

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071224\
 Data File : VW029558.D
 Acq On : 12 Jul 2024 18:20
 Operator : SY/MD
 Sample : P3230-03
 Misc : 5.04g/10mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 12 23:28:31 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	8.843	114	413426	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.635	117	313982	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	136451	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.369	65	109685	16.423	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.680%
7) Chloroethane-d5	2.899	69	78677	16.361	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	65.440%
11) 1,1-Dichloroethene-d2	4.027	65	47823	15.946	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.800%
21) 2-Butanone-d5	7.087	46	91114	45.447	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.900%
24) Chloroform-d	7.648	84	195261	16.337	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	65.360%
26) 1,2-Dichloroethane-d4	8.307	65	125787	17.943	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	71.760%
32) Benzene-d6	8.276	84	385453	20.493	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	81.960%
36) 1,2-Dichloropropane-d6	9.276	67	125006	20.786	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	83.160%
41) Toluene-d8	10.325	98	340862	20.606	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	82.440%
43) trans-1,3-Dichloroprop...	10.581	79	53581	21.039	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	84.160%
47) 2-Hexanone-d5	10.983	63	623	0.570	ug/L	0.06
Spiked Amount	50.000	Range	20 - 135	Recovery	=	1.140%#
56) 1,1,2,2-Tetrachloroeth...	12.690	84	104968	21.497	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	86.000%
66) 1,2-Dichlorobenzene-d4	13.855	152	92188	19.400	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	77.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	2.375	62	1599806	258.816	ug/L	93
12) 1,1-Dichloroethene	4.051	96	13716	2.668	ug/L #	1
13) Acetone	4.118	43	14263	7.049	ug/L	94
14) Carbon disulfide	4.399	76	10928	0.655	ug/L	96
16) Methylene chloride	4.929	84	20734	2.801	ug/L	97
17) trans-1,2-Dichloroethene	5.435	96	40039	7.035	ug/L	94
19) 1,1-Dichloroethane	6.222	63	6913	0.591	ug/L	92
20) cis-1,2-Dichloroethene	7.167	96	16336645	2624.894	ug/L	96
30) 1,1,1-Trichloroethane	7.880	97	5005	0.698	ug/L	97
34) Trichloroethene	9.093	95	12599058	2428.625	ug/L	93
35) Methylcyclohexane	9.337	83	7952	0.954	ug/L #	85
42) Toluene	10.392	91	1424139	70.862	ug/L	97
45) 1,1,2-Trichloroethane	10.800	97	35723	9.144	ug/L #	22
46) Tetrachloroethene	10.873	164	15049873	4083.398	ug/L	95
52) Ethylbenzene	11.733	91	143434	6.299	ug/L	95
53) m,p-Xylene	11.837	106	339516	40.618	ug/L	95
54) o-Xylene	12.166	106	130275	16.851	ug/L	99
55) Styrene	12.166	104	7173	0.528	ug/L #	1
60) Isopropylbenzene	13.105	105	15710	0.818	ug/L	93

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Quant Title : SFAM01.0
QLast Update : Fri Jul 12 23:17:28 2024
Response via : Initial Calibration

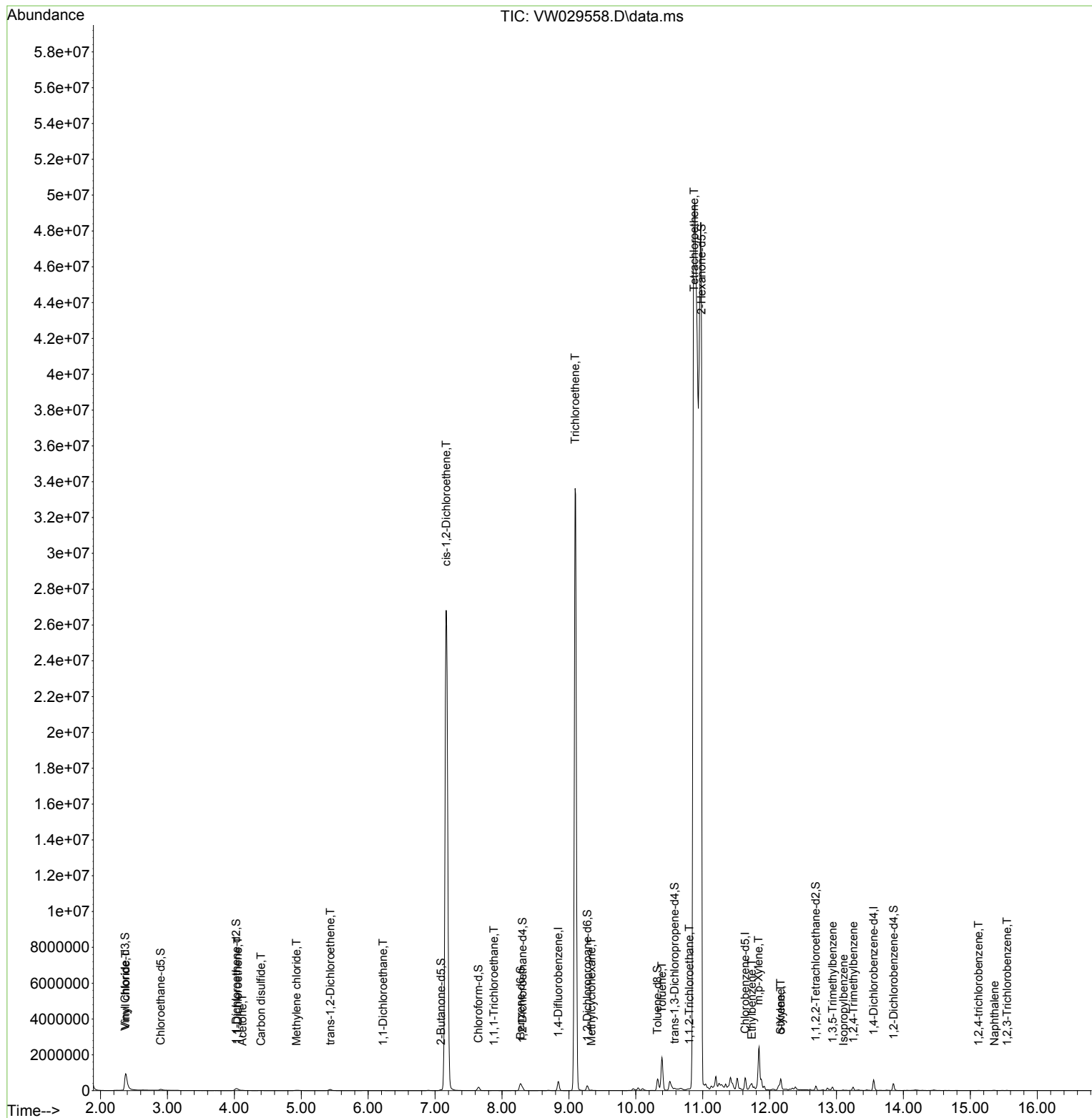
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	12.940	105	82263	6.024	ug/L	99
63) 1,2,4-Trimethylbenzene	13.251	105	100270	6.652	ug/L	99
70) 1,2,4-trichlorobenzene	15.123	180	2255	0.456	ug/L #	88
71) Naphthalene	15.360	128	9514	0.918	ug/L	96
72) 1,2,3-Trichlorobenzene	15.549	180	2994	0.667	ug/L	93

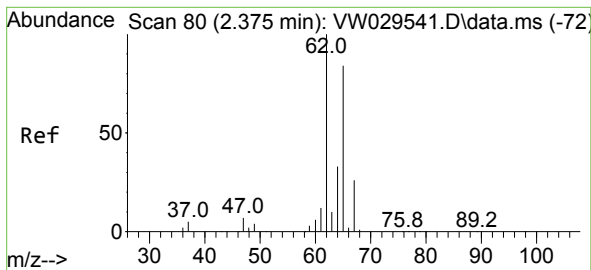
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 12 23:28:31 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





#5

Vinyl chloride

Concen: 258.816 ug/L

RT: 2.375 min Scan# 80

Delta R.T. -0.000 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

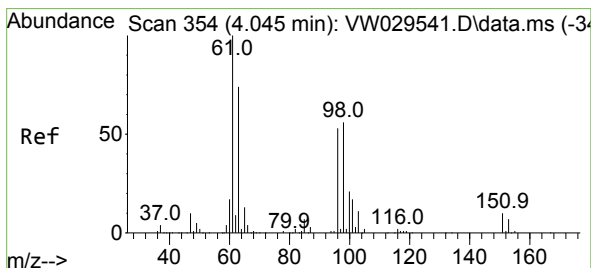
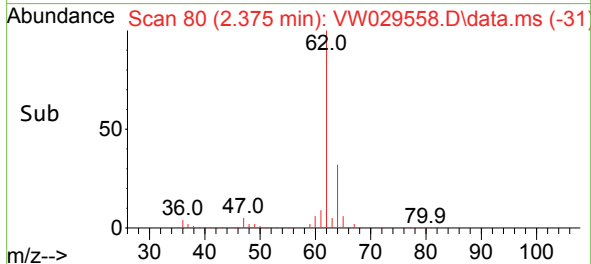
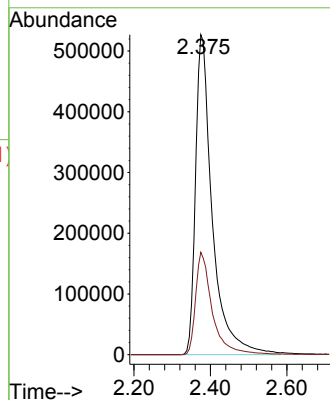
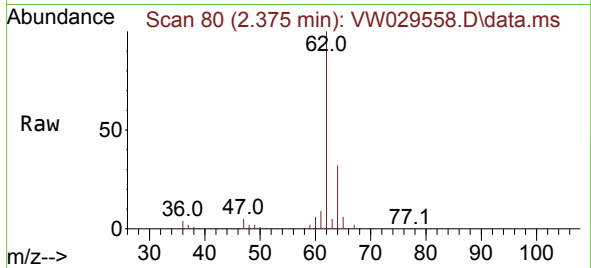
ClientSampleId :

Tgt Ion: 62 Resp: 1599806

Ion Ratio Lower Upper

62 100

64 32.0 25.1 46.5



#12

1,1-Dichloroethene

Concen: 2.668 ug/L

RT: 4.051 min Scan# 355

Delta R.T. 0.006 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

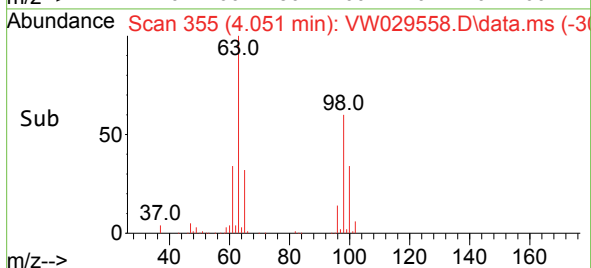
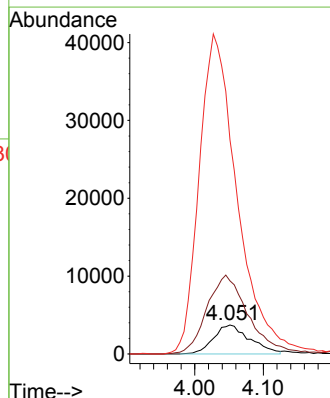
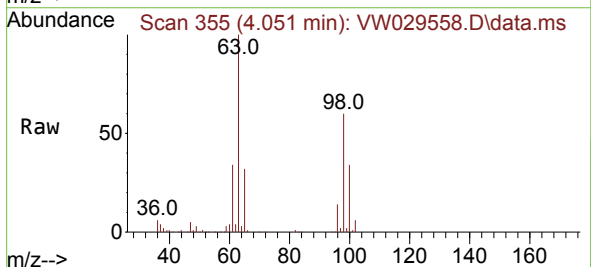
Tgt Ion: 96 Resp: 13716

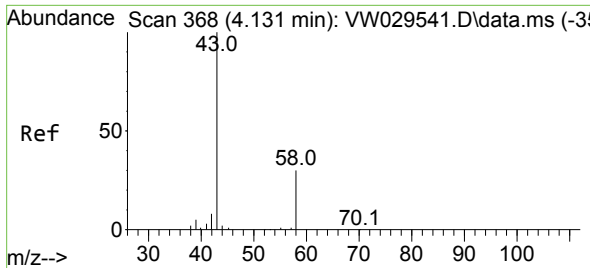
Ion Ratio Lower Upper

96 100

61 251.8 132.4 245.8#

63 738.0 108.4 201.2#





#13

Acetone

Concen: 7.049 ug/L

RT: 4.118 min Scan# 3

Delta R.T. -0.012 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

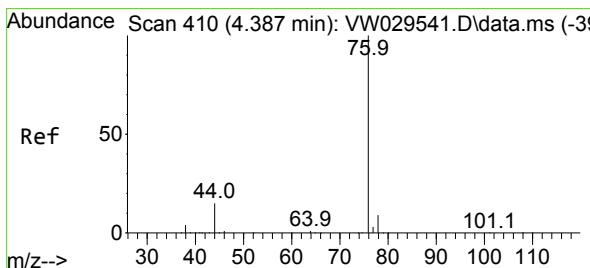
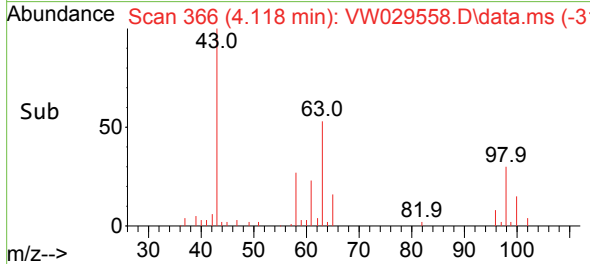
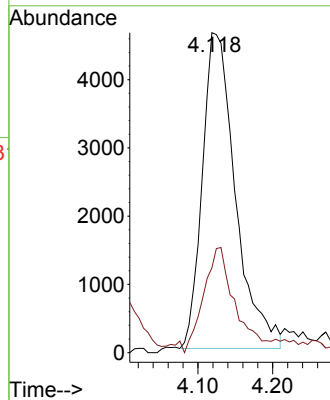
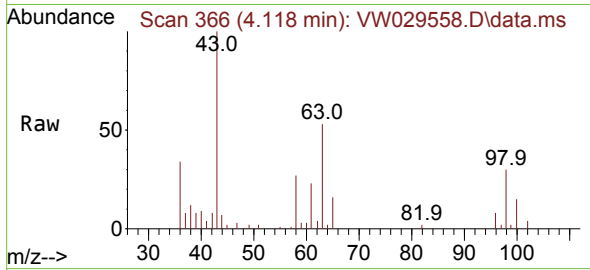
ClientSampleId :

Tgt Ion: 43 Resp: 14263

Ion Ratio Lower Upper

43 100

58 31.0 0.0 55.6



#14

Carbon disulfide

Concen: 0.655 ug/L

RT: 4.399 min Scan# 412

Delta R.T. 0.012 min

Lab File: VW029558.D

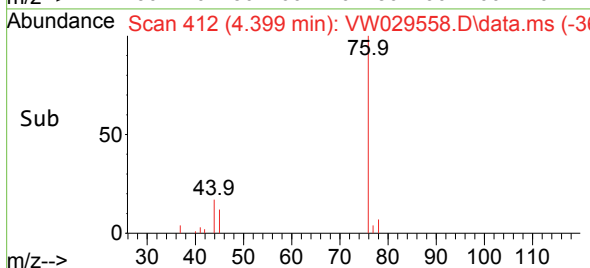
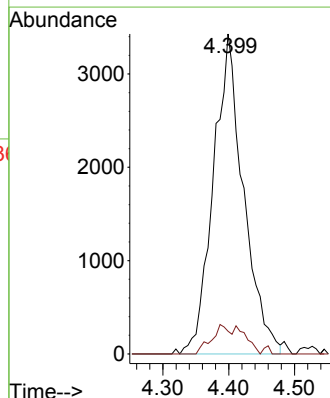
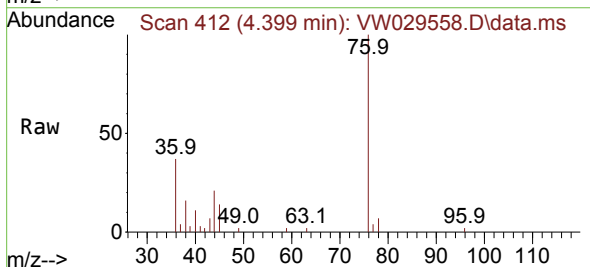
Acq: 12 Jul 2024 18:20

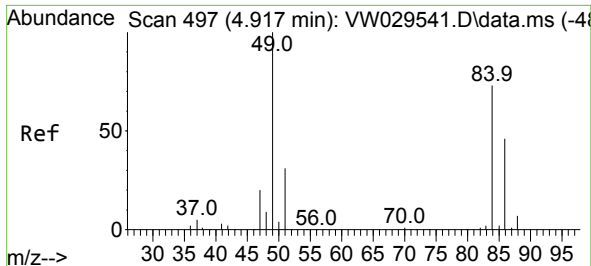
Tgt Ion: 76 Resp: 10928

Ion Ratio Lower Upper

76 100

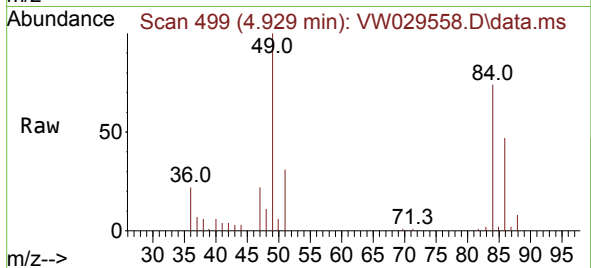
78 7.1 7.0 10.4



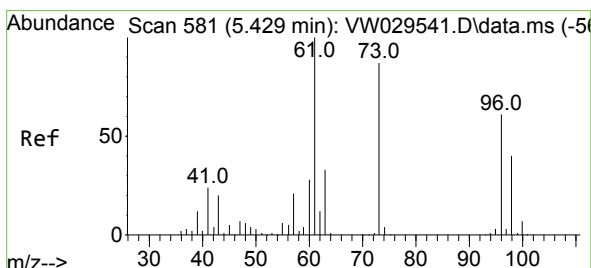
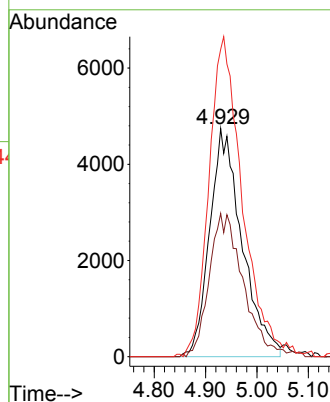
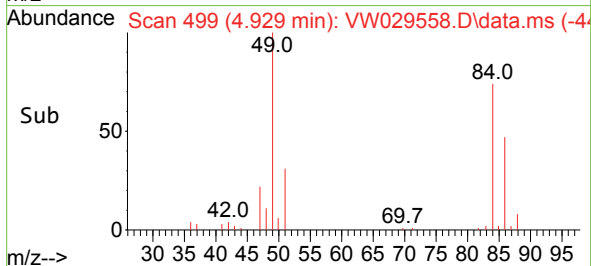


#16
Methylene chloride
Concen: 2.801 ug/L
RT: 4.929 min Scan# 49
Delta R.T. 0.012 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20

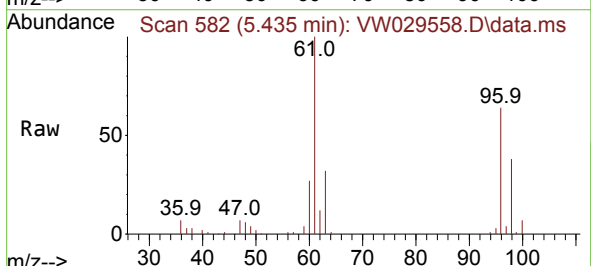
Instrument :
MSVOA_W
ClientSampleId :



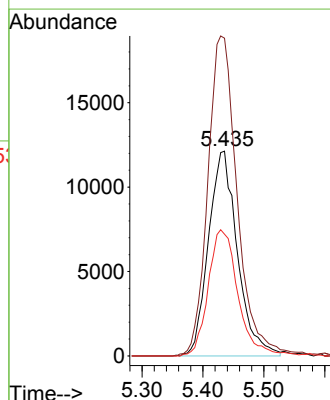
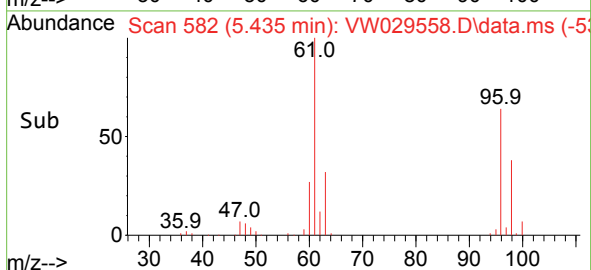
Tgt Ion: 84 Resp: 20734
Ion Ratio Lower Upper
84 100
86 62.7 46.2 85.8
49 134.7 96.7 179.7

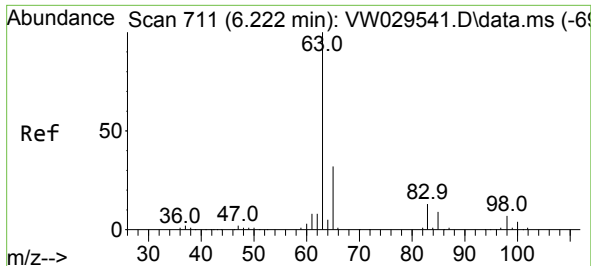


#17
trans-1,2-Dichloroethene
Concen: 7.035 ug/L
RT: 5.435 min Scan# 582
Delta R.T. 0.006 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20



Tgt Ion: 96 Resp: 40039
Ion Ratio Lower Upper
96 100
61 155.1 102.9 191.1
98 59.4 43.9 81.5





#19

1,1-Dichloroethane

Concen: 0.591 ug/L

RT: 6.222 min Scan# 711

Delta R.T. -0.000 min

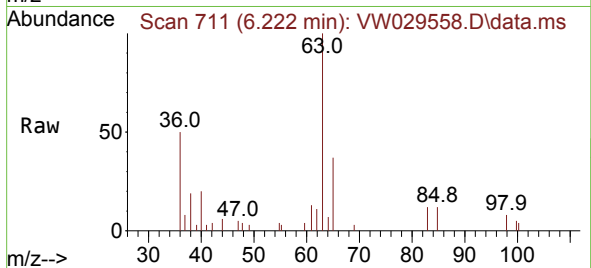
Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

ClientSampleId :



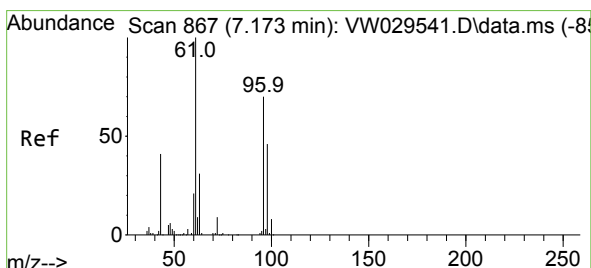
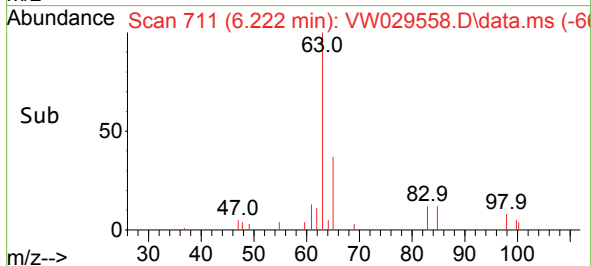
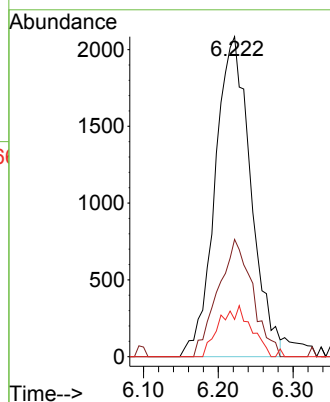
Tgt Ion: 63 Resp: 6913

Ion Ratio Lower Upper

63 100

65 36.7 21.5 39.9

83 11.6 8.7 16.1



#20

cis-1,2-Dichloroethene

Concen: 2624.894 ug/L

RT: 7.167 min Scan# 866

Delta R.T. -0.006 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

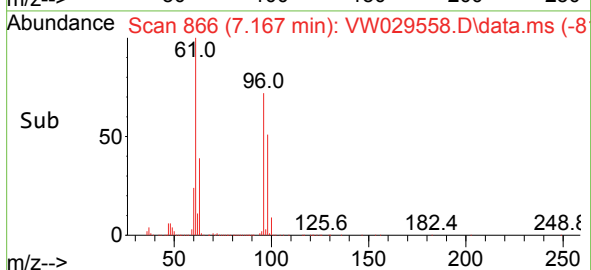
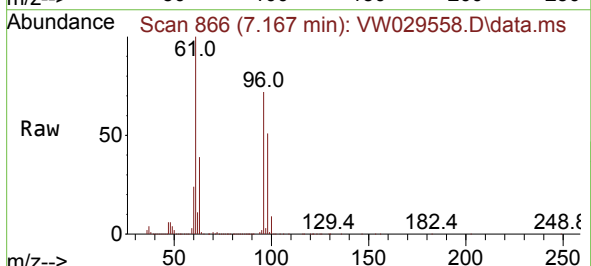
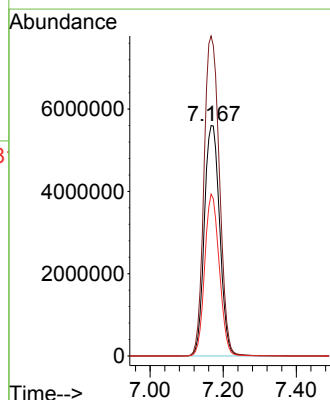
Tgt Ion: 96 Resp:16336645

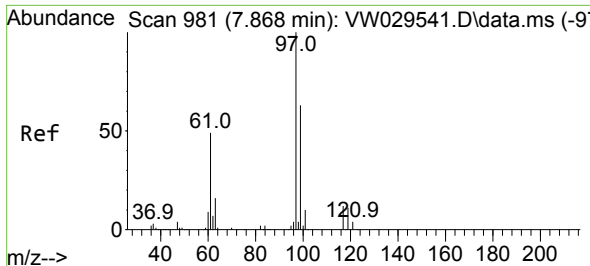
Ion Ratio Lower Upper

96 100

61 138.9 97.4 180.8

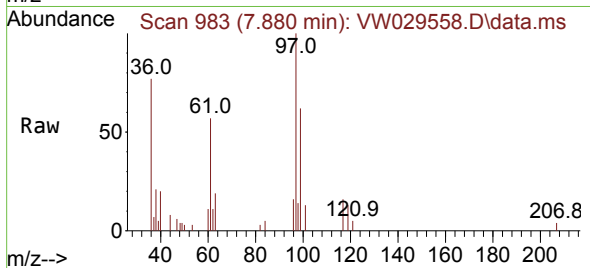
98 70.2 41.6 77.2



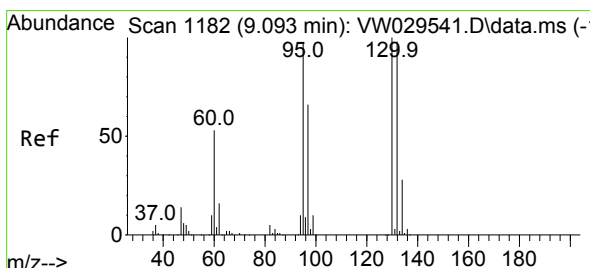
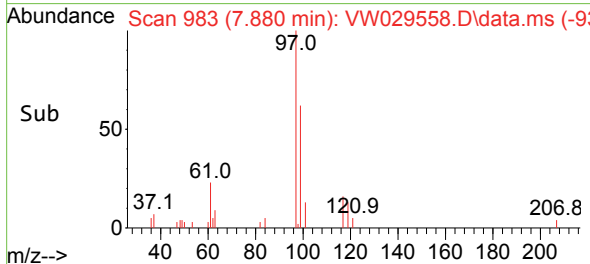
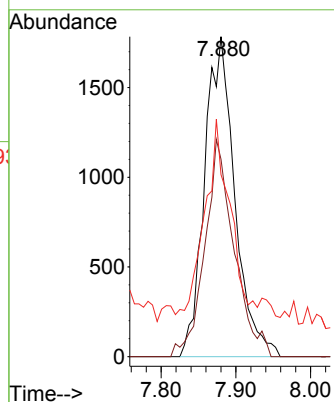


#30
1,1,1-Trichloroethane
Concen: 0.698 ug/L
RT: 7.880 min Scan# 981
Delta R.T. 0.012 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20

Instrument :
MSVOA_W
ClientSampleId :

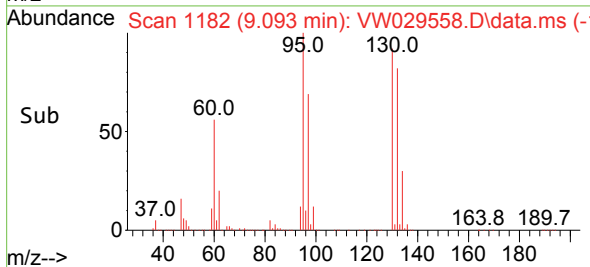
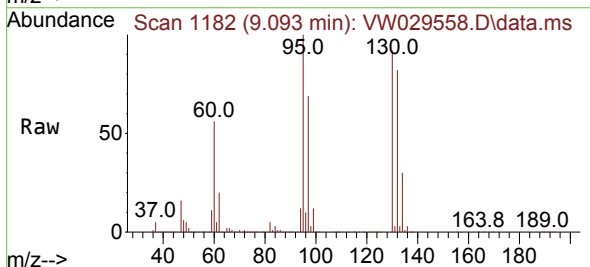
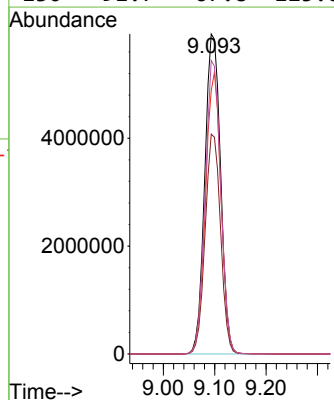


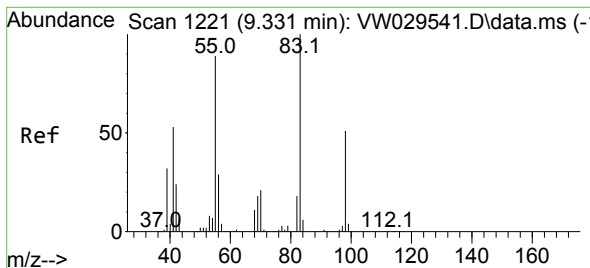
Tgt Ion: 97 Resp: 5005
Ion Ratio Lower Upper
97 100
99 63.4 51.1 76.7
61 46.3 40.6 61.0



#34
Trichloroethene
Concen: 2428.625 ug/L
RT: 9.093 min Scan# 1182
Delta R.T. -0.000 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20

Tgt Ion: 95 Resp: 12599058
Ion Ratio Lower Upper
95 100
97 68.7 47.3 87.9
132 82.3 65.8 122.2
130 91.7 67.8 125.8





#35

Methylcyclohexane

Concen: 0.954 ug/L

RT: 9.337 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

ClientSampleId :

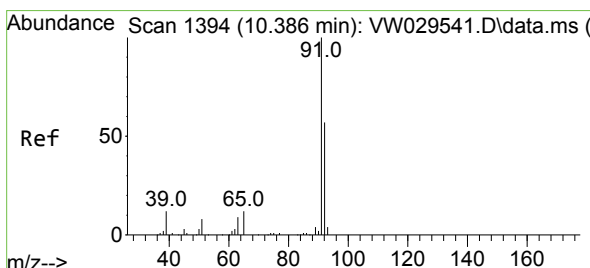
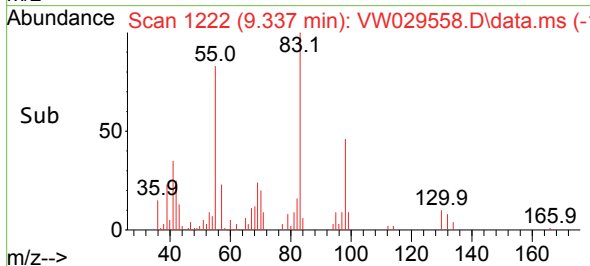
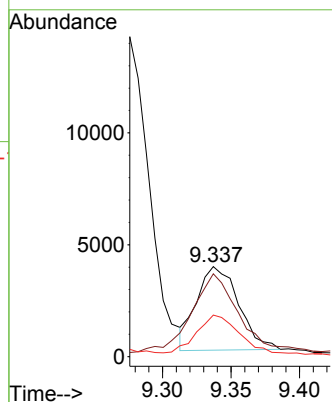
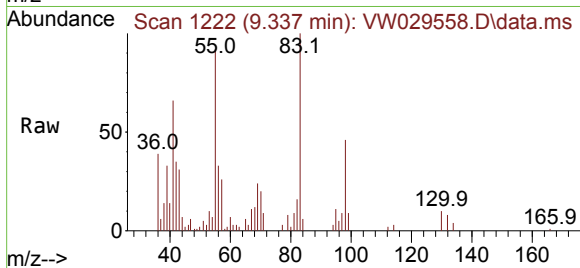
Tgt Ion: 83 Resp: 7952

Ion Ratio Lower Upper

83 100

55 105.6 69.6 104.4#

98 51.1 38.3 57.5



#42

Toluene

Concen: 70.862 ug/L

RT: 10.392 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VW029558.D

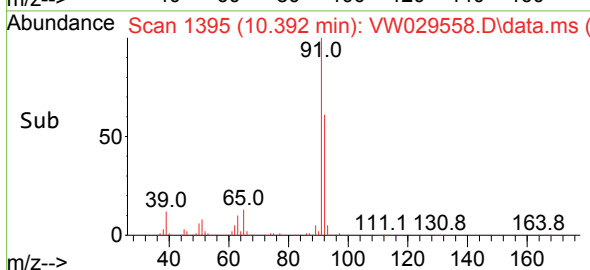
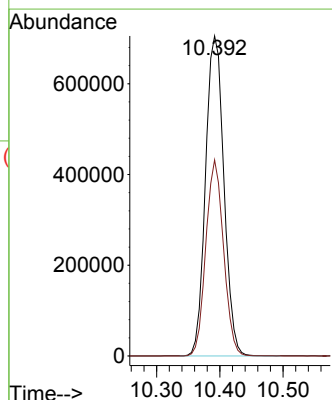
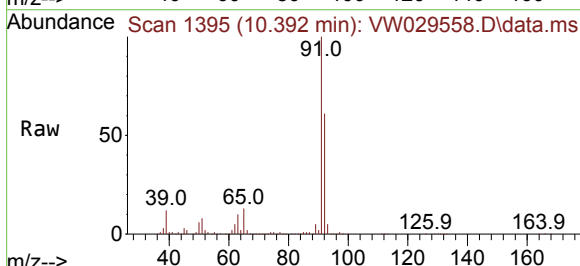
Acq: 12 Jul 2024 18:20

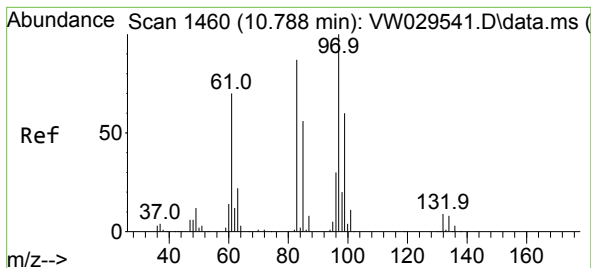
Tgt Ion: 91 Resp: 1424139

Ion Ratio Lower Upper

91 100

92 61.2 41.1 76.3





#45

1,1,2-Trichloroethane

Concen: 9.144 ug/L

RT: 10.800 min Scan# 1460

Delta R.T. 0.012 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 97 Resp: 35723

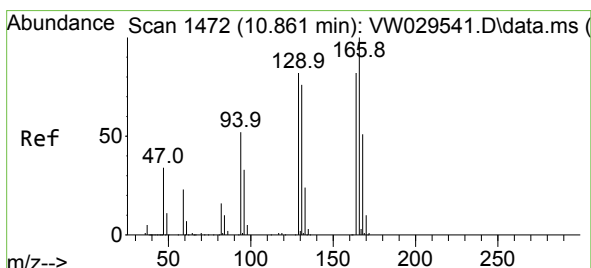
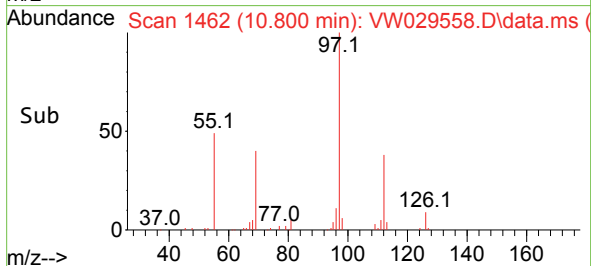
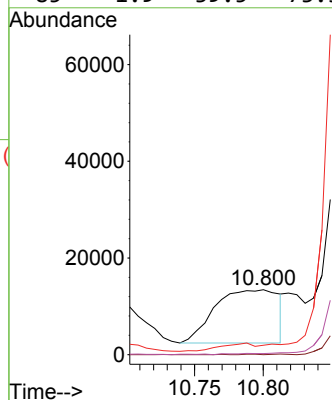
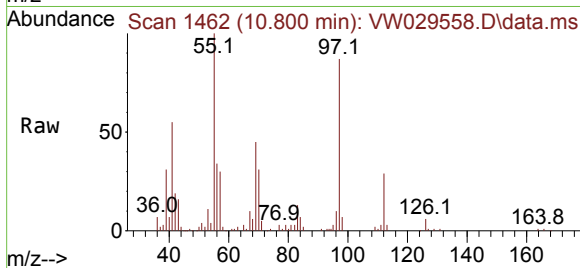
Ion Ratio Lower Upper

97 100

99 0.0 43.8 81.4#

83 14.5 60.3 111.9#

85 1.9 39.5 73.3#



#46

Tetrachloroethene

Concen: 4083.398 ug/L

RT: 10.873 min Scan# 1474

Delta R.T. 0.012 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Tgt Ion:164 Resp:15049873

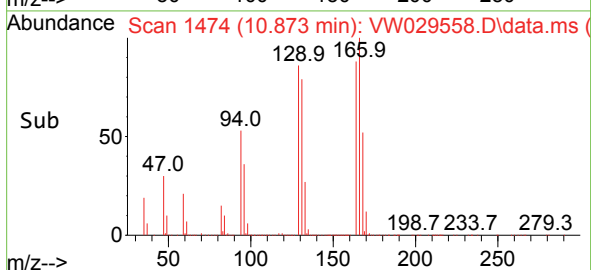
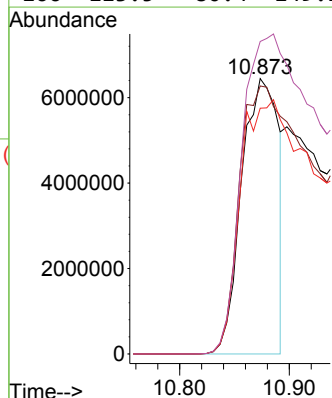
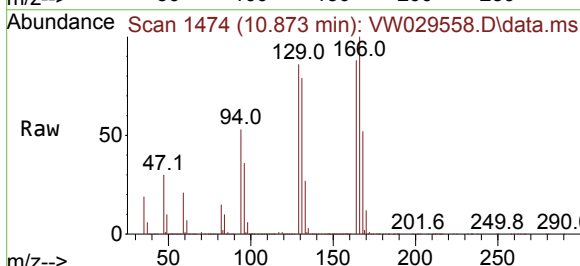
Ion Ratio Lower Upper

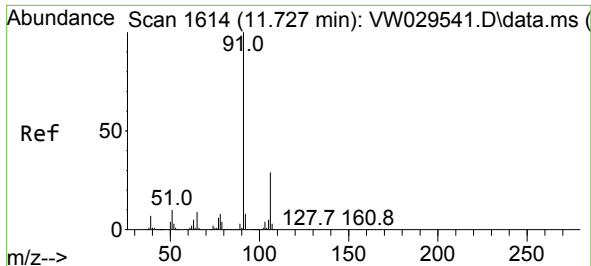
164 100

129 97.3 60.0 111.4

131 89.3 64.6 120.0

166 113.5 80.4 149.2

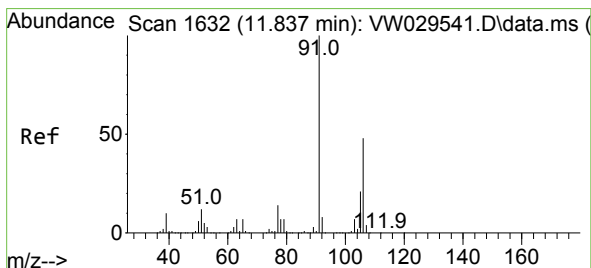
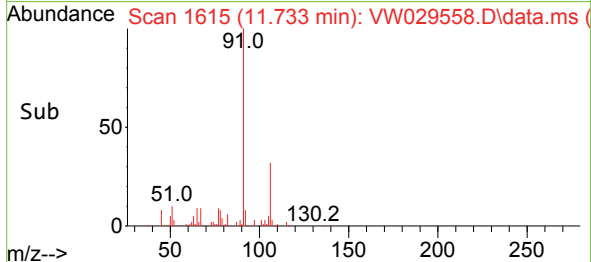
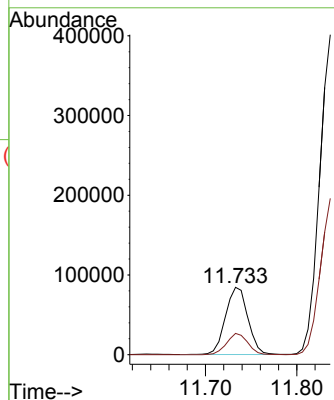
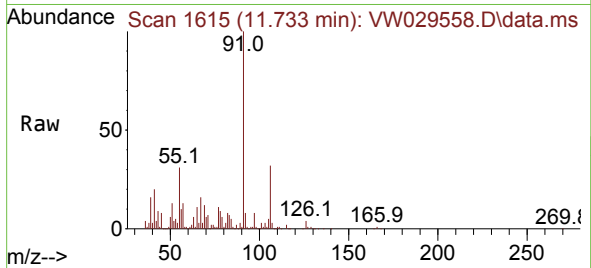




#52
Ethylbenzene
Concen: 6.299 ug/L
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20

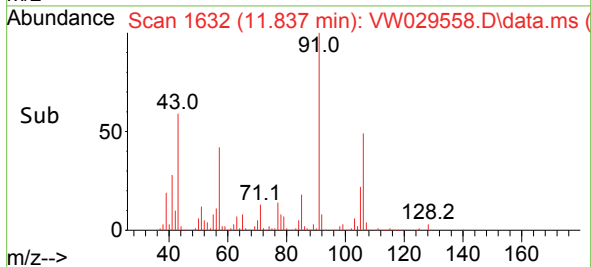
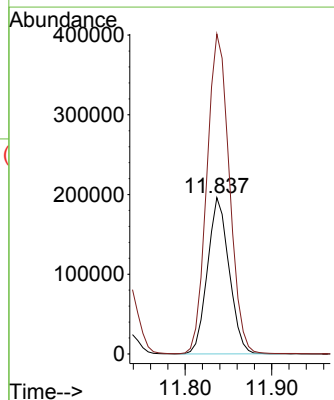
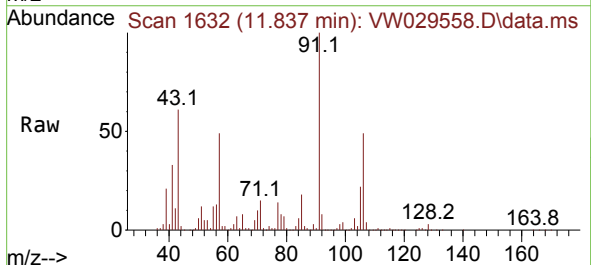
Instrument :
MSVOA_W
ClientSampleId :

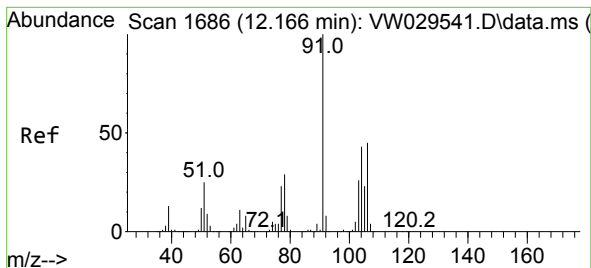
Tgt Ion: 91 Resp: 143434
Ion Ratio Lower Upper
91 100
106 31.6 20.2 37.6



#53
m,p-Xylene
Concen: 40.618 ug/L
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW029558.D
Acq: 12 Jul 2024 18:20

Tgt Ion:106 Resp: 339516
Ion Ratio Lower Upper
106 100
91 204.8 149.3 277.3





#54

o-Xylene

Concen: 16.851 ug/L

RT: 12.166 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

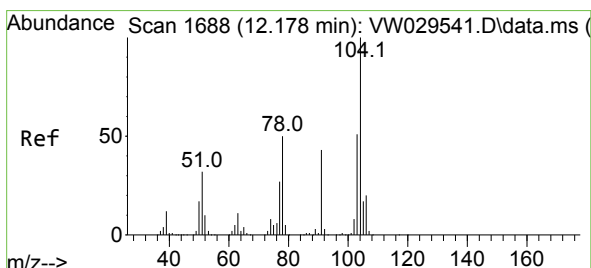
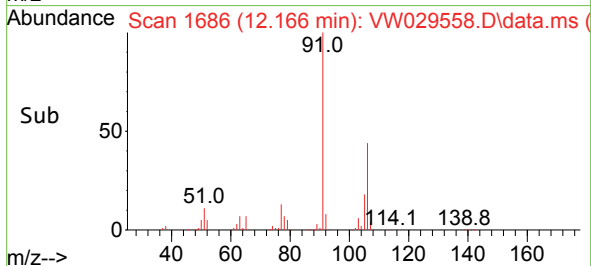
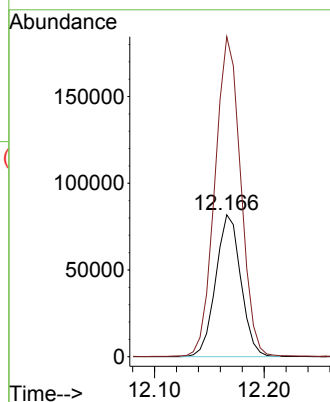
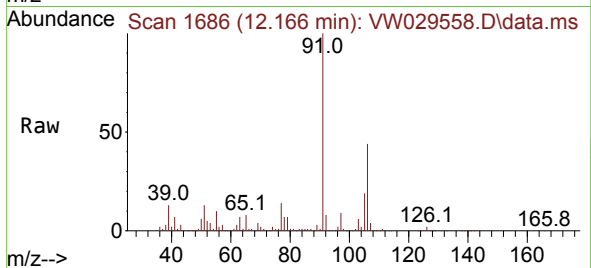
ClientSampleId :

Tgt Ion:106 Resp: 130275

Ion Ratio Lower Upper

106 100

91 225.6 159.2 295.6



#55

Styrene

Concen: 0.528 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. -0.012 min

Lab File: VW029558.D

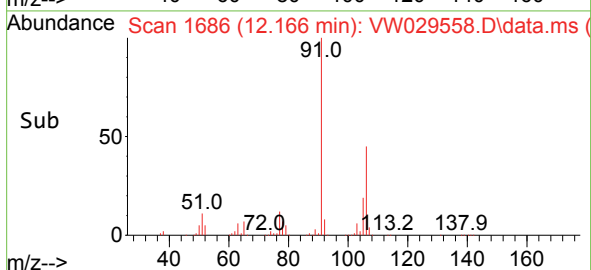
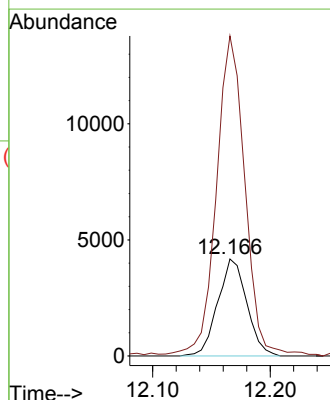
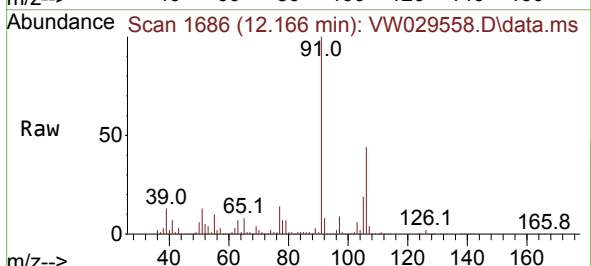
Acq: 12 Jul 2024 18:20

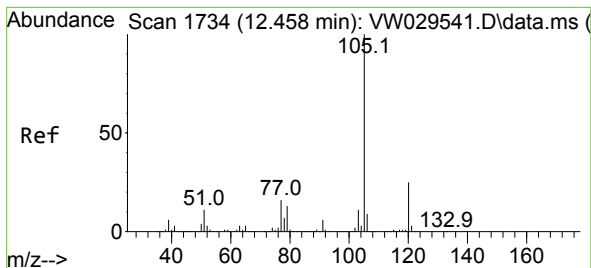
Tgt Ion:104 Resp: 7173

Ion Ratio Lower Upper

104 100

78 330.0 34.7 64.5#





#60

Isopropylbenzene

Concen: 0.818 ug/L

RT: 13.105 min Scan# 1840

Delta R.T. 0.646 min

Lab File: VW029558.D

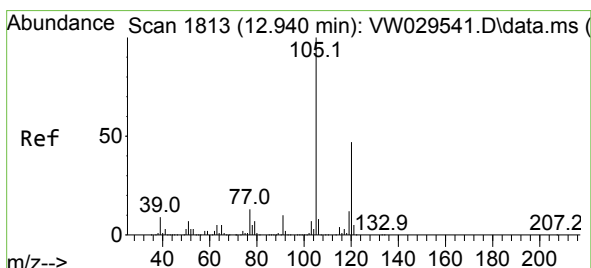
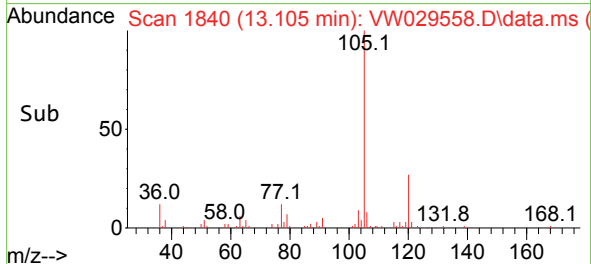
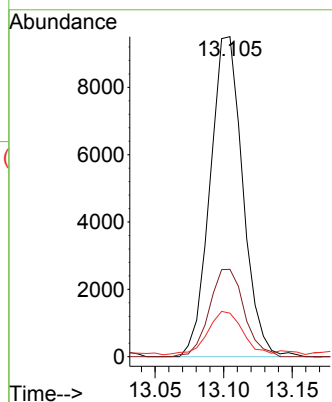
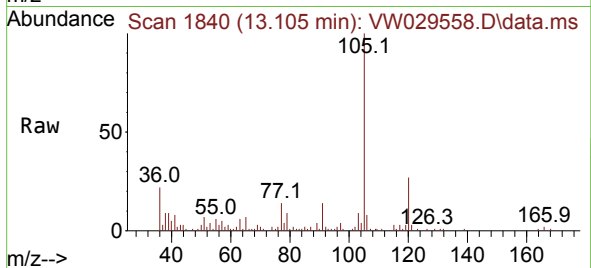
Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:105	Resp:	15710
Ion Ratio	Lower	Upper
105	100	
120	29.2	20.2 30.4
77	14.4	13.6 20.4



#62

1,3,5-Trimethylbenzene

Concen: 6.024 ug/L

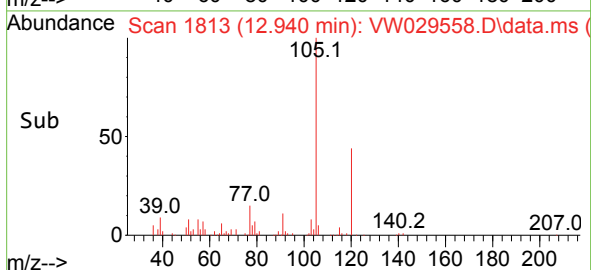
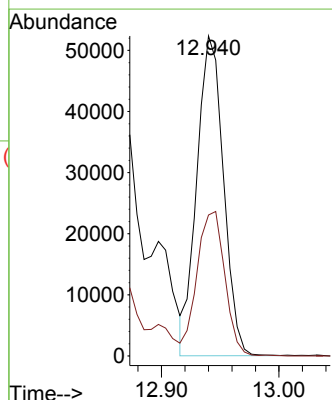
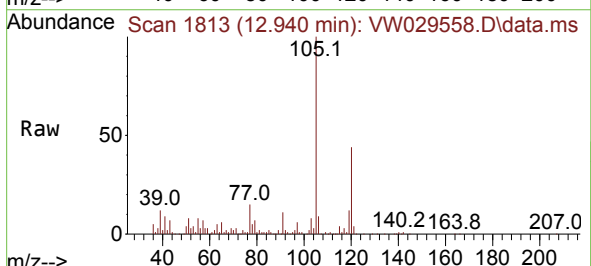
RT: 12.940 min Scan# 1813

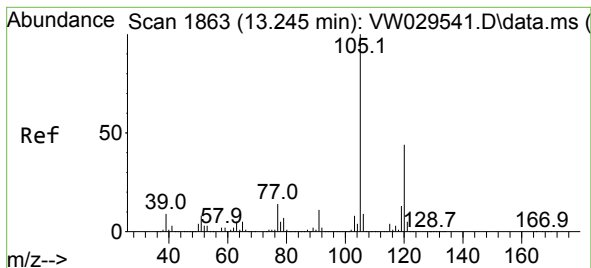
Delta R.T. -0.000 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Tgt Ion:105	Resp:	82263
Ion Ratio	Lower	Upper
105	100	
120	47.3	38.4 57.6





#63

1,2,4-Trimethylbenzene

Concen: 6.652 ug/L

RT: 13.251 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

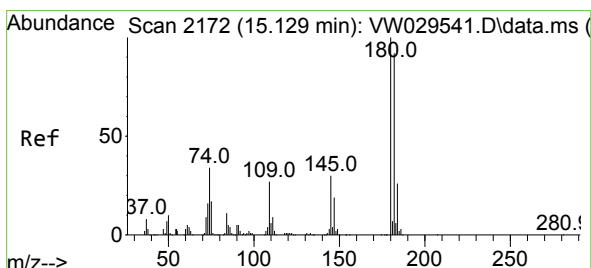
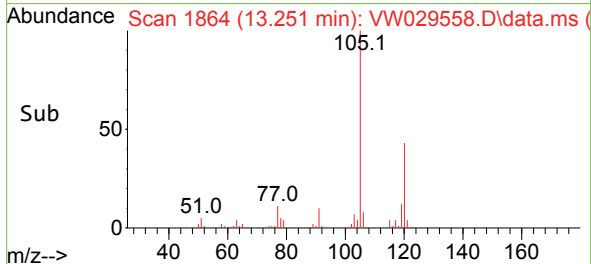
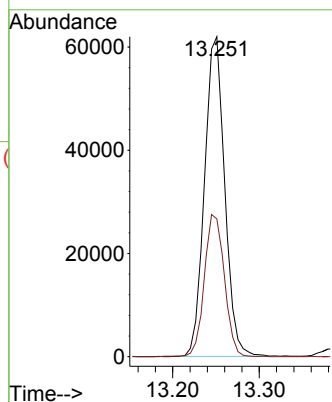
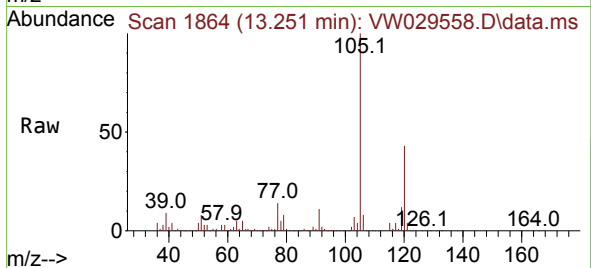
ClientSampleId :

Tgt Ion:105 Resp: 100270

Ion Ratio Lower Upper

105 100

120 44.2 34.7 52.1



#70

1,2,4-trichlorobenzene

Concen: 0.456 ug/L

RT: 15.123 min Scan# 2171

Delta R.T. -0.006 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

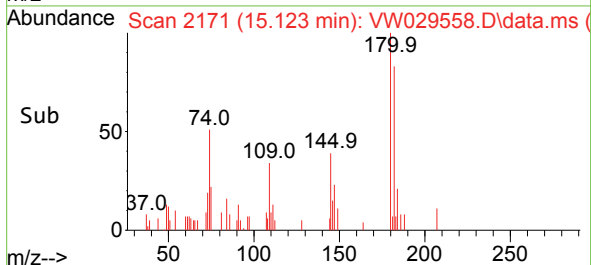
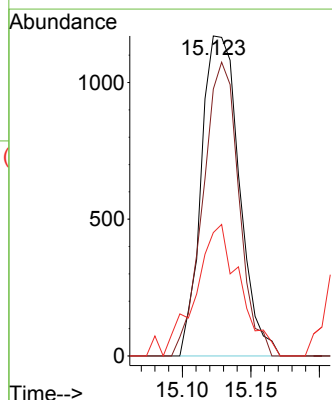
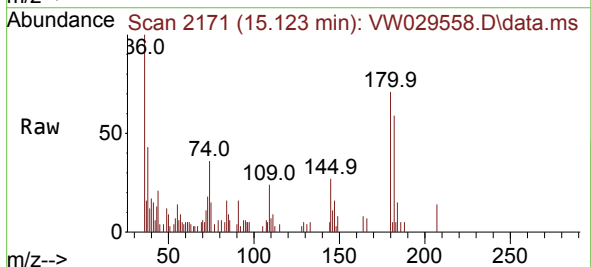
Tgt Ion:180 Resp: 2255

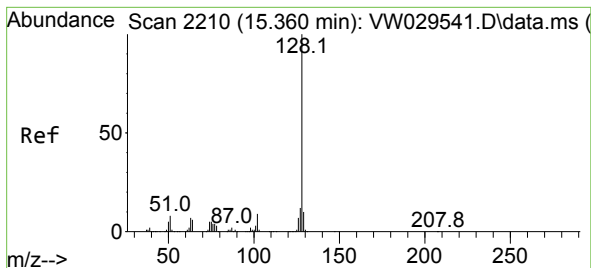
Ion Ratio Lower Upper

180 100

182 86.8 74.7 112.1

145 47.7 26.2 39.2#





#71

Naphthalene

Concen: 0.918 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. -0.000 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Instrument :

MSVOA_W

ClientSampleId :

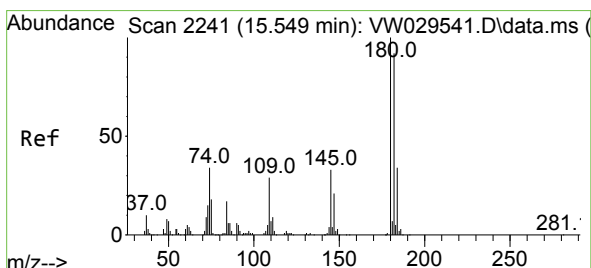
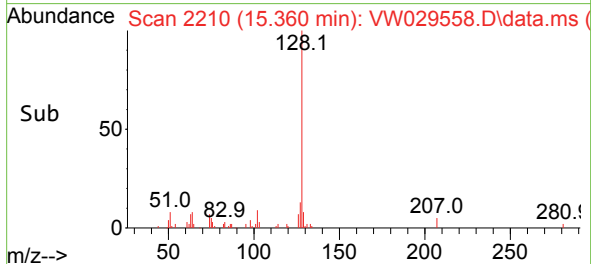
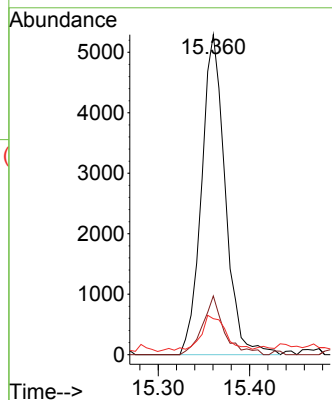
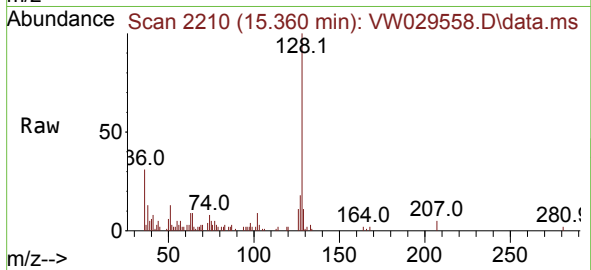
Tgt Ion:128 Resp: 9514

Ion Ratio Lower Upper

128 100

127 15.6 10.6 15.8

129 10.7 9.0 13.4



#72

1,2,3-Trichlorobenzene

Concen: 0.667 ug/L

RT: 15.549 min Scan# 2241

Delta R.T. -0.000 min

Lab File: VW029558.D

Acq: 12 Jul 2024 18:20

Tgt Ion:180 Resp: 2994

Ion Ratio Lower Upper

180 100

182 84.0 73.4 110.0

145 35.6 26.9 40.3

