

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV112024\
 Data File : VV038217.D
 Acq On : 20 Nov 2024 15:57
 Operator : SY/MD
 Sample : P4883-04
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 21 01:50:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 21 01:41:56 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	249028	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	264575	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	115291	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	73278	3.839	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.800%
7) Chloroethane-d5	1.526	69	69267	4.486	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.800%
11) 1,1-Dichloroethene-d2	2.053	65	32229	3.924	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.400%
20) 2-Butanone-d5	3.777	46	180884	47.372	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	94.740%
24) Chloroform-d	4.239	84	165678	4.472	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
26) 1,2-Dichloroethane-d4	4.937	65	83011	4.994	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.800%
32) Benzene-d6	4.953	84	292582	4.279	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.600%
36) 1,2-Dichloropropane-d6	5.982	67	99800	4.743	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.800%
41) Toluene-d8	7.239	98	236699	3.741	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	74.800%
43) trans-1,3-Dichloroprop...	7.558	79	33049	4.225	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.400%
46) 2-Hexanone-d5	8.017	63	154749	50.888	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.780%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	83788	4.691	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.800%
66) 1,2-Dichlorobenzene-d4	11.554	152	97829	4.980	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.105	85	3948	0.168	ug/L	98
9) Trichlorofluoromethane	1.709	101	1962760	59.993	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	32723	1.753	ug/L	98
12) 1,1-Dichloroethene	2.063	96	5967	0.335	ug/L #	1
16) Methylene chloride	2.439	84	78969	3.893	ug/L	96
17) Methyl tert-butyl Ether	2.696	73	5615	0.140	ug/L	97
18) trans-1,2-Dichloroethene	2.699	96	2702	0.144	ug/L	94
19) 1,1-Dichloroethane	3.108	63	34254	1.007	ug/L	97
22) cis-1,2-Dichloroethene	3.802	96	346429	17.881	ug/L	100
25) Chloroform	4.268	83	6072	0.167	ug/L	91
27) 1,2-Dichloroethane	5.056	62	9789	0.494	ug/L	98
29) 1,1,1-Trichloroethane	4.500	97	115369	3.636	ug/L	98
34) Trichloroethene	5.821	95	1423513	70.265	ug/L	98
35) Methylcyclohexane	5.985	83	26001	0.907	ug/L #	19
42) Toluene	7.317	91	68895	0.875	ug/L	96
47) Tetrachloroethene	7.899	164	126193	7.752	ug/L	98
49) Dibromochloromethane	7.899	129	118652	7.209	ug/L #	11
51) Chlorobenzene	8.812	112	32804	0.605	ug/L	96
52) Ethylbenzene	8.950	91	24110	0.289	ug/L	97

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QLast Update : Thu Nov 21 01:41:56 2024
Response via : Initial Calibration

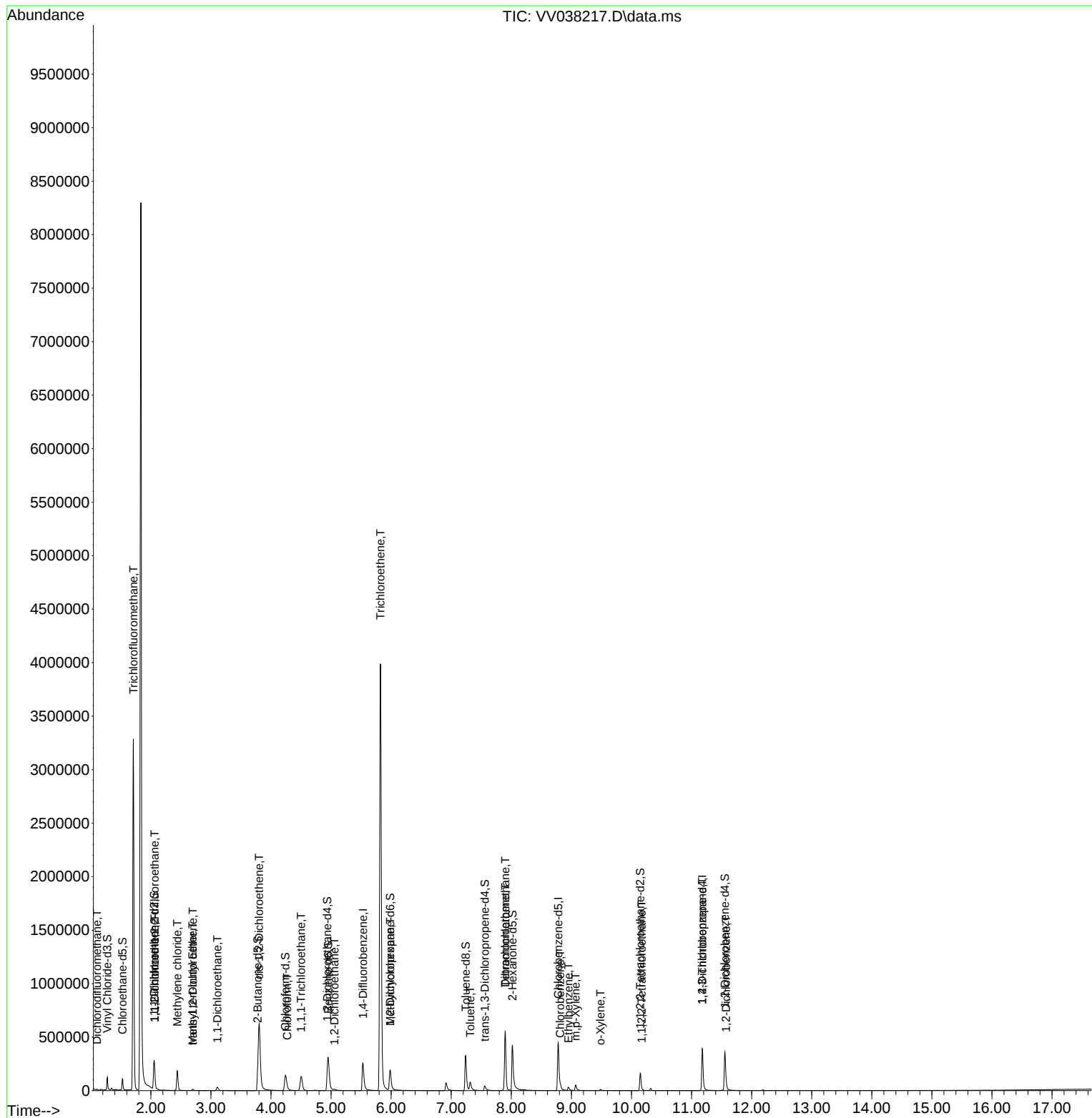
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.072	106	16977	0.539	ug/L	92
54) o-Xylene	9.484	106	3306	0.108	ug/L	66
57) 1,1,2,2-Tetrachloroethane	10.172	83	3590	0.203	ug/L #	86
61) 1,2,3-Trichloropropane	11.178	75	13230	1.340	ug/L #	67
67) 1,2-Dichlorobenzene	11.574	146	18214	0.552	ug/L	94

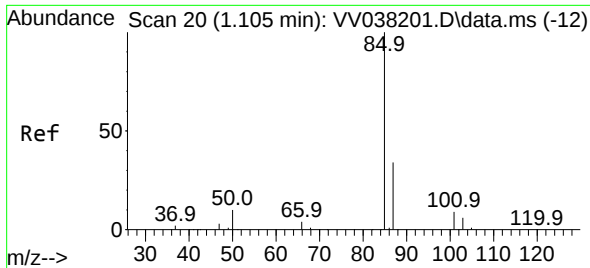
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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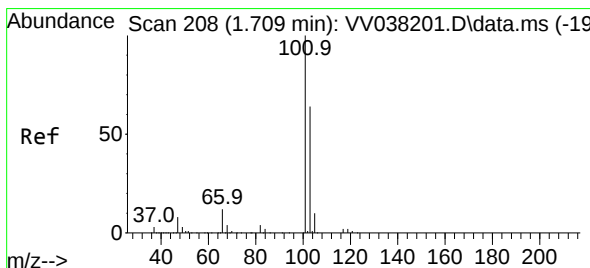
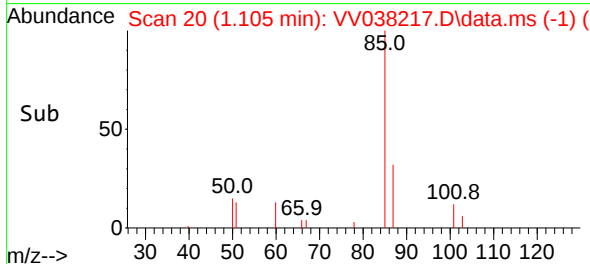
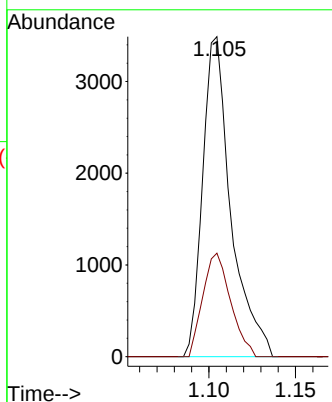
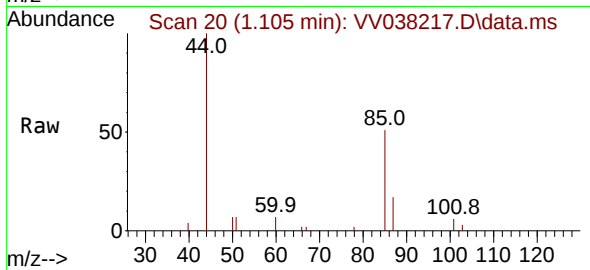




#2
Dichlorodifluoromethane
Concen: 0.168 ug/L
RT: 1.105 min Scan# 20
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

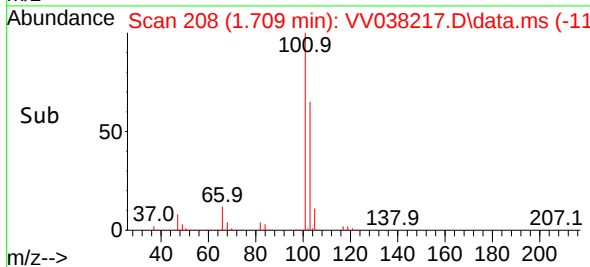
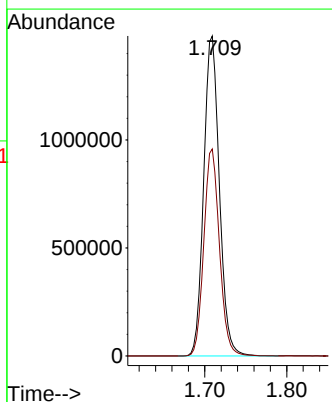
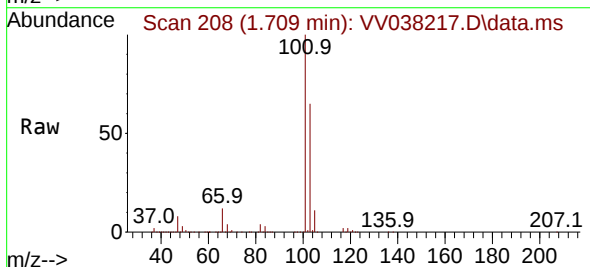
Instrument :
MSVOA_V
ClientSampleId :

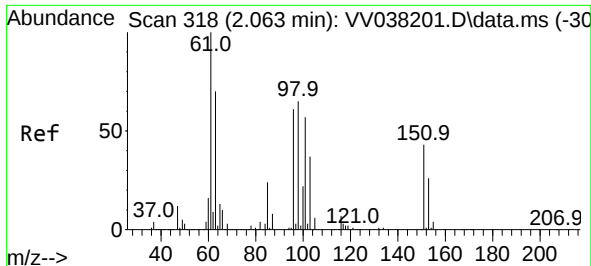
Tgt Ion: 85 Resp: 3948
Ion Ratio Lower Upper
85 100
87 31.8 26.5 39.7



#9
Trichlorofluoromethane
Concen: 59.993 ug/L
RT: 1.709 min Scan# 208
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Tgt Ion:101 Resp: 1962760
Ion Ratio Lower Upper
101 100
103 64.5 51.5 77.3

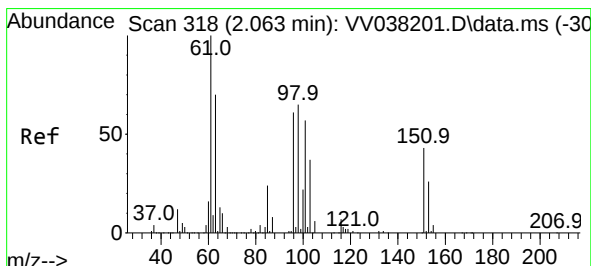
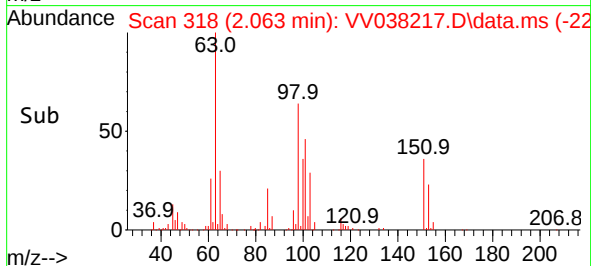
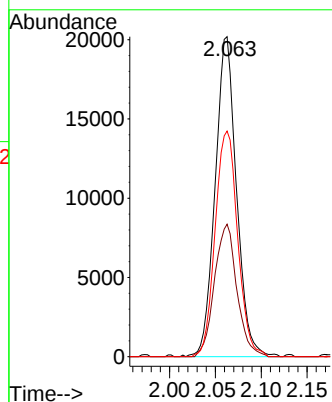
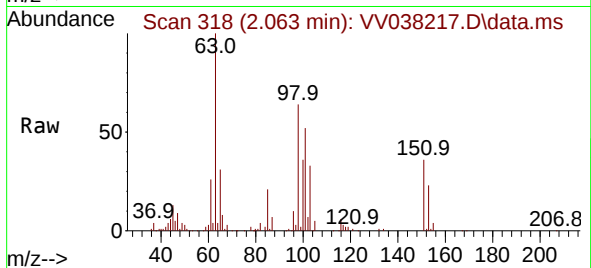




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 1.753 ug/L
RT: 2.063 min Scan# 318
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

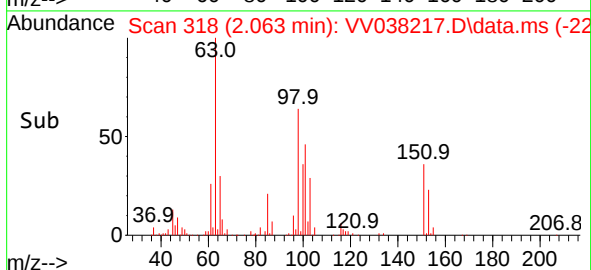
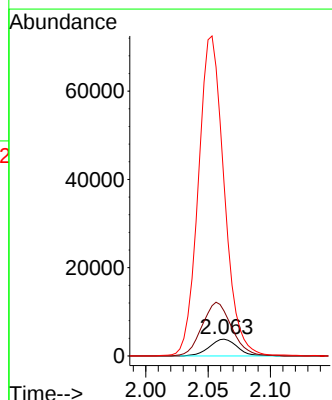
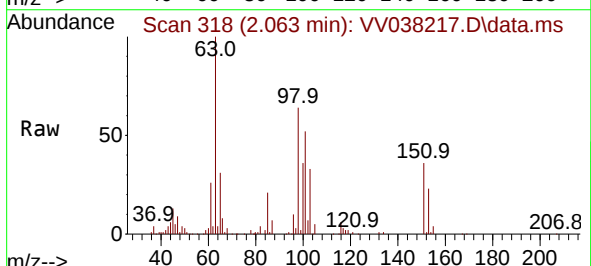
Instrument :
MSVOA_V
ClientSampleId :

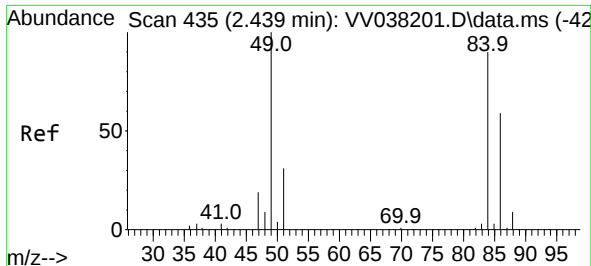
Tgt Ion:101 Resp: 32723
Ion Ratio Lower Upper
101 100
85 43.5 33.4 50.0
151 74.4 58.8 88.2



#12
1,1-Dichloroethene
Concen: 0.335 ug/L
RT: 2.063 min Scan# 318
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

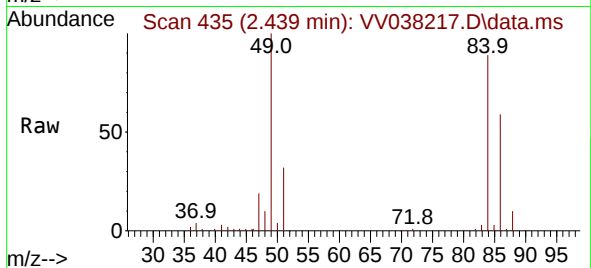
Tgt Ion: 96 Resp: 5967
Ion Ratio Lower Upper
96 100
61 267.6 115.7 214.9#
63 1027.6 101.1 187.7#





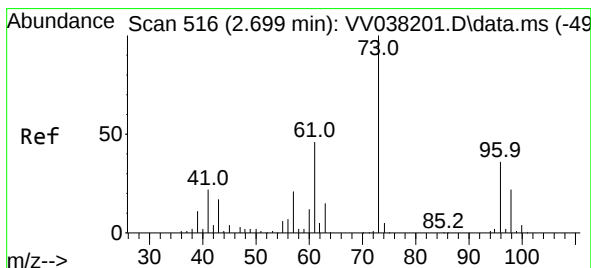
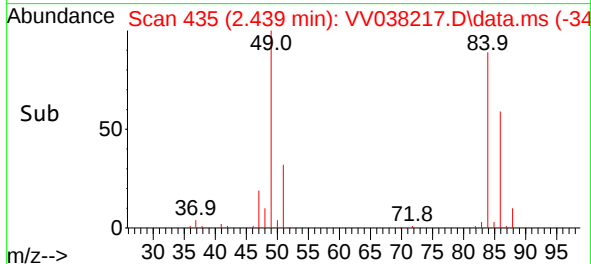
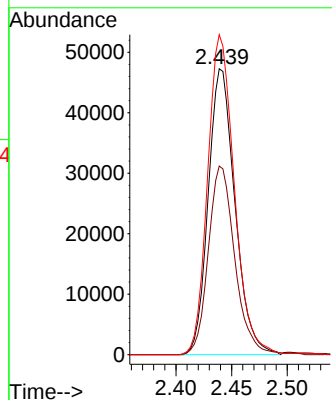
#16
Methylene chloride
Concen: 3.893 ug/L
RT: 2.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 84 Resp: 78969

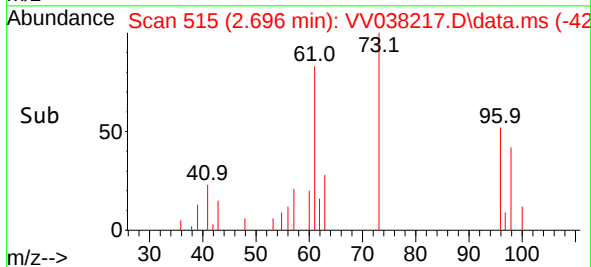
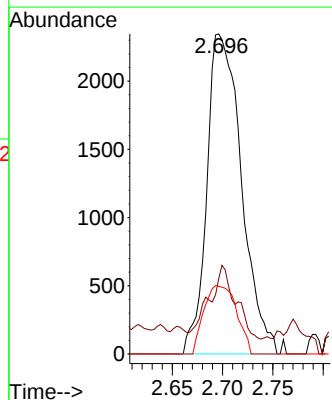
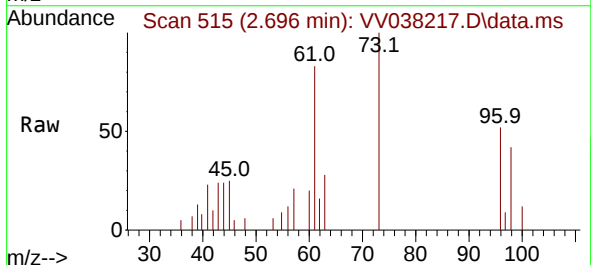
Ion	Ratio	Lower	Upper
84	100		
86	66.0	44.2	82.2
49	111.9	74.9	139.1

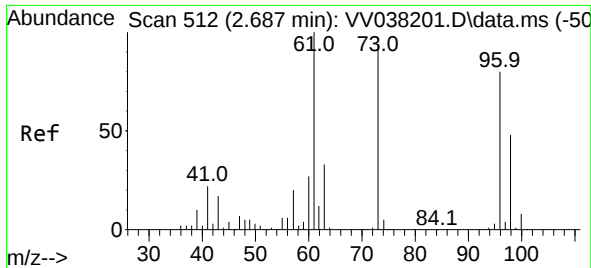


#17
Methyl tert-butyl Ether
Concen: 0.140 ug/L
RT: 2.696 min Scan# 515
Delta R.T. -0.003 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Tgt Ion: 73 Resp: 5615

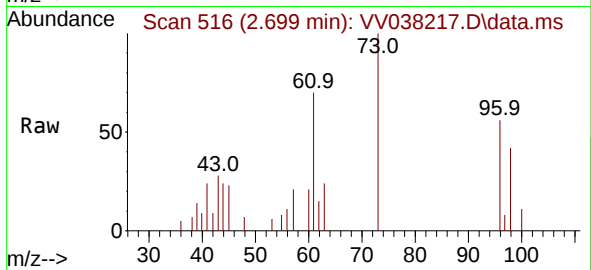
Ion	Ratio	Lower	Upper
73	100		
43	18.0	14.2	21.2
57	20.1	17.6	26.4



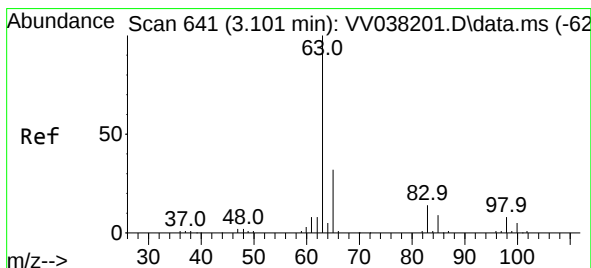
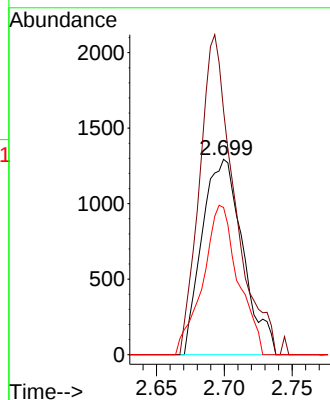
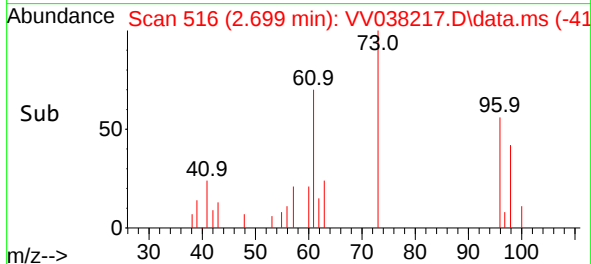


#18
trans-1,2-Dichloroethene
Concen: 0.144 ug/L
RT: 2.699 min Scan# 512
Delta R.T. 0.013 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

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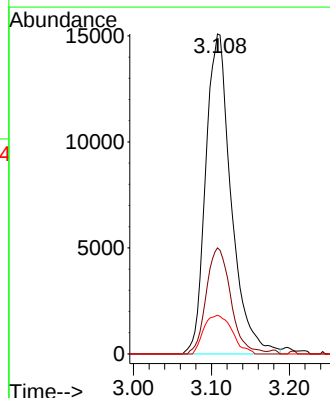
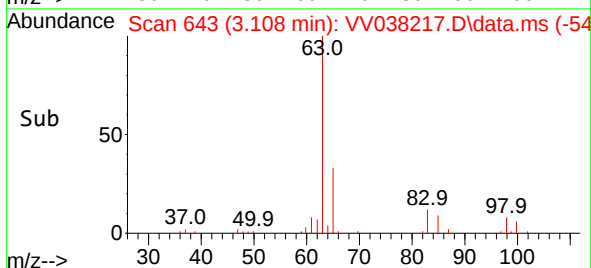
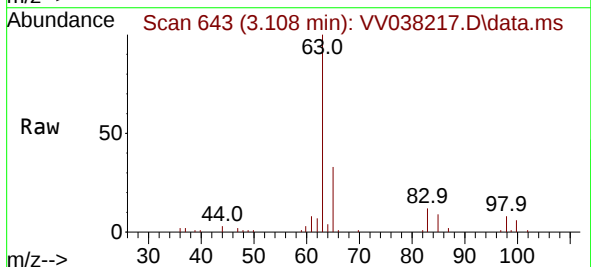


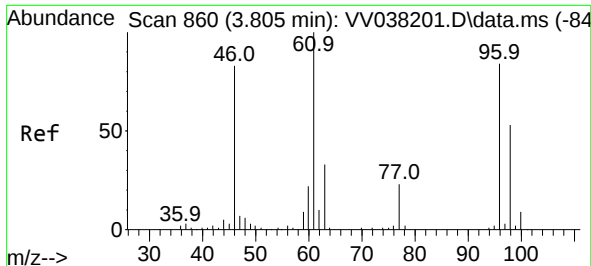
Tgt Ion: 96 Resp: 2702
Ion Ratio Lower Upper
96 100
61 125.0 88.5 164.4
98 75.4 43.9 81.5



#19
1,1-Dichloroethane
Concen: 1.007 ug/L
RT: 3.108 min Scan# 643
Delta R.T. 0.006 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Tgt Ion: 63 Resp: 34254
Ion Ratio Lower Upper
63 100
65 33.2 22.5 41.7
83 12.1 10.1 18.9





#22

cis-1,2-Dichloroethene

Concen: 17.881 ug/L

RT: 3.802 min Scan# 81

Delta R.T. -0.003 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

ClientSampleId :

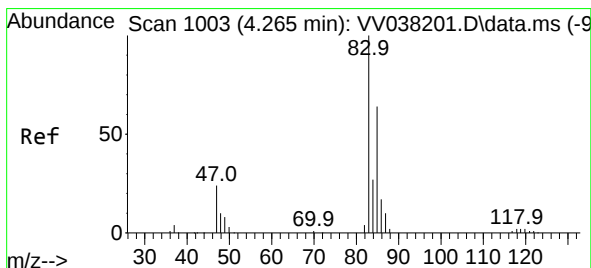
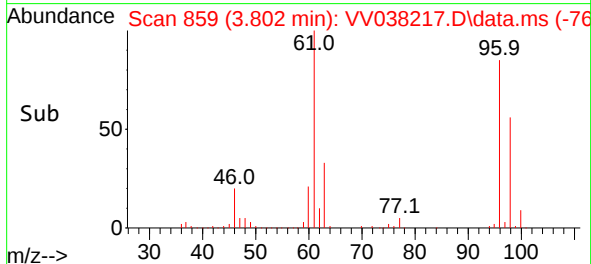
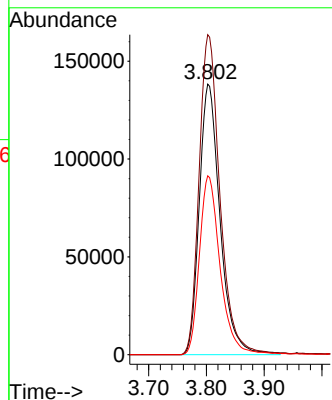
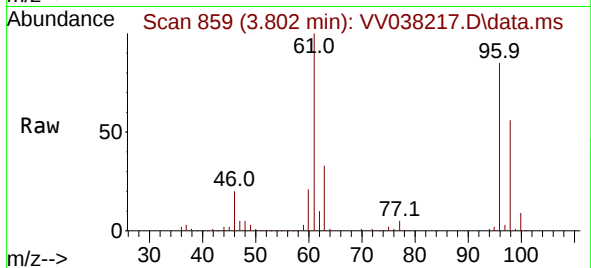
Tgt Ion: 96 Resp: 346429

Ion Ratio Lower Upper

96 100

61 118.3 82.7 153.5

98 66.1 46.3 85.9



#25

Chloroform

Concen: 0.167 ug/L

RT: 4.268 min Scan# 1004

Delta R.T. 0.003 min

Lab File: VV038217.D

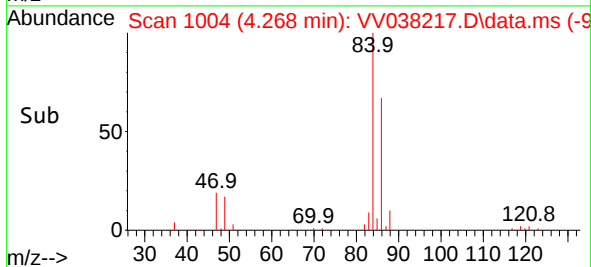
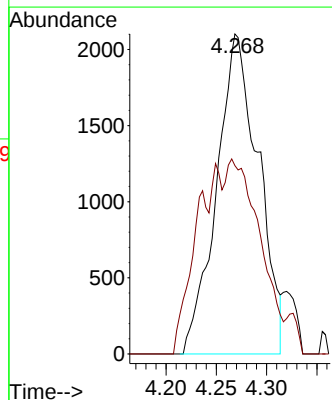
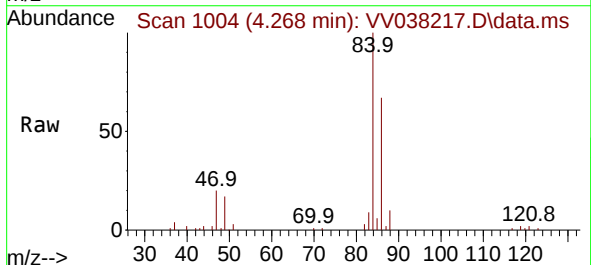
Acq: 20 Nov 2024 15:57

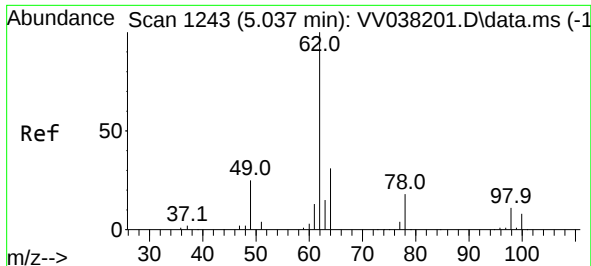
Tgt Ion: 83 Resp: 6072

Ion Ratio Lower Upper

83 100

85 58.8 46.5 86.3





#27

1,2-Dichloroethane

Concen: 0.494 ug/L

RT: 5.056 min Scan# 11

Delta R.T. 0.019 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

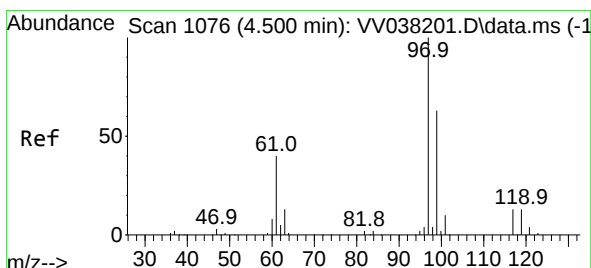
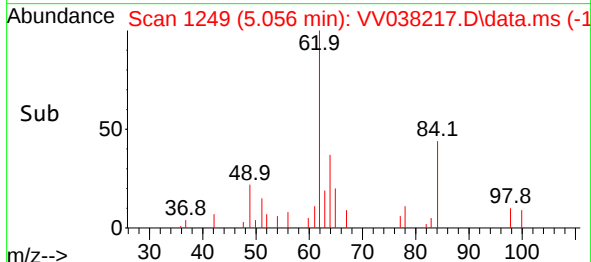
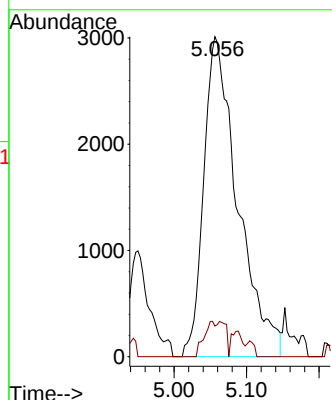
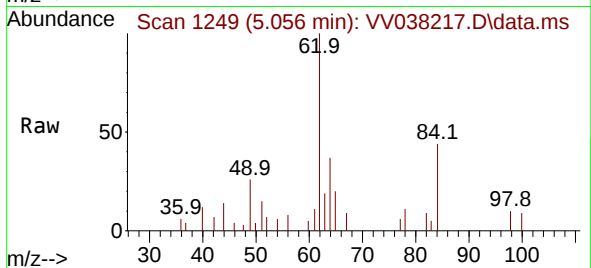
ClientSampleId :

Tgt Ion: 62 Resp: 9789

Ion Ratio Lower Upper

62 100

98 9.6 8.2 12.4



#29

1,1,1-Trichloroethane

Concen: 3.636 ug/L

RT: 4.500 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

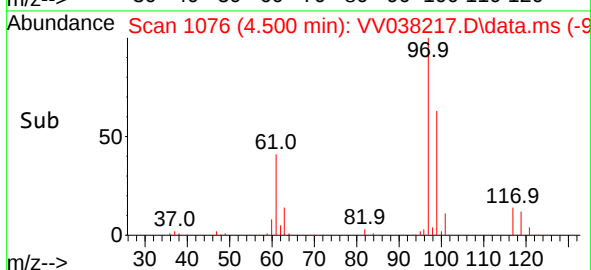
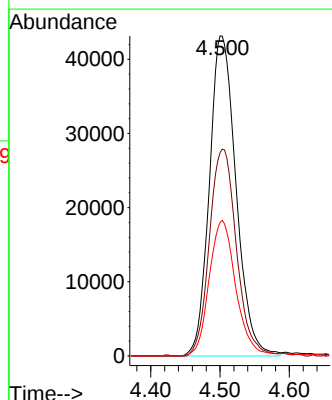
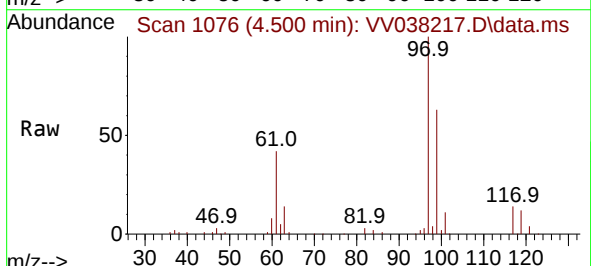
Tgt Ion: 97 Resp: 115369

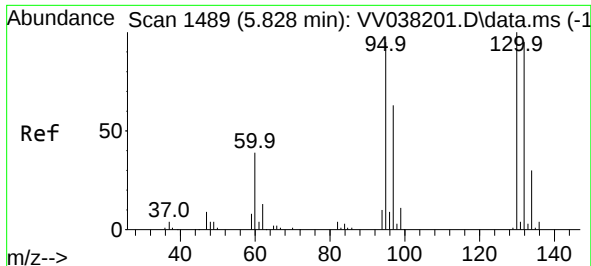
Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.8

61 42.3 32.2 48.2



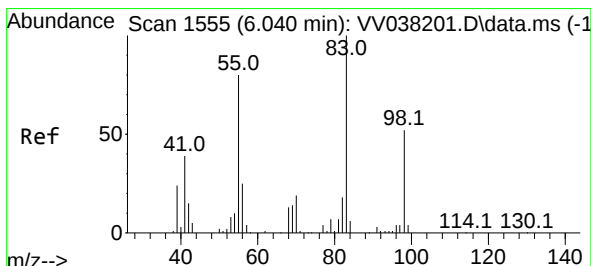
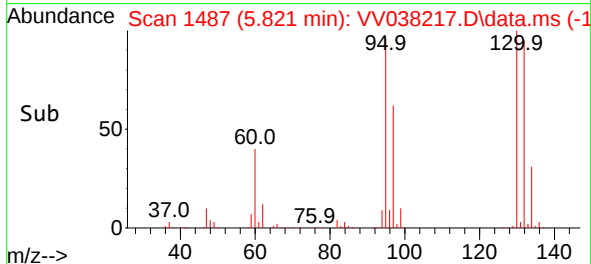
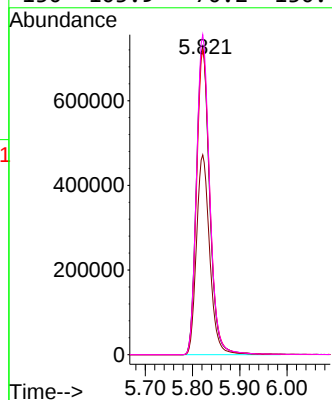
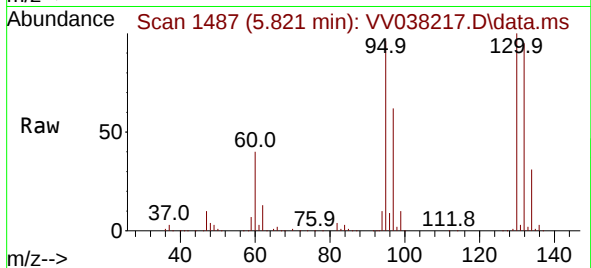


#34
Trichloroethene
Concen: 70.265 ug/L
RT: 5.821 min Scan# 1489
Delta R.T. -0.006 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 95 Resp: 1423513

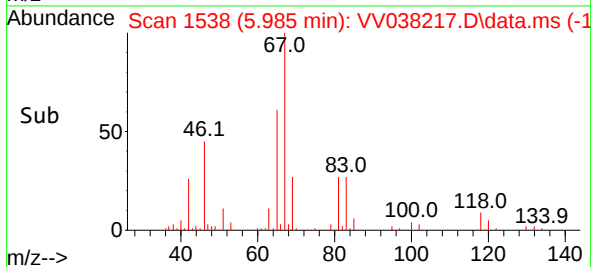
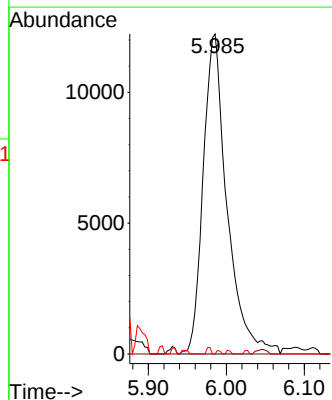
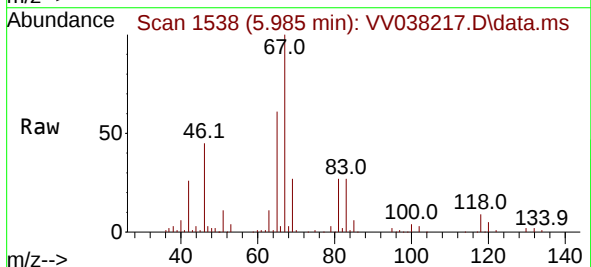
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.8	83.2
132	99.0	68.3	126.8
130	103.9	70.2	130.4

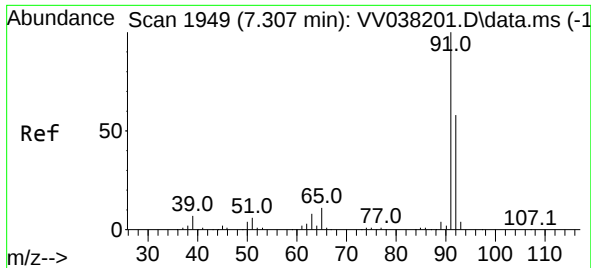


#35
Methylcyclohexane
Concen: 0.907 ug/L
RT: 5.985 min Scan# 1538
Delta R.T. -0.055 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Tgt Ion: 83 Resp: 26001

Ion	Ratio	Lower	Upper
83	100		
55	0.6	59.7	89.5#
98	0.0	39.0	58.4#





#42

Toluene

Concen: 0.875 ug/L

RT: 7.317 min Scan# 1949

Delta R.T. 0.010 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

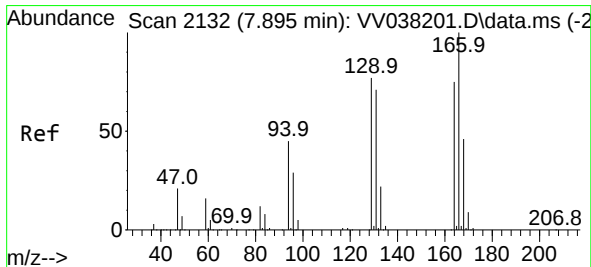
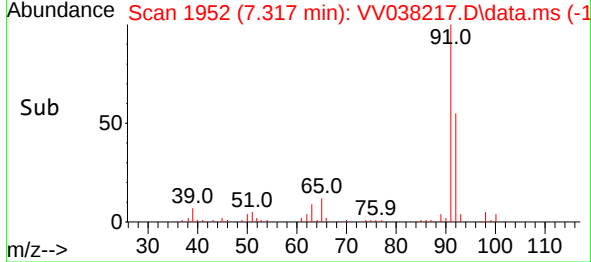
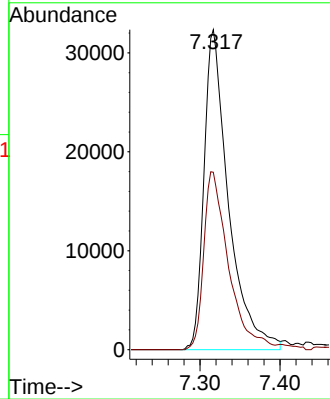
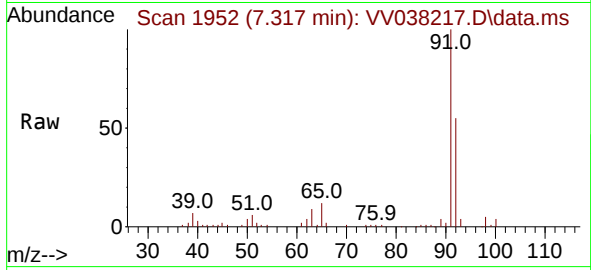
ClientSampleId :

Tgt Ion: 91 Resp: 68895

Ion Ratio Lower Upper

91 100

92 55.5 40.8 75.8



#47

Tetrachloroethene

Concen: 7.752 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. 0.003 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Tgt Ion: 164 Resp: 126193

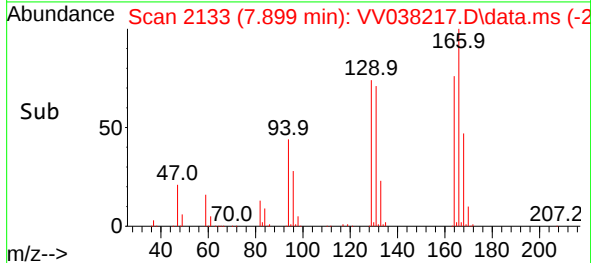
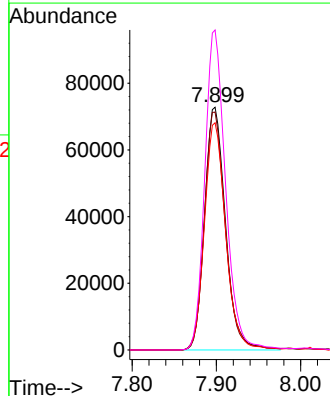
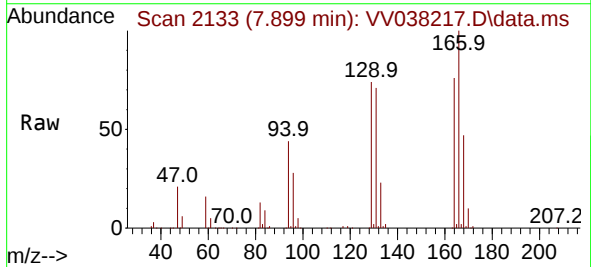
Ion Ratio Lower Upper

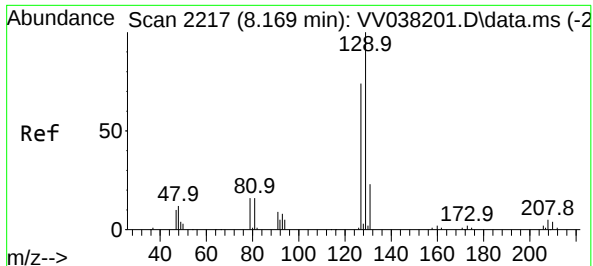
164 100

129 98.0 68.5 127.1

131 93.6 64.8 120.4

166 131.8 88.3 163.9





#49

Dibromochloromethane

Concen: 7.209 ug/L

RT: 7.899 min Scan# 2133

Delta R.T. -0.270 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

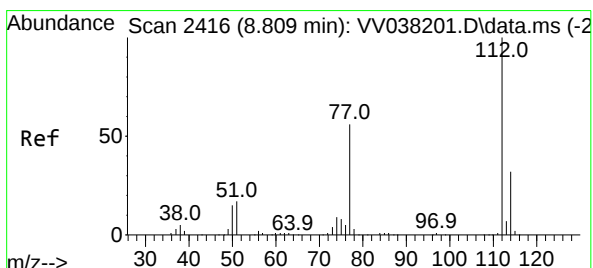
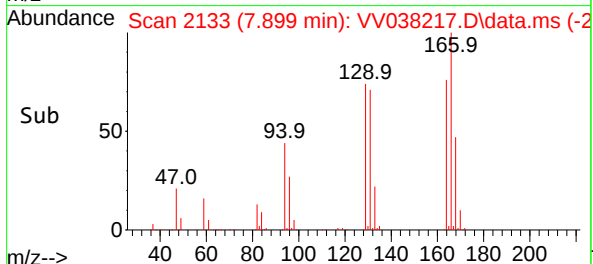
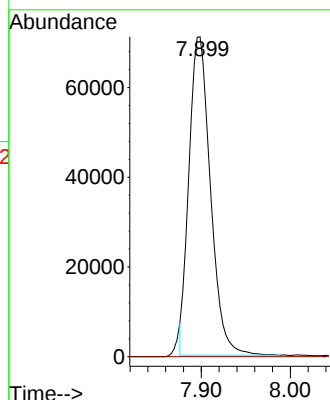
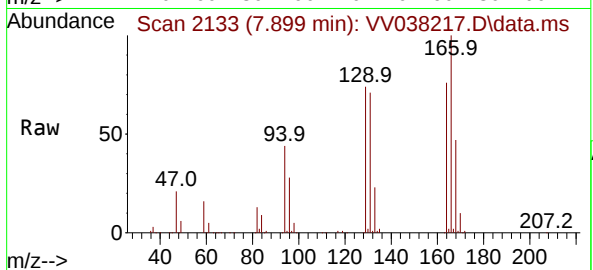
ClientSampleId :

Tgt Ion:129 Resp: 118652

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.3#



#51

Chlorobenzene

Concen: 0.605 ug/L

RT: 8.812 min Scan# 2417

Delta R.T. 0.003 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

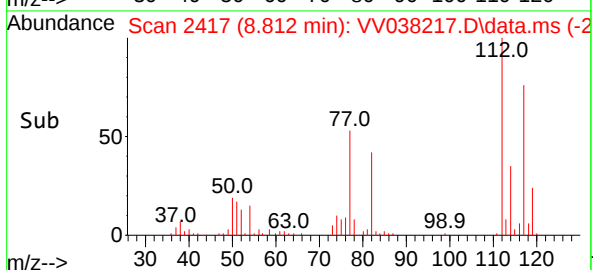
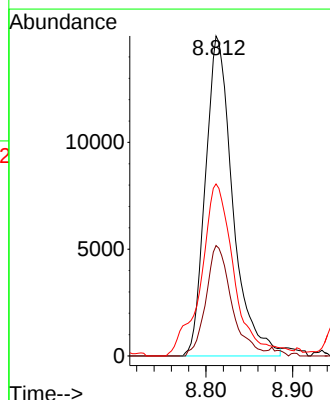
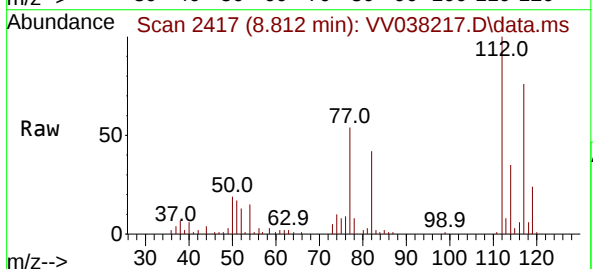
Tgt Ion:112 Resp: 32804

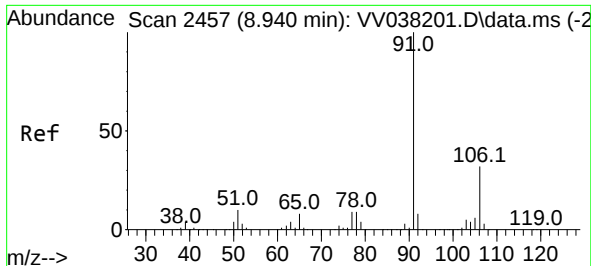
Ion Ratio Lower Upper

112 100

114 34.5 22.0 40.8

77 53.7 45.0 67.4





#52

Ethylbenzene

Concen: 0.289 ug/L

RT: 8.950 min Scan# 2457

Delta R.T. 0.010 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

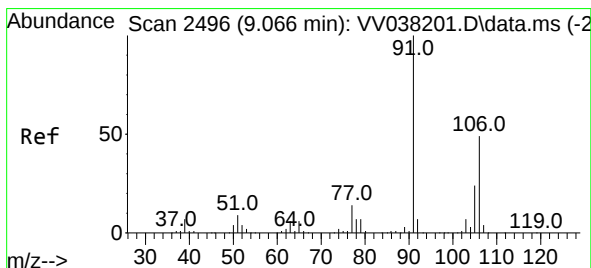
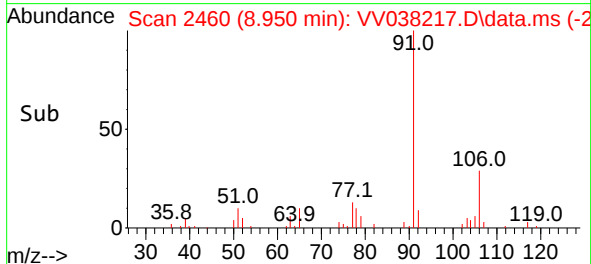
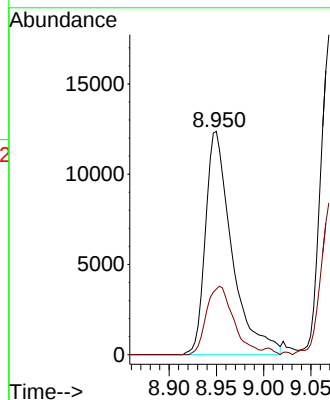
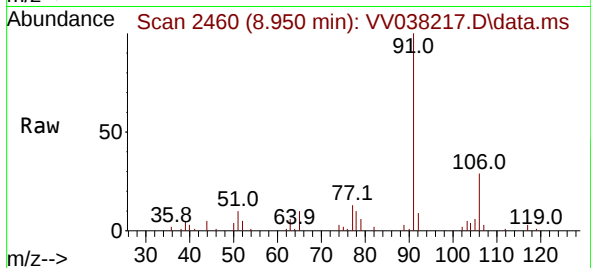
ClientSampleId :

Tgt Ion: 91 Resp: 24110

Ion Ratio Lower Upper

91 100

106 29.4 21.8 40.4



#53

m,p-Xylene

Concen: 0.539 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.006 min

Lab File: VV038217.D

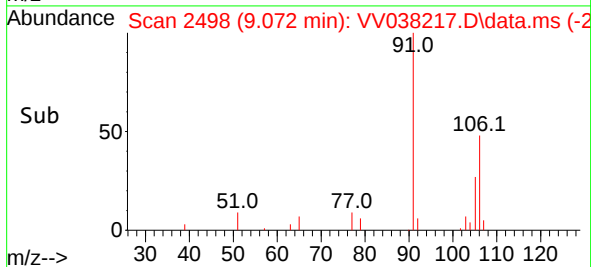
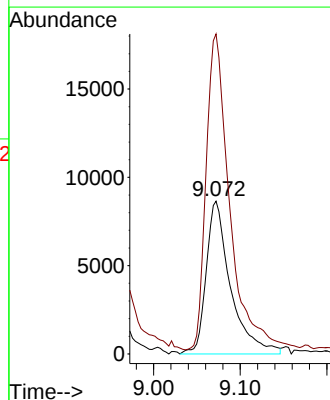
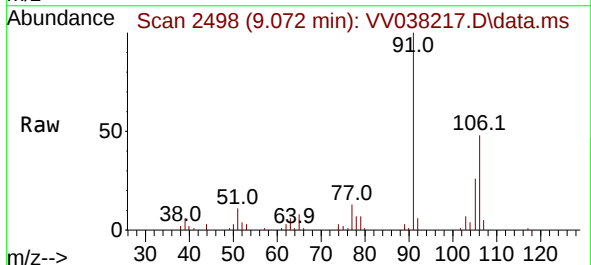
Acq: 20 Nov 2024 15:57

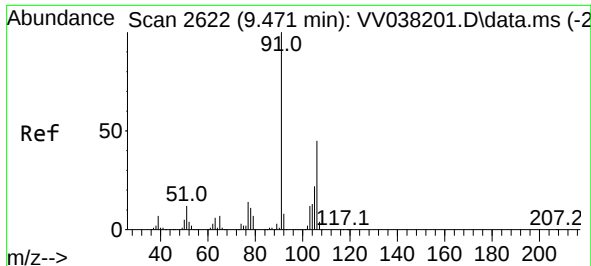
Tgt Ion: 106 Resp: 16977

Ion Ratio Lower Upper

106 100

91 209.4 138.7 257.5

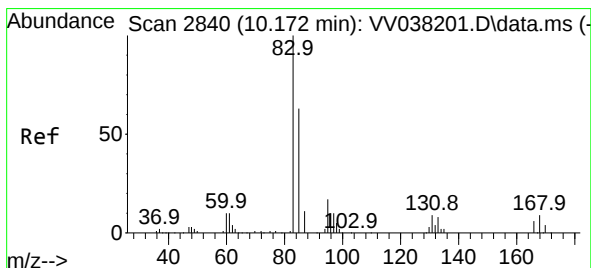
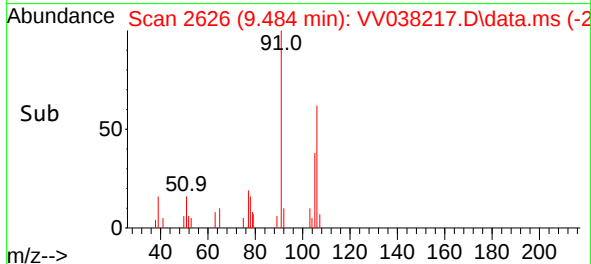
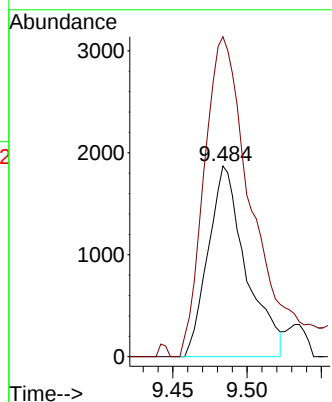
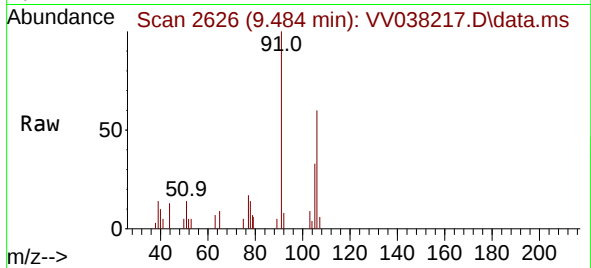




#54
o-Xylene
Concen: 0.108 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.013 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

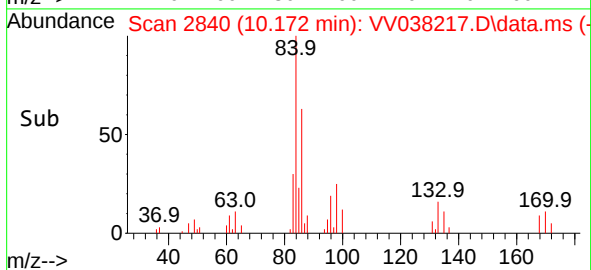
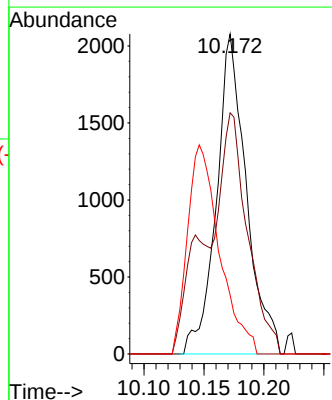
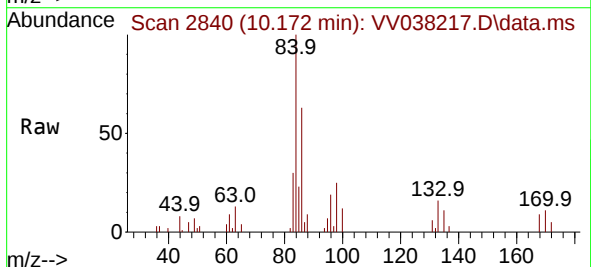
Instrument :
MSVOA_V
ClientSampleId :

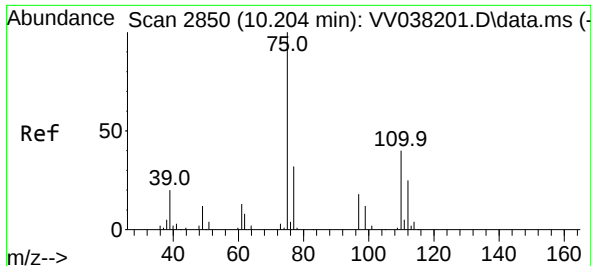
Tgt Ion:106 Resp: 3306
Ion Ratio Lower Upper
106 100
91 167.8 155.5 288.7



#57
1,1,2,2-Tetrachloroethane
Concen: 0.203 ug/L
RT: 10.172 min Scan# 2840
Delta R.T. -0.000 min
Lab File: VV038217.D
Acq: 20 Nov 2024 15:57

Tgt Ion: 83 Resp: 3590
Ion Ratio Lower Upper
83 100
85 75.4 45.7 84.9
131 18.4 8.2 12.4#





#61

1,2,3-Trichloropropane

Concen: 1.340 ug/L

RT: 11.178 min Scan# 3153

Delta R.T. 0.974 min

Lab File: VV038217.D

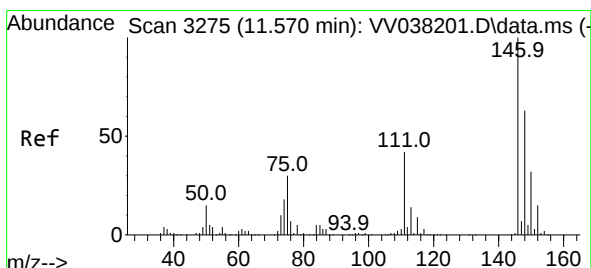
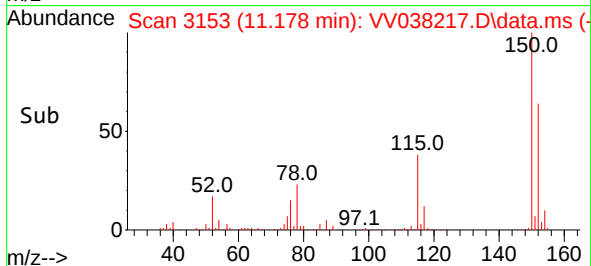
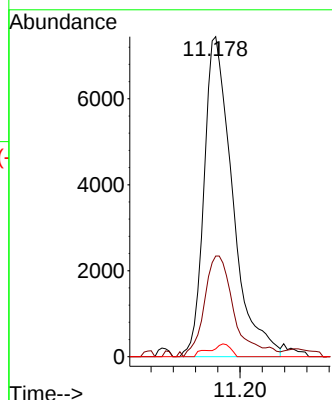
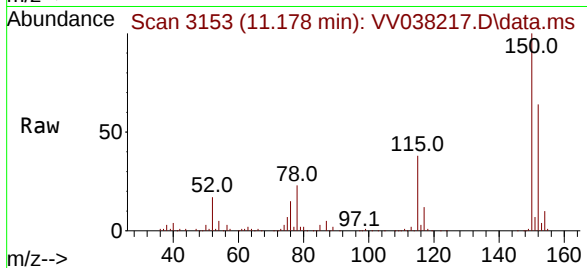
Acq: 20 Nov 2024 15:57

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 75	Resp: 13230
Ion Ratio	Lower Upper
75 100	
77 33.2	26.4 39.6
110 3.0	32.3 48.5#



#67

1,2-Dichlorobenzene

Concen: 0.552 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. 0.003 min

Lab File: VV038217.D

Acq: 20 Nov 2024 15:57

Tgt Ion: 146	Resp: 18214
Ion Ratio	Lower Upper
146 100	
111 46.4	34.2 51.2
148 58.3	51.0 76.4

