

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW112222\
 Data File : VW029268.D
 Acq On : 22 Nov 2022 17:25
 Operator : SY/MD
 Sample : VIBLK
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 23 01:20:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Nov 23 01:14:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	267855	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	237120	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	112934	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	137719	5.390	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	107.800%
7) Chloroethane-d5	1.564	69	108030	5.401	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	108.000%
11) 1,1-Dichloroethene-d2	2.104	63	175901	4.042	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.800%
20) 2-Butanone-d5	3.899	46	210170	55.725	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.460%
24) Chloroform-d	4.342	84	189678	5.235	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.600%
26) 1,2-Dichloroethane-d4	5.027	65	95562	5.576	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.600%
32) Benzene-d6	5.043	84	424755	5.494	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.800%
36) 1,2-Dichloropropane-d6	6.063	67	138046	5.651	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.000%
41) Toluene-d8	7.310	98	380788	5.467	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.400%
43) trans-1,3-Dichloroprop...	7.616	79	43656	5.368	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.400%
46) 2-Hexanone-d5	8.088	63	81263	56.203	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.400%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	66415	5.469	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.400%
66) 1,2-Dichlorobenzene-d4	11.615	152	120353	5.524	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	1149	0.037	ug/L	89
6) Bromomethane	1.519	94	921	0.056	ug/L	81
10) 1,1,2-Trichloro-1,2,2-...	2.104	101	1936	0.097	ug/L #	27
12) 1,1-Dichloroethene	2.111	96	2788	0.141	ug/L #	1
14) Carbon disulfide	2.291	76	5861	0.105	ug/L #	89
16) Methylene chloride	2.503	84	30806	0.990	ug/L	97
18) trans-1,2-Dichloroethene	2.760	96	996	0.050	ug/L	87
22) cis-1,2-Dichloroethene	3.918	96	762	0.035	ug/L	92
25) Chloroform	4.371	83	6353	0.165	ug/L	96
37) 1,2-Dichloropropane	6.063	63	14294	0.638	ug/L #	88
39) cis-1,3-Dichloropropene	6.979	75	3066	0.106	ug/L #	50
48) 2-Hexanone	8.136	43	37031	4.330	ug/L #	75
51) Chlorobenzene	8.876	112	2629	0.049	ug/L	89
52) Ethylbenzene	9.008	91	3470	0.036	ug/L	87
53) m,p-Xylene	9.133	106	1376	0.039	ug/L	84
55) Styrene	9.561	104	4277	0.072	ug/L	82
57) 1,1,2,2-Tetrachloroethane	10.223	83	1722	0.145	ug/L #	94
60) Isopropylbenzene	9.924	105	4060	0.045	ug/L #	88
61) 1,2,3-Trichloropropane	10.265	75	869	0.080	ug/L #	83

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

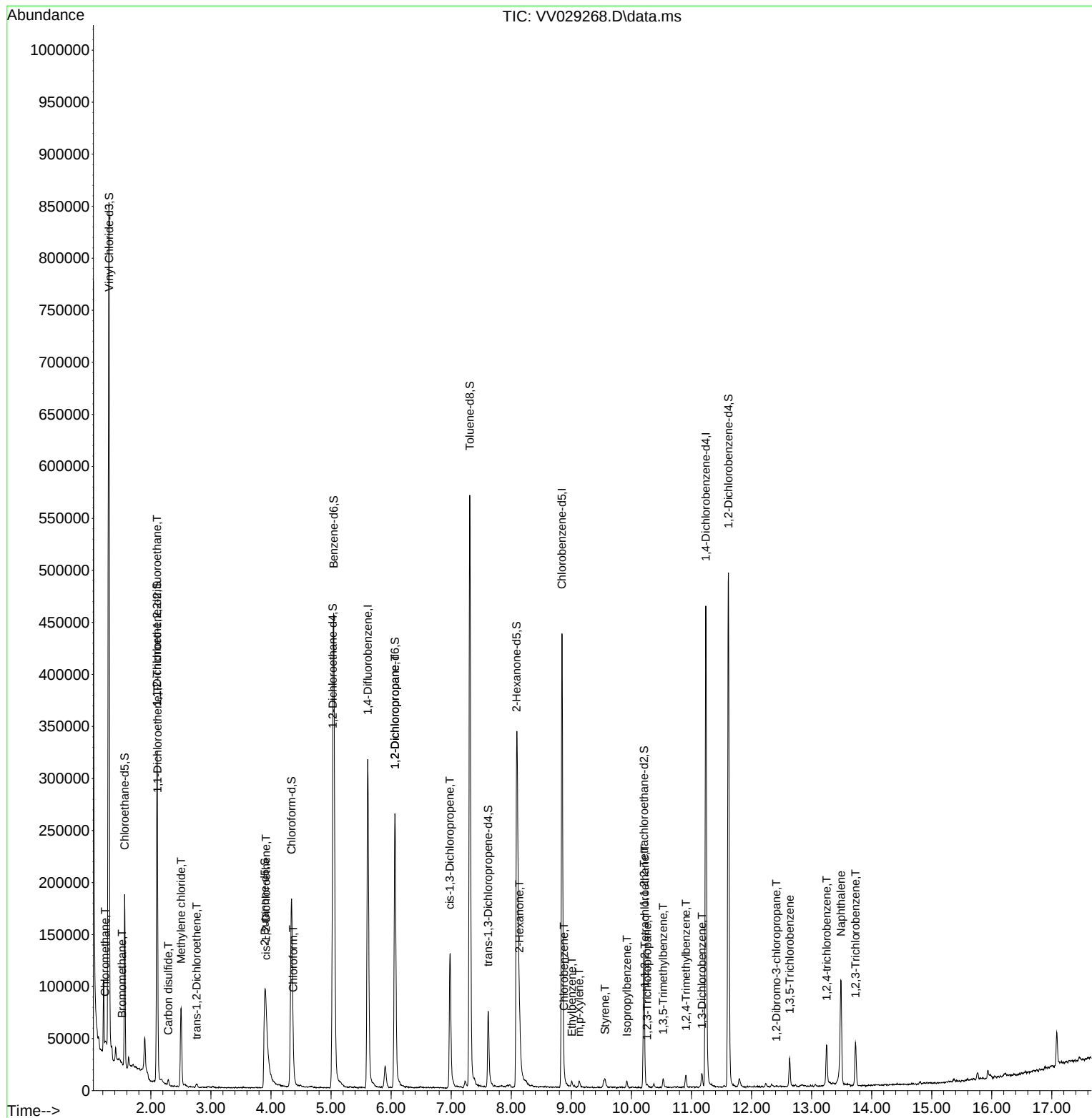
62) 1,3,5-Trimethylbenzene	10.529	105	4240	0.055	ug/L	97
63) 1,2,4-Trimethylbenzene	10.908	105	6632	0.086	ug/L	95
64) 1,3-Dichlorobenzene	11.175	146	5607	0.141	ug/L	87
68) 1,2-Dibromo-3-chloropr...	12.416	75	402	0.248	ug/L #	76
69) 1,3,5-Trichlorobenzene	12.635	180	7477	0.241	ug/L	97
70) 1,2,4-trichlorobenzene	13.252	180	12195	0.506	ug/L	97
71) Naphthalene	13.490	128	93097	11.338	ug/L	99
72) 1,2,3-Trichlorobenzene	13.731	180	12933	0.667	ug/L	94

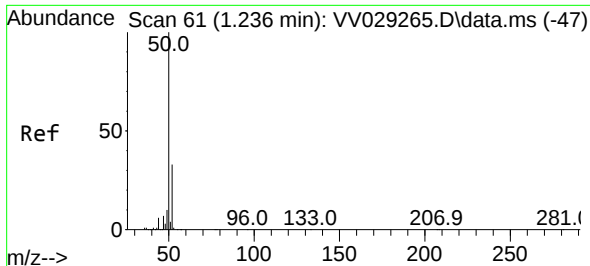
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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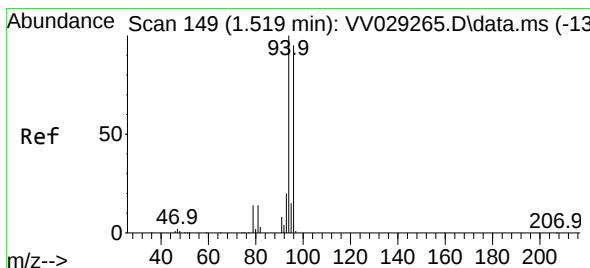
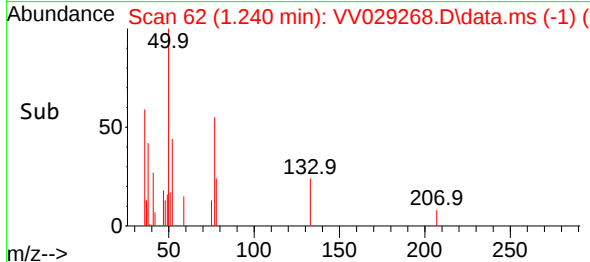
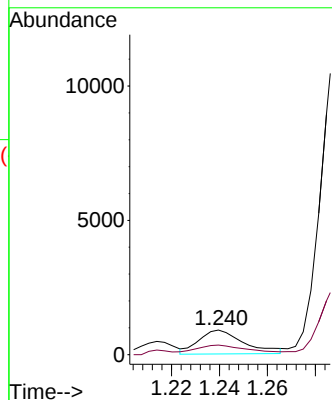
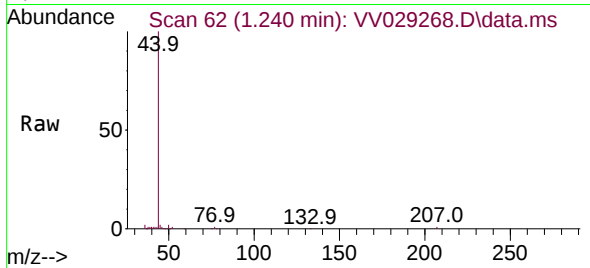




#3
Chloromethane
Concen: 0.037 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

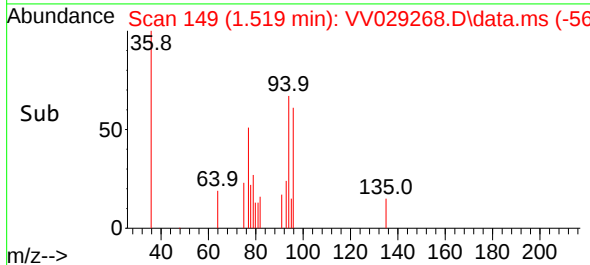
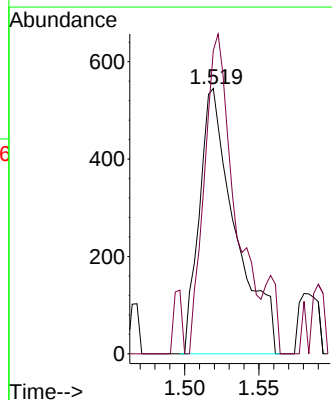
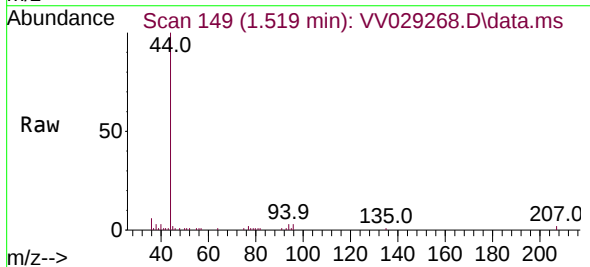
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MSVOA_V
ClientSampleId :

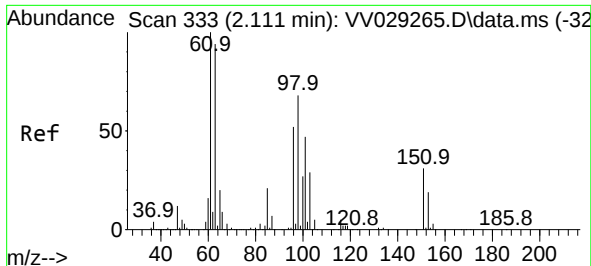
Tgt Ion: 50 Resp: 1149
Ion Ratio Lower Upper
50 100
52 38.9 22.8 42.4



#6
Bromomethane
Concen: 0.056 ug/L
RT: 1.519 min Scan# 149
Delta R.T. -0.000 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion: 94 Resp: 921
Ion Ratio Lower Upper
94 100
96 114.3 66.8 124.2

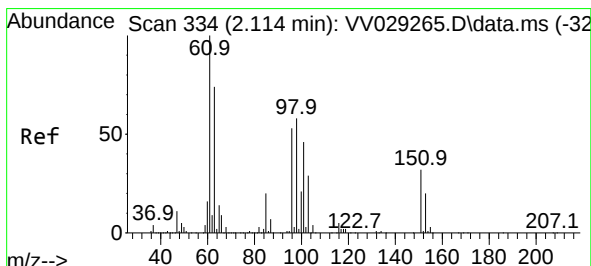
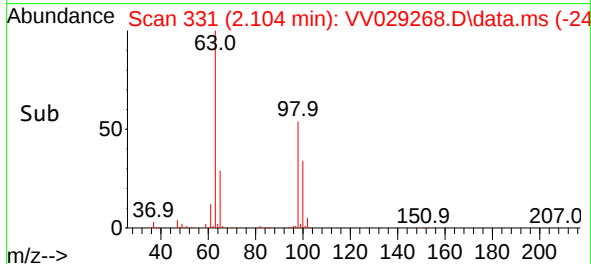
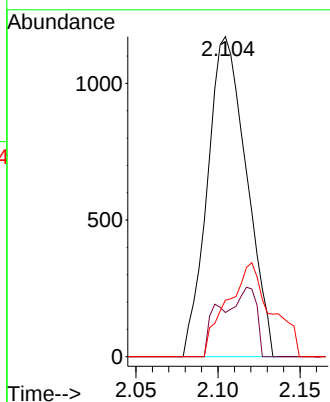
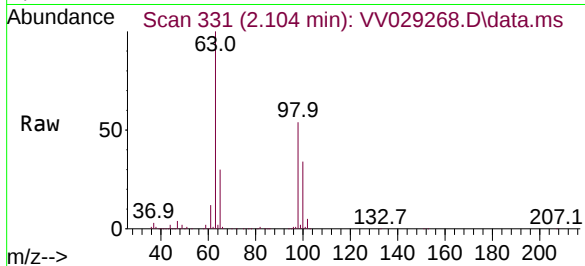




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.097 ug/L
 RT: 2.104 min Scan# 31
 Delta R.T. -0.007 min
 Lab File: VV029268.D
 Acq: 22 Nov 2022 17:25

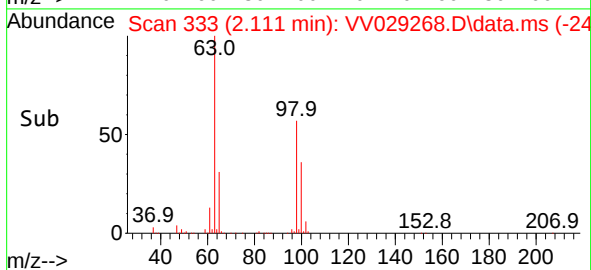
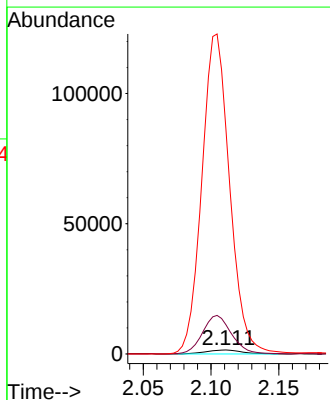
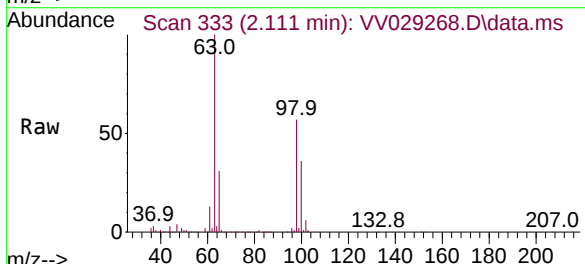
Instrument :
 MSVOA_V
 ClientSampleId :

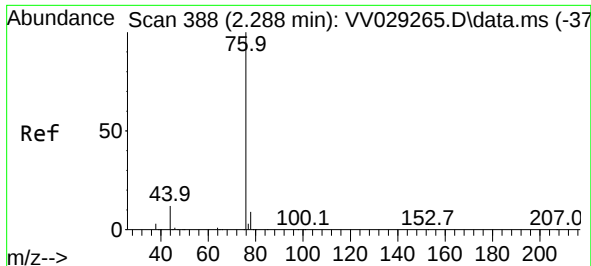
Tgt Ion:101 Resp: 1936
 Ion Ratio Lower Upper
 101 100
 85 6.8 34.7 52.1#
 151 0.0 53.4 80.2#



#12
 1,1-Dichloroethene
 Concen: 0.141 ug/L
 RT: 2.111 min Scan# 333
 Delta R.T. -0.003 min
 Lab File: VV029268.D
 Acq: 22 Nov 2022 17:25

Tgt Ion: 96 Resp: 2788
 Ion Ratio Lower Upper
 96 100
 61 741.3 131.9 245.0#
 63 5717.3 98.6 183.0#

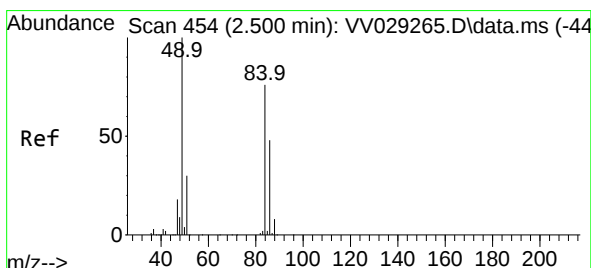
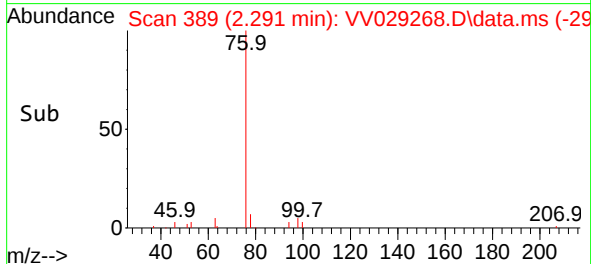
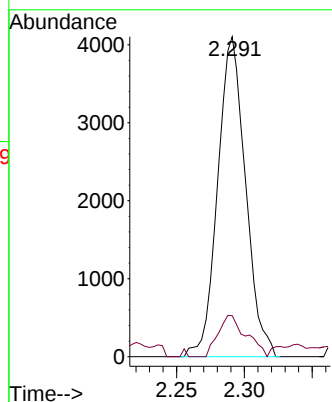
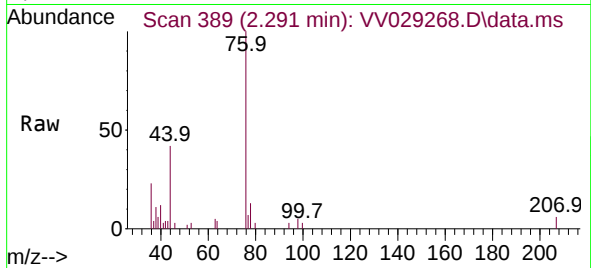




#14
Carbon disulfide
Concen: 0.105 ug/L
RT: 2.291 min Scan# 389
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

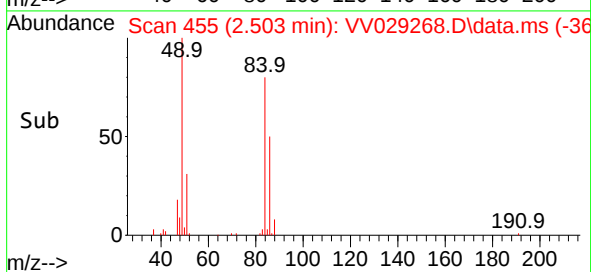
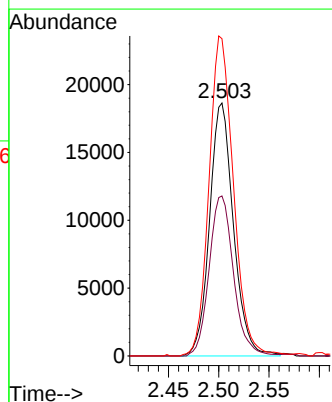
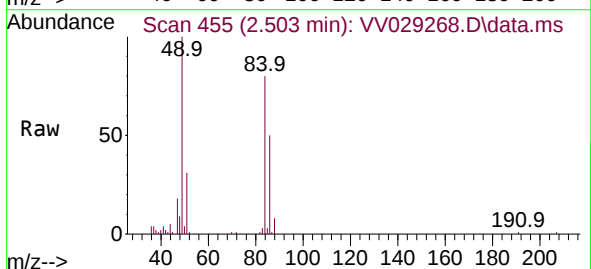
Instrument :
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ClientSampleId :

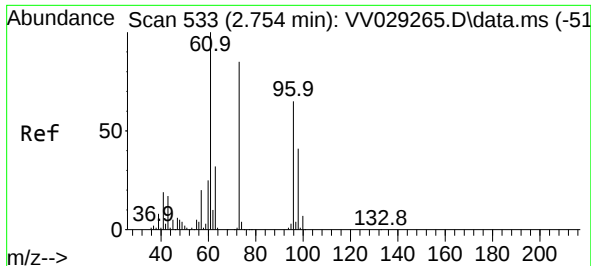
Tgt Ion: 76 Resp: 5861
Ion Ratio Lower Upper
76 100
78 12.8 7.2 10.8#



#16
Methylene chloride
Concen: 0.990 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion: 84 Resp: 30806
Ion Ratio Lower Upper
84 100
86 63.3 44.2 82.2
49 125.5 91.9 170.7

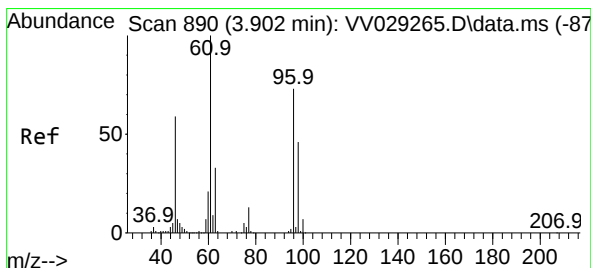
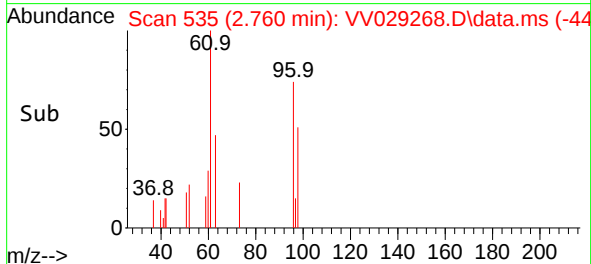
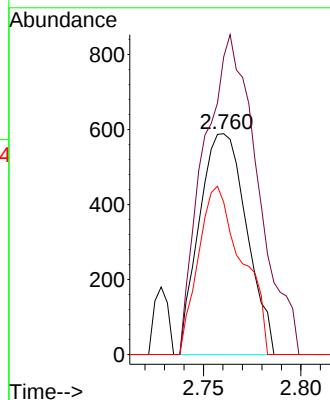
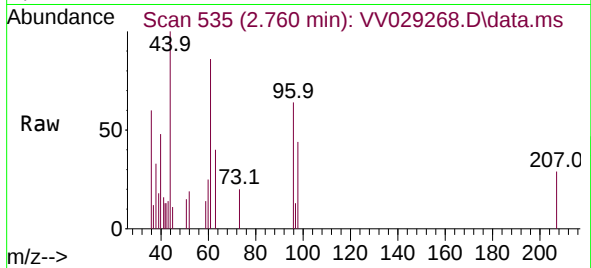




#18
trans-1,2-Dichloroethene
Concen: 0.050 ug/L
RT: 2.760 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

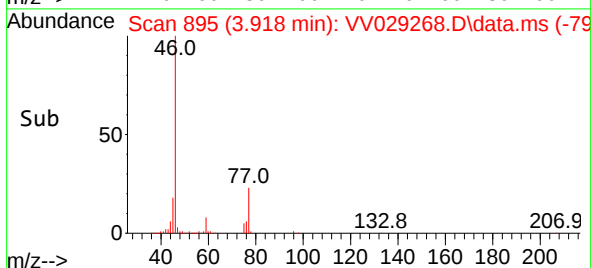
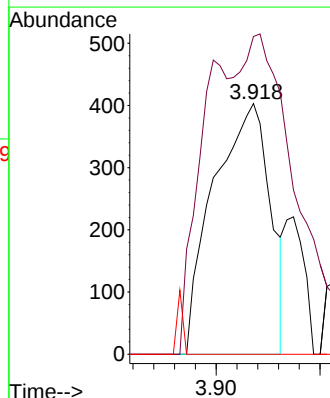
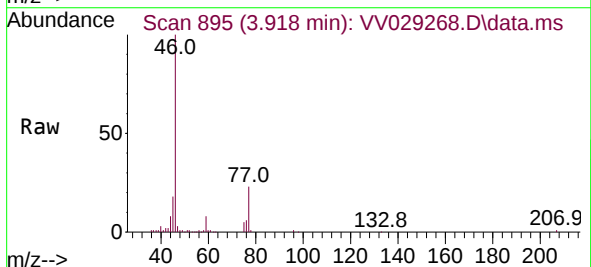
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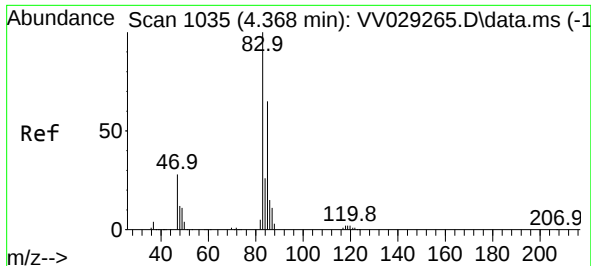
Tgt Ion: 96 Resp: 996
Ion Ratio Lower Upper
96 100
61 134.8 107.6 199.8
98 68.9 44.3 82.3



#22
cis-1,2-Dichloroethene
Concen: 0.035 ug/L
RT: 3.918 min Scan# 895
Delta R.T. 0.016 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion: 96 Resp: 762
Ion Ratio Lower Upper
96 100
61 126.8 95.8 178.0
68 0.0 0.0 0.0

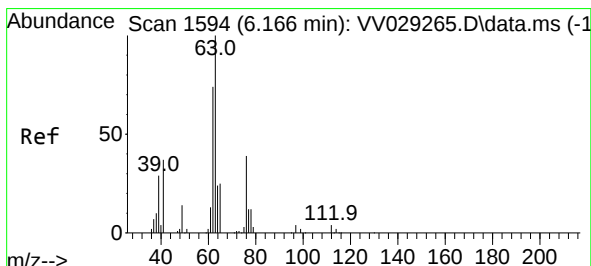
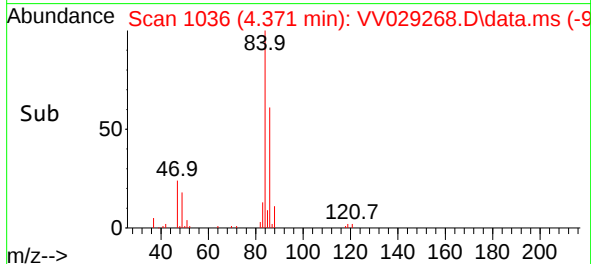
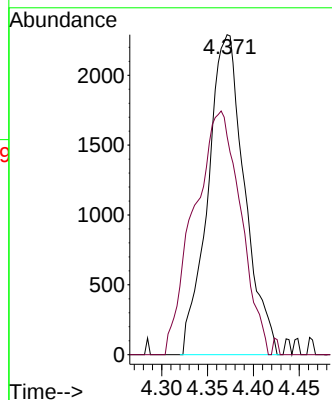
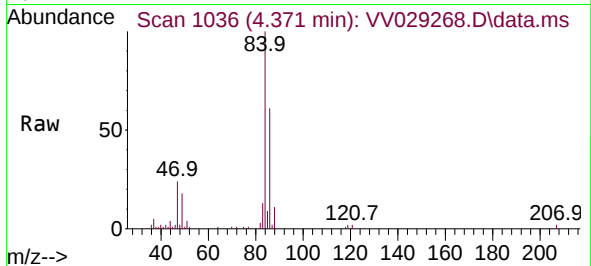




#25
Chloroform
Concen: 0.165 ug/L
RT: 4.371 min Scan# 1036
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

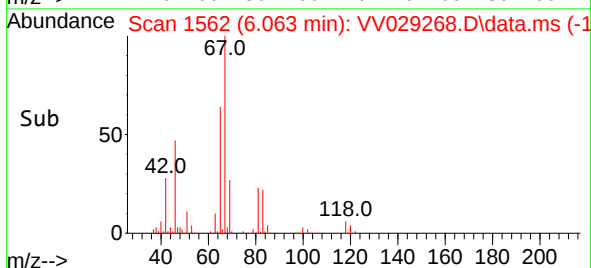
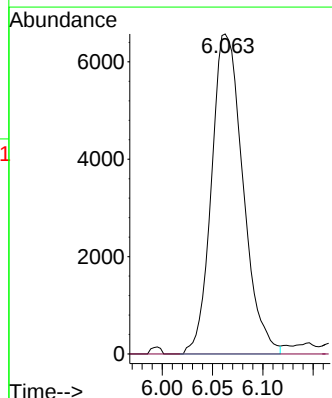
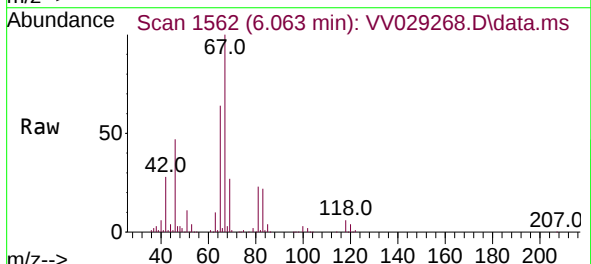
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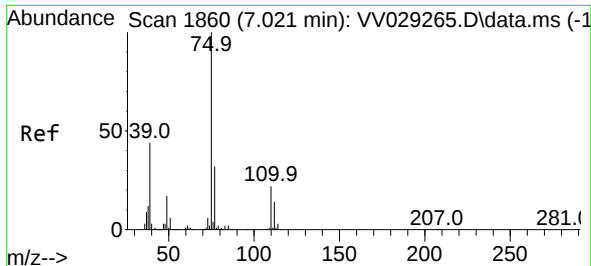
Tgt Ion: 83 Resp: 6353
Ion Ratio Lower Upper
83 100
85 68.3 45.6 84.6



#37
1,2-Dichloropropane
Concen: 0.638 ug/L
RT: 6.063 min Scan# 1562
Delta R.T. -0.103 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion: 63 Resp: 14294
Ion Ratio Lower Upper
63 100
112 0.0 3.2 4.8#





#39

cis-1,3-Dichloropropene

Concen: 0.106 ug/L

RT: 6.979 min Scan# 11

Delta R.T. -0.042 min

Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

Instrument :

MSVOA_V

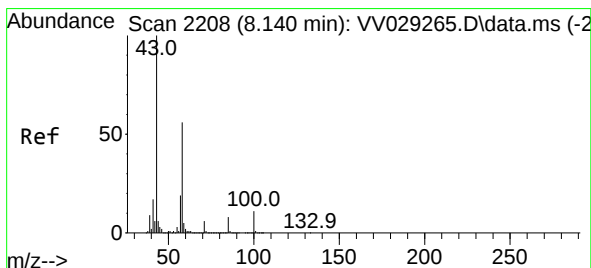
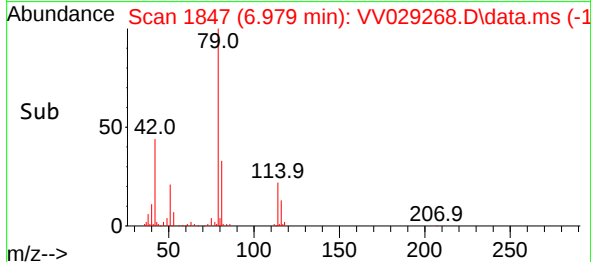
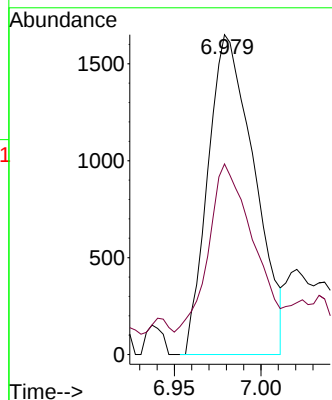
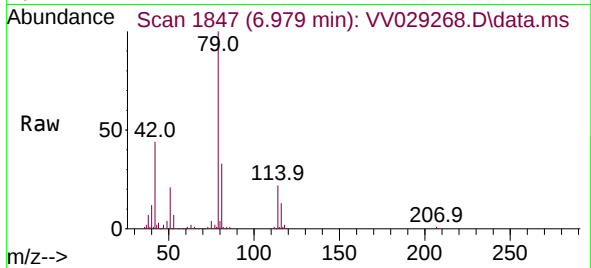
ClientSampleId :

Tgt Ion: 75 Resp: 3066

Ion Ratio Lower Upper

75 100

77 59.6 22.3 41.5#



#48

2-Hexanone

Concen: 4.330 ug/L

RT: 8.136 min Scan# 2207

Delta R.T. -0.003 min

Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

Tgt Ion: 43 Resp: 37031

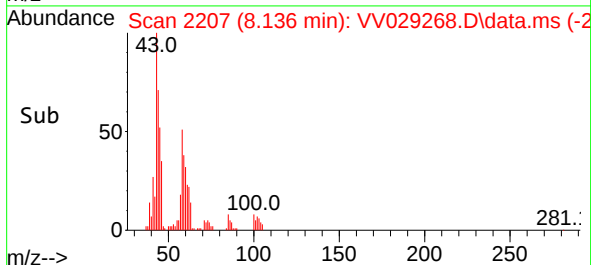
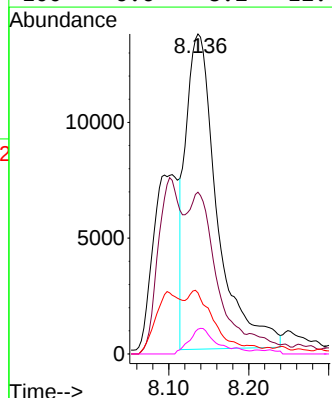
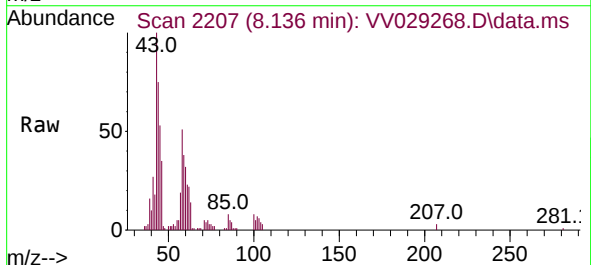
Ion Ratio Lower Upper

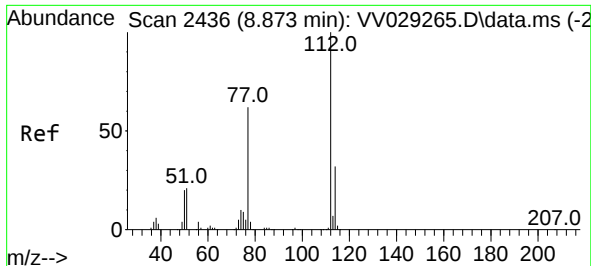
43 100

58 32.4 45.3 67.9#

57 14.0 15.4 23.2#

100 6.6 8.2 12.4#

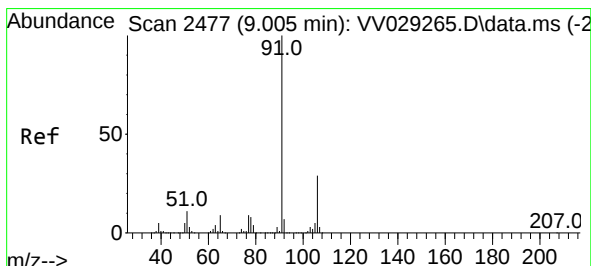
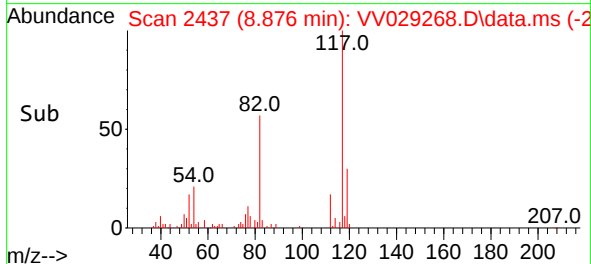
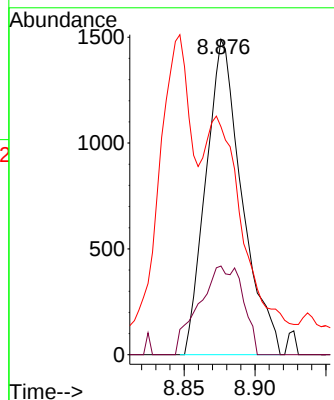
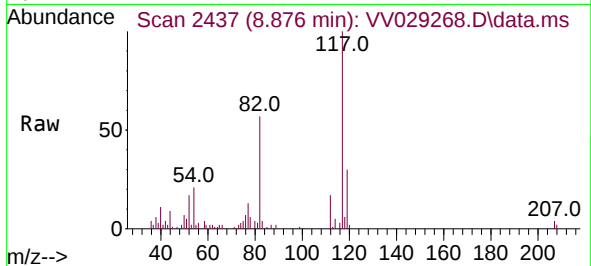




#51
Chlorobenzene
Concen: 0.049 ug/L
RT: 8.876 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

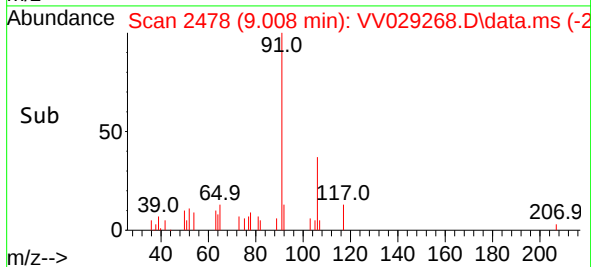
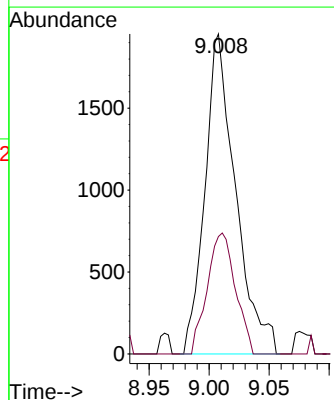
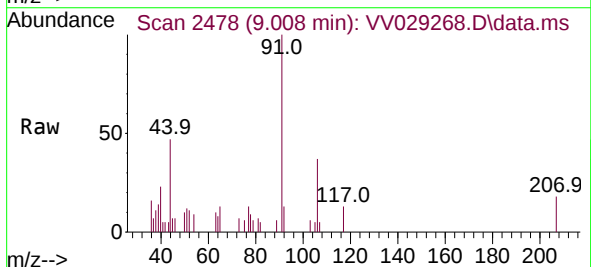
Instrument :
MSVOA_V
ClientSampleId :

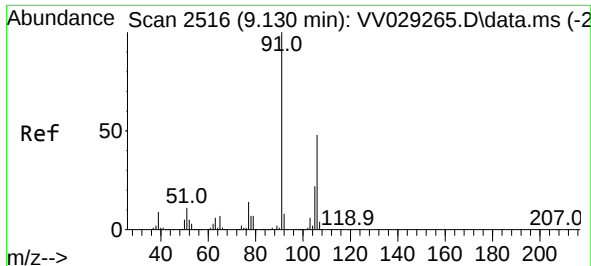
Tgt Ion:112 Resp: 2629
Ion Ratio Lower Upper
112 100
114 28.1 22.3 41.3
77 72.3 49.8 74.6



#52
Ethylbenzene
Concen: 0.036 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion: 91 Resp: 3470
Ion Ratio Lower Upper
91 100
106 36.7 20.6 38.4

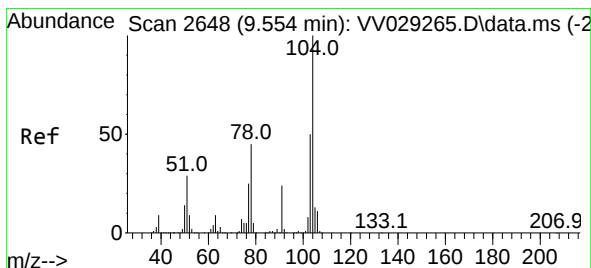
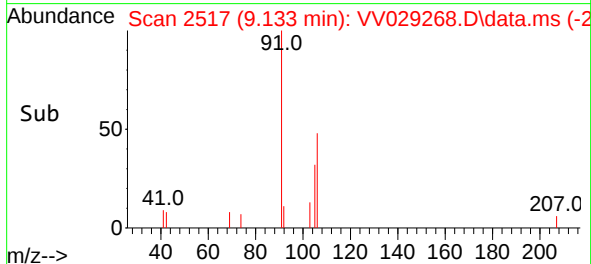
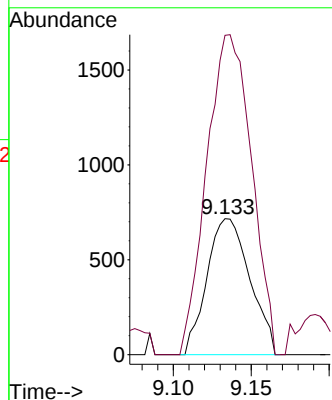
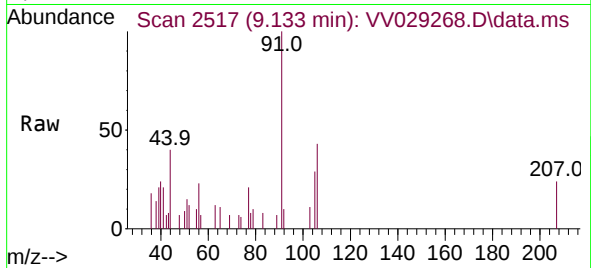




#53
m,p-Xylene
Concen: 0.039 ug/L
RT: 9.133 min Scan# 2516
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

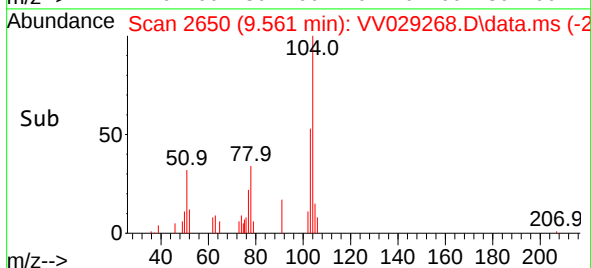
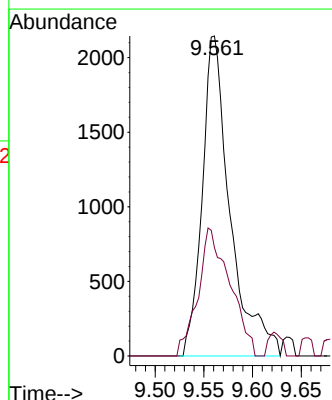
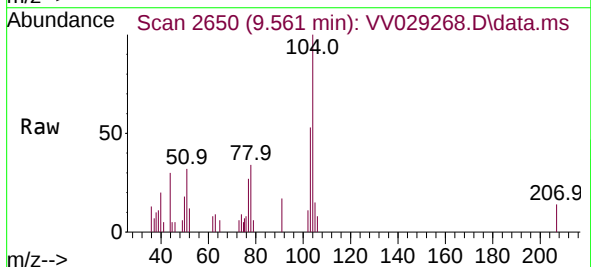
Instrument :
MSVOA_V
ClientSampleId :

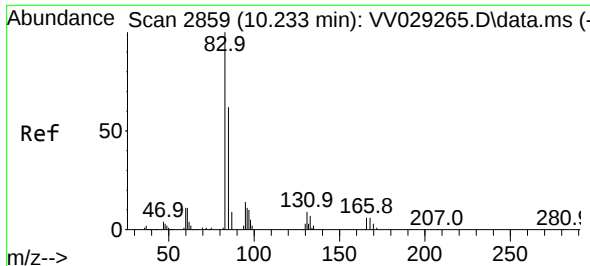
Tgt Ion:106 Resp: 1376
Ion Ratio Lower Upper
106 100
91 235.1 147.3 273.6



#55
Styrene
Concen: 0.072 ug/L
RT: 9.561 min Scan# 2650
Delta R.T. 0.006 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion:104 Resp: 4277
Ion Ratio Lower Upper
104 100
78 33.8 31.9 59.2





#57

1,1,2,2-Tetrachloroethane

Concen: 0.145 ug/L

RT: 10.223 min Scan# 2856

Delta R.T. -0.010 min

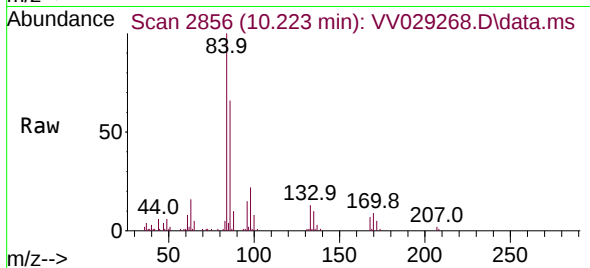
Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

Instrument :

MSVOA_V

ClientSampleId :



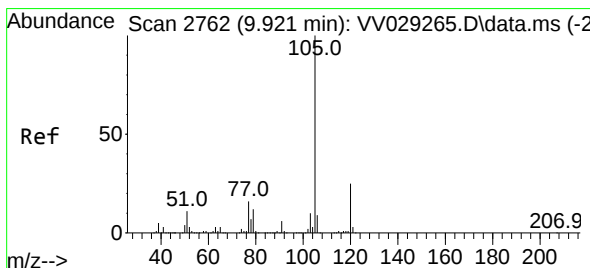
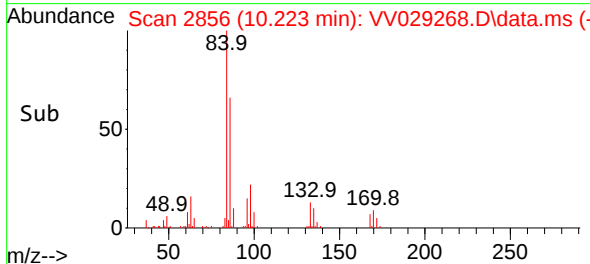
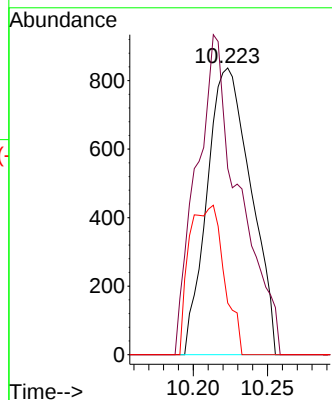
Tgt Ion: 83 Resp: 1722

Ion Ratio Lower Upper

83 100

85 65.0 43.9 81.5

131 18.0 6.9 10.3#



#60

Isopropylbenzene

Concen: 0.045 ug/L

RT: 9.924 min Scan# 2763

Delta R.T. 0.003 min

Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

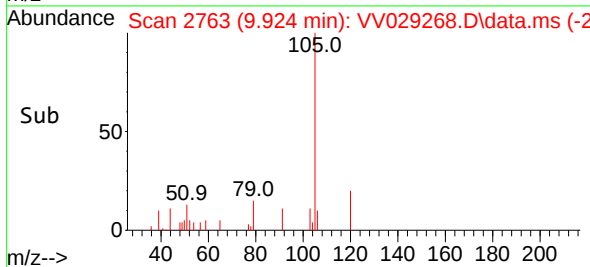
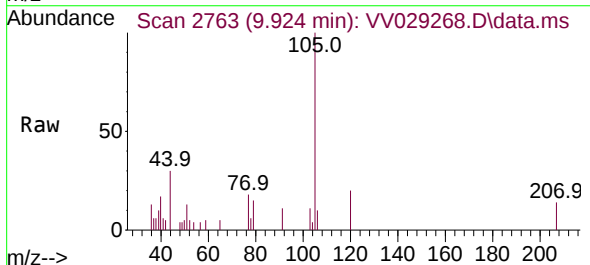
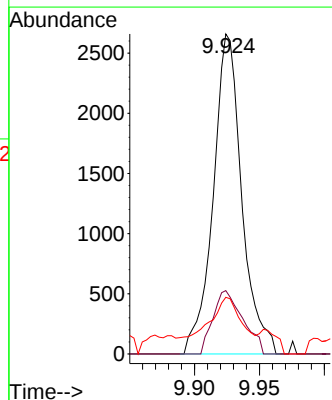
Tgt Ion: 105 Resp: 4060

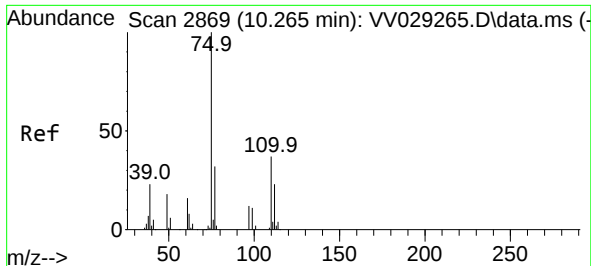
Ion Ratio Lower Upper

105 100

120 20.7 20.3 30.5

77 22.8 13.0 19.6#





#61

1,2,3-Trichloropropane

Concen: 0.080 ug/L

RT: 10.265 min Scan# 2869

Delta R.T. -0.000 min

Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

Instrument :

MSVOA_V

ClientSampleId :

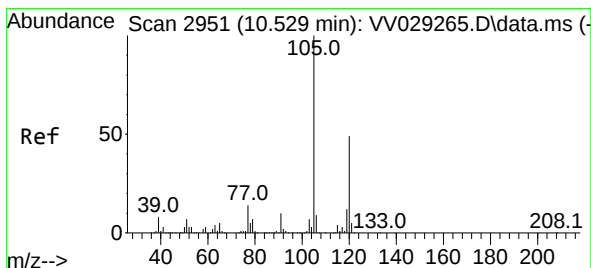
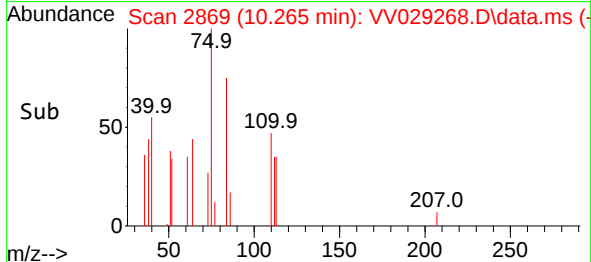
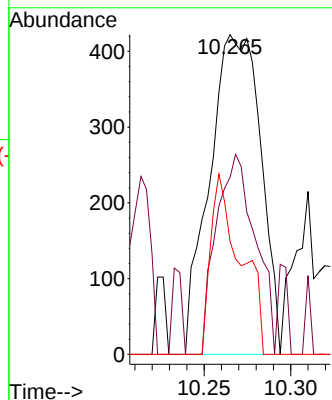
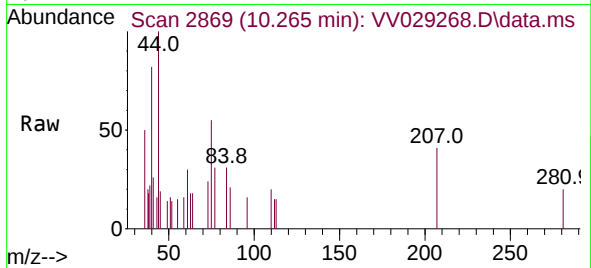
Tgt Ion: 75 Resp: 869

Ion Ratio Lower Upper

75 100

77 47.5 25.4 38.0#

110 32.7 29.6 44.4



#62

1,3,5-Trimethylbenzene

Concen: 0.055 ug/L

RT: 10.529 min Scan# 2951

Delta R.T. -0.000 min

Lab File: VV029268.D

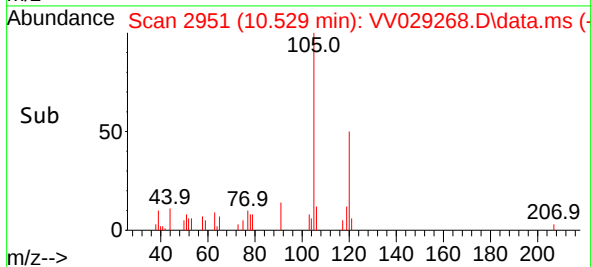
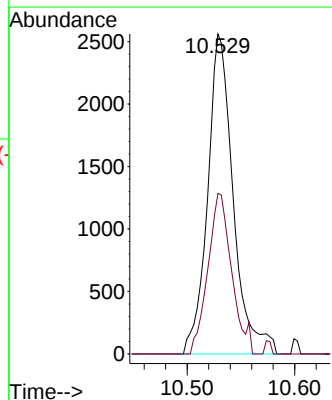
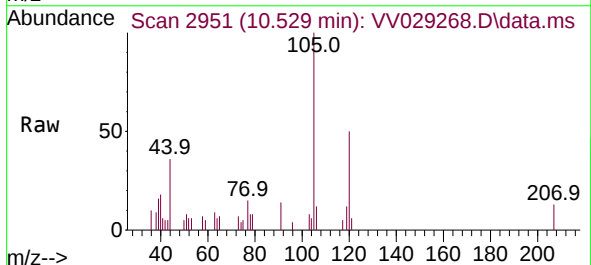
Acq: 22 Nov 2022 17:25

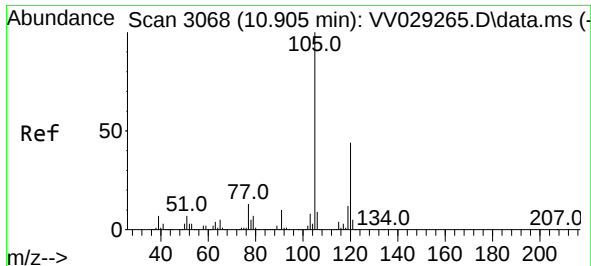
Tgt Ion: 105 Resp: 4240

Ion Ratio Lower Upper

105 100

120 46.5 39.0 58.4

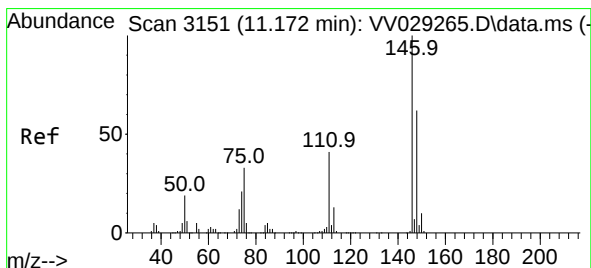
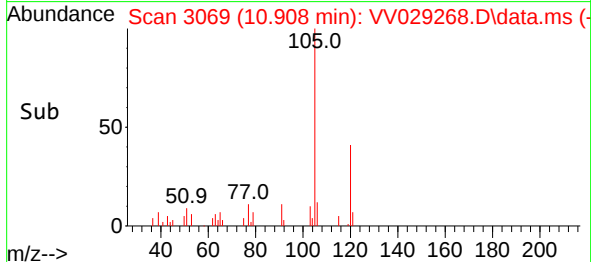
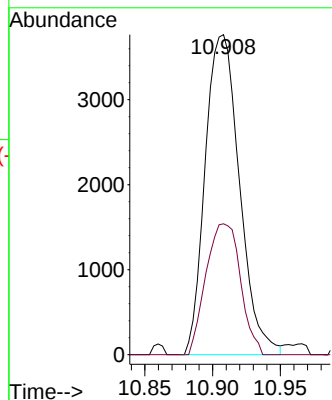
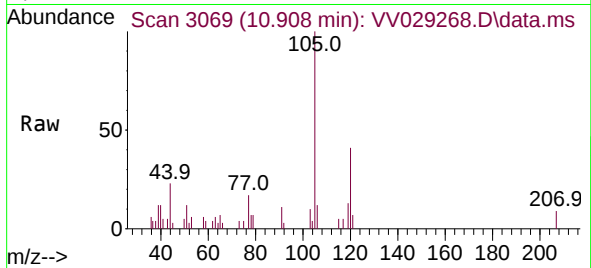




#63
1,2,4-Trimethylbenzene
Concen: 0.086 ug/L
RT: 10.908 min Scan# 3069
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

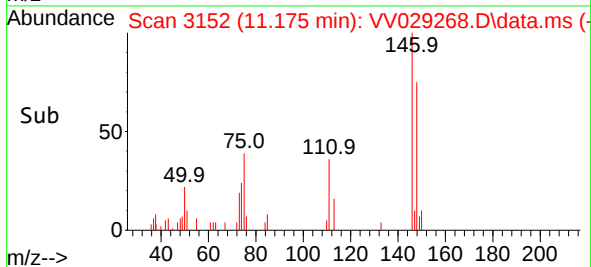
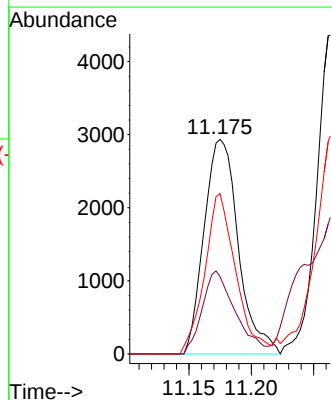
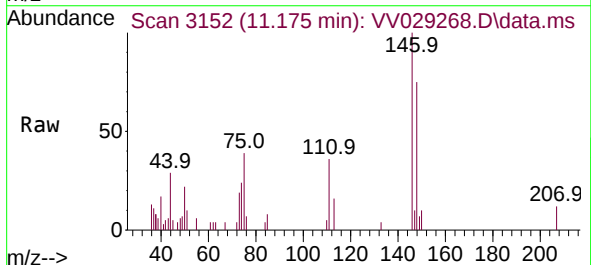
Instrument :
MSVOA_V
ClientSampleId :

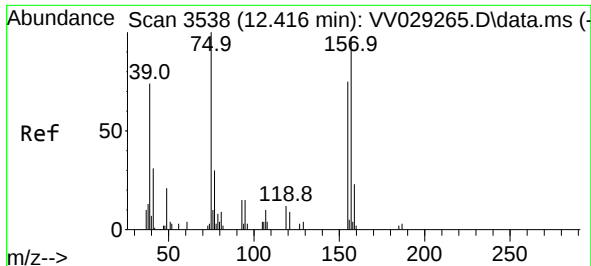
Tgt Ion:105 Resp: 6632
Ion Ratio Lower Upper
105 100
120 41.0 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 0.141 ug/L
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV029268.D
Acq: 22 Nov 2022 17:25

Tgt Ion:146 Resp: 5607
Ion Ratio Lower Upper
146 100
111 36.0 28.6 53.0
148 74.8 43.4 80.6

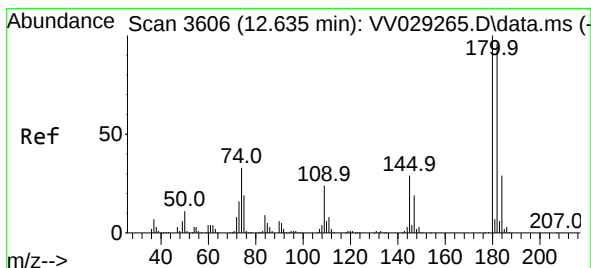
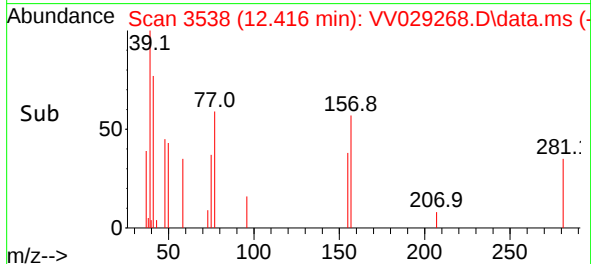
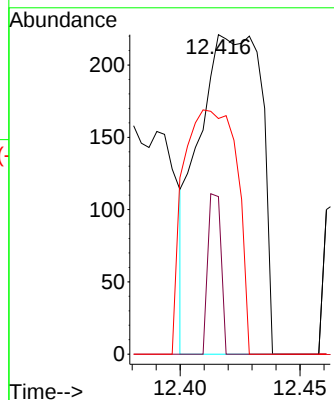
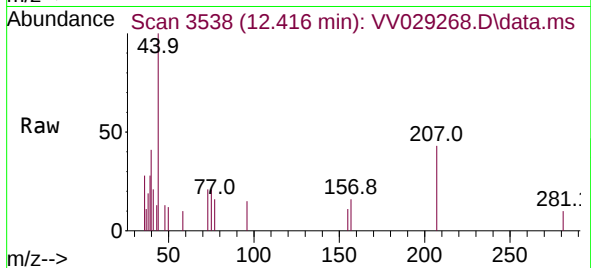




#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.248 ug/L
 RT: 12.416 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VV029268.D
 Acq: 22 Nov 2022 17:25

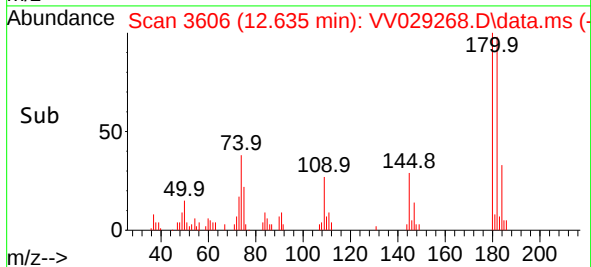
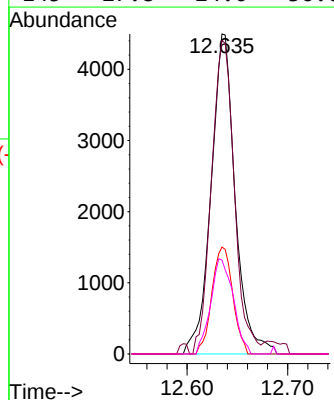
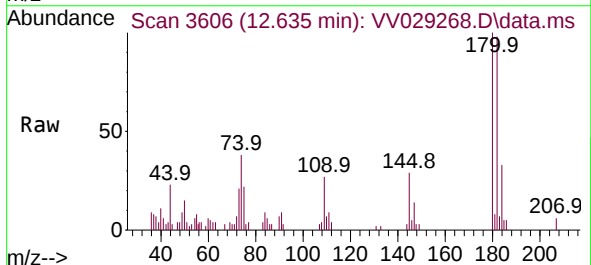
Instrument :
 MSVOA_V
 ClientSampleId :

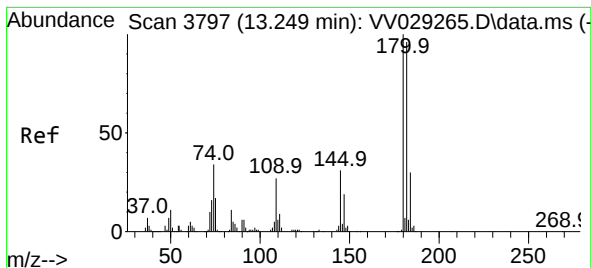
Tgt Ion: 75 Resp: 402
 Ion Ratio Lower Upper
 75 100
 155 49.3 58.4 87.6#
 157 73.8 75.5 113.3#



#69
 1,3,5-Trichlorobenzene
 Concen: 0.241 ug/L
 RT: 12.635 min Scan# 3606
 Delta R.T. -0.000 min
 Lab File: VV029268.D
 Acq: 22 Nov 2022 17:25

Tgt Ion: 180 Resp: 7477
 Ion Ratio Lower Upper
 180 100
 182 93.1 76.9 115.3
 184 28.9 23.9 35.9
 145 27.8 24.0 36.0





#70

1,2,4-trichlorobenzene

Concen: 0.506 ug/L

RT: 13.252 min Scan# 3798

Delta R.T. 0.003 min

Lab File: VV029268.D

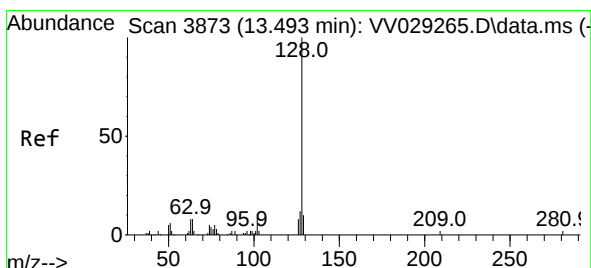
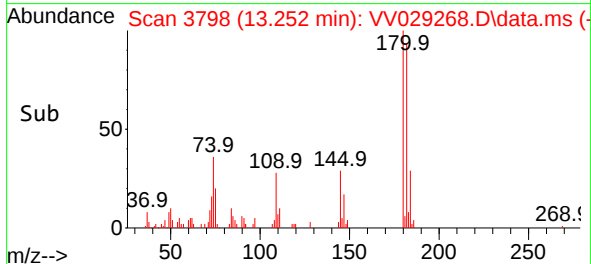
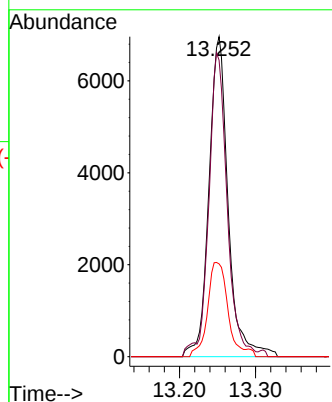
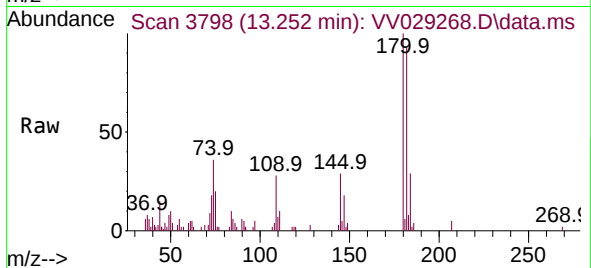
Acq: 22 Nov 2022 17:25

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	180	Resp:	12195
Ion Ratio	Lower	Upper	
180	100		
182	90.8	75.4	113.2
145	31.5	25.0	37.6



#71

Naphthalene

Concen: 11.338 ug/L

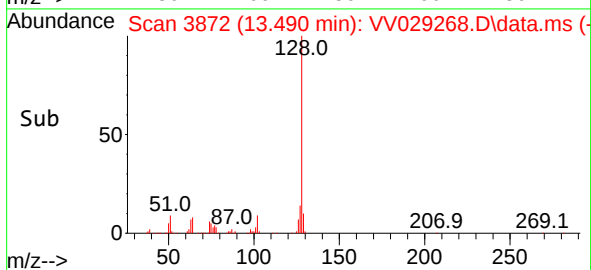
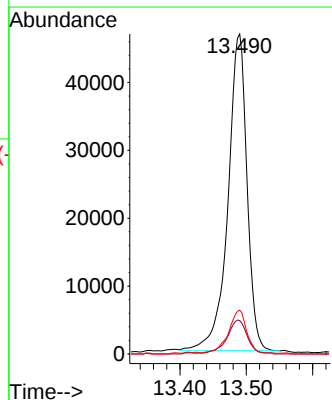
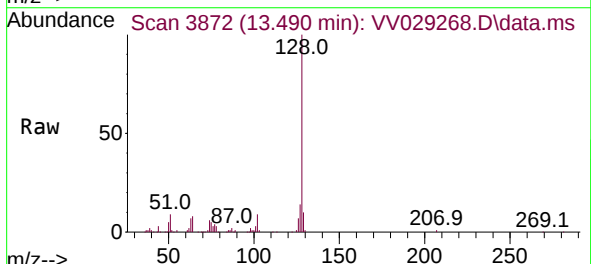
RT: 13.490 min Scan# 3872

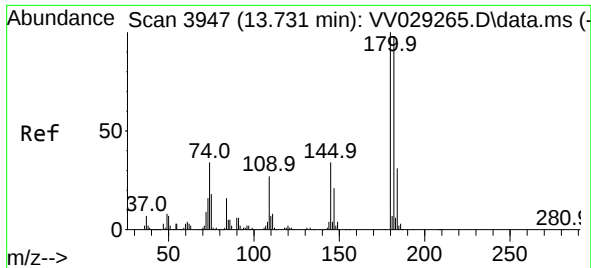
Delta R.T. -0.003 min

Lab File: VV029268.D

Acq: 22 Nov 2022 17:25

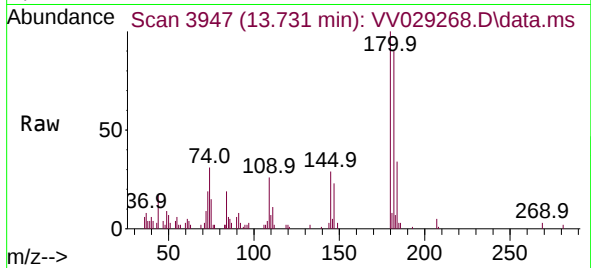
Tgt Ion:	128	Resp:	93097
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.4	12.6
127	13.0	10.0	15.0





#72
 1,2,3-Trichlorobenzene
 Concen: 0.667 ug/L
 RT: 13.731 min Scan# 3947
 Delta R.T. -0.000 min
 Lab File: VV029268.D
 Acq: 22 Nov 2022 17:25

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	180	Resp:	12933
Ion Ratio	Lower	Upper	
180	100		
182	88.7	76.2	114.2
145	29.6	26.3	39.5

