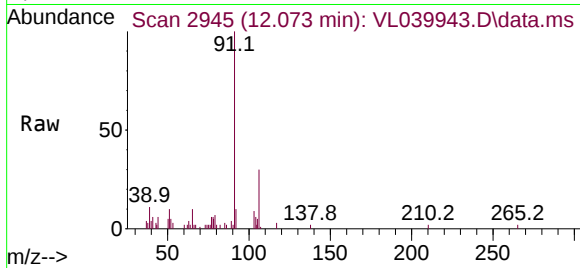




#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.003 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

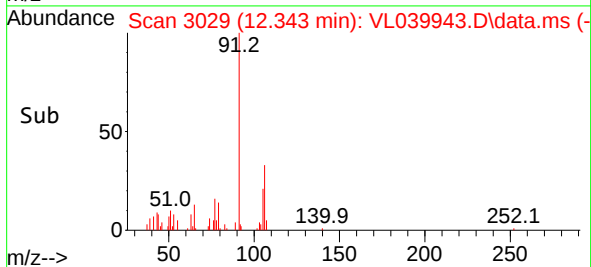
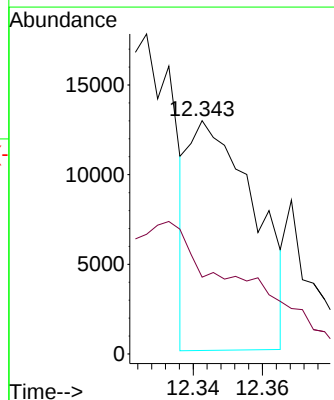
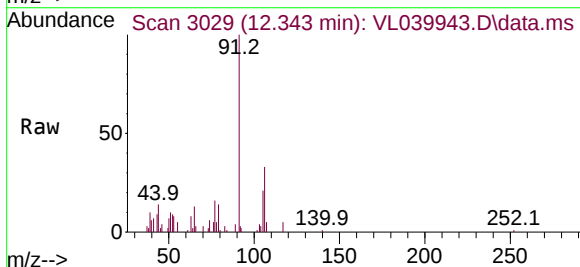
Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

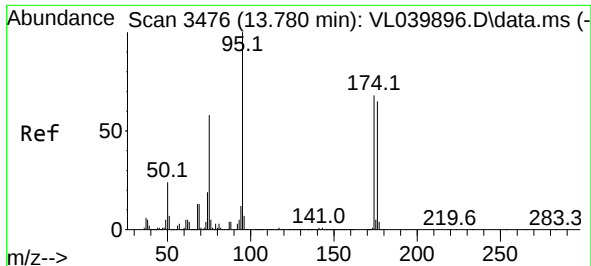
Tgt Ion: 91 Resp: 11844
Ion Ratio Lower Upper
91 100
106 29.2 26.1 39.1



#59
m/p-Xylene
Concen: 0.055 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. -0.016 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 91 Resp: 16876
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.6#

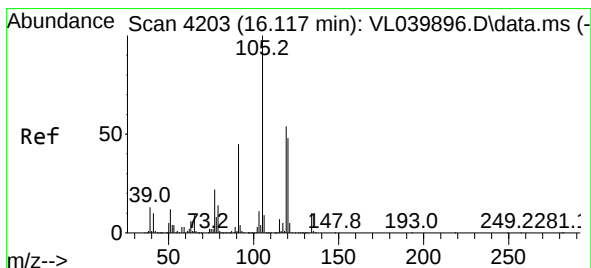
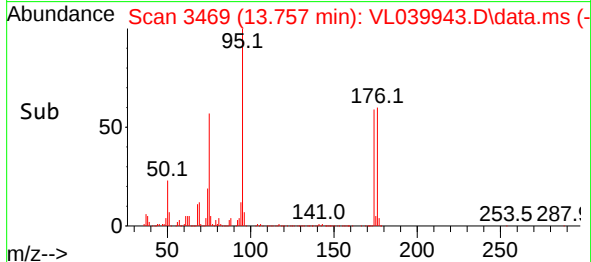
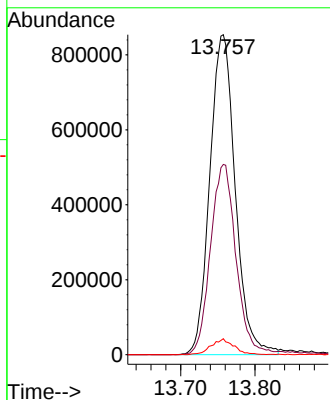
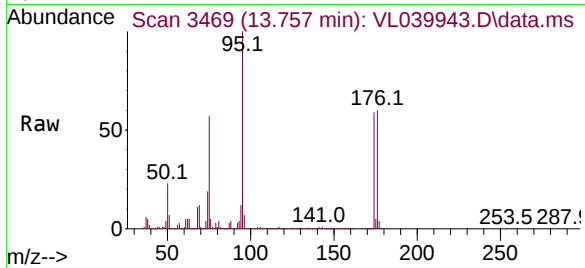




#68
1-Bromo-4-Fluorobenzene
Concen: 9.929 ppbv
RT: 13.757 min Scan# 3476
Delta R.T. -0.006 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Instrument :
MSVOA_L
ClientSampleId :
TPC-1ADUP

Tgt Ion: 95 Resp: 2037528
Ion Ratio Lower Upper
95 100
174 61.2 53.7 80.5
175 4.4 4.0 6.0



#74
1,2,4-Trimethylbenzene
Concen: 0.048 ppbv
RT: 16.088 min Scan# 4194
Delta R.T. -0.010 min
Lab File: VL039943.D
Acq: 1 Dec 2022 15:46

Tgt Ion: 105 Resp: 15168
Ion Ratio Lower Upper
105 100
120 33.6 38.7 58.1#
91 10.6 36.4 54.6#
77 27.0 17.4 26.0#

