

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111124\
 Data File : VX043799.D
 Acq On : 11 Nov 2024 17:59
 Operator : JC/MD
 Sample : P4786-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 12 00:56:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML110424WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 12 00:51:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.781	114	274873	50.000	ug/L	# 0.03
28) Chlorobenzene-d5	10.055	117	243769	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.018	152	131714	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.368	65	65402	44.663	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.320%
7) Chloroethane-d5	1.642	69	39703	63.077	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	126.160%
11) 1,1-Dichloroethene-d2	2.300	65	31497	46.594	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.180%
21) 2-Butanone-d5	4.495	46	71707	74.789	ug/L	0.04
Spiked Amount	100.000	Range	40 - 130	Recovery	=	74.790%
24) Chloroform-d	5.056	84	129709	41.089	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.180%
26) 1,2-Dichloroethane-d4	5.958	65	83288	41.532	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.060%
32) Benzene-d6	5.989	84	271619	43.098	ug/L	0.02
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.200%
36) 1,2-Dichloropropane-d6	7.391	67	59272	30.912	ug/L	0.09
Spiked Amount	50.000	Range	70 - 120	Recovery	=	61.820%#
41) Toluene-d8	8.653	98	241249	42.138	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.280%
43) trans-1,3-Dichloroprop...	8.958	79	40191	43.830	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.660%
47) 2-Hexanone-d5	9.384	63	65740	86.634	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	86.630%
56) 1,1,2,2-Tetrachloroeth...	11.189	84	114906	46.706	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.420%
66) 1,2-Dichlorobenzene-d4	12.317	152	103439	45.326	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.660%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.374	62	159742	86.680	ug/L	97
8) Chloroethane	1.666	64	1782	2.748	ug/L #	69
10) 1,1,2-Trichloro-1,2,2-...	2.319	101	91506	56.971	ug/L	97
12) 1,1-Dichloroethene	2.313	96	366591	250.015	ug/L #	66
13) Acetone	2.392	43	24286	27.235	ug/L	73
16) Methylene chloride	2.788	84	67564	38.140	ug/L	91
17) trans-1,2-Dichloroethene	3.087	96	170743	108.239	ug/L	93
19) 1,1-Dichloroethane	3.611	63	918578	295.716	ug/L	98
20) cis-1,2-Dichloroethene	4.489	96	10780627	5502.313	ug/L	98
22) 2-Butanone	4.574	43	2367	1.835	ug/L #	48
27) 1,2-Dichloroethane	6.092	62	10987	4.266	ug/L #	84
30) 1,1,1-Trichloroethane	5.391	97	1504704	509.546	ug/L	98
33) Benzene	6.044	78	8120	1.169	ug/L	100
34) Trichloroethene	7.178	95	54840035	29357.620	ug/L	96
35) Methylcyclohexane	7.391	83	15074	5.401	ug/L #	20
40) 4-Methyl-2-pentanone	8.580	43	99844	39.633	ug/L	94
42) Toluene	8.726	91	587069	80.330	ug/L	99
45) 1,1,2-Trichloroethane	9.159	97	16054	8.459	ug/L	91
46) Tetrachloroethene	9.275	164	480486	357.348	ug/L	96

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QLast Update : Tue Nov 12 00:51:02 2024
Response via : Initial Calibration

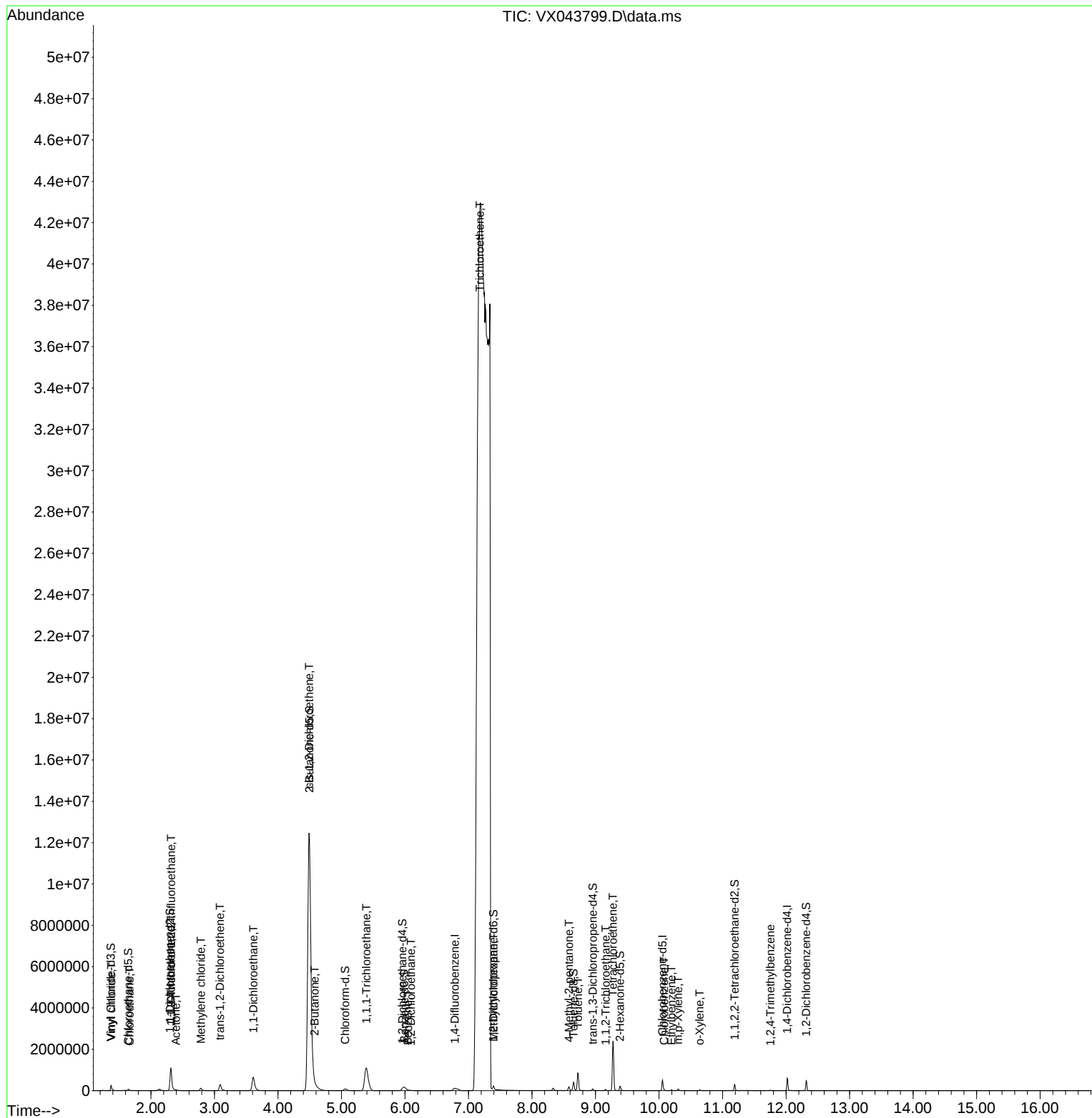
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	10.079	112	11882	2.488	ug/L	93
52) Ethylbenzene	10.195	91	25706	3.236	ug/L	93
53) m,p-Xylene	10.299	106	19452	6.343	ug/L	99
54) o-Xylene	10.640	106	9047	2.959	ug/L	93
63) 1,2,4-Trimethylbenzene	11.756	105	10591	1.386	ug/L	95

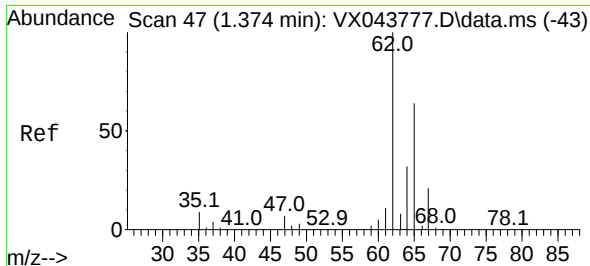
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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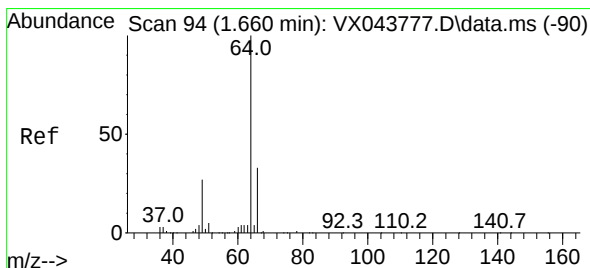
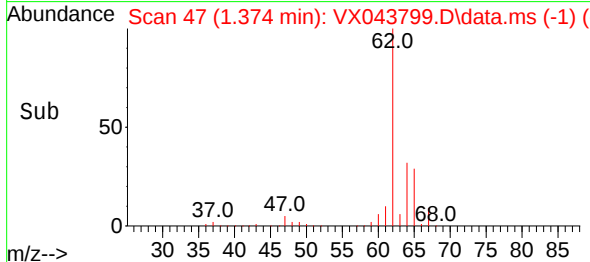
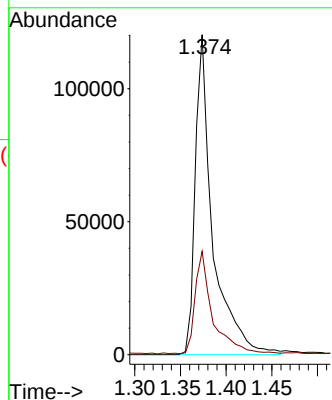
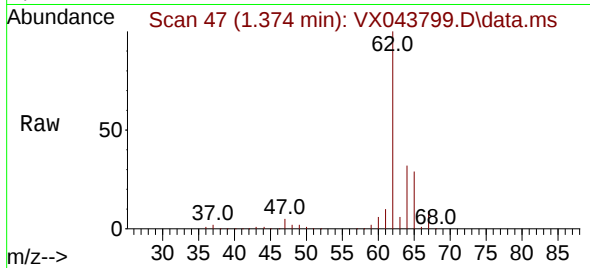




#5
 Vinyl chloride
 Concen: 86.680 ug/L
 RT: 1.374 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VX043799.D
 Acq: 11 Nov 2024 17:59

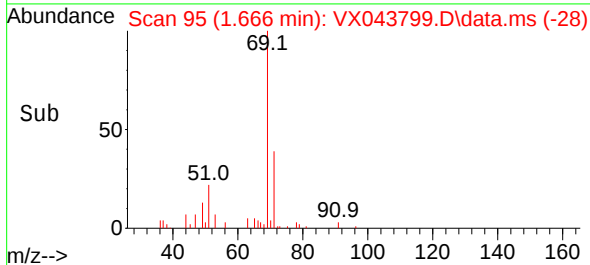
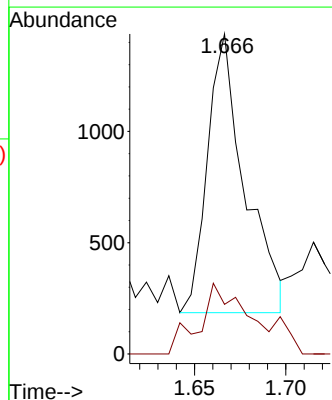
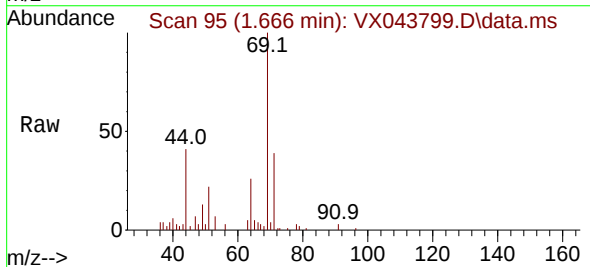
Instrument :
 MSVOA_X
 ClientSampleId :

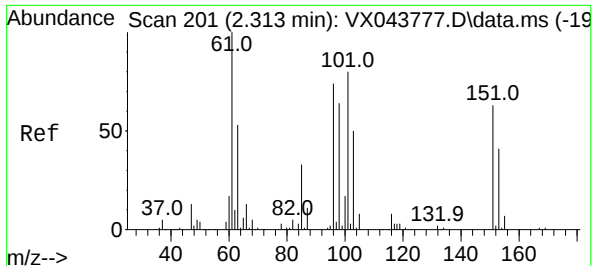
Tgt Ion: 62 Resp: 159742
 Ion Ratio Lower Upper
 62 100
 64 32.3 24.0 44.6



#8
 Chloroethane
 Concen: 2.748 ug/L
 RT: 1.666 min Scan# 95
 Delta R.T. 0.006 min
 Lab File: VX043799.D
 Acq: 11 Nov 2024 17:59

Tgt Ion: 64 Resp: 1782
 Ion Ratio Lower Upper
 64 100
 66 15.5 23.2 43.2#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 56.971 ug/L

RT: 2.319 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :

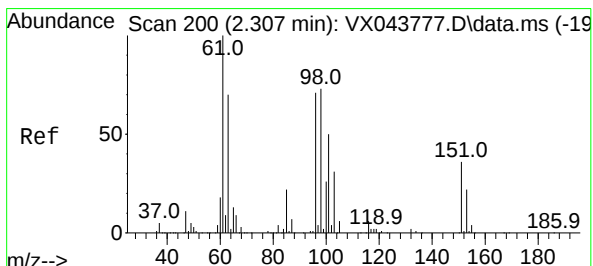
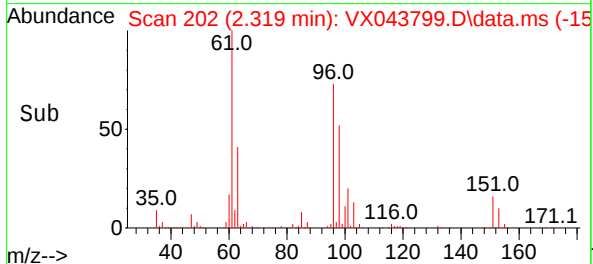
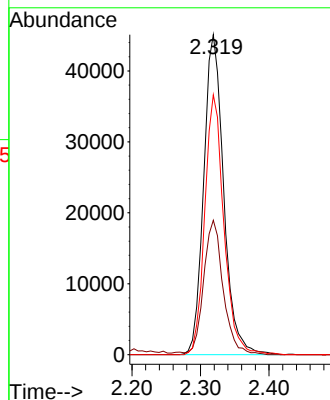
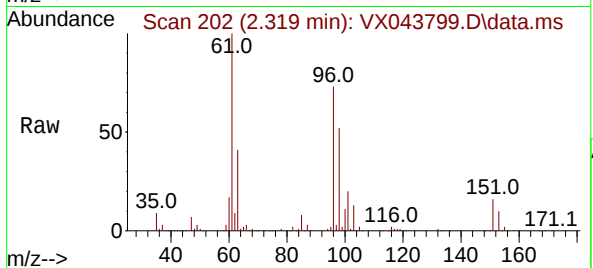
Tgt Ion:101 Resp: 91506

Ion Ratio Lower Upper

101 100

85 41.0 34.0 51.0

151 77.6 60.2 90.4



#12

1,1-Dichloroethene

Concen: 250.015 ug/L

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

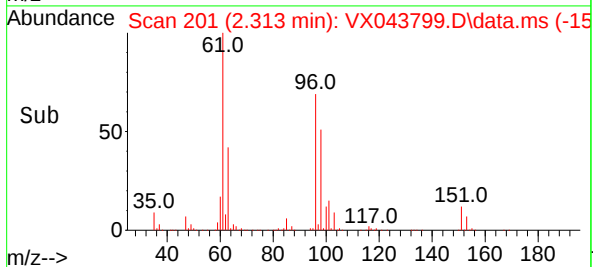
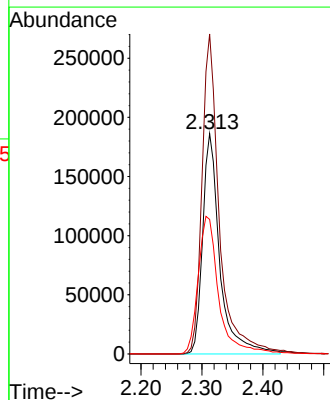
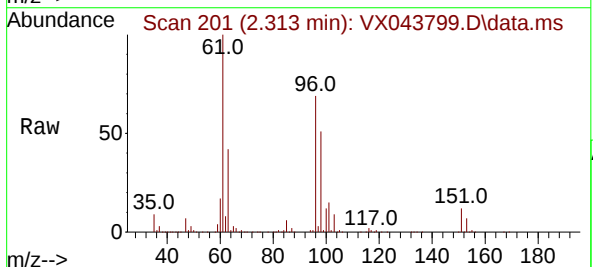
Tgt Ion: 96 Resp: 366591

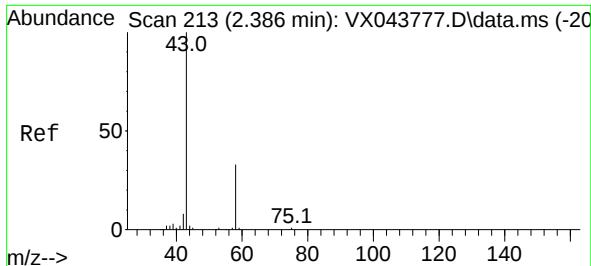
Ion Ratio Lower Upper

96 100

61 145.2 119.7 222.3

63 61.1 86.5 160.6#





#13

Acetone

Concen: 27.235 ug/L

RT: 2.392 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

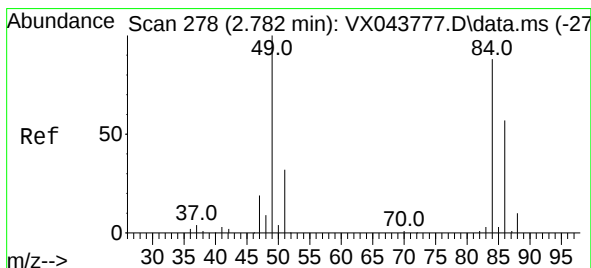
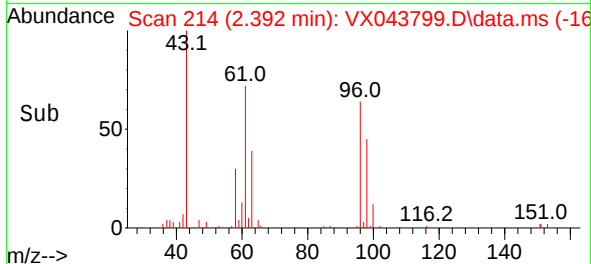
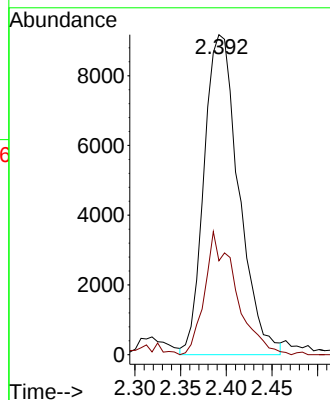
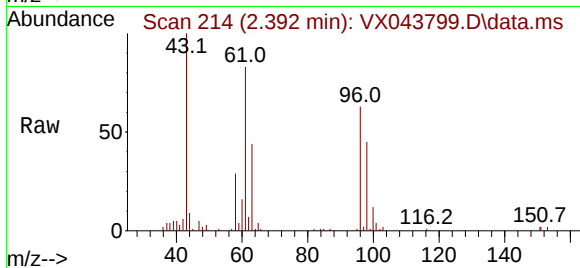
ClientSampleId :

Tgt Ion: 43 Resp: 24286

Ion Ratio Lower Upper

43 100

58 16.7 0.0 63.6



#16

Methylene chloride

Concen: 38.140 ug/L

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

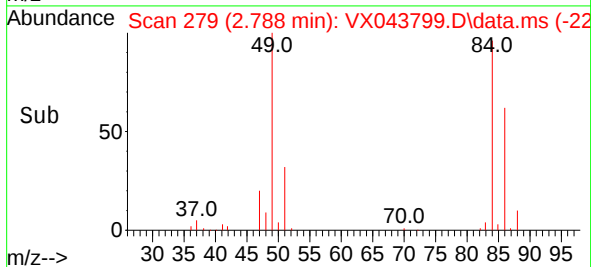
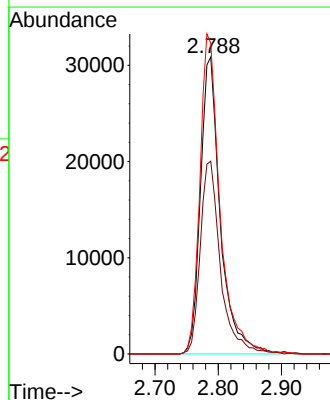
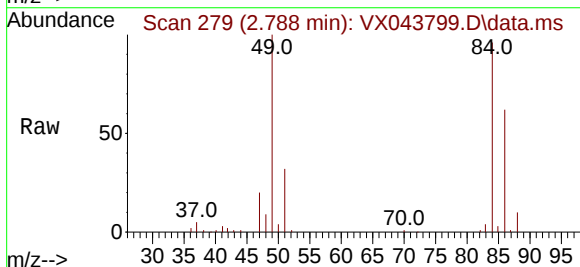
Tgt Ion: 84 Resp: 67564

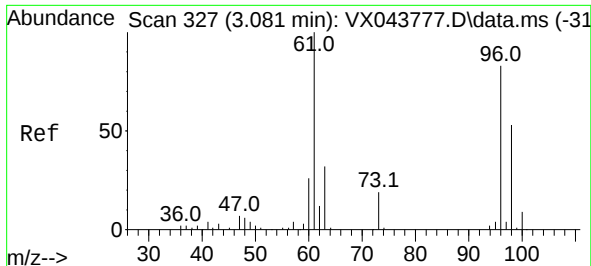
Ion Ratio Lower Upper

84 100

86 64.9 44.7 83.1

49 104.7 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 108.239 ug/L

RT: 3.087 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :

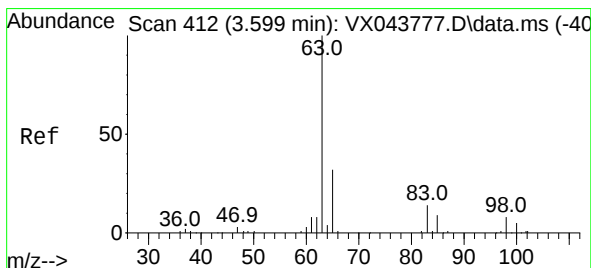
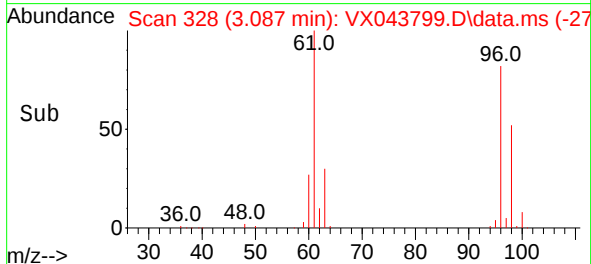
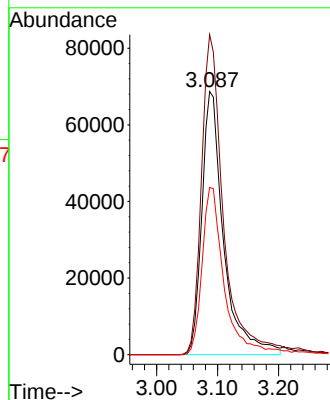
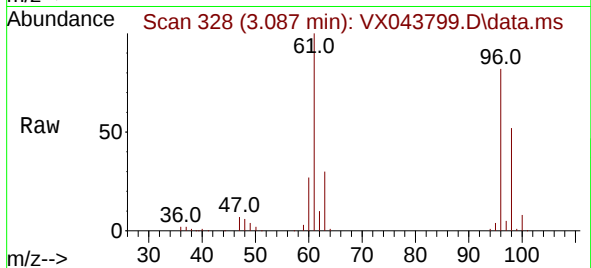
Tgt Ion: 96 Resp: 170743

Ion Ratio Lower Upper

96 100

61 121.5 93.4 173.6

98 63.5 44.1 81.9



#19

1,1-Dichloroethane

Concen: 295.716 ug/L

RT: 3.611 min Scan# 414

Delta R.T. 0.012 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

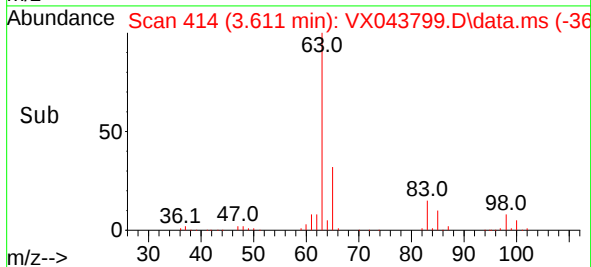
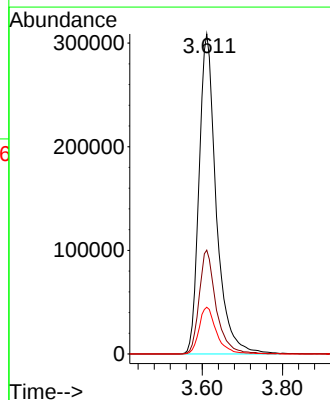
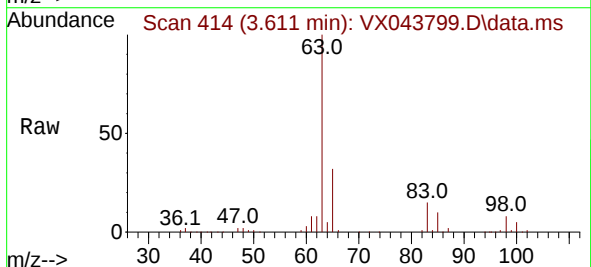
Tgt Ion: 63 Resp: 918578

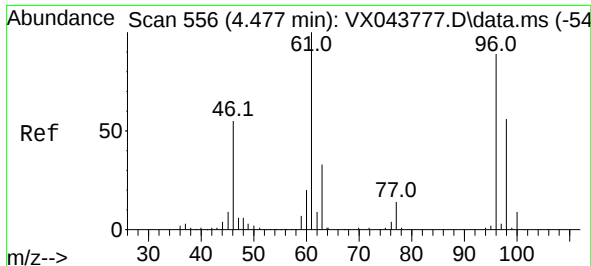
Ion Ratio Lower Upper

63 100

65 32.4 23.2 43.2

83 14.6 9.4 17.4





#20

cis-1,2-Dichloroethene

Concen: 5502.313 ug/L

RT: 4.489 min Scan# 556

Delta R.T. 0.012 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :

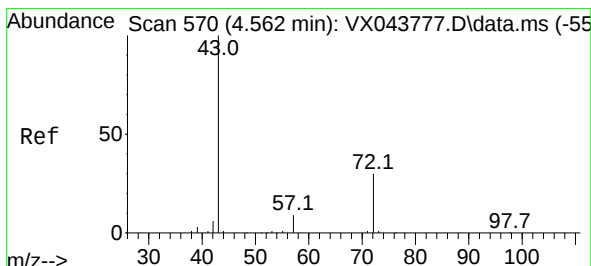
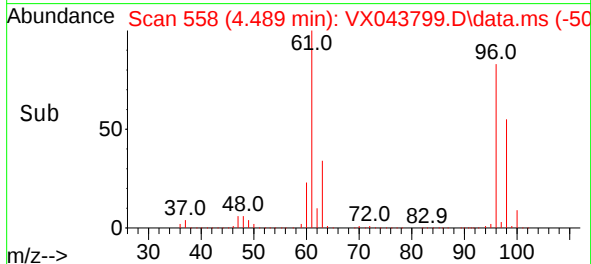
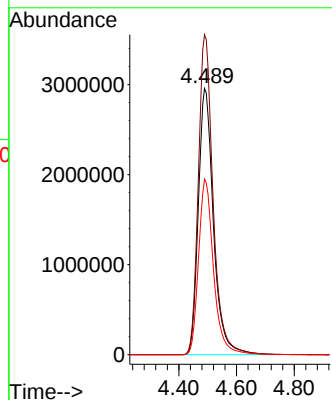
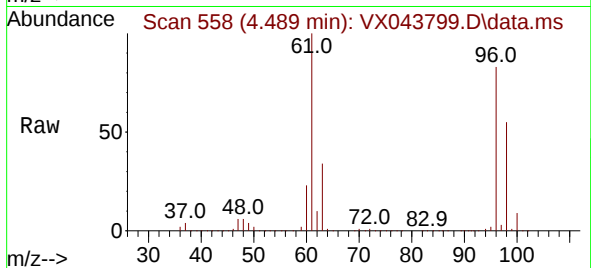
Tgt Ion: 96 Resp:10780627

Ion Ratio Lower Upper

96 100

61 120.2 85.2 158.2

98 65.9 44.6 82.8



#22

2-Butanone

Concen: 1.835 ug/L

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX043799.D

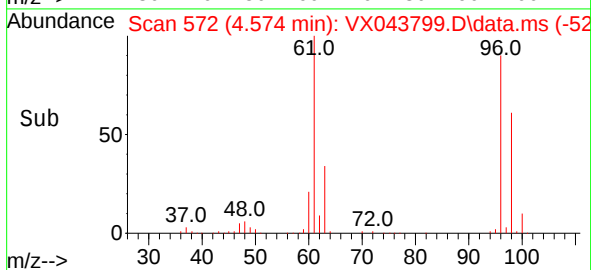
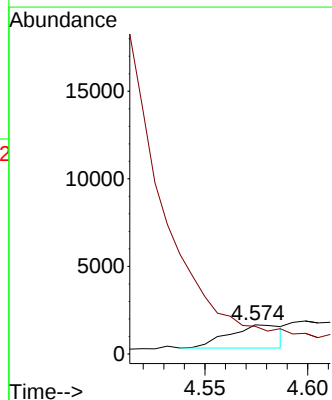
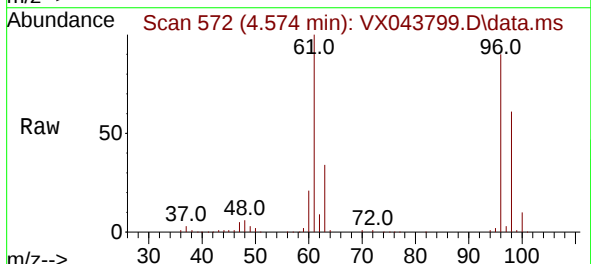
Acq: 11 Nov 2024 17:59

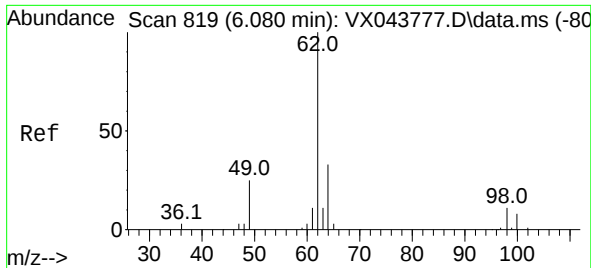
Tgt Ion: 43 Resp: 2367

Ion Ratio Lower Upper

43 100

72 0.0 13.6 40.8#





#27

1,2-Dichloroethane

Concen: 4.266 ug/L

RT: 6.092 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

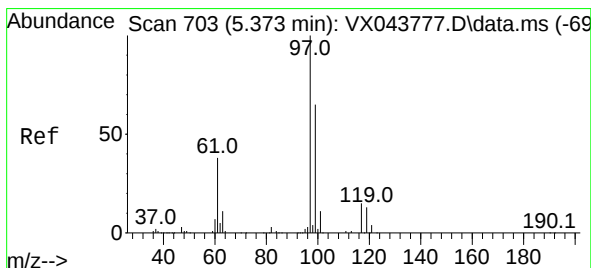
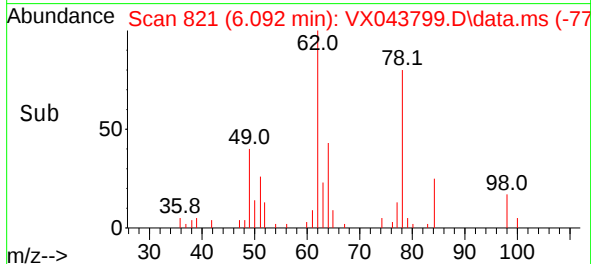
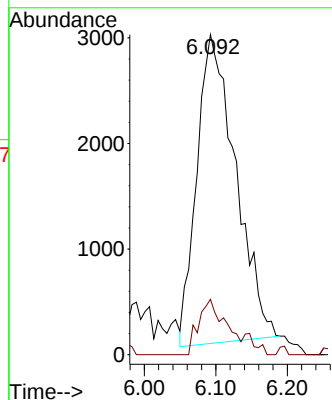
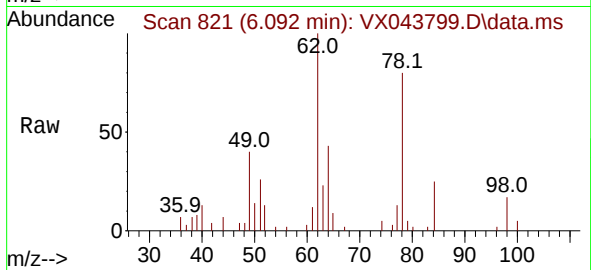
ClientSampleId :

Tgt Ion: 62 Resp: 10987

Ion Ratio Lower Upper

62 100

98 17.3 9.0 13.6#



#30

1,1,1-Trichloroethane

Concen: 509.546 ug/L

RT: 5.391 min Scan# 706

Delta R.T. 0.018 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

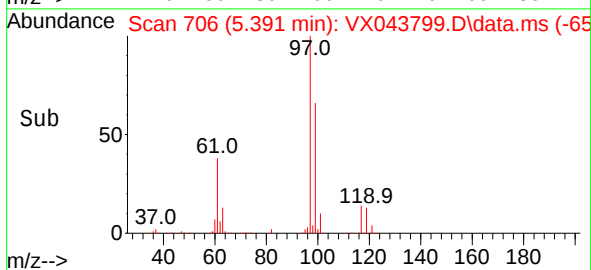
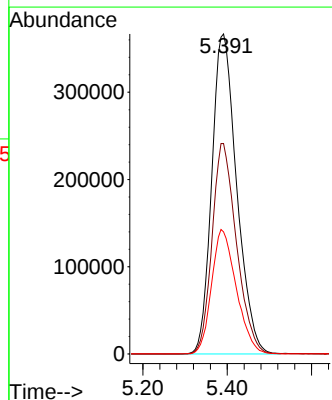
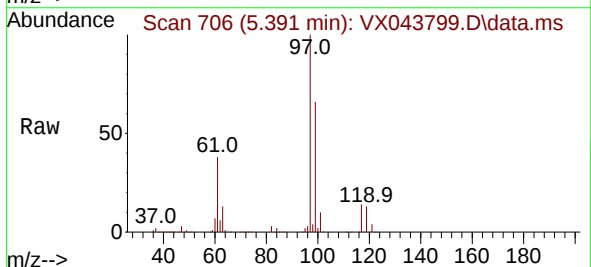
Tgt Ion: 97 Resp: 1504704

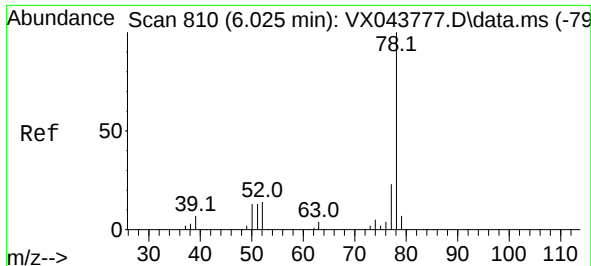
Ion Ratio Lower Upper

97 100

99 64.5 51.0 76.6

61 38.4 32.6 49.0





#33

Benzene

Concen: 1.169 ug/L

RT: 6.044 min Scan# 810

Delta R.T. 0.018 min

Lab File: VX043799.D

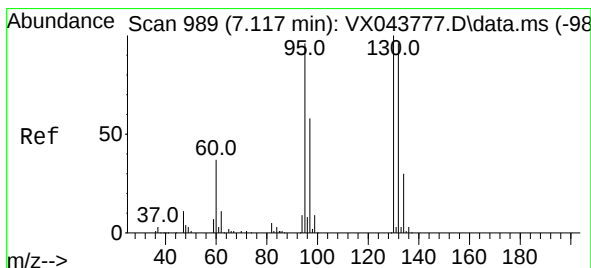
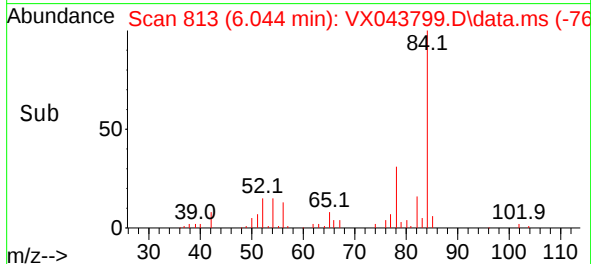
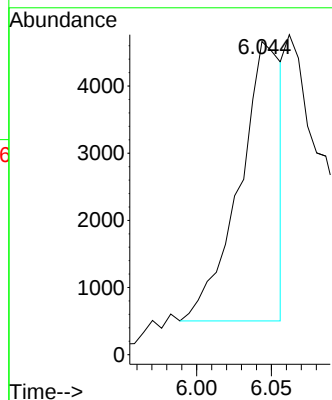
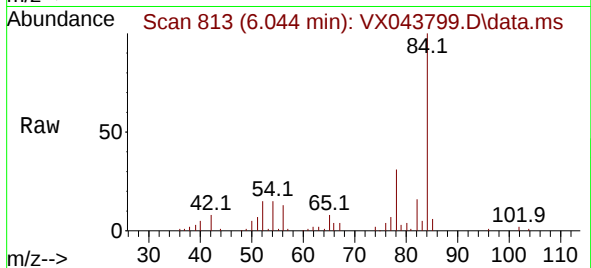
Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 78 Resp: 8120



#34

Trichloroethene

Concen: 29357.620 ug/L

RT: 7.178 min Scan# 999

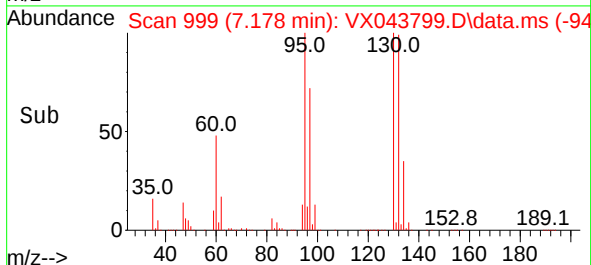
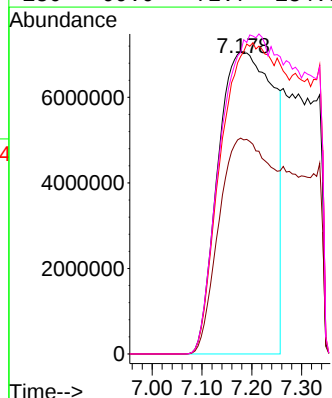
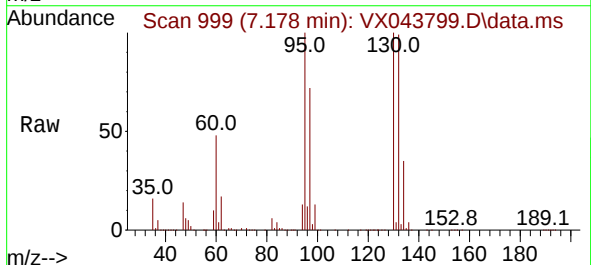
Delta R.T. 0.061 min

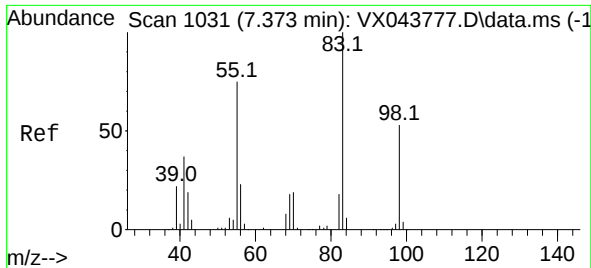
Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Tgt Ion: 95 Resp: 54840035

Ion	Ratio	Lower	Upper
95	100		
97	71.5	45.4	84.2
132	98.6	69.7	129.5
130	99.9	72.7	134.9





#35

Methylcyclohexane

Concen: 5.401 ug/L

RT: 7.391 min Scan# 1

Delta R.T. 0.018 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :

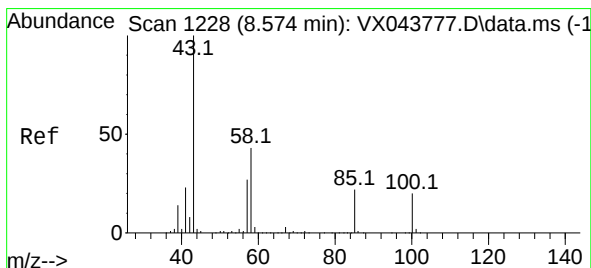
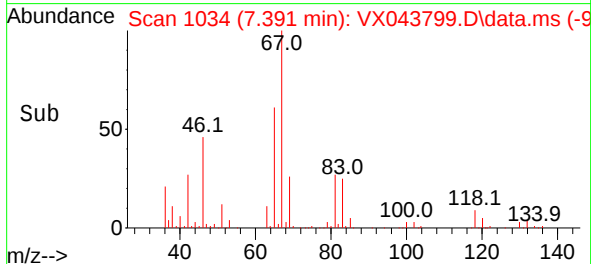
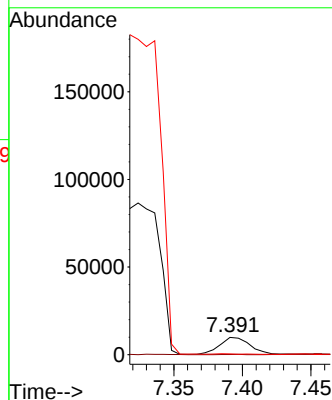
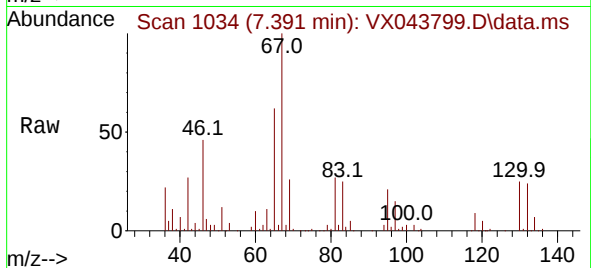
Tgt Ion: 83 Resp: 15074

Ion Ratio Lower Upper

83 100

55 0.0 58.6 88.0#

98 1.5 39.0 58.4#



#40

4-Methyl-2-pentanone

Concen: 39.633 ug/L

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

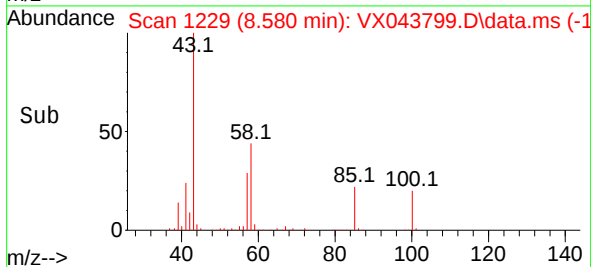
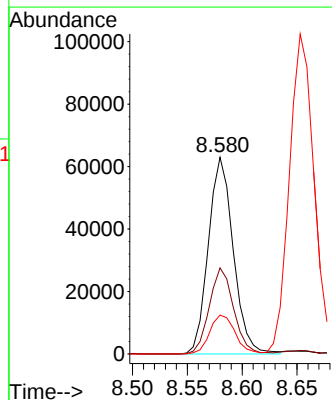
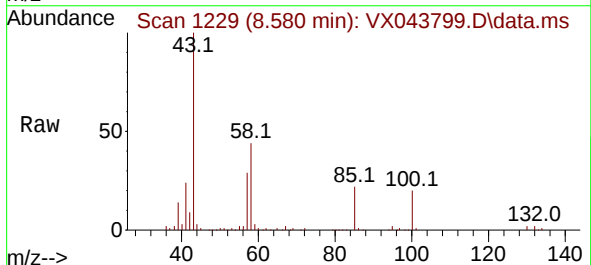
Tgt Ion: 43 Resp: 99844

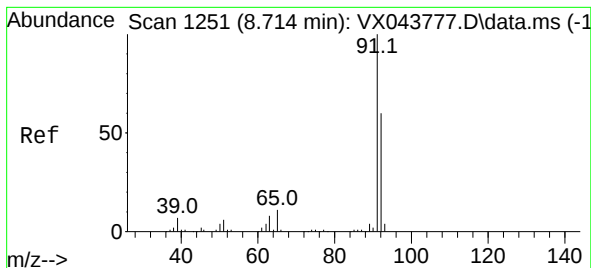
Ion Ratio Lower Upper

43 100

58 42.7 31.6 47.4

100 20.1 13.8 20.6





#42

Toluene

Concen: 80.330 ug/L

RT: 8.726 min Scan# 1253

Delta R.T. 0.012 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

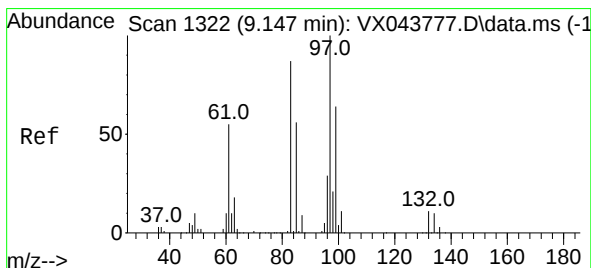
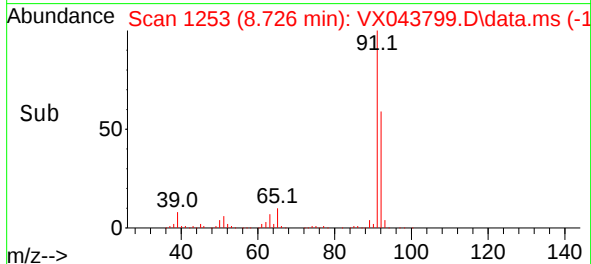
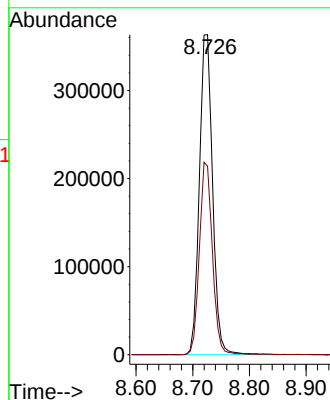
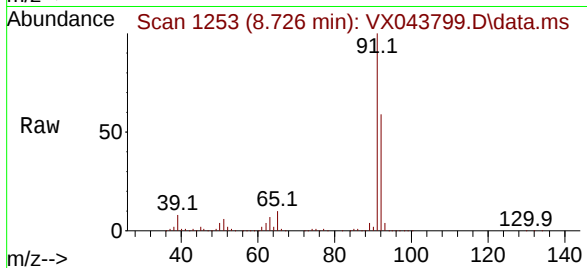
ClientSampleId :

Tgt Ion: 91 Resp: 587069

Ion Ratio Lower Upper

91 100

92 58.9 41.6 77.3



#45

1,1,2-Trichloroethane

Concen: 8.459 ug/L

RT: 9.159 min Scan# 1324

Delta R.T. 0.012 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Tgt Ion: 97 Resp: 16054

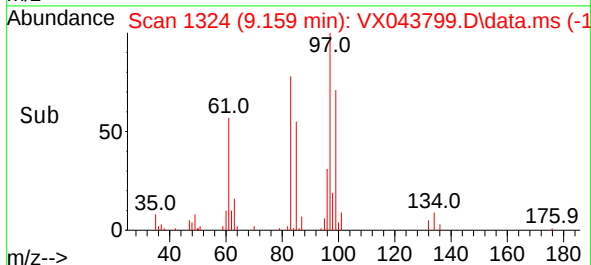
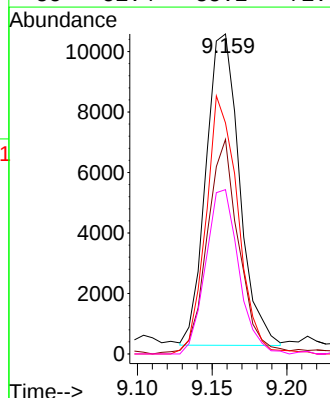
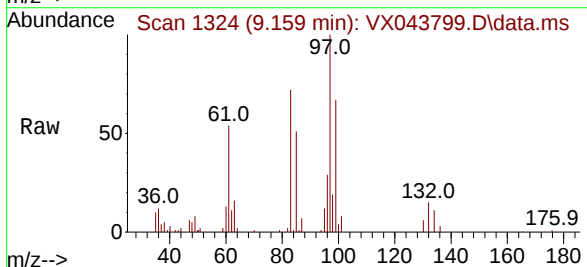
Ion Ratio Lower Upper

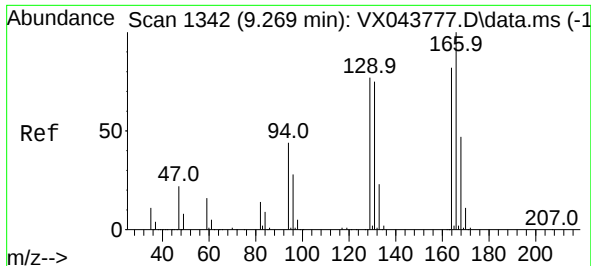
97 100

99 67.0 42.8 79.4

83 72.2 58.4 108.4

85 51.4 38.2 71.0





#46

Tetrachloroethene

Concen: 357.348 ug/L

RT: 9.275 min Scan# 14

Delta R.T. 0.006 min

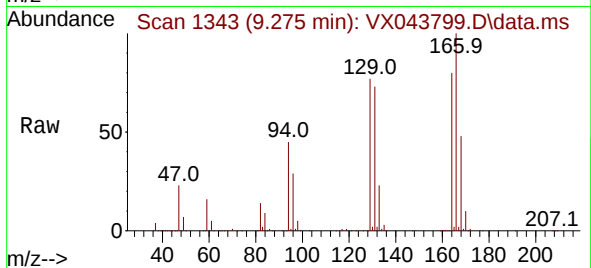
Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:164 Resp: 480486

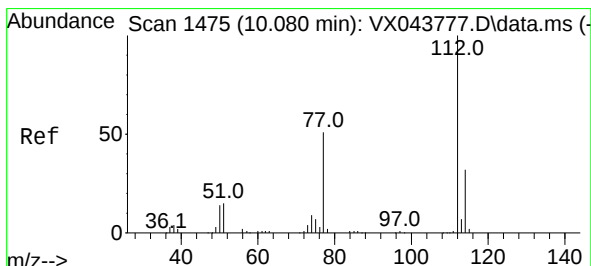
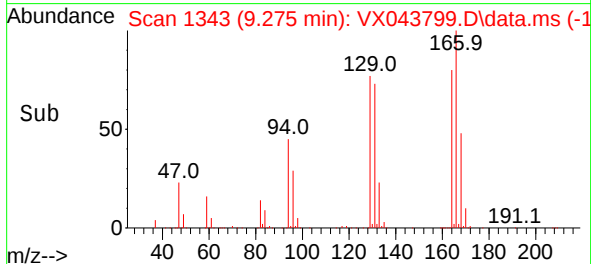
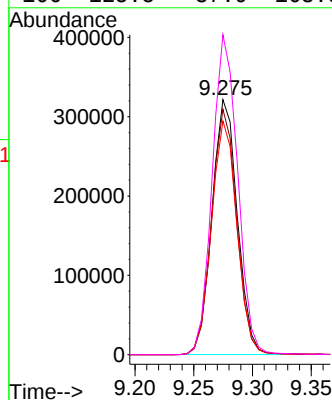
Ion Ratio Lower Upper

164 100

129 96.2 72.2 134.2

131 91.6 69.0 128.2

166 125.5 87.9 163.3



#51

Chlorobenzene

Concen: 2.488 ug/L

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

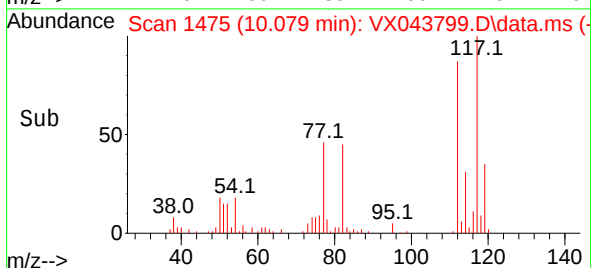
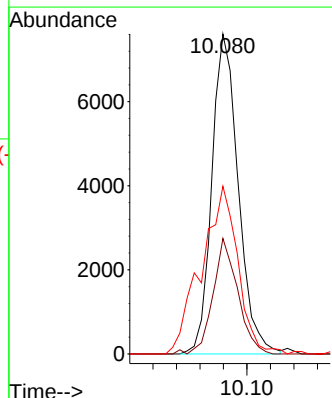
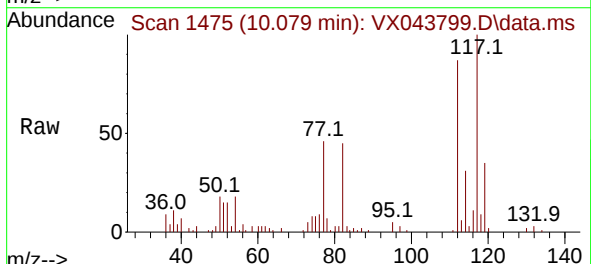
Tgt Ion:112 Resp: 11882

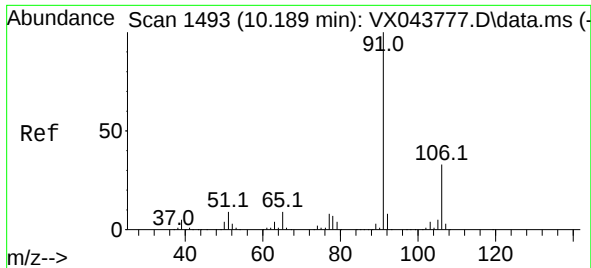
Ion Ratio Lower Upper

112 100

114 36.1 22.6 42.0

77 52.4 45.9 68.9





#52

Ethylbenzene

Concen: 3.236 ug/L

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

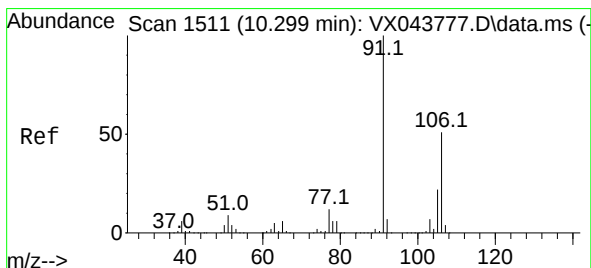
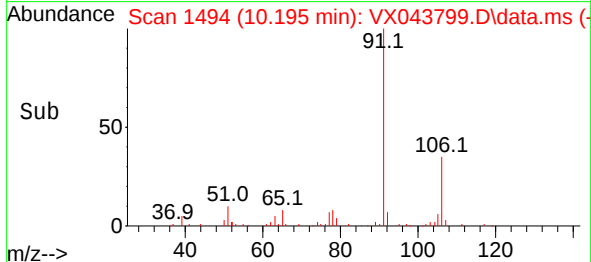
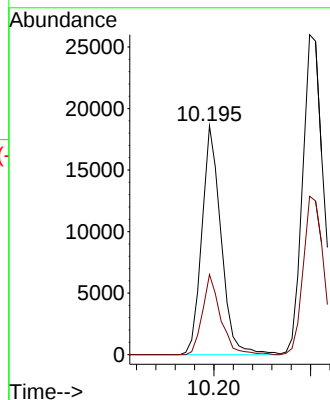
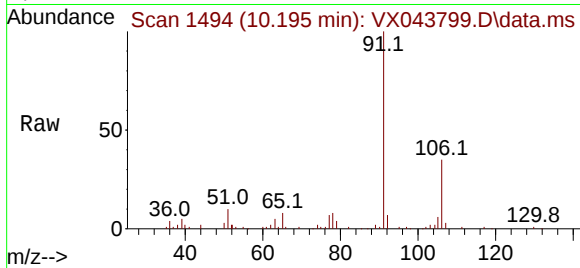
ClientSampleId :

Tgt Ion: 91 Resp: 25706

Ion Ratio Lower Upper

91 100

106 35.1 21.9 40.7



#53

m,p-Xylene

Concen: 6.343 ug/L

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX043799.D

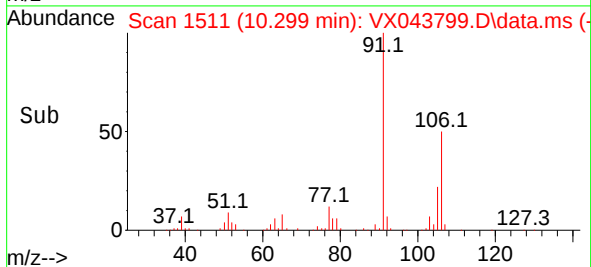
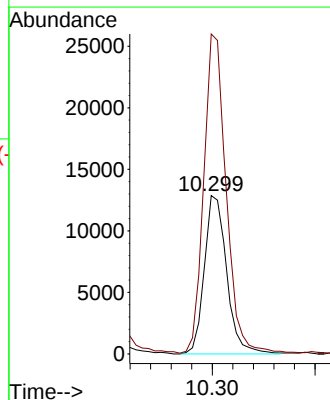
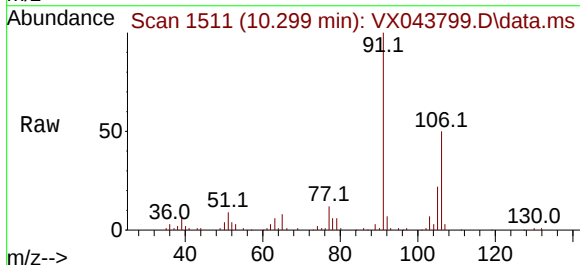
Acq: 11 Nov 2024 17:59

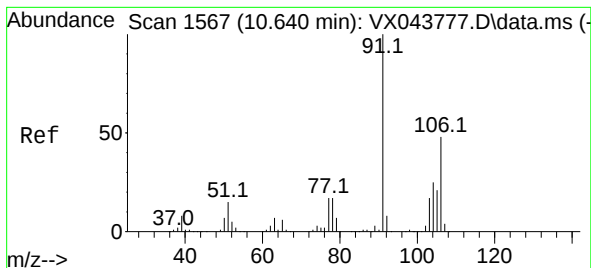
Tgt Ion:106 Resp: 19452

Ion Ratio Lower Upper

106 100

91 202.0 140.6 261.2





#54

o-Xylene

Concen: 2.959 ug/L

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Instrument :

MSVOA_X

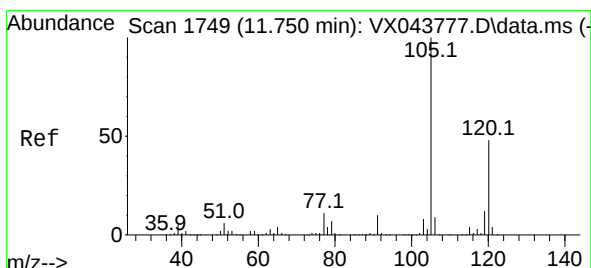
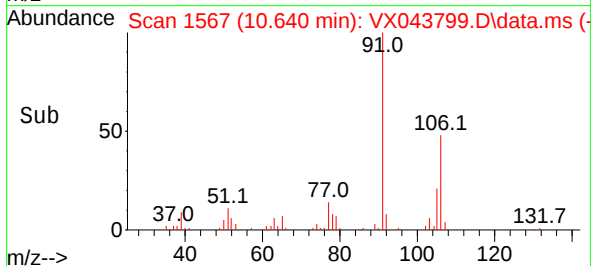
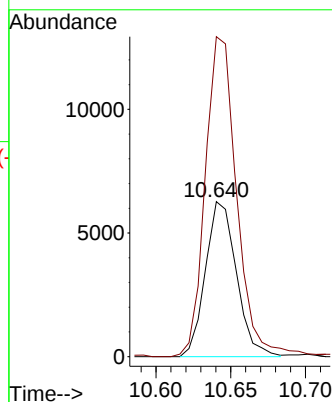
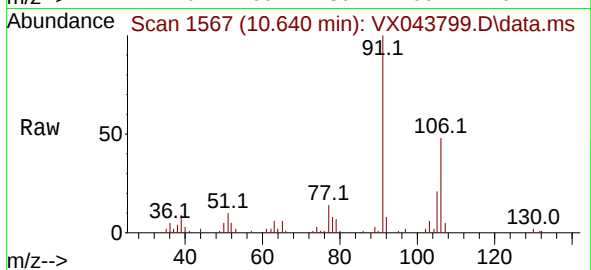
ClientSampleId :

Tgt Ion:106 Resp: 9047

Ion Ratio Lower Upper

106 100

91 206.4 151.9 282.1



#63

1,2,4-Trimethylbenzene

Concen: 1.386 ug/L

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX043799.D

Acq: 11 Nov 2024 17:59

Tgt Ion:105 Resp: 10591

Ion Ratio Lower Upper

105 100

120 47.8 35.7 53.5

