

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW112322\
 Data File : VW029319.D
 Acq On : 24 Nov 2022 01:33
 Operator : SY/MD
 Sample : N5725-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 24 03:42:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112322WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 24 01:40:30 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	281047	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	247090	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	132093	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	85206	4.926	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.600%
7) Chloroethane-d5	1.564	69	62639	4.947	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	99.000%
11) 1,1-Dichloroethene-d2	2.104	63	106295	3.841	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.800%
20) 2-Butanone-d5	3.879	46	132162	45.678	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	91.360%
24) Chloroform-d	4.339	84	146565	4.748	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.000%
26) 1,2-Dichloroethane-d4	5.024	65	69255	5.099	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.000%
32) Benzene-d6	5.043	84	328527	4.811	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.200%
36) 1,2-Dichloropropane-d6	6.063	67	93355	4.865	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.200%
41) Toluene-d8	7.307	98	304346	4.722	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.400%
43) trans-1,3-Dichloroprop...	7.616	79	33941	4.588	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.800%
46) 2-Hexanone-d5	8.082	63	110137	41.764	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.520%
56) 1,1,2,2-Tetrachloroeth...	10.207	84	57148	4.826	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.600%
66) 1,2-Dichlorobenzene-d4	11.612	152	116081	5.030	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.217	85	13082	0.624	ug/L	97
3) Chloromethane	1.240	50	1338	0.070	ug/L #	79
5) Vinyl chloride	1.310	62	295577	15.439	ug/L	97
8) Chloroethane	1.310	64	93855	8.248	ug/L #	44
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	1491	0.100	ug/L #	46
12) 1,1-Dichloroethene	2.117	96	15779	1.092	ug/L #	9
14) Carbon disulfide	2.291	76	2766	0.066	ug/L	97
17) Methyl tert-butyl Ether	2.767	73	1267	0.034	ug/L #	89
18) trans-1,2-Dichloroethene	2.760	96	1516	0.091	ug/L	95
19) 1,1-Dichloroethane	3.182	63	258874	8.672	ug/L	97
22) cis-1,2-Dichloroethene	3.902	96	417556	22.010	ug/L	97
25) Chloroform	4.368	83	3345	0.107	ug/L	91
27) 1,2-Dichloroethane	5.133	62	6677	0.395	ug/L #	88
29) 1,1,1-Trichloroethane	4.603	97	44544	1.567	ug/L	98
31) Carbon tetrachloride	4.600	117	5954	0.248	ug/L	96
33) Benzene	5.095	78	70755	0.957	ug/L	100
34) Trichloroethene	5.908	95	27122	1.439	ug/L	97
37) 1,2-Dichloropropane	6.059	63	9958	0.572	ug/L #	85
39) cis-1,3-Dichloropropene	6.979	75	2511	0.099	ug/L #	55

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

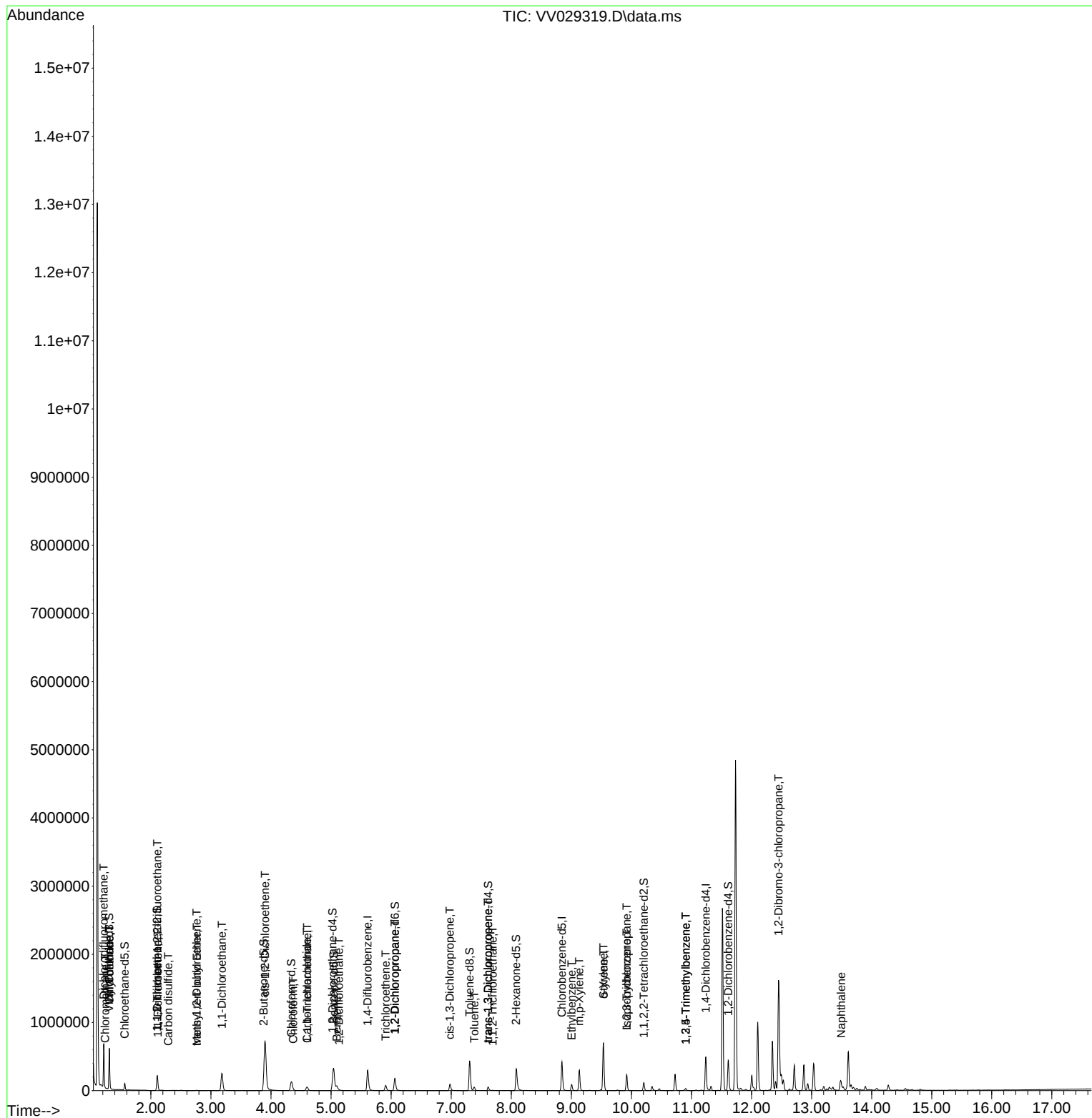
42) Toluene	7.384	91	39269	0.495	ug/L	95
44) trans-1,3-Dichloropropene	7.612	75	1525	0.076	ug/L #	59
45) 1,1,2-Trichloroethane	7.693	97	3232	0.274	ug/L #	19
52) Ethylbenzene	9.005	91	65244	0.789	ug/L	99
53) m,p-Xylene	9.133	106	85675	2.627	ug/L	97
54) o-Xylene	9.535	106	194504	6.071	ug/L	100
55) Styrene	9.535	104	10139	0.187	ug/L #	1
60) Isopropylbenzene	9.921	105	156008	1.827	ug/L	100
61) 1,2,3-Trichloropropane	9.921	75	1814	0.198	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.905	105	15969	0.216	ug/L	96
63) 1,2,4-Trimethylbenzene	10.905	105	15969	0.215	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.451	75	31283	17.387	ug/L #	1
71) Naphthalene	13.493	128	57786	2.510	ug/L	99

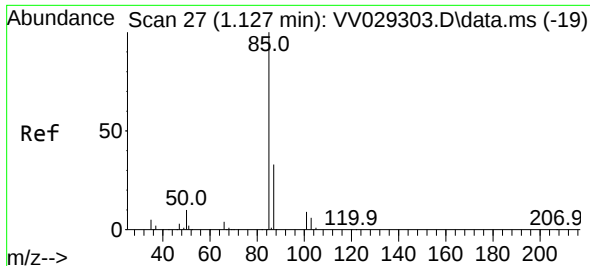
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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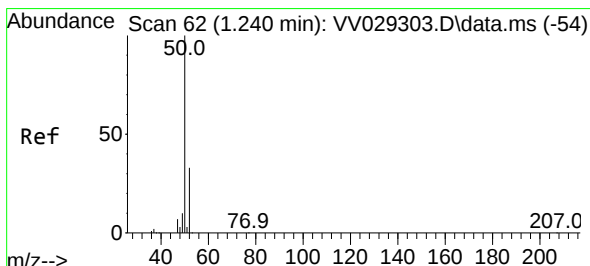
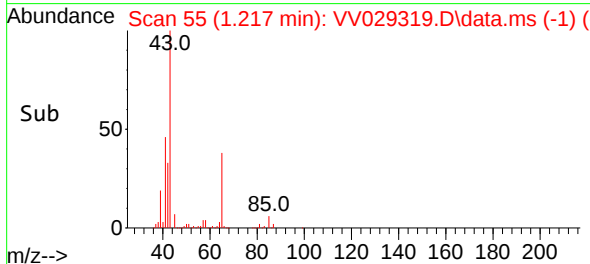
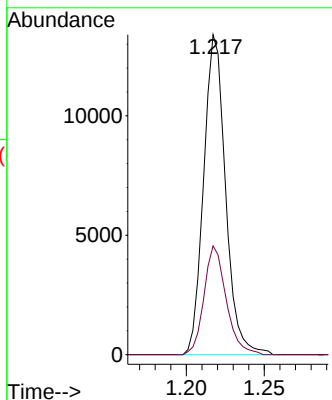
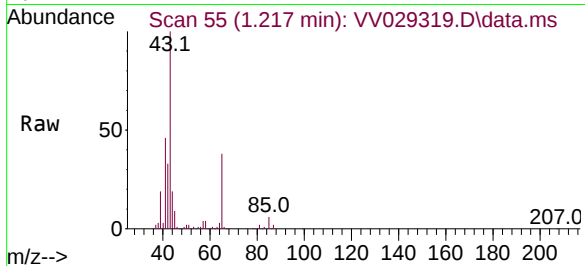




#2
Dichlorodifluoromethane
Concen: 0.624 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.090 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

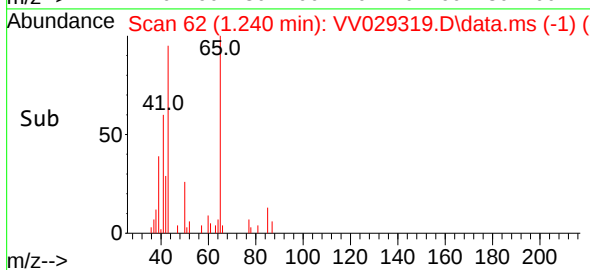
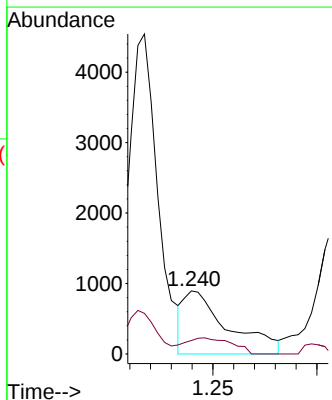
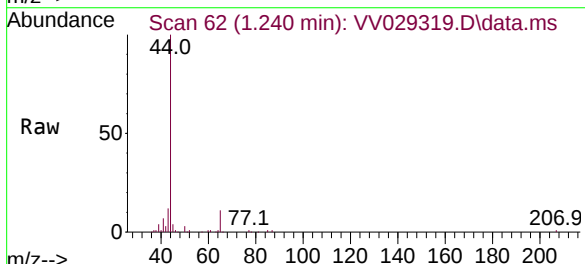
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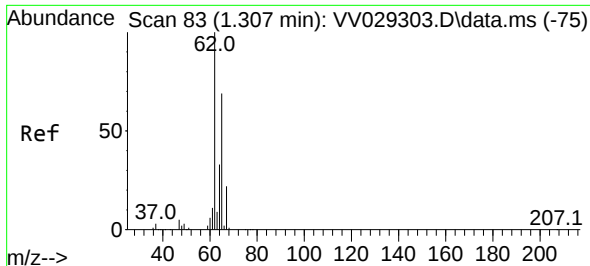
Tgt Ion: 85 Resp: 13082
Ion Ratio Lower Upper
85 100
87 34.4 26.2 39.4



#3
Chloromethane
Concen: 0.070 ug/L
RT: 1.240 min Scan# 62
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Tgt Ion: 50 Resp: 1338
Ion Ratio Lower Upper
50 100
52 21.3 23.2 43.2#

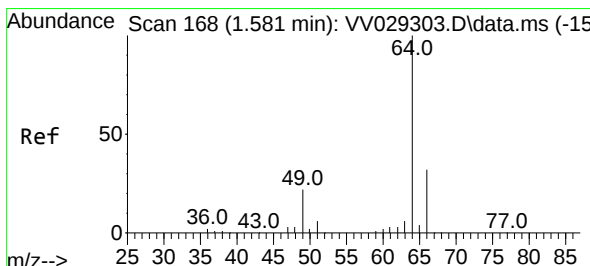
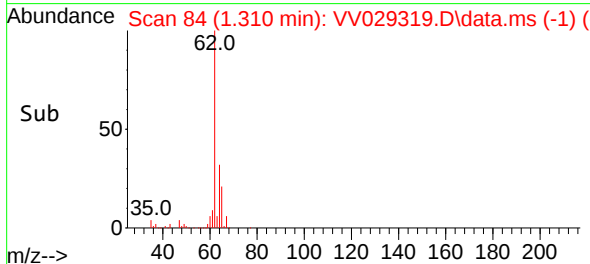
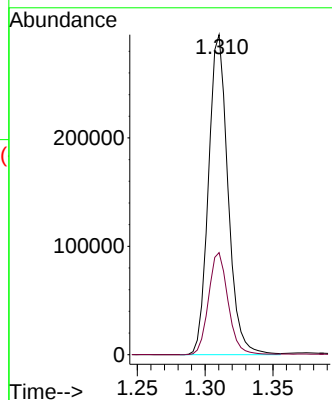
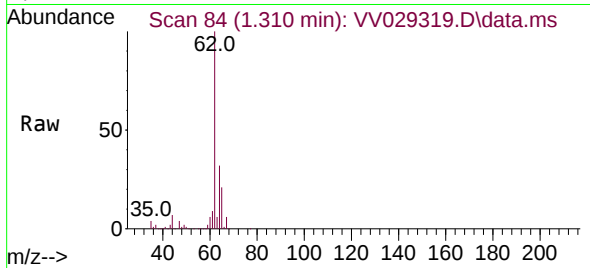




#5
 Vinyl chloride
 Concen: 15.439 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV029319.D
 Acq: 24 Nov 2022 01:33

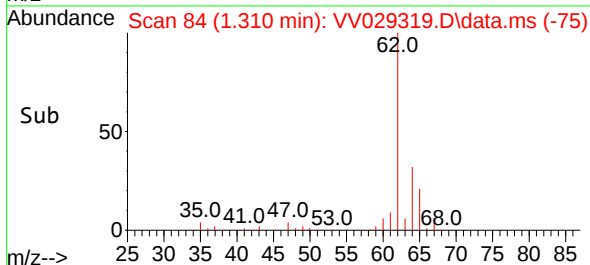
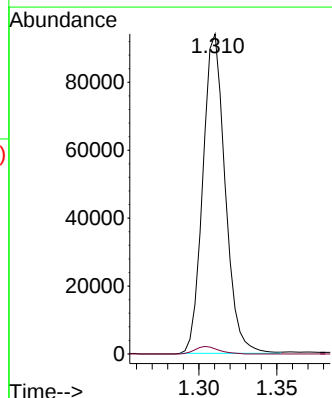
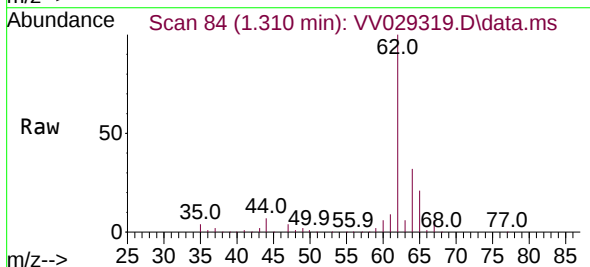
Instrument :
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 ClientSampleId :

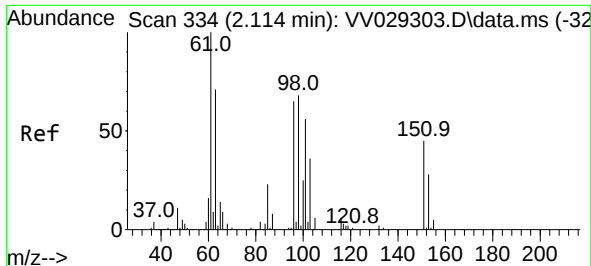
Tgt Ion: 62 Resp: 295577
 Ion Ratio Lower Upper
 62 100
 64 31.9 23.4 43.4



#8
 Chloroethane
 Concen: 8.248 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.270 min
 Lab File: VV029319.D
 Acq: 24 Nov 2022 01:33

Tgt Ion: 64 Resp: 93855
 Ion Ratio Lower Upper
 64 100
 66 1.6 23.5 43.7#

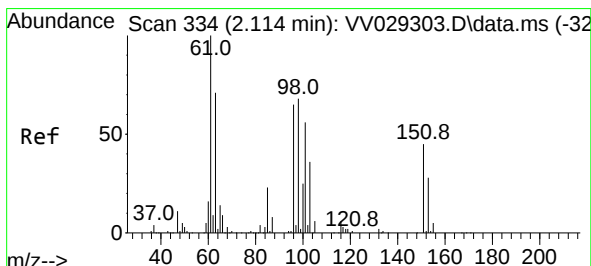
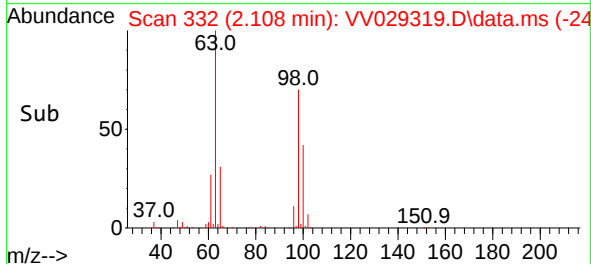
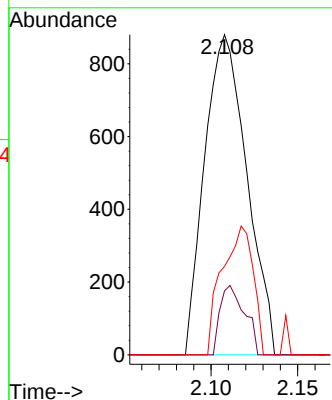
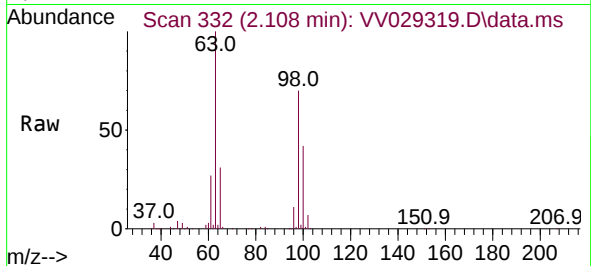




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.100 ug/L
RT: 2.108 min Scan# 31
Delta R.T. -0.007 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

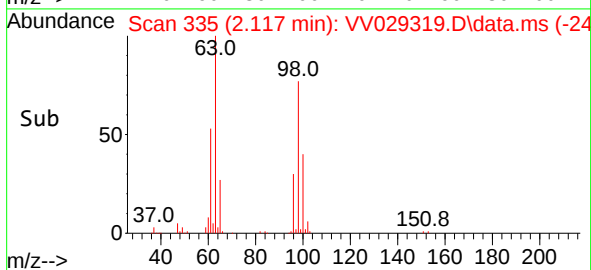
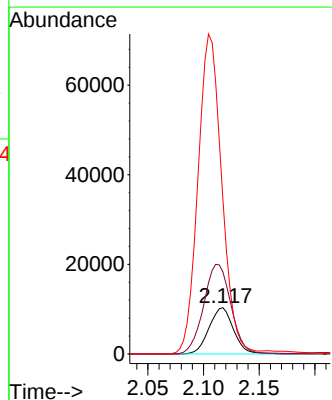
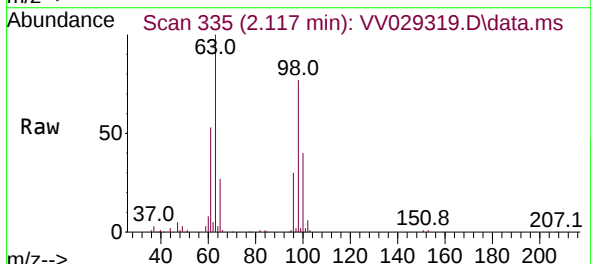
Instrument :
MSVOA_V
ClientSampleId :

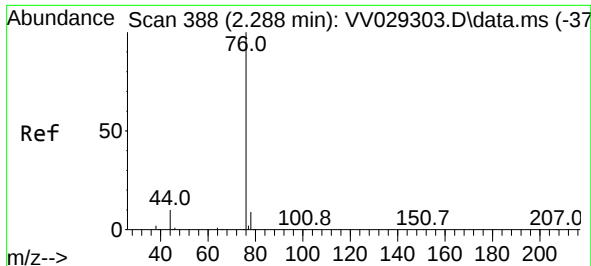
Tgt Ion:101 Resp: 1491
Ion Ratio Lower Upper
101 100
85 12.6 33.6 50.4#
151 29.6 65.3 97.9#



#12
1,1-Dichloroethene
Concen: 1.092 ug/L
RT: 2.117 min Scan# 335
Delta R.T. 0.003 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

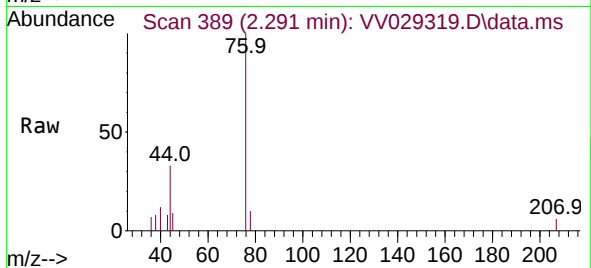
Tgt Ion: 96 Resp: 15779
Ion Ratio Lower Upper
96 100
61 176.9 110.3 204.9
63 334.0 84.4 156.8#



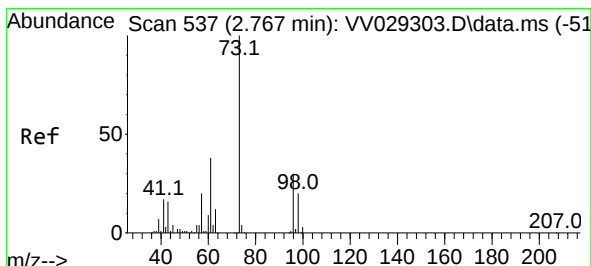
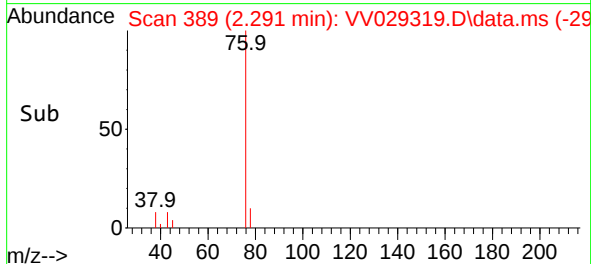
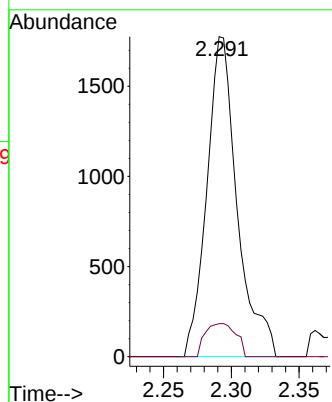


#14
Carbon disulfide
Concen: 0.066 ug/L
RT: 2.291 min Scan# 389
Delta R.T. 0.003 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Instrument :
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ClientSampleId :

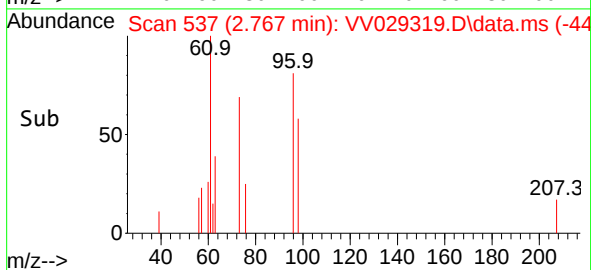
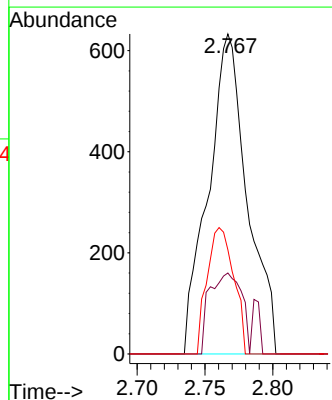
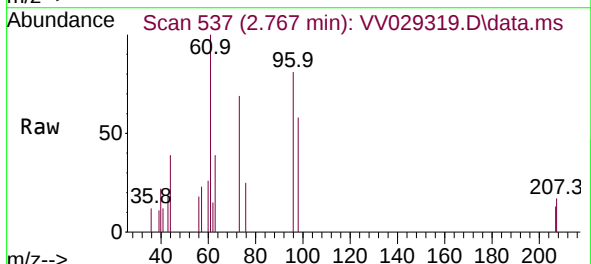


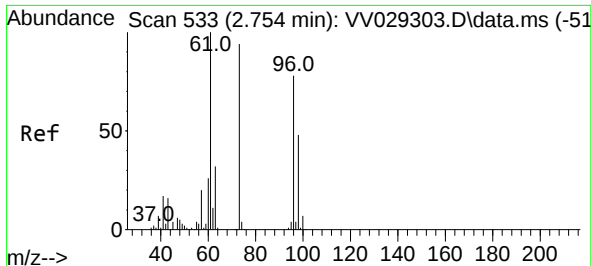
Tgt Ion: 76 Resp: 2766
Ion Ratio Lower Upper
76 100
78 10.3 7.4 11.2



#17
Methyl tert-butyl Ether
Concen: 0.034 ug/L
RT: 2.767 min Scan# 537
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

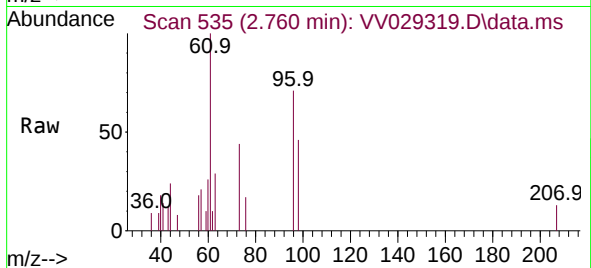
Tgt Ion: 73 Resp: 1267
Ion Ratio Lower Upper
73 100
43 20.7 13.2 19.8#
57 26.9 16.9 25.3#



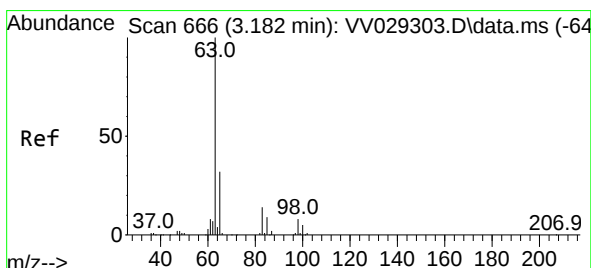
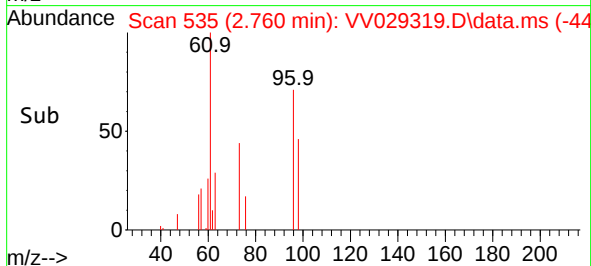
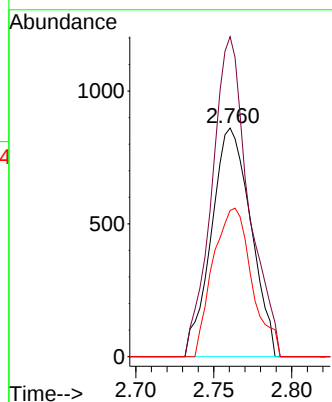


#18
trans-1,2-Dichloroethene
Concen: 0.091 ug/L
RT: 2.760 min Scan# 51
Delta R.T. 0.006 min
Lab File: VV029319.D
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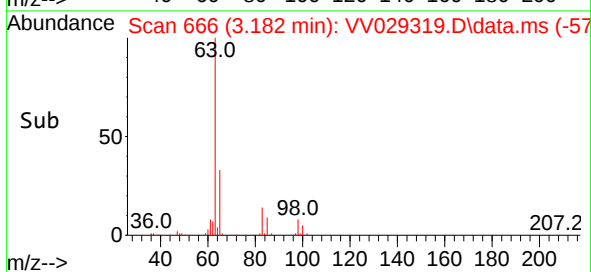
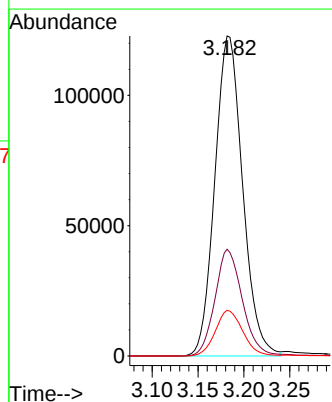
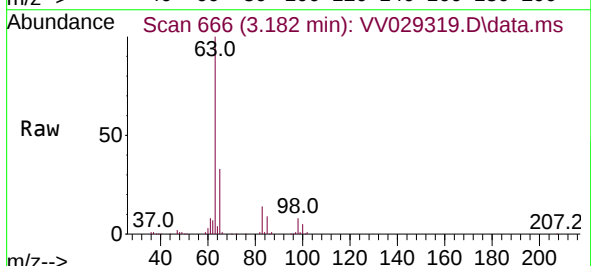


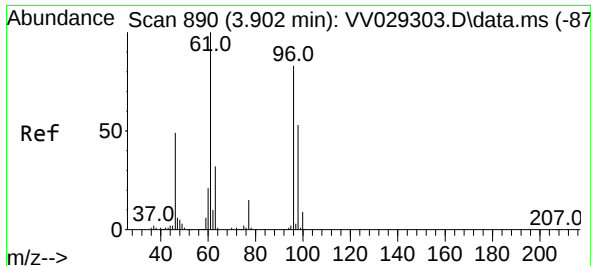
Tgt Ion: 96 Resp: 1516
Ion Ratio Lower Upper
96 100
61 140.0 93.0 172.6
98 64.0 44.0 81.8



#19
1,1-Dichloroethane
Concen: 8.672 ug/L
RT: 3.182 min Scan# 666
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

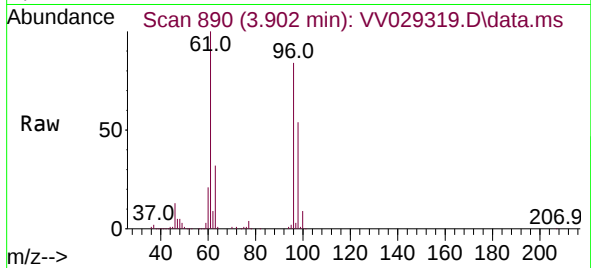
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Ion Ratio Lower Upper
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65 33.3 21.6 40.2
83 14.2 10.3 19.1





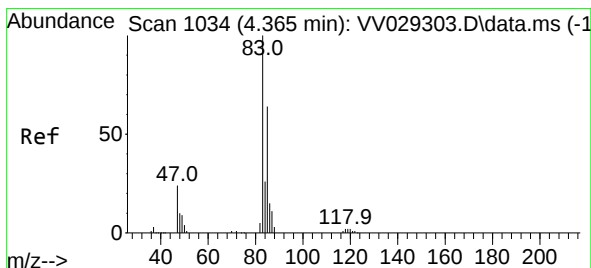
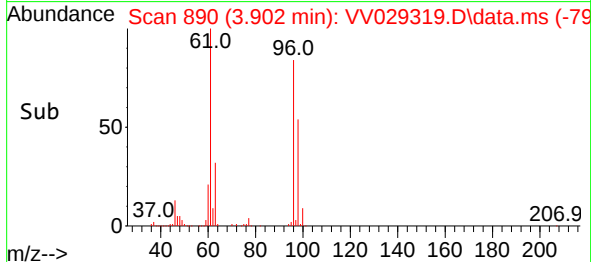
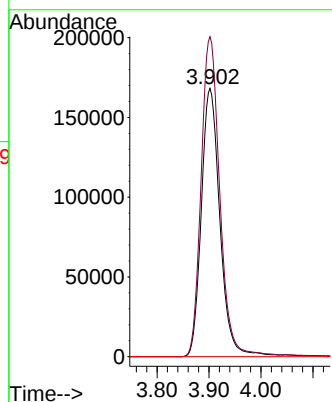
#22
 cis-1,2-Dichloroethene
 Concen: 22.010 ug/L
 RT: 3.902 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: VV029319.D
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Instrument :
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Tgt Ion: 96 Resp: 417556

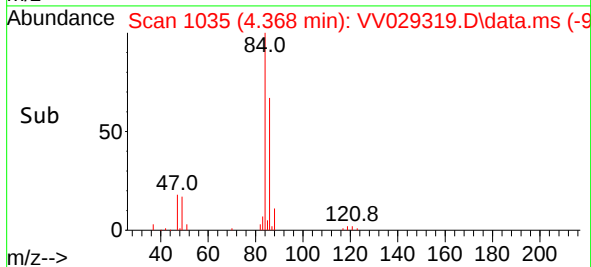
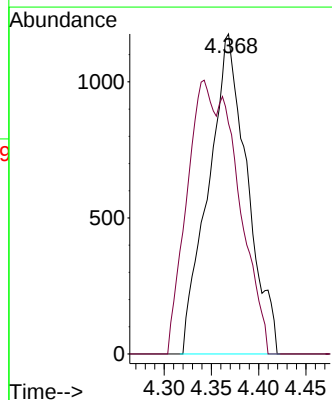
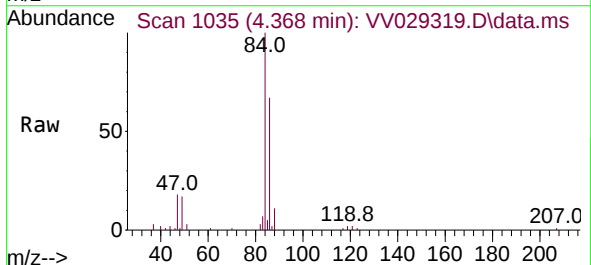
Ion	Ratio	Lower	Upper
96	100		
61	119.3	85.8	159.3
68	0.0	0.0	0.0

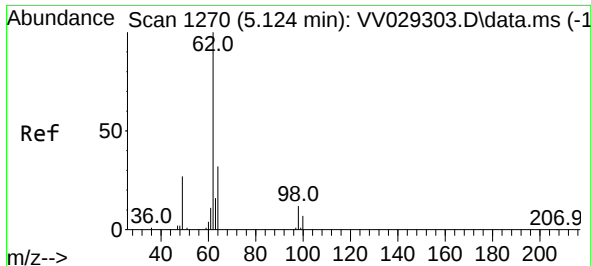


#25
 Chloroform
 Concen: 0.107 ug/L
 RT: 4.368 min Scan# 1035
 Delta R.T. 0.003 min
 Lab File: VV029319.D
 Acq: 24 Nov 2022 01:33

Tgt Ion: 83 Resp: 3345

Ion	Ratio	Lower	Upper
83	100		
85	72.0	45.4	84.4





#27

1,2-Dichloroethane

Concen: 0.395 ug/L

RT: 5.133 min Scan# 11

Delta R.T. 0.010 min

Lab File: VV029319.D

Acq: 24 Nov 2022 01:33

Instrument :

MSVOA_V

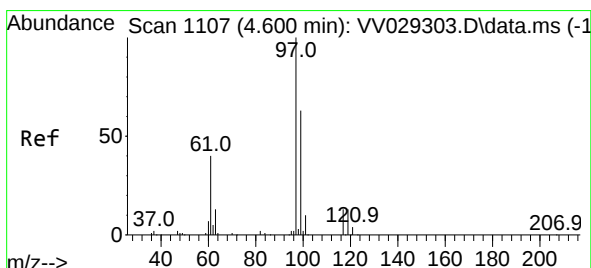
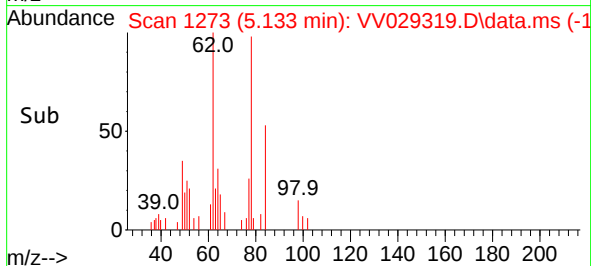
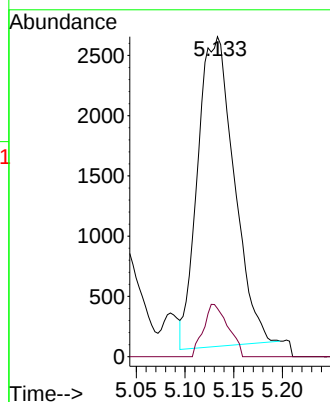
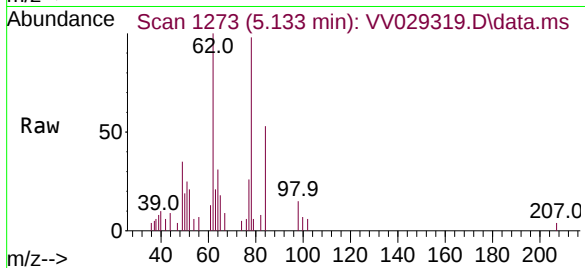
ClientSampleId :

Tgt Ion: 62 Resp: 6677

Ion Ratio Lower Upper

62 100

98 15.0 8.4 12.6#



#29

1,1,1-Trichloroethane

Concen: 1.567 ug/L

RT: 4.603 min Scan# 1108

Delta R.T. 0.003 min

Lab File: VV029319.D

Acq: 24 Nov 2022 01:33

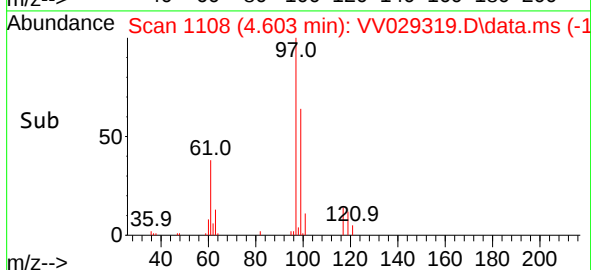
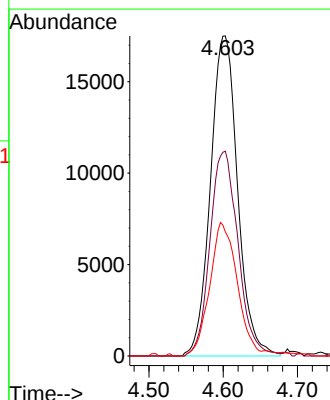
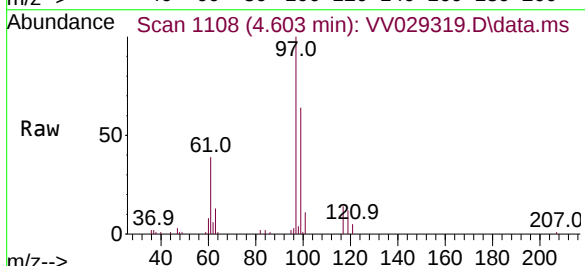
Tgt Ion: 97 Resp: 44544

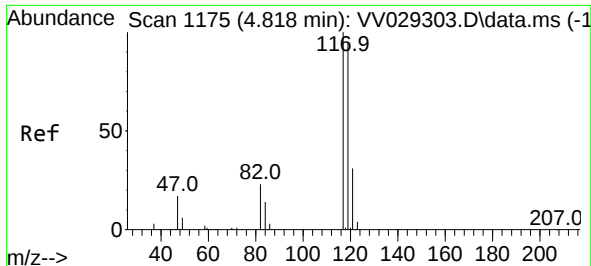
Ion Ratio Lower Upper

97 100

99 66.0 51.2 76.8

61 41.9 33.3 49.9

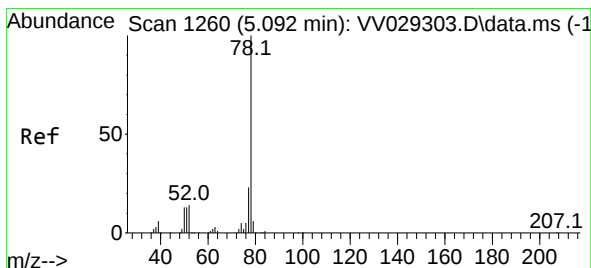
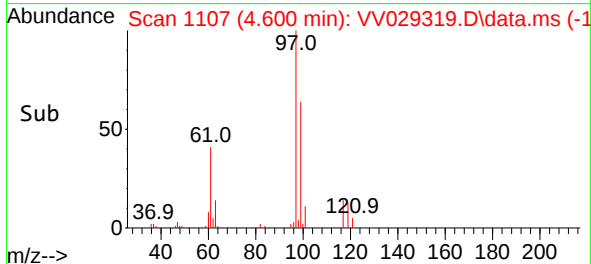
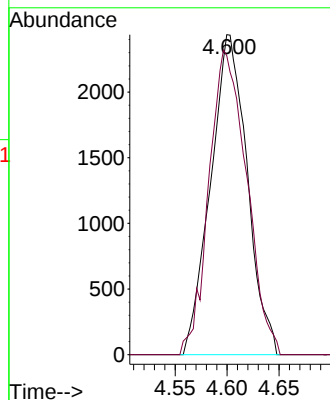
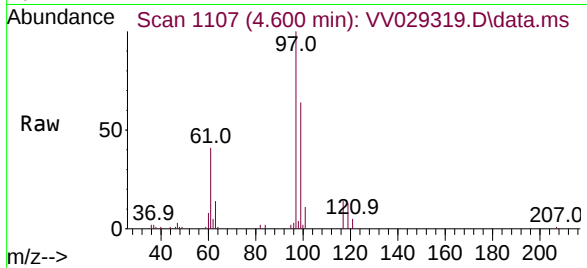




#31
Carbon tetrachloride
Concen: 0.248 ug/L
RT: 4.600 min Scan# 1175
Delta R.T. -0.219 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

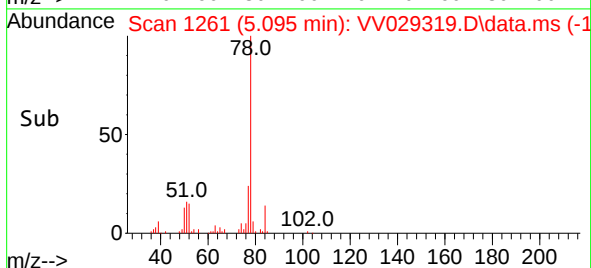
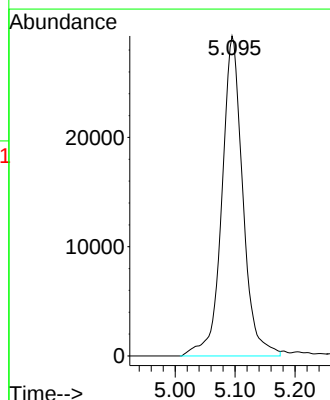
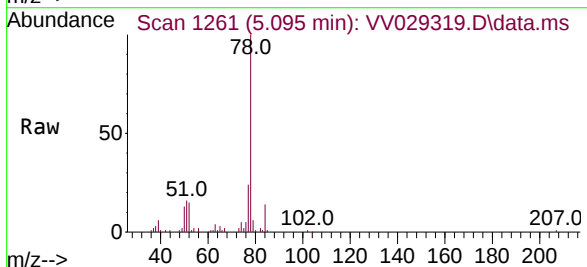
Instrument :
MSVOA_V
ClientSampleId :

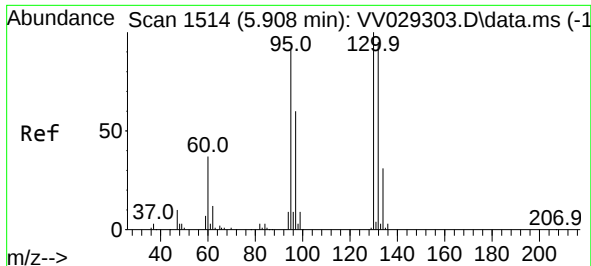
Tgt Ion:117 Resp: 5954
Ion Ratio Lower Upper
117 100
119 98.1 75.7 113.5



#33
Benzene
Concen: 0.957 ug/L
RT: 5.095 min Scan# 1261
Delta R.T. 0.003 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

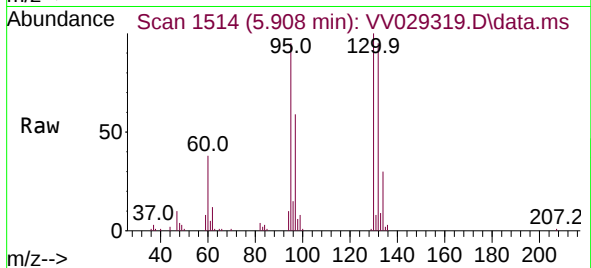
Tgt Ion: 78 Resp: 70755



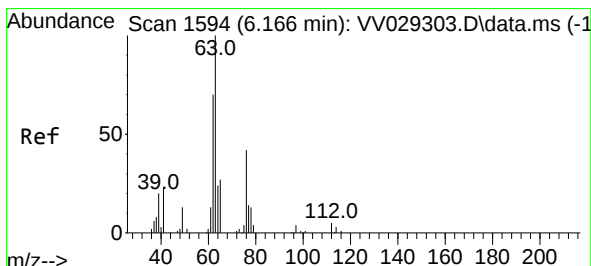
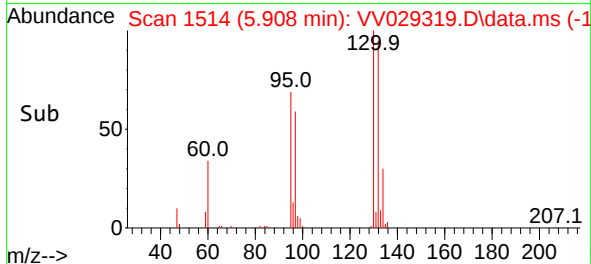
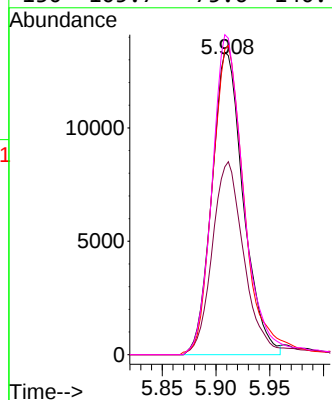


#34
 Trichloroethene
 Concen: 1.439 ug/L
 RT: 5.908 min Scan# 1514
 Delta R.T. -0.000 min
 Lab File: VV029319.D
 Acq: 24 Nov 2022 01:33

Instrument :
 MSVOA_V
 ClientSampleId :

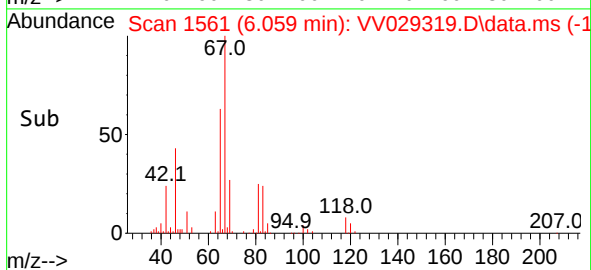
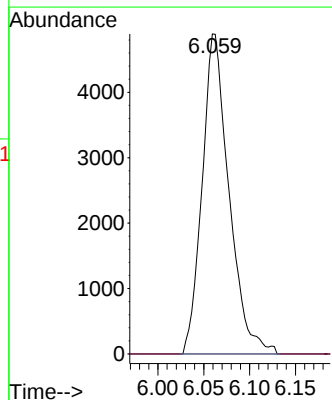
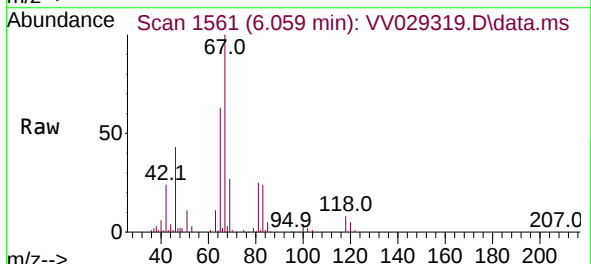


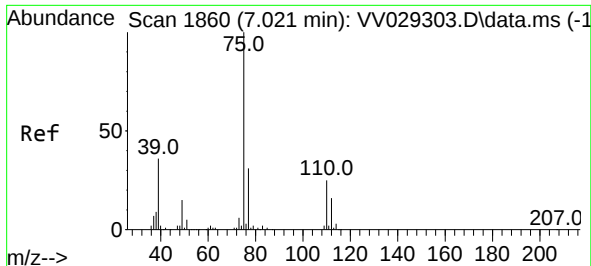
Tgt Ion:	95	Resp:	27122
Ion	Ratio	Lower	Upper
95	100		
97	62.1	45.4	84.4
132	100.9	73.3	136.1
130	105.7	75.6	140.4



#37
 1,2-Dichloropropane
 Concen: 0.572 ug/L
 RT: 6.059 min Scan# 1561
 Delta R.T. -0.106 min
 Lab File: VV029319.D
 Acq: 24 Nov 2022 01:33

Tgt Ion:	63	Resp:	9958
Ion	Ratio	Lower	Upper
63	100		
112	0.0	4.1	6.1#





#39

cis-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 6.979 min Scan# 1847

Delta R.T. -0.042 min

Lab File: VV029319.D

Acq: 24 Nov 2022 01:33

Instrument :

MSVOA_V

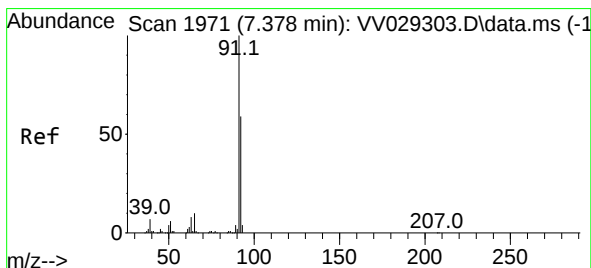
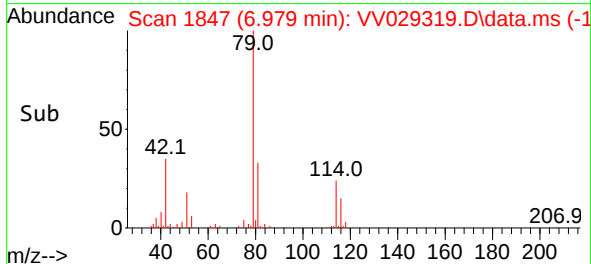
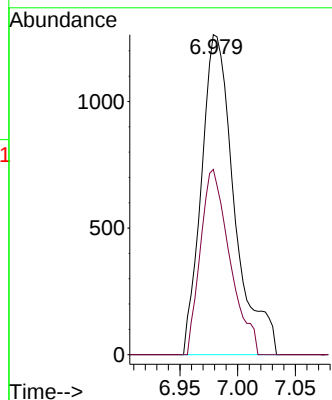
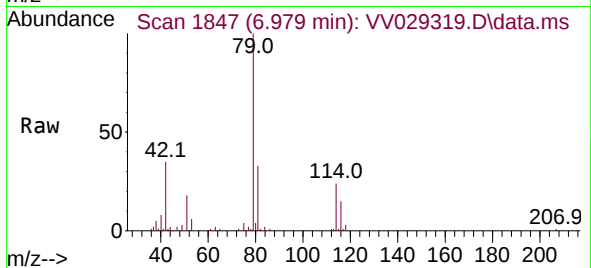
ClientSampleId :

Tgt Ion: 75 Resp: 2511

Ion Ratio Lower Upper

75 100

77 57.9 22.7 42.3#



#42

Toluene

Concen: 0.495 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.006 min

Lab File: VV029319.D

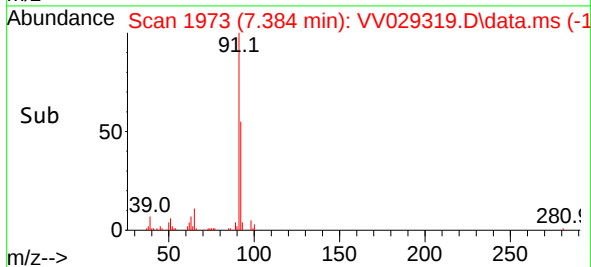
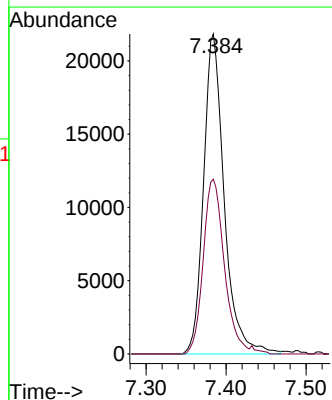
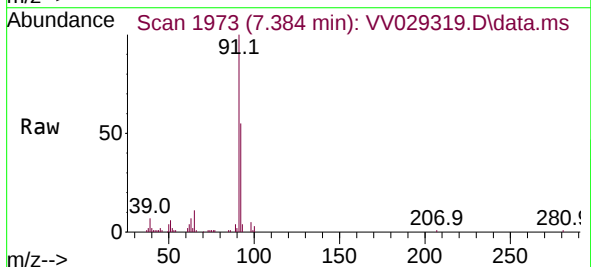
Acq: 24 Nov 2022 01:33

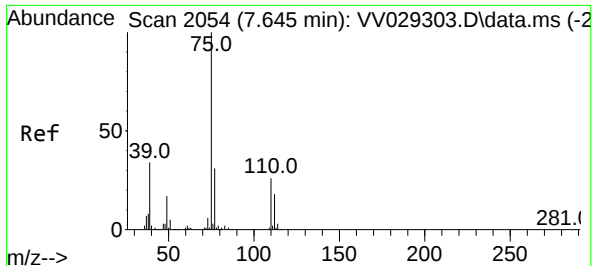
Tgt Ion: 91 Resp: 39269

Ion Ratio Lower Upper

91 100

92 54.6 40.8 75.8





#44

trans-1,3-Dichloropropene

Concen: 0.076 ug/L

RT: 7.612 min Scan# 2069

Delta R.T. -0.032 min

Lab File: VV029319.D

Acq: 24 Nov 2022 01:33

Instrument :

MSVOA_V

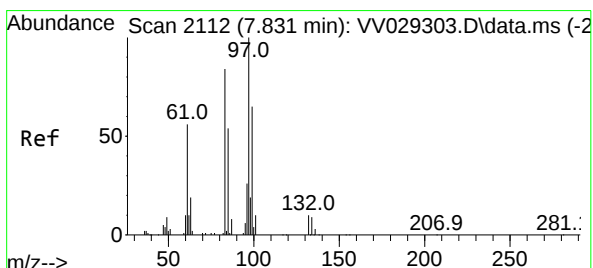
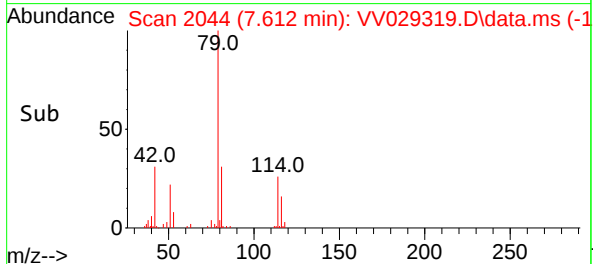
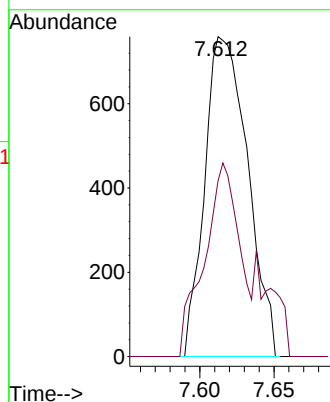
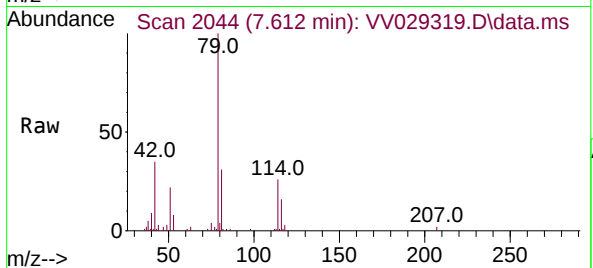
ClientSampleId :

Tgt Ion: 75 Resp: 1525

Ion Ratio Lower Upper

75 100

77 55.1 22.4 41.6#



#45

1,1,2-Trichloroethane

Concen: 0.274 ug/L

RT: 7.693 min Scan# 2069

Delta R.T. -0.138 min

Lab File: VV029319.D

Acq: 24 Nov 2022 01:33

Tgt Ion: 97 Resp: 3232

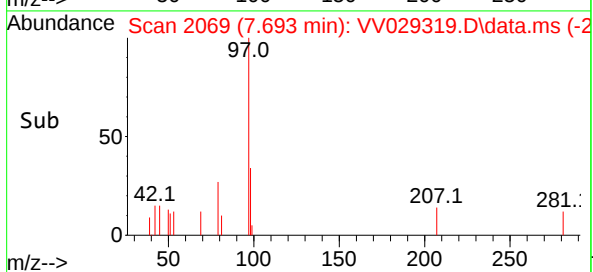
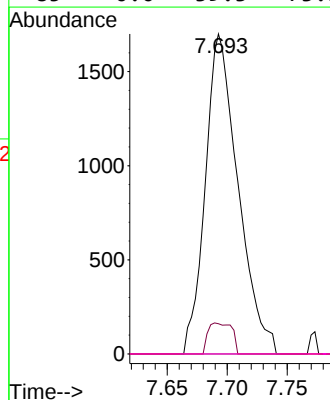
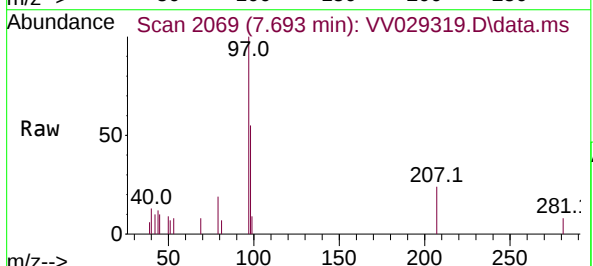
Ion Ratio Lower Upper

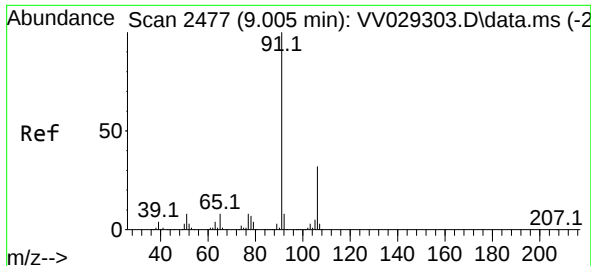
97 100

99 9.5 44.4 82.5#

83 0.0 59.5 110.5#

85 0.0 39.3 73.1#

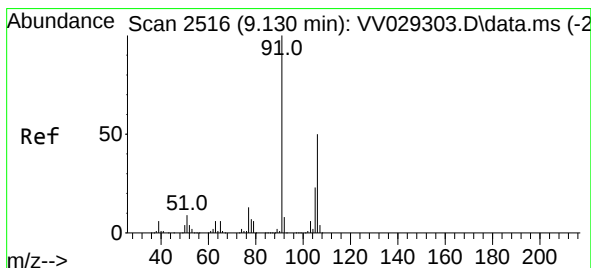
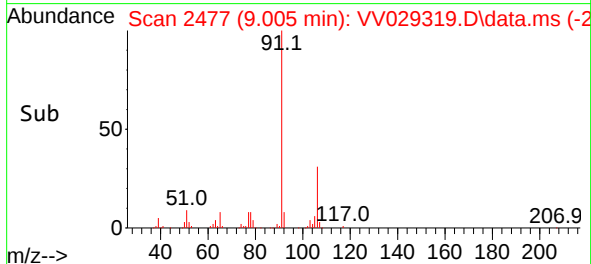
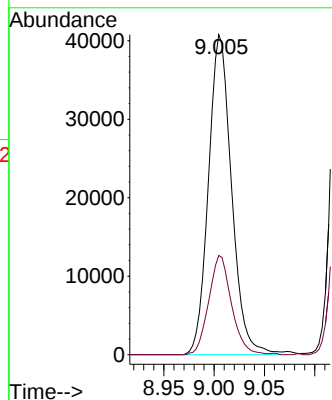
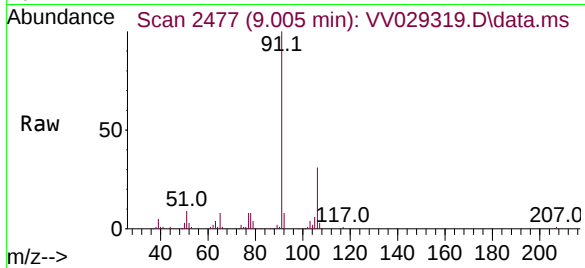




#52
Ethylbenzene
Concen: 0.789 ug/L
RT: 9.005 min Scan# 2477
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

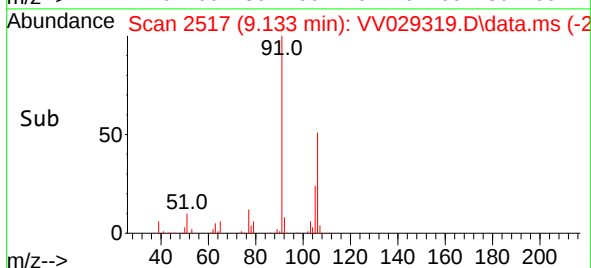
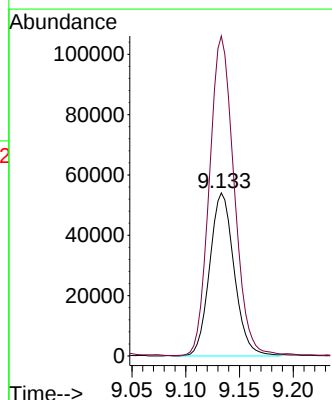
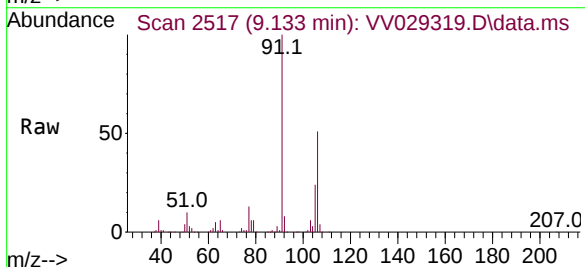
Instrument :
MSVOA_V
ClientSampleId :

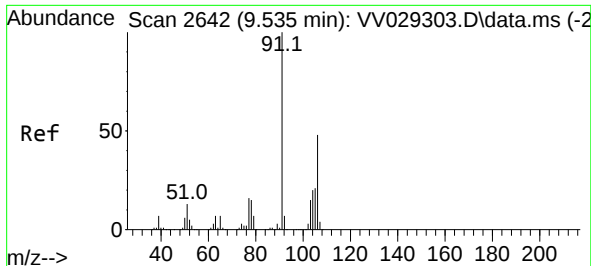
Tgt Ion: 91 Resp: 65244
Ion Ratio Lower Upper
91 100
106 31.0 21.9 40.7



#53
m,p-Xylene
Concen: 2.627 ug/L
RT: 9.133 min Scan# 2517
Delta R.T. 0.003 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Tgt Ion:106 Resp: 85675
Ion Ratio Lower Upper
106 100
91 196.3 140.6 261.2

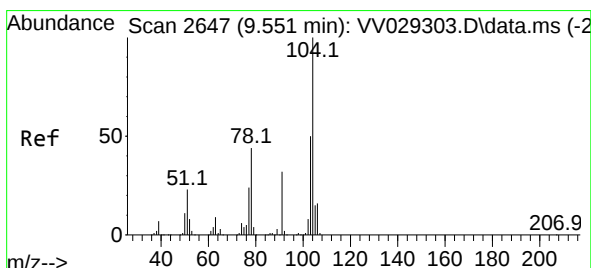
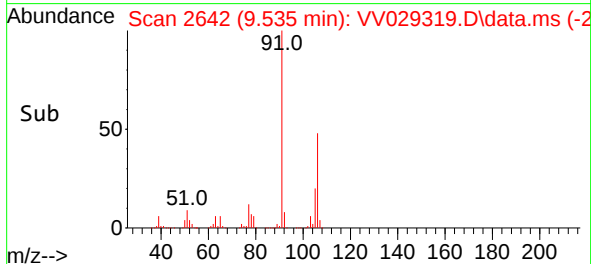
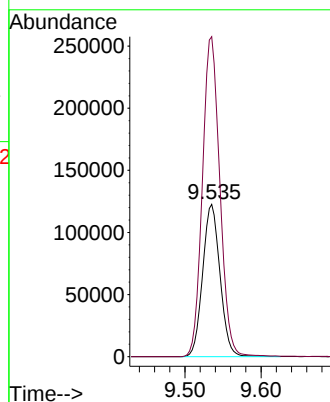
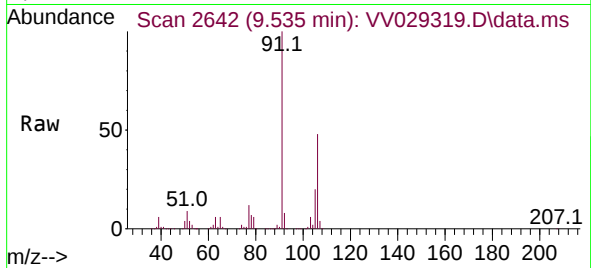




#54
o-Xylene
Concen: 6.071 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

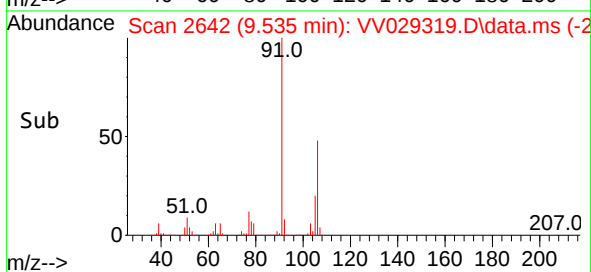
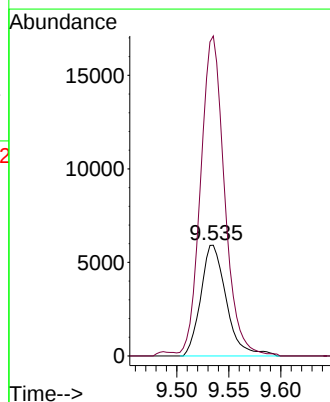
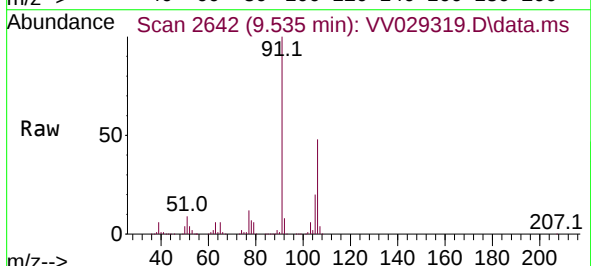
Instrument :
MSVOA_V
ClientSampleId :

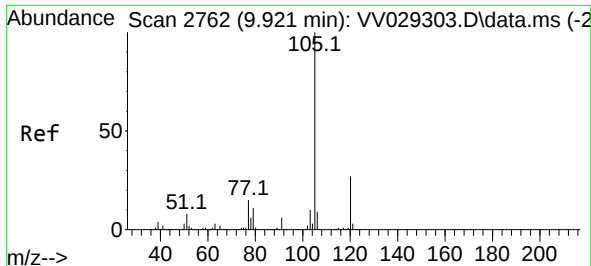
Tgt Ion:106 Resp: 194504
Ion Ratio Lower Upper
106 100
91 210.0 146.9 272.9



#55
Styrene
Concen: 0.187 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.016 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

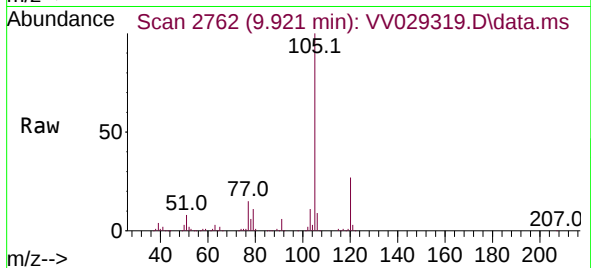
Tgt Ion:104 Resp: 10139
Ion Ratio Lower Upper
104 100
78 289.1 29.9 55.5#



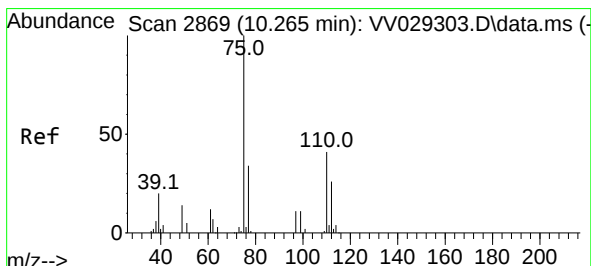
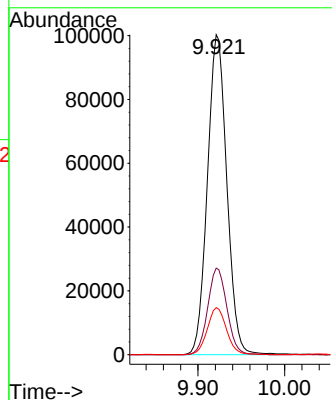
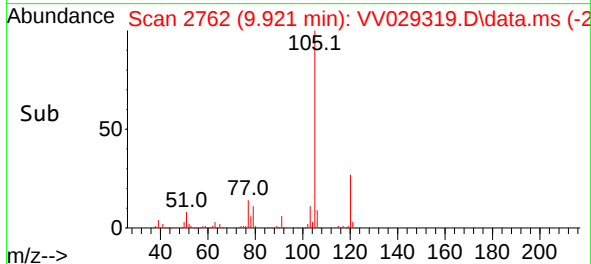


#60
Isopropylbenzene
Concen: 1.827 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Instrument :
MSVOA_V
ClientSampleId :

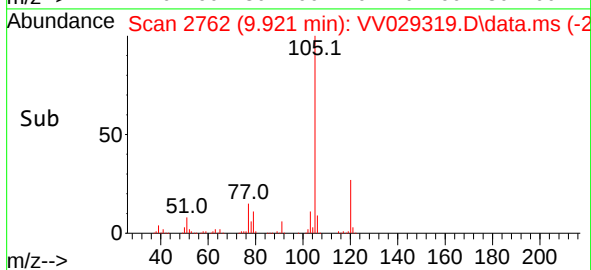
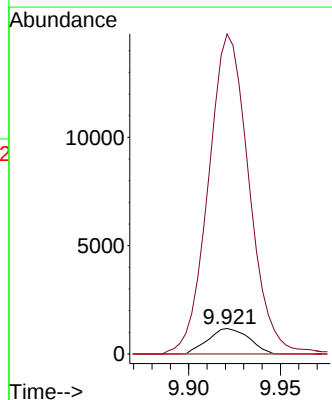
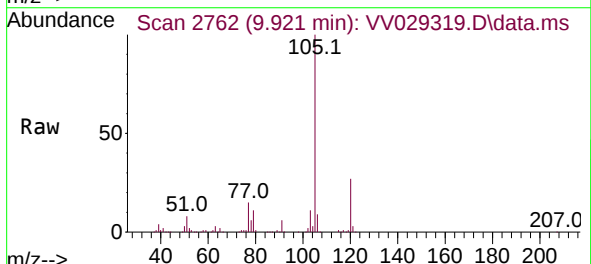


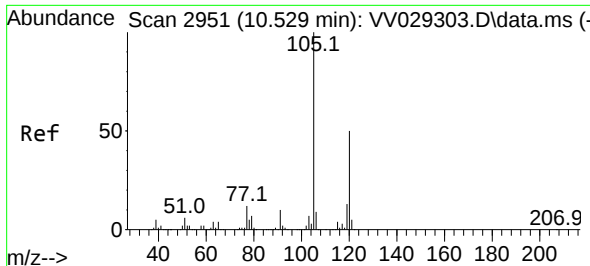
Tgt Ion:105 Resp: 156008
Ion Ratio Lower Upper
105 100
120 26.7 21.4 32.2
77 14.6 11.8 17.8



#61
1,2,3-Trichloropropane
Concen: 0.198 ug/L
RT: 9.921 min Scan# 2762
Delta R.T. -0.344 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Tgt Ion: 75 Resp: 1814
Ion Ratio Lower Upper
75 100
77 1257.1 26.7 40.1#
110 0.0 32.2 48.4#

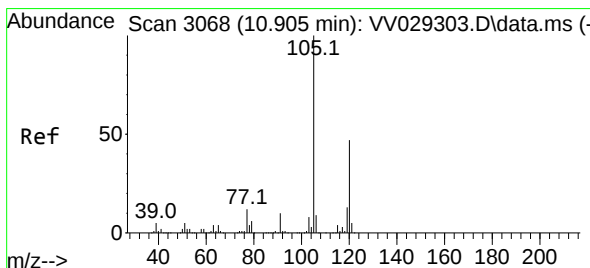
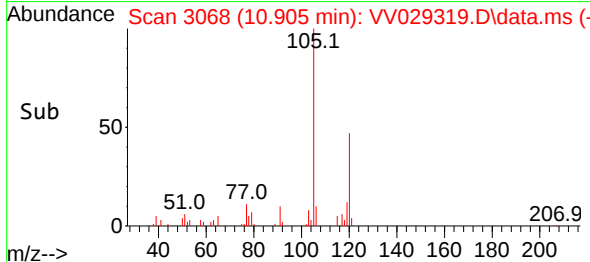
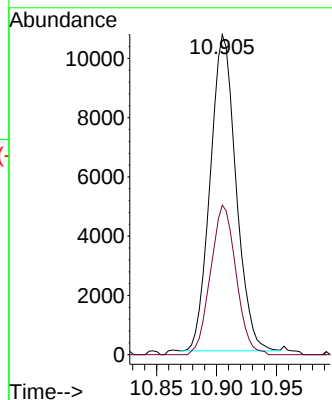
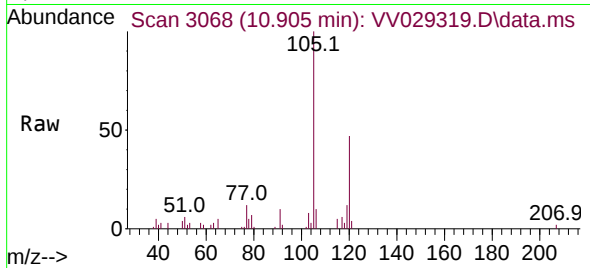




#62
1,3,5-Trimethylbenzene
Concen: 0.216 ug/L
RT: 10.905 min Scan# 3068
Delta R.T. 0.376 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

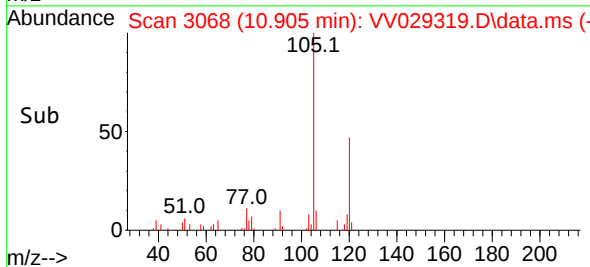
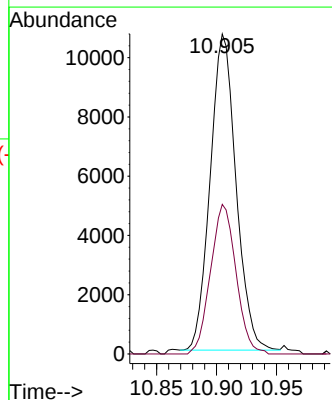
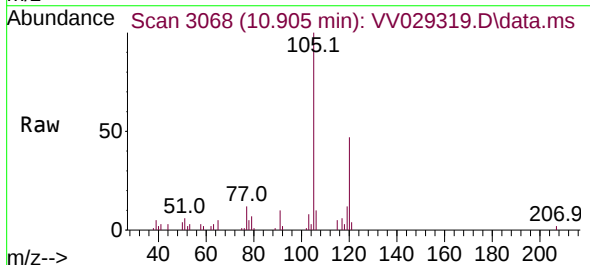
Instrument :
MSVOA_V
ClientSampleId :

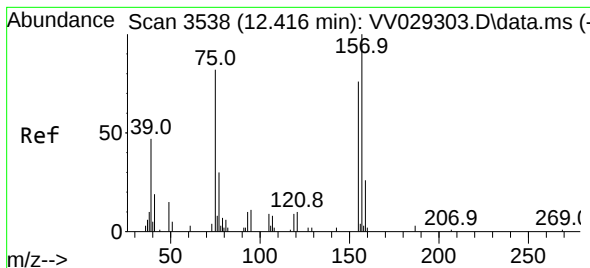
Tgt Ion:105 Resp: 15969
Ion Ratio Lower Upper
105 100
120 46.6 39.6 59.4



#63
1,2,4-Trimethylbenzene
Concen: 0.215 ug/L
RT: 10.905 min Scan# 3068
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Tgt Ion:105 Resp: 15969
Ion Ratio Lower Upper
105 100
120 46.6 37.2 55.8

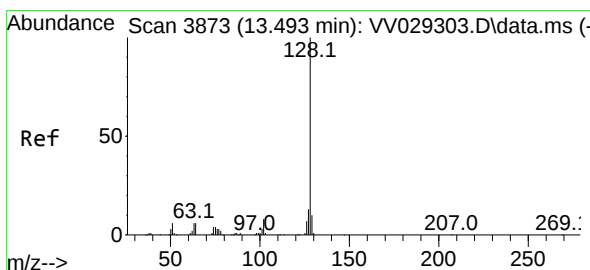
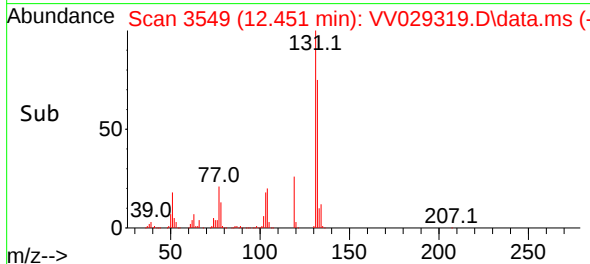
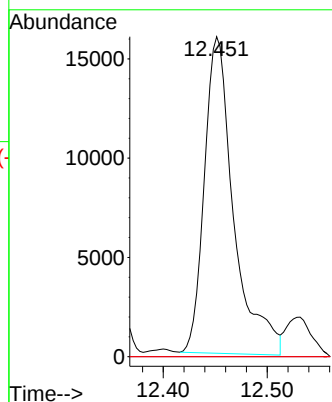
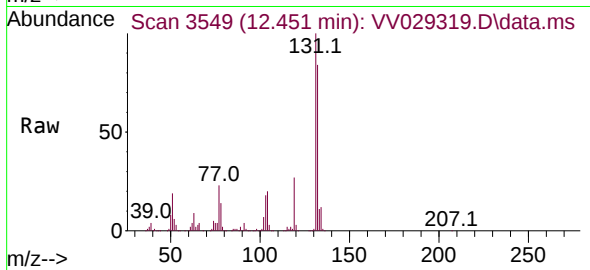




#68
1,2-Dibromo-3-chloropropane
Concen: 17.387 ug/L
RT: 12.451 min Scan# 3549
Delta R.T. 0.035 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 31283
Ion Ratio Lower Upper
75 100
155 0.0 76.6 115.0#
157 0.0 96.9 145.3#



#71
Naphthalene
Concen: 2.510 ug/L
RT: 13.493 min Scan# 3873
Delta R.T. -0.000 min
Lab File: VV029319.D
Acq: 24 Nov 2022 01:33

Tgt Ion:128 Resp: 57786
Ion Ratio Lower Upper
128 100
129 11.6 8.9 13.3
127 13.6 10.6 15.8

