

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071224\
 Data File : VW029556.D
 Acq On : 12 Jul 2024 17:08
 Operator : SY/MD
 Sample : P3230-01
 Misc : 5.74g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 12 23:27:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM070824SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jul 12 23:17:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.873	114	330439	25.000	ug/L	# 0.03
28) Chlorobenzene-d5	11.666	117	225213	25.000	ug/L	0.04
58) 1,4-Dichlorobenzene-d4	13.562	152	79433	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.368	65	117232	21.962	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.840%
7) Chloroethane-d5	2.905	69	69672	18.127	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	72.520%
11) 1,1-Dichloroethene-d2	4.051	65	39401	16.437	ug/L	0.03
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.760%
21) 2-Butanone-d5	7.087	46	36113	22.537	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	45.080%
24) Chloroform-d	7.672	84	158967	16.641	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	66.560%
26) 1,2-Dichloroethane-d4	8.252	65	60	0.011	ug/L	-0.06
Spiked Amount	25.000	Range	70 - 130	Recovery	=	0.040%#
32) Benzene-d6	8.300	84	305516	22.645	ug/L	0.02
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.560%
36) 1,2-Dichloropropane-d6	9.300	67	100966	23.406	ug/L	0.03
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.640%
41) Toluene-d8	10.349	98	269643	22.726	ug/L	0.03
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.920%
43) trans-1,3-Dichloroprop...	10.586	79	45154	24.719	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	98.880%
47) 2-Hexanone-d5	10.928	63	550	0.702	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.400%#
56) 1,1,2,2-Tetrachloroeth...	12.696	84	83146	23.740	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.960%
66) 1,2-Dichlorobenzene-d4	13.860	152	48948	17.694	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	70.760%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.374	62	3297266	667.396	ug/L	94
12) 1,1-Dichloroethene	4.069	96	98016	23.852	ug/L	94
13) Acetone	4.130	43	28892	17.864	ug/L	67
15) Methyl Acetate	4.685	43	2939	1.035	ug/L	92
16) Methylene chloride	4.953	84	19006	3.213	ug/L	96
17) trans-1,2-Dichloroethene	5.472	96	160676	35.320	ug/L	96
19) 1,1-Dichloroethane	6.252	63	39371	4.214	ug/L	94
22) 2-Butanone	7.215	43	15114	7.118	ug/L	# 1
30) 1,1,1-Trichloroethane	7.892	97	23173	4.506	ug/L	# 16
31) Carbon tetrachloride	7.892	117	5998	1.273	ug/L	# 68
34) Trichloroethene	9.099	95	20918486	5621.652	ug/L	96
35) Methylcyclohexane	9.294	83	9863	1.649	ug/L	# 14
37) 1,2-Dichloropropane	9.294	63	11634	2.986	ug/L	# 96
39) cis-1,3-Dichloropropene	10.044	75	3614	0.618	ug/L	# 56
40) 4-Methyl-2-pentanone	10.105	43	6254	2.277	ug/L	# 49
42) Toluene	10.404	91	10035627	696.174	ug/L	100
45) 1,1,2-Trichloroethane	10.800	97	51536	18.390	ug/L	# 33
46) Tetrachloroethene	10.879	164	29737313	11248.689	ug/L	93
48) 2-Hexanone	10.977	43	6733	3.264	ug/L	# 44

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

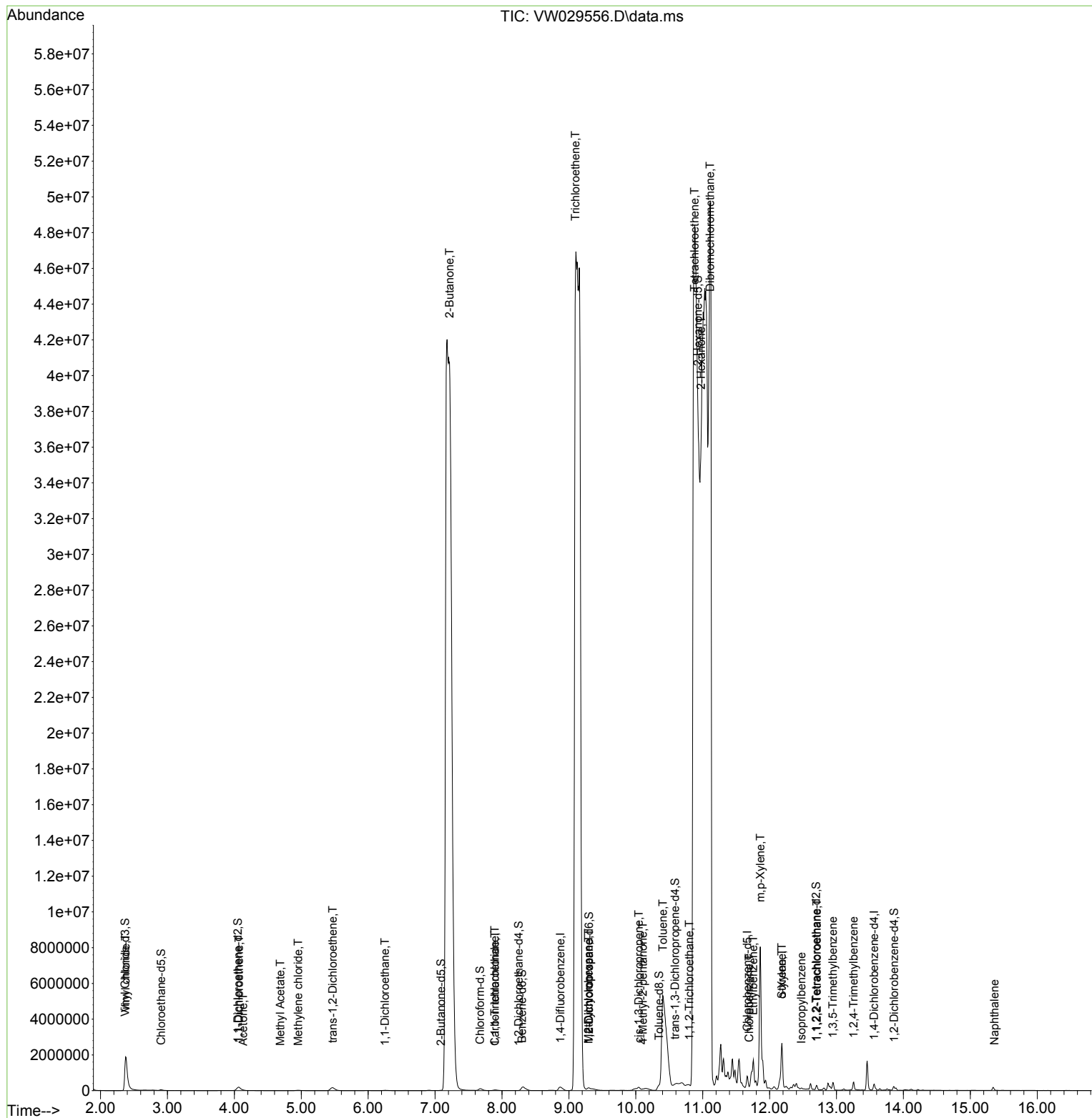
49) Dibromochloromethane	11.111	129	11293535	3872.490	ug/L #	12
51) Chlorobenzene	11.696	112	3508	0.376	ug/L #	65
52) Ethylbenzene	11.757	91	694575	42.528	ug/L	100
53) m,p-Xylene	11.861	106	1600293	266.913	ug/L	99
54) o-Xylene	12.184	106	593221	106.975	ug/L	100
55) Styrene	12.184	104	30657	3.144	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	1724	0.488	ug/L #	68
60) Isopropylbenzene	12.476	105	57741	5.166	ug/L	98
62) 1,3,5-Trimethylbenzene	12.946	105	199809	25.133	ug/L	100
63) 1,2,4-Trimethylbenzene	13.257	105	245888	28.024	ug/L	100
71) Naphthalene	15.360	128	11400	1.889	ug/L #	96

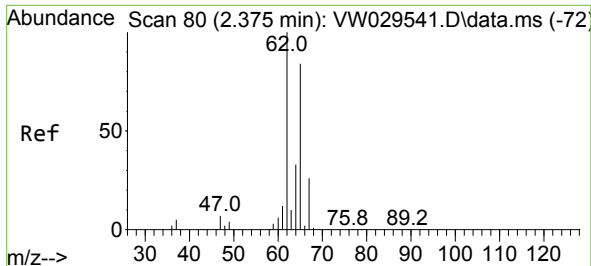
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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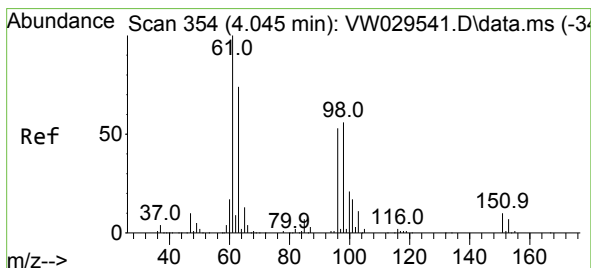
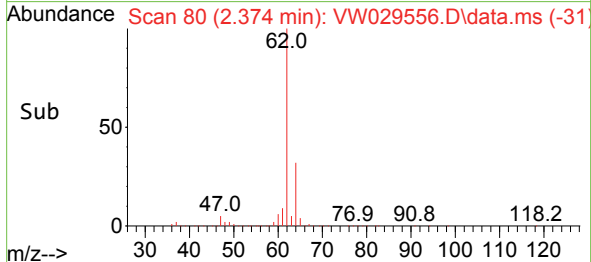
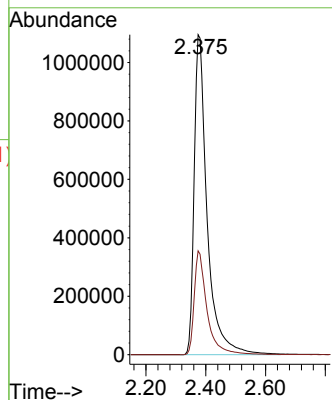
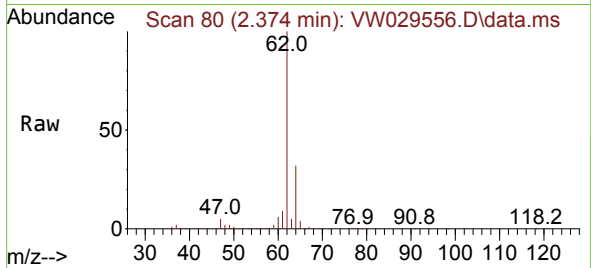




#5
 Vinyl chloride
 Concen: 667.396 ug/L
 RT: 2.374 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VW029556.D
 Acq: 12 Jul 2024 17:08

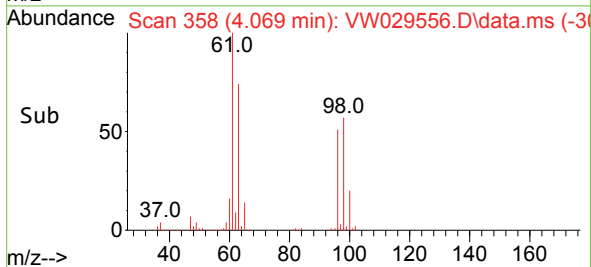
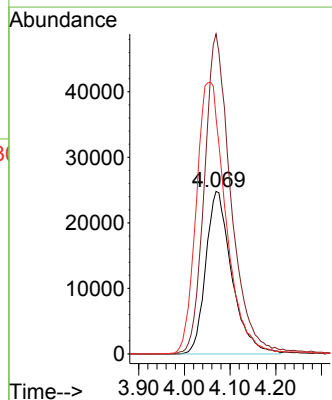
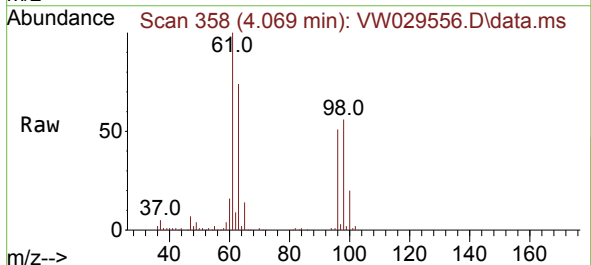
Instrument :
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 ClientSampleId :

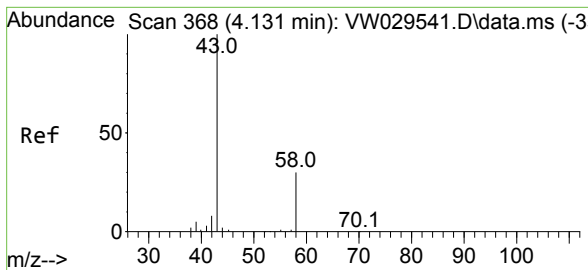
Tgt Ion: 62 Resp: 3297266
 Ion Ratio Lower Upper
 62 100
 64 32.4 25.1 46.5



#12
 1,1-Dichloroethene
 Concen: 23.852 ug/L
 RT: 4.069 min Scan# 358
 Delta R.T. 0.024 min
 Lab File: VW029556.D
 Acq: 12 Jul 2024 17:08

Tgt Ion: 96 Resp: 98016
 Ion Ratio Lower Upper
 96 100
 61 196.9 132.4 245.8
 63 145.3 108.4 201.2





#13

Acetone

Concen: 17.864 ug/L

RT: 4.130 min Scan# 3

Delta R.T. -0.000 min

Lab File: VW029556.D

Acq: 12 Jul 2024 17:08

Instrument :

MSVOA_W

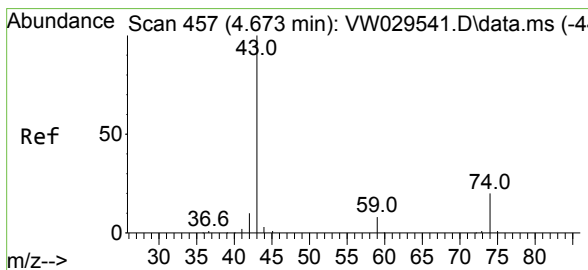
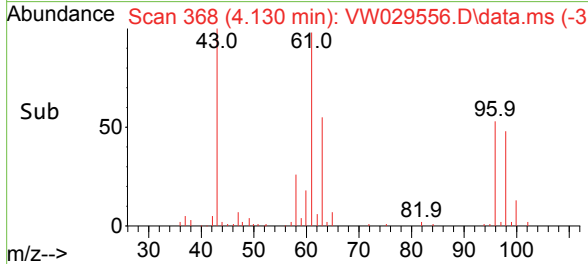
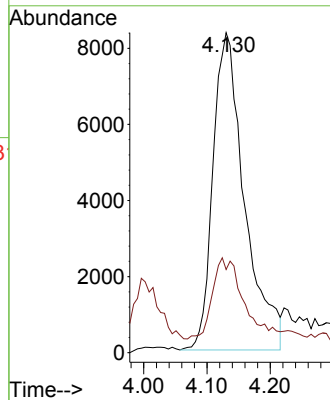
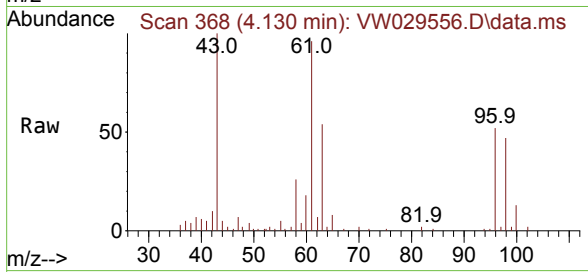
ClientSampleId :

Tgt Ion: 43 Resp: 28892

Ion Ratio Lower Upper

43 100

58 10.6 0.0 55.6



#15

Methyl Acetate

Concen: 1.035 ug/L

RT: 4.685 min Scan# 459

Delta R.T. 0.012 min

Lab File: VW029556.D

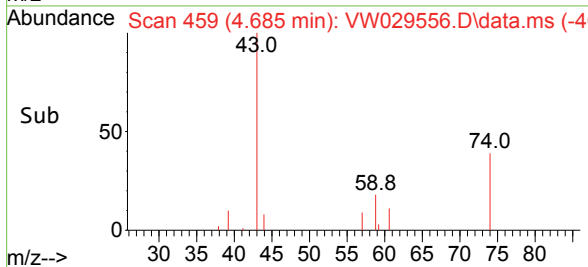
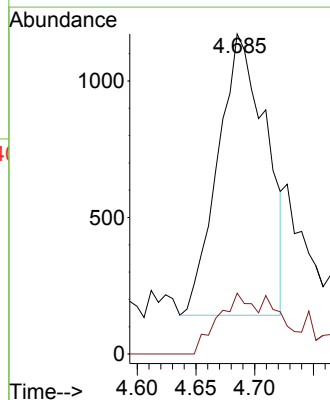
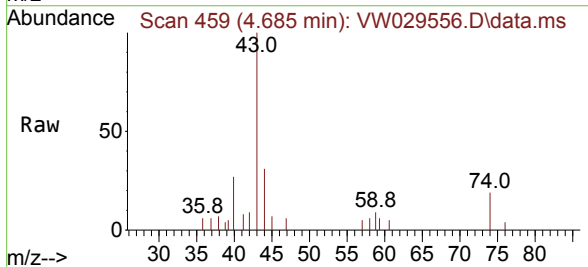
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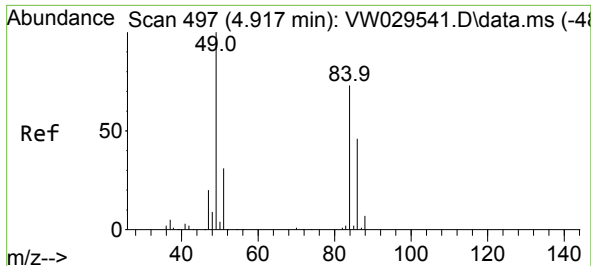
Tgt Ion: 43 Resp: 2939

Ion Ratio Lower Upper

43 100

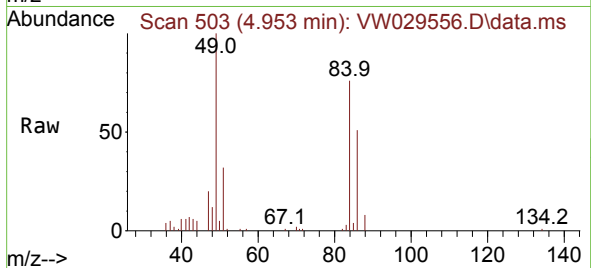
74 16.5 16.2 24.4



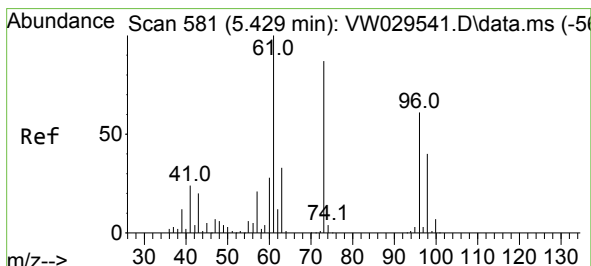
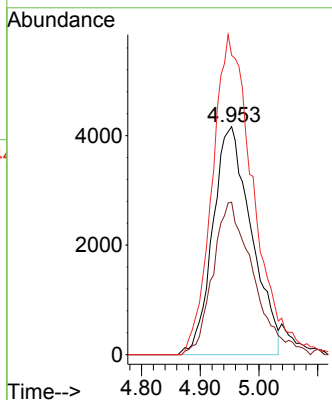
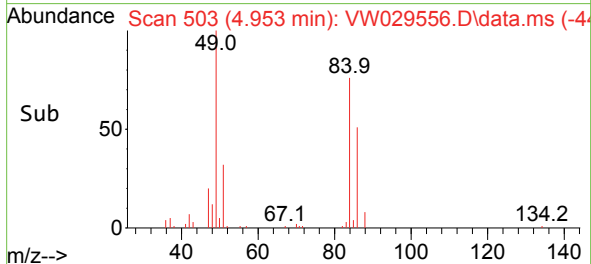


#16
Methylene chloride
Concen: 3.213 ug/L
RT: 4.953 min Scan# 503
Delta R.T. 0.036 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Instrument :
MSVOA_W
ClientSampleId :

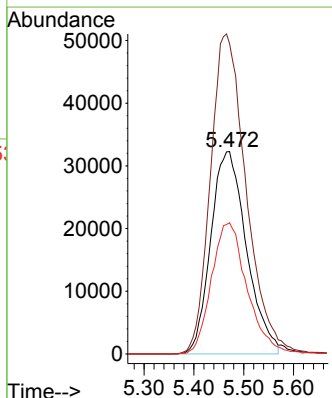
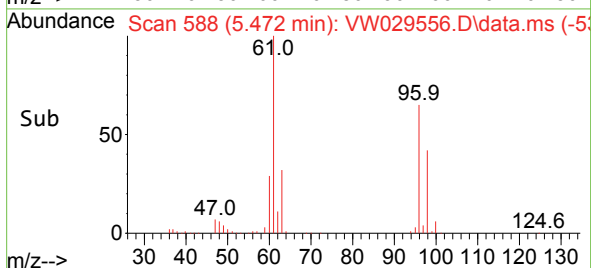
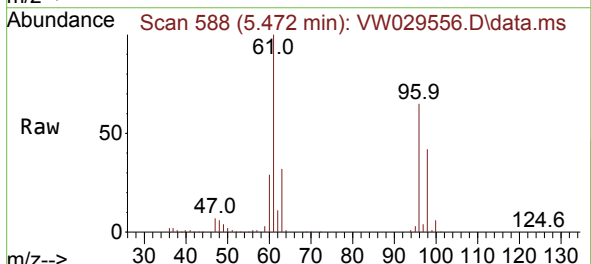


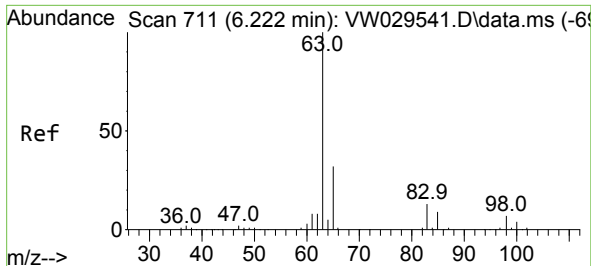
Tgt Ion: 84 Resp: 19006
Ion Ratio Lower Upper
84 100
86 66.9 46.2 85.8
49 131.3 96.7 179.7



#17
trans-1,2-Dichloroethene
Concen: 35.320 ug/L
RT: 5.472 min Scan# 588
Delta R.T. 0.042 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

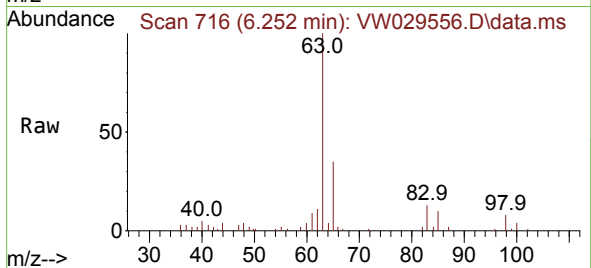
Tgt Ion: 96 Resp: 160676
Ion Ratio Lower Upper
96 100
61 153.4 102.9 191.1
98 64.8 43.9 81.5



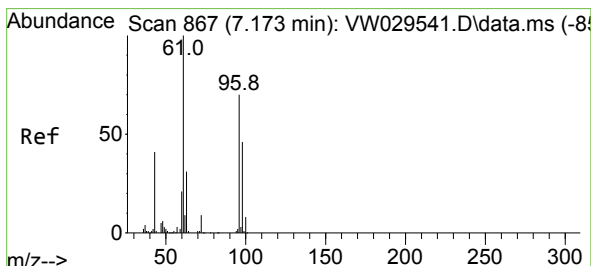
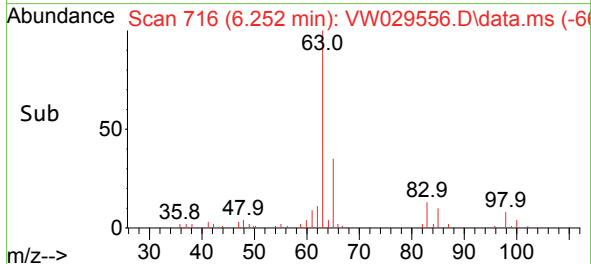
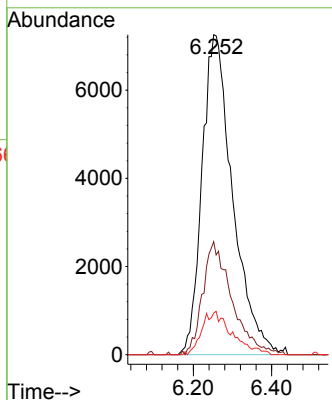


#19
1,1-Dichloroethane
Concen: 4.214 ug/L
RT: 6.252 min Scan# 711
Delta R.T. 0.030 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Instrument :
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ClientSampleId :

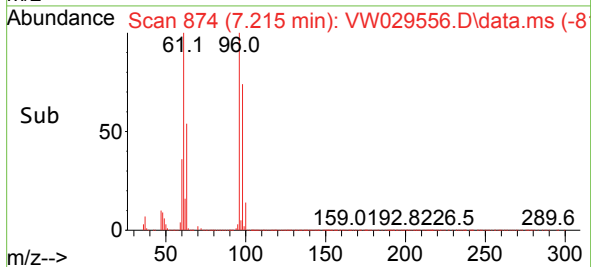
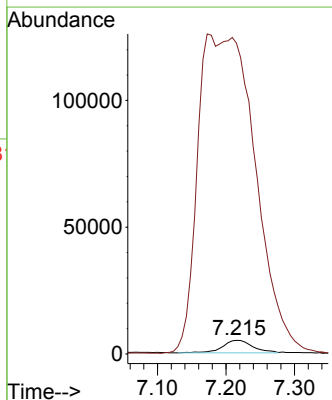
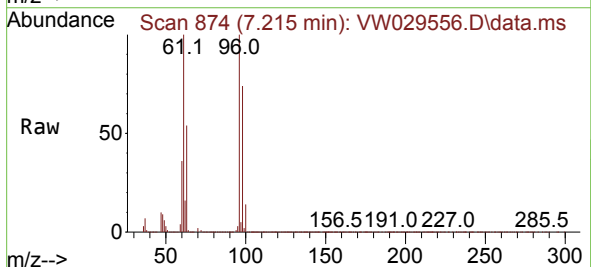


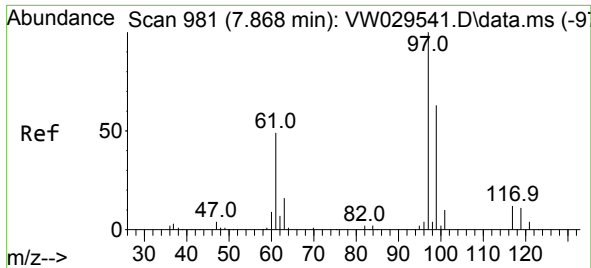
Tgt Ion: 63 Resp: 39371
Ion Ratio Lower Upper
63 100
65 35.3 21.5 39.9
83 13.0 8.7 16.1



#22
2-Butanone
Concen: 7.118 ug/L
RT: 7.215 min Scan# 874
Delta R.T. 0.042 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Tgt Ion: 43 Resp: 15114
Ion Ratio Lower Upper
43 100
72 1664.9 12.0 36.1#

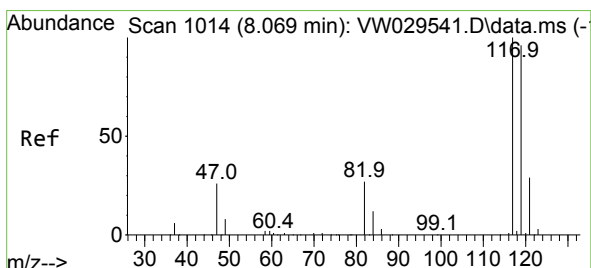
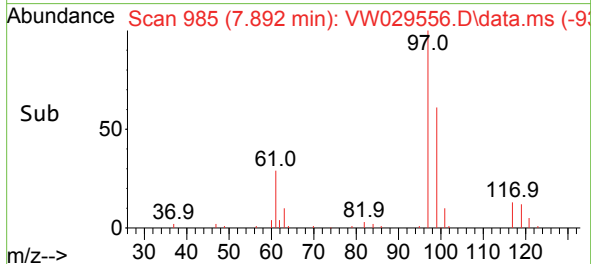
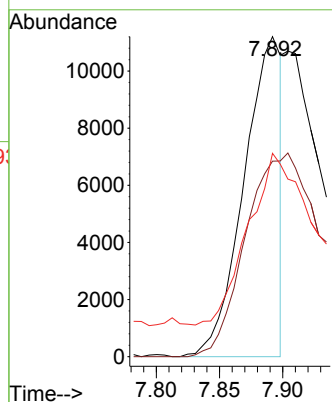
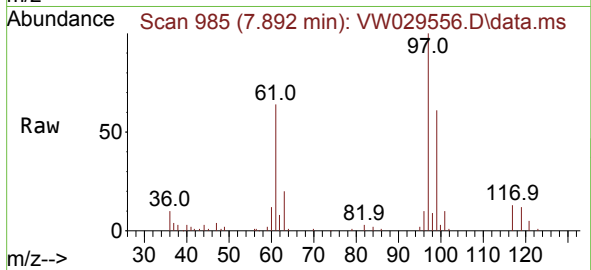




#30
1,1,1-Trichloroethane
Concen: 4.506 ug/L
RT: 7.892 min Scan# 985
Delta R.T. 0.024 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

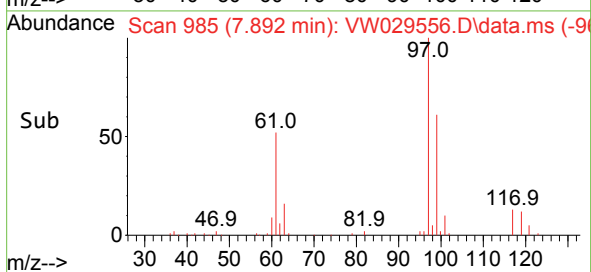
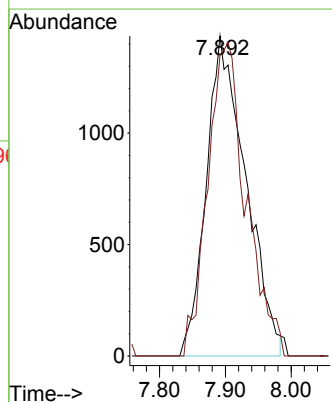
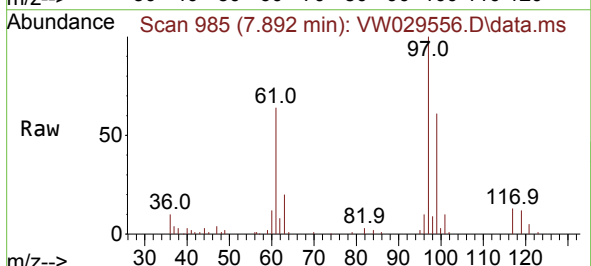
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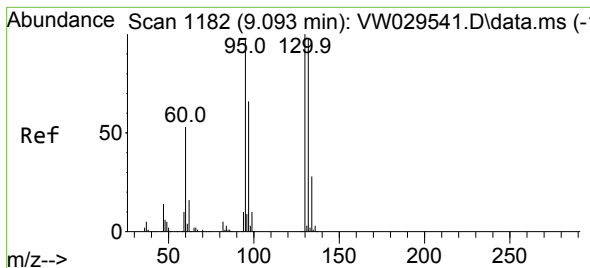
Tgt Ion: 97 Resp: 23173
Ion Ratio Lower Upper
97 100
99 134.6 51.1 76.7#
61 103.6 40.6 61.0#



#31
Carbon tetrachloride
Concen: 1.273 ug/L
RT: 7.892 min Scan# 985
Delta R.T. -0.177 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Tgt Ion: 117 Resp: 5998
Ion Ratio Lower Upper
117 100
119 64.9 77.0 115.6#





#34

Trichloroethene

Concen: 5621.652 ug/L

RT: 9.099 min Scan# 1182

Delta R.T. 0.006 min

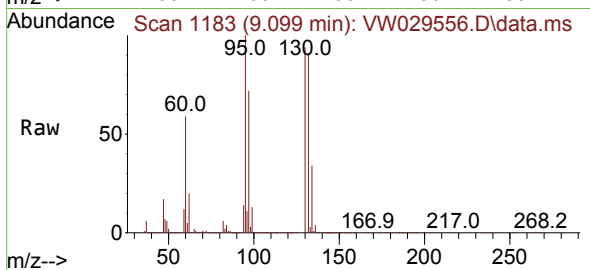
Lab File: VW029556.D

Acq: 12 Jul 2024 17:08

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 95 Resp: 20918486

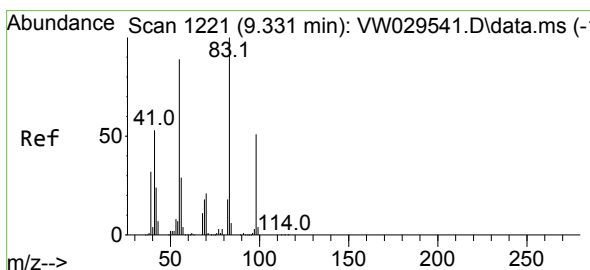
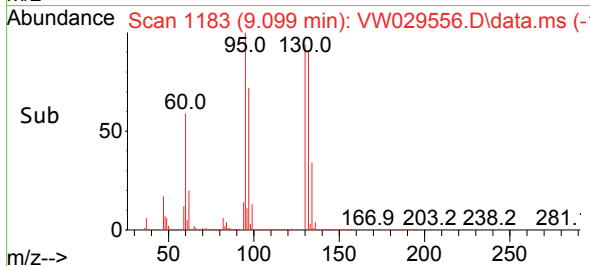
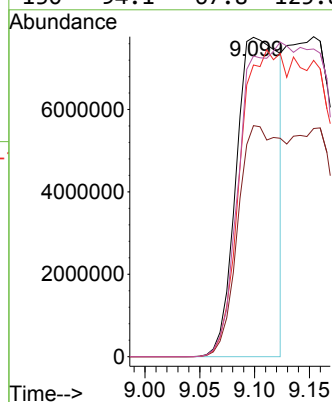
Ion Ratio Lower Upper

95 100

97 72.3 47.3 87.9

132 91.3 65.8 122.2

130 94.1 67.8 125.8



#35

Methylcyclohexane

Concen: 1.649 ug/L

RT: 9.294 min Scan# 1215

Delta R.T. -0.037 min

Lab File: VW029556.D

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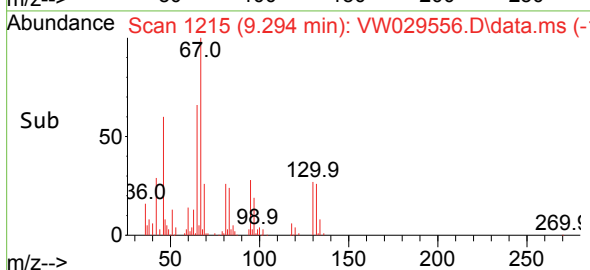
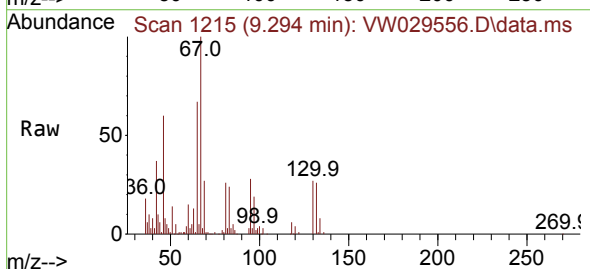
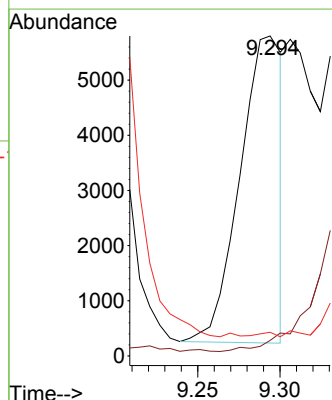
Tgt Ion: 83 Resp: 9863

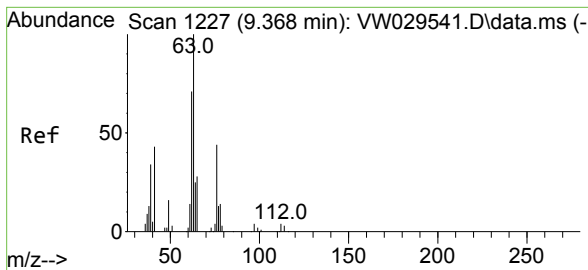
Ion Ratio Lower Upper

83 100

55 0.0 69.6 104.4#

98 0.5 38.3 57.5#

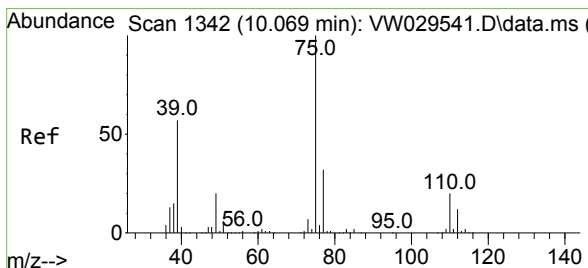
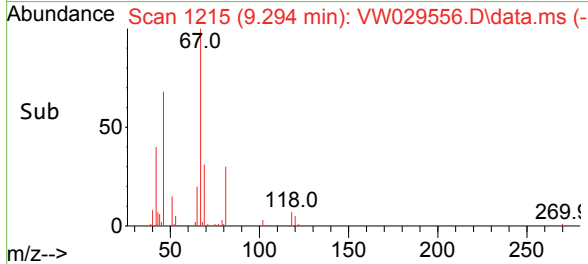
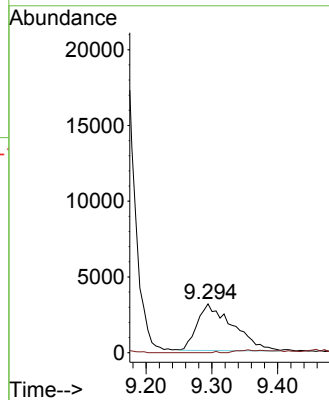
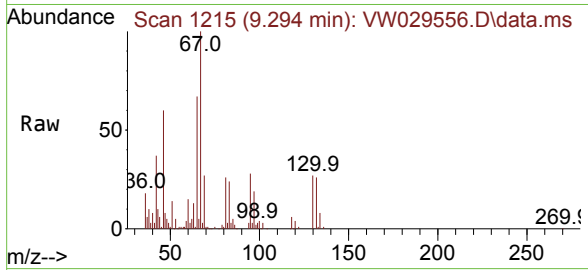




#37
1,2-Dichloropropane
Concen: 2.986 ug/L
RT: 9.294 min Scan# 11634
Delta R.T. -0.074 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

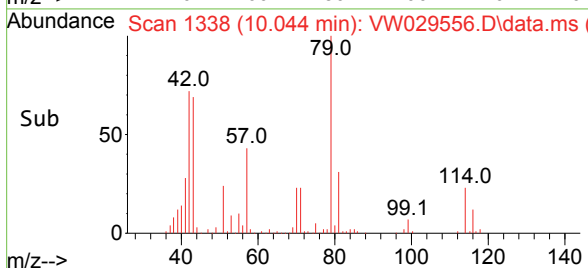
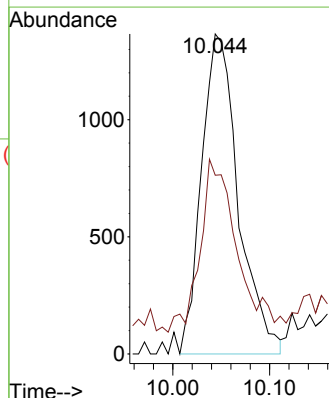
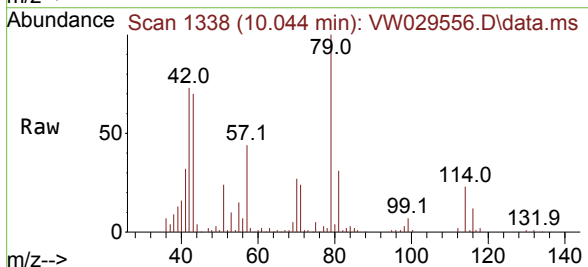
Instrument :
MSVOA_W
ClientSampleId :

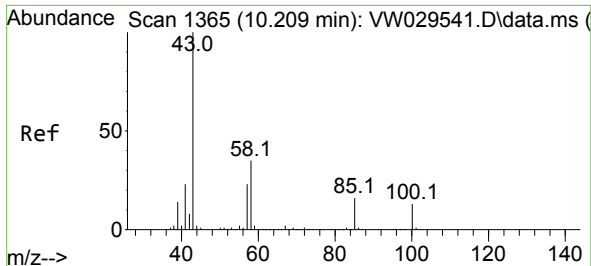
Tgt Ion: 63 Resp: 11634
Ion Ratio Lower Upper
63 100
112 2.9 3.3 4.9#



#39
cis-1,3-Dichloropropene
Concen: 0.618 ug/L
RT: 10.044 min Scan# 1338
Delta R.T. -0.025 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Tgt Ion: 75 Resp: 3614
Ion Ratio Lower Upper
75 100
77 55.9 22.2 41.2#

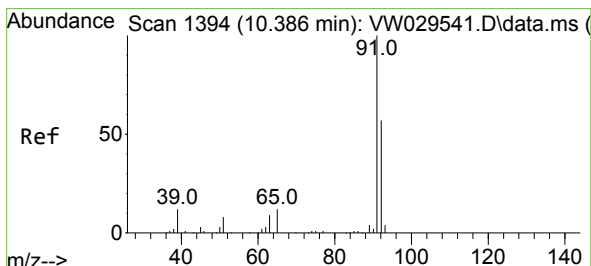
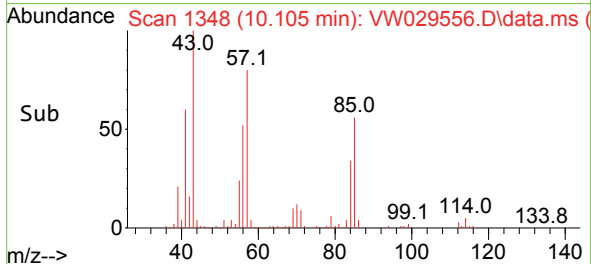
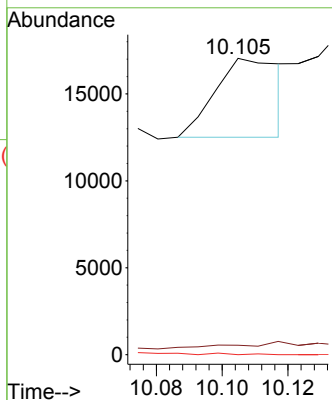
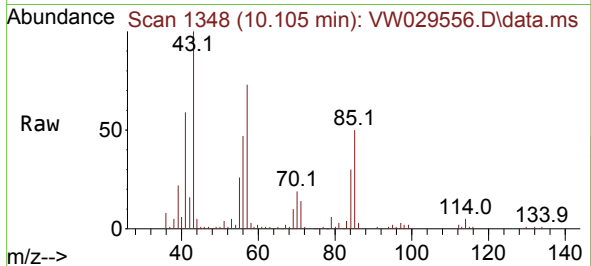




#40
4-Methyl-2-pentanone
Concen: 2.277 ug/L
RT: 10.105 min Scan# 1365
Delta R.T. -0.104 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

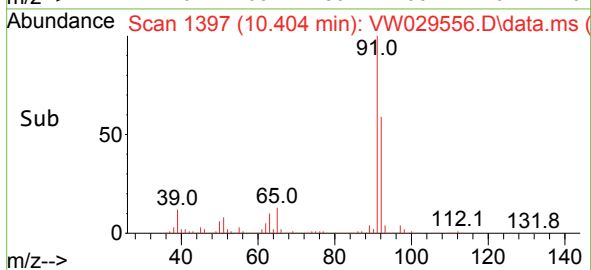
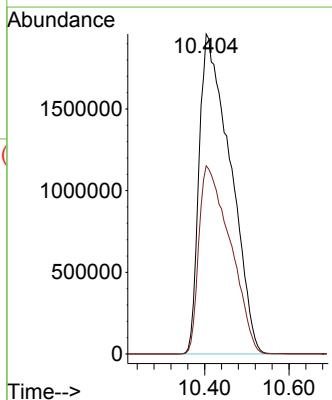
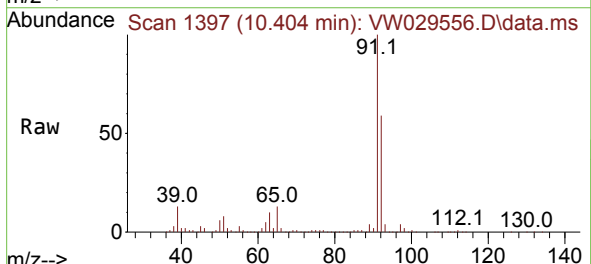
Instrument :
MSVOA_W
ClientSampleId :

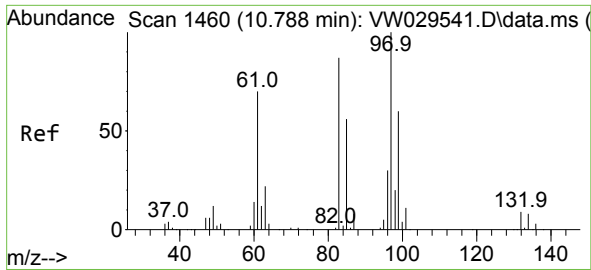
Tgt Ion: 43 Resp: 6254
Ion Ratio Lower Upper
43 100
58 2.3 29.0 43.6#
100 0.3 10.5 15.7#



#42
Toluene
Concen: 696.174 ug/L
RT: 10.404 min Scan# 1397
Delta R.T. 0.018 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

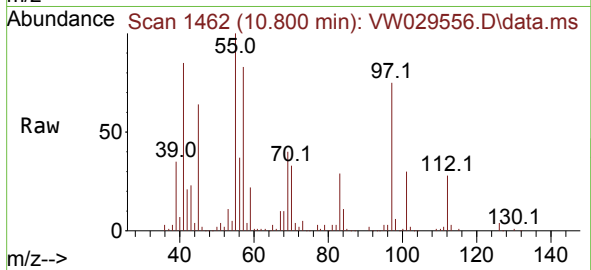
Tgt Ion: 91 Resp:10035627
Ion Ratio Lower Upper
91 100
92 58.8 41.1 76.3



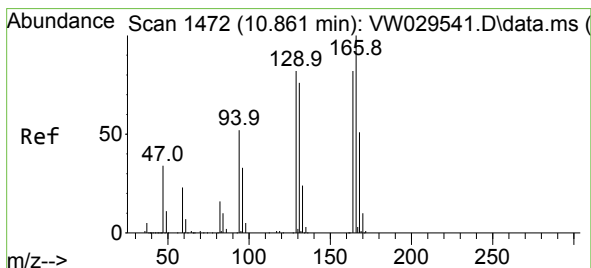
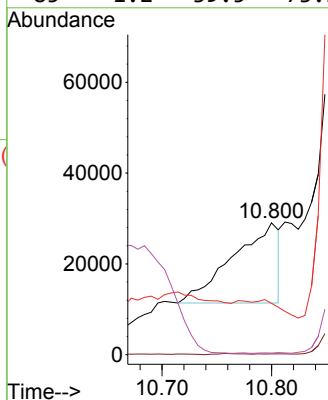
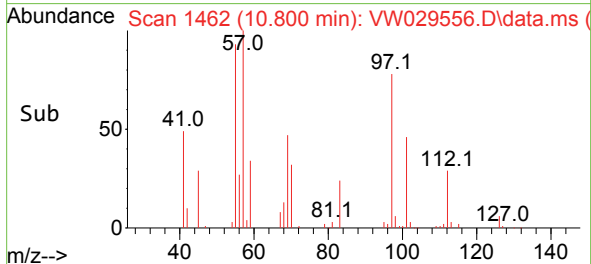


#45
1,1,2-Trichloroethane
Concen: 18.390 ug/L
RT: 10.800 min Scan# 1460
Delta R.T. 0.012 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

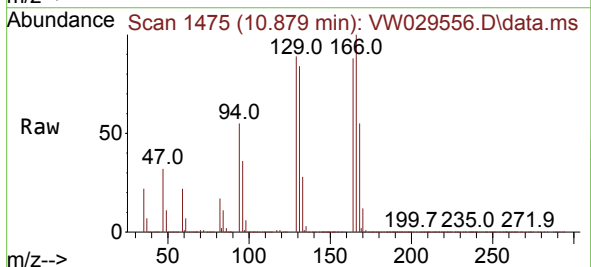
Instrument :
MSVOA_W
ClientSampleId :



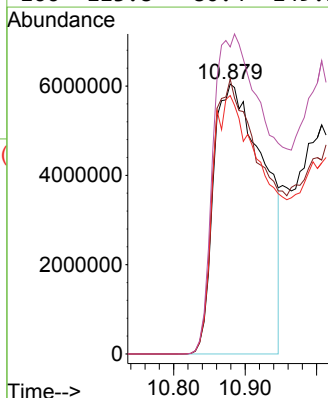
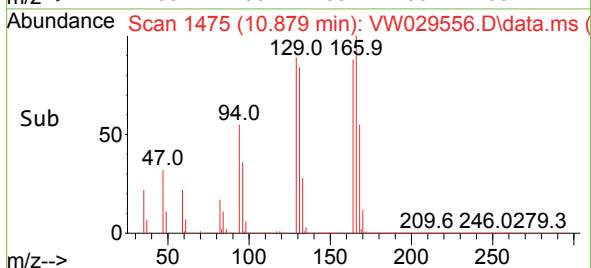
Tgt Ion:	97	Resp:	51536
Ion	Ratio	Lower	Upper
97	100		
99	0.6	43.8	81.4#
83	39.0	60.3	111.9#
85	1.2	39.5	73.3#

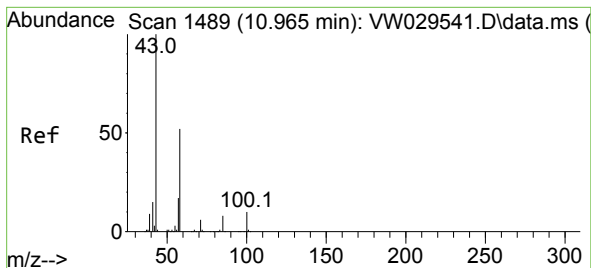


#46
Tetrachloroethene
Concen: 11248.689 ug/L
RT: 10.879 min Scan# 1475
Delta R.T. 0.018 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08



Tgt Ion:	164	Resp:	29737313
Ion	Ratio	Lower	Upper
164	100		
129	101.8	60.0	111.4
131	95.8	64.6	120.0
166	113.8	80.4	149.2





#48

2-Hexanone

Concen: 3.264 ug/L

RT: 10.977 min Scan# 14

Delta R.T. 0.012 min

Lab File: VW029556.D

Acq: 12 Jul 2024 17:08

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 43 Resp: 6733

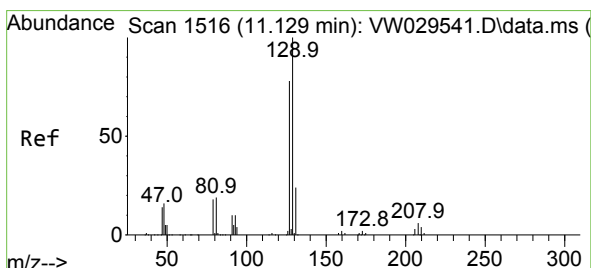
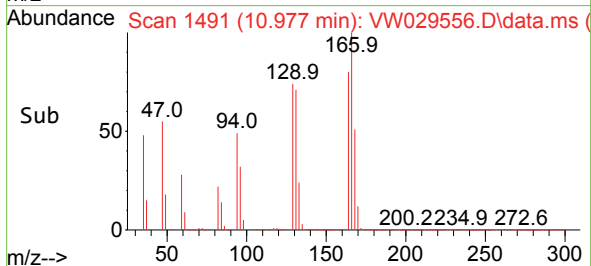
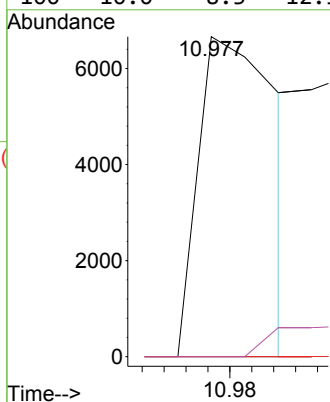
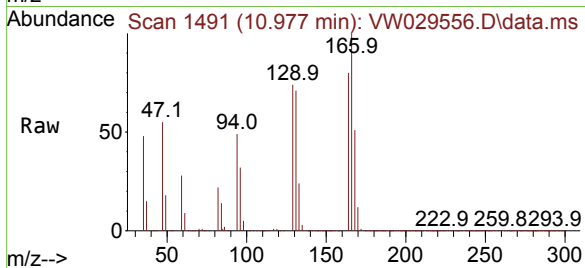
Ion Ratio Lower Upper

43 100

58 0.0 39.8 59.8#

57 0.0 14.6 21.8#

100 10.0 8.3 12.5



#49

Dibromochloromethane

Concen: 3872.490 ug/L

RT: 11.111 min Scan# 1513

Delta R.T. -0.019 min

Lab File: VW029556.D

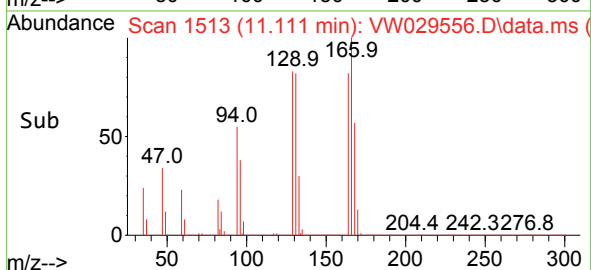
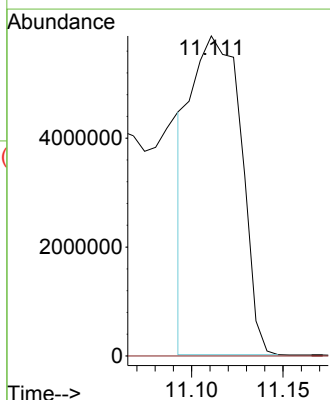
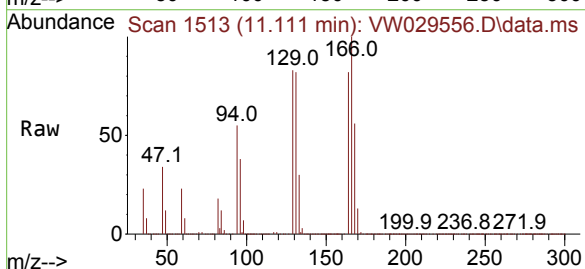
Acq: 12 Jul 2024 17:08

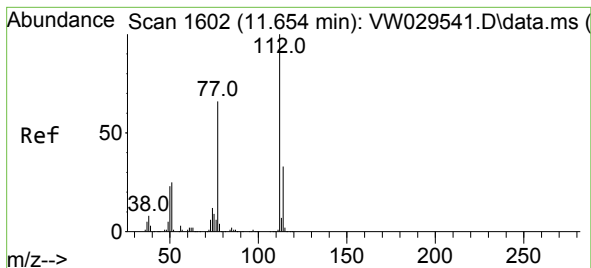
Tgt Ion: 129 Resp: 11293535

Ion Ratio Lower Upper

129 100

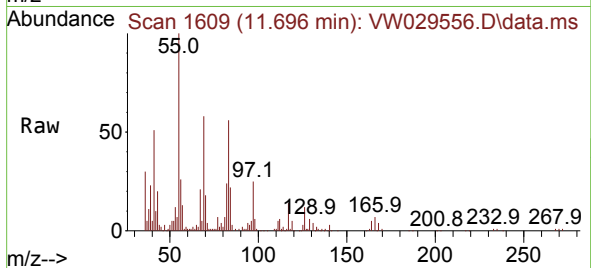
127 0.0 51.9 96.3#



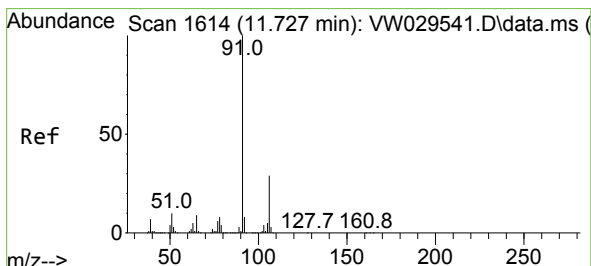
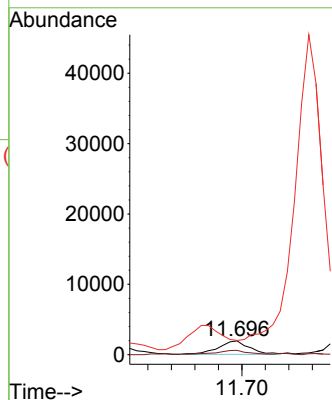
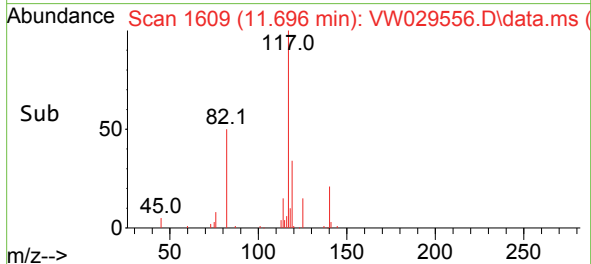


#51
Chlorobenzene
Concen: 0.376 ug/L
RT: 11.696 min Scan# 1609
Delta R.T. 0.042 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

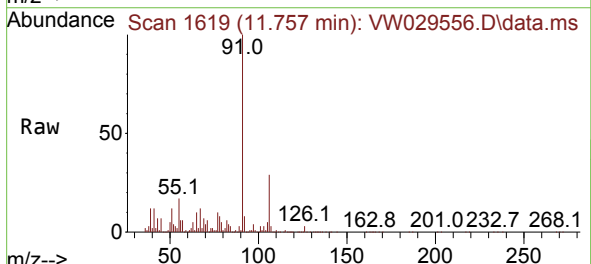
Instrument :
MSVOA_W
ClientSampleId :



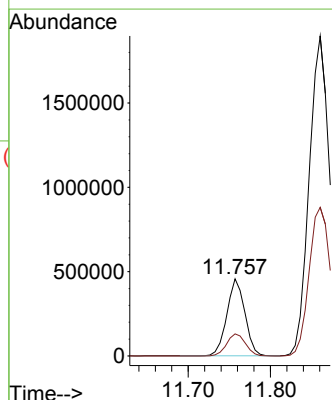
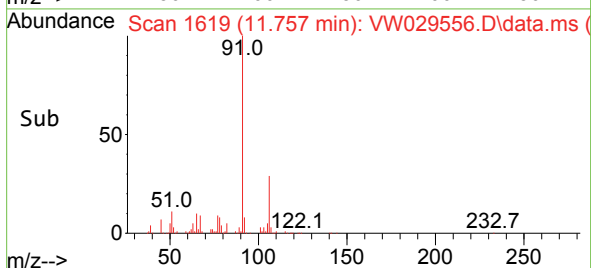
Tgt Ion:112 Resp: 3508
Ion Ratio Lower Upper
112 100
114 31.2 22.6 42.0
77 103.0 49.9 74.9#

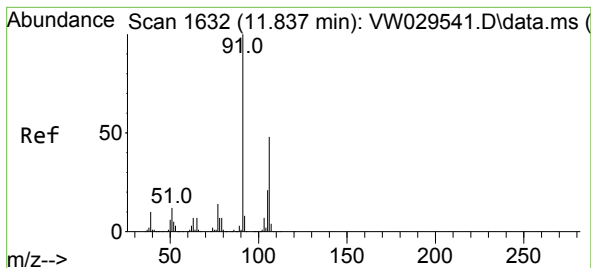


#52
Ethylbenzene
Concen: 42.528 ug/L
RT: 11.757 min Scan# 1619
Delta R.T. 0.030 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08



Tgt Ion: 91 Resp: 694575
Ion Ratio Lower Upper
91 100
106 28.7 20.2 37.6

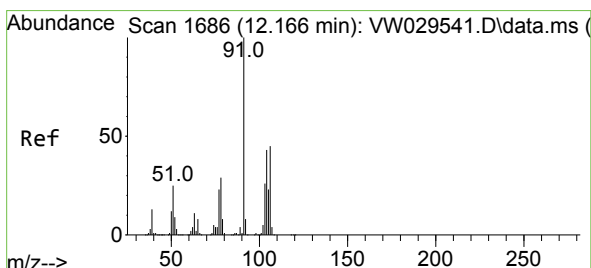
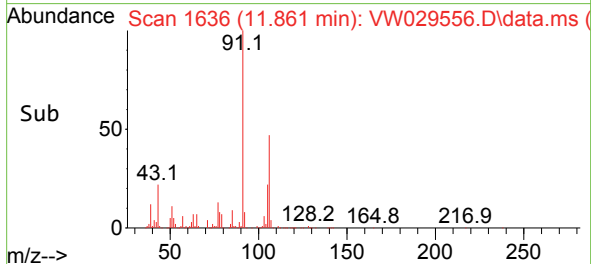
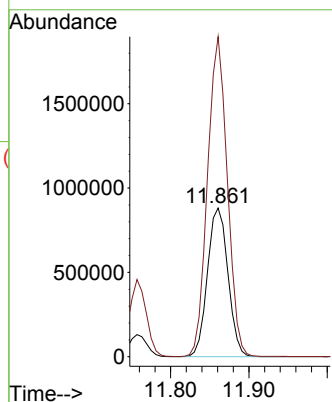
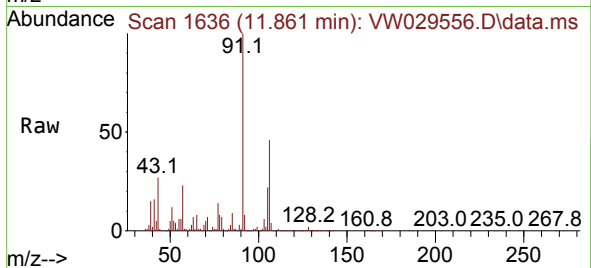




#53
m,p-Xylene
Concen: 266.913 ug/L
RT: 11.861 min Scan# 1636
Delta R.T. 0.024 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

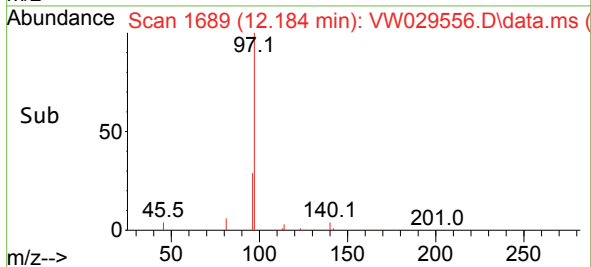
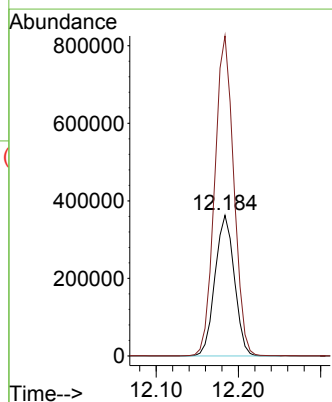
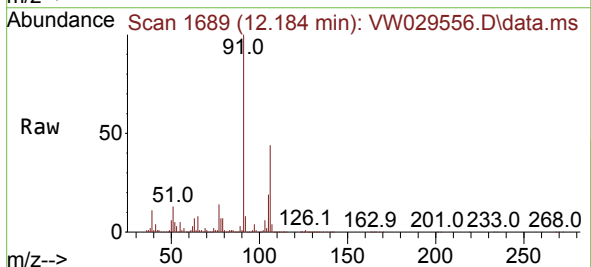
Instrument :
MSVOA_W
ClientSampleId :

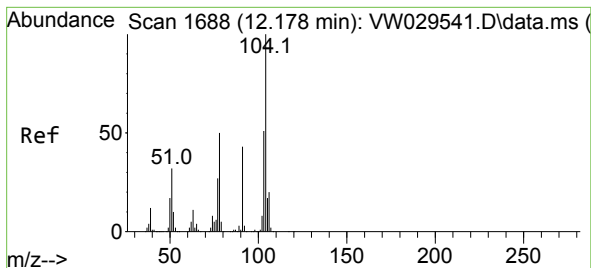
Tgt Ion:106 Resp: 1600293
Ion Ratio Lower Upper
106 100
91 215.2 149.3 277.3



#54
o-Xylene
Concen: 106.975 ug/L
RT: 12.184 min Scan# 1689
Delta R.T. 0.018 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Tgt Ion:106 Resp: 593221
Ion Ratio Lower Upper
106 100
91 227.5 159.2 295.6





#55

Styrene

Concen: 3.144 ug/L

RT: 12.184 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW029556.D

Acq: 12 Jul 2024 17:08

Instrument :

MSVOA_W

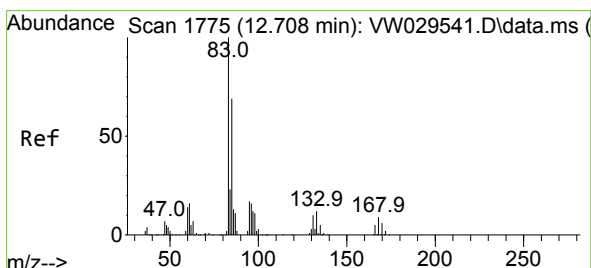
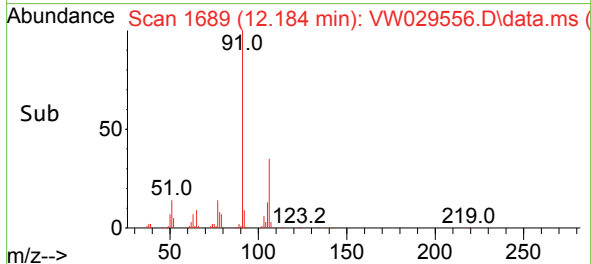
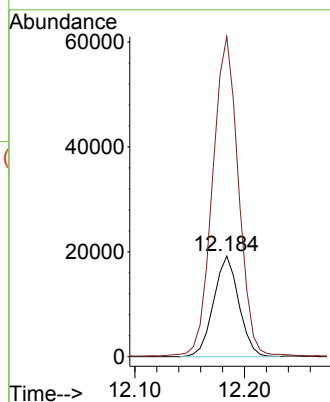
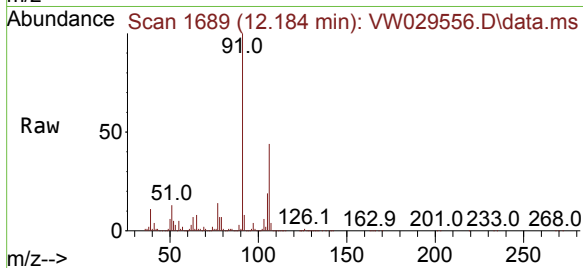
ClientSampleId :

Tgt Ion:104 Resp: 30657

Ion Ratio Lower Upper

104 100

78 318.2 34.7 64.5#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.488 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VW029556.D

Acq: 12 Jul 2024 17:08

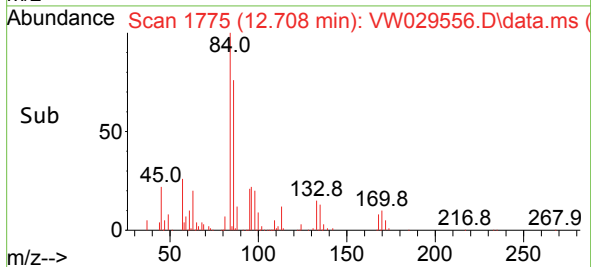
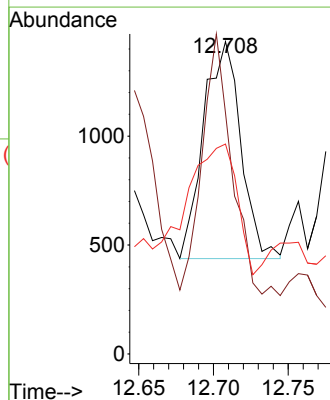
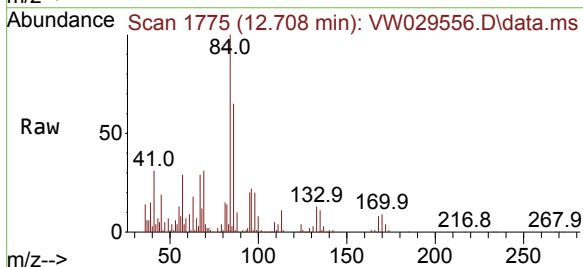
Tgt Ion: 83 Resp: 1724

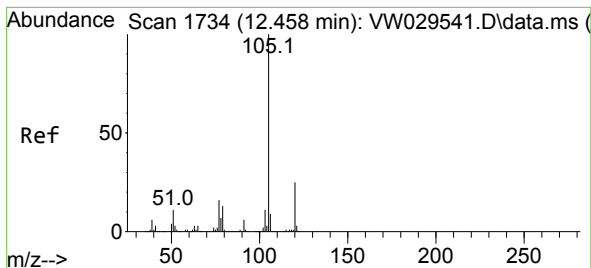
Ion Ratio Lower Upper

83 100

85 77.2 45.4 84.4

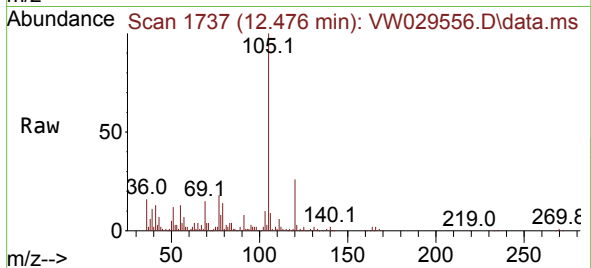
131 67.2 6.4 9.6#



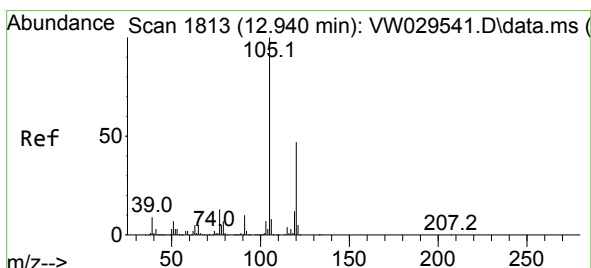
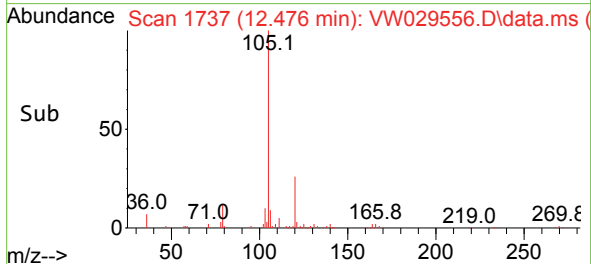
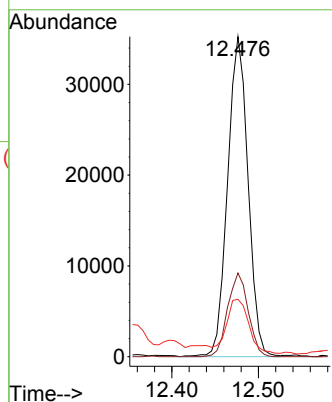


#60
Isopropylbenzene
Concen: 5.166 ug/L
RT: 12.476 min Scan# 1737
Delta R.T. 0.018 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Instrument :
MSVOA_W
ClientSampleId :

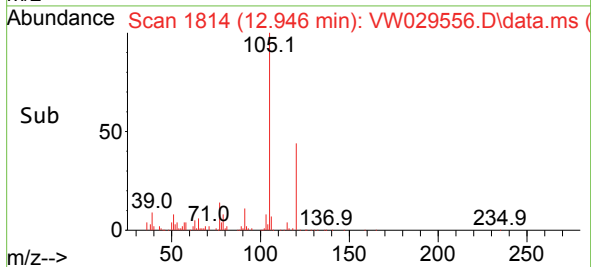
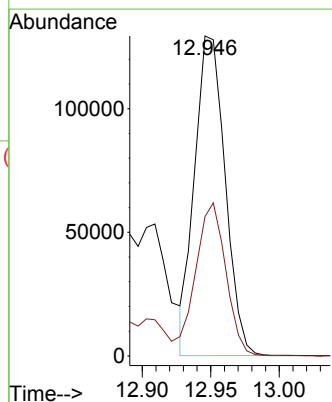
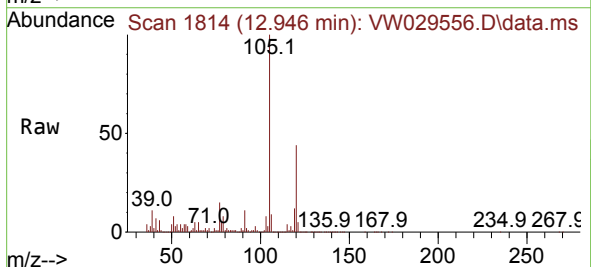


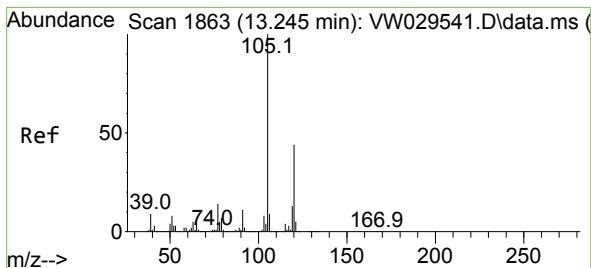
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.3	20.2	30.4
77	18.2	13.6	20.4



#62
1,3,5-Trimethylbenzene
Concen: 25.133 ug/L
RT: 12.946 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

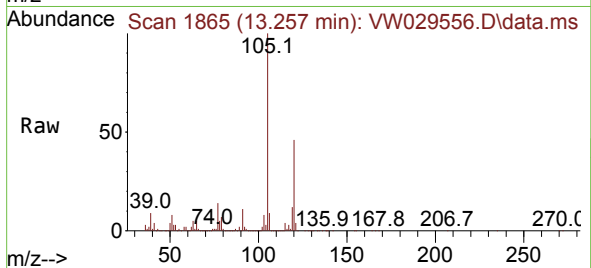
Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.7	38.4	57.6



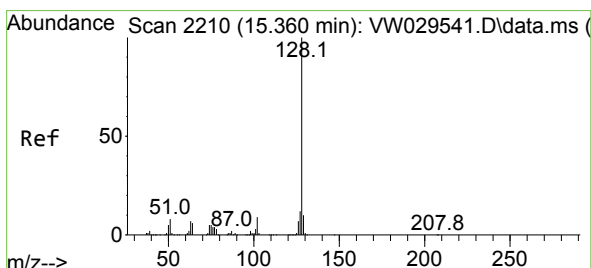
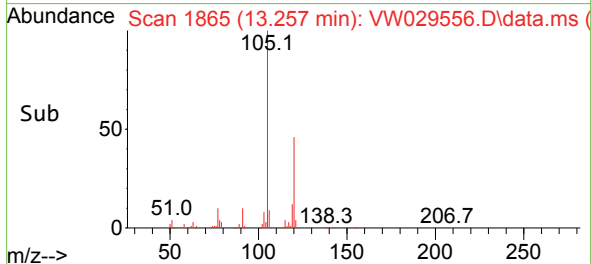
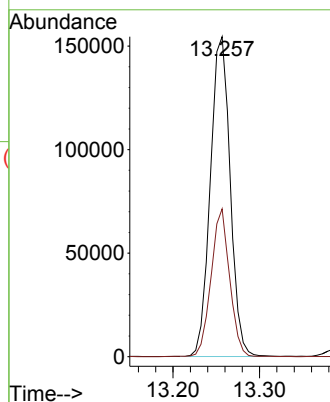


#63
1,2,4-Trimethylbenzene
Concen: 28.024 ug/L
RT: 13.257 min Scan# 1865
Delta R.T. 0.012 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:105 Resp: 245888
Ion Ratio Lower Upper
105 100
120 43.1 34.7 52.1



#71
Naphthalene
Concen: 1.889 ug/L
RT: 15.360 min Scan# 2210
Delta R.T. -0.000 min
Lab File: VW029556.D
Acq: 12 Jul 2024 17:08

Tgt Ion:128 Resp: 11400
Ion Ratio Lower Upper
128 100
127 15.9 10.6 15.8#
129 10.8 9.0 13.4

