

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120822\
 Data File : VW029495.D
 Acq On : 09 Dec 2022 00:04
 Operator : SY/MD
 Sample : N5915-05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F5N04

Quant Time: Dec 09 04:16:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.609	114	473380	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.844	117	449814	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.239	152	256377	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	155299	53.574	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.140%
7) Chloroethane-d5	1.564	69	98086	44.375	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.740%
11) 1,1-Dichloroethene-d2	2.108	63	189755	41.969	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.940%
21) 2-Butanone-d5	3.889	46	200031	113.118	ug/L	0.02
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.120%
24) Chloroform-d	4.339	84	243568	44.651	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.300%
26) 1,2-Dichloroethane-d4	5.024	65	149888	48.110	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.220%
32) Benzene-d6	5.043	84	513061	43.167	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.340%
36) 1,2-Dichloropropane-d6	6.063	67	159232	43.859	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.720%
41) Toluene-d8	7.307	98	475153	42.429	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.860%
43) trans-1,3-Dichloroprop...	7.612	79	71782	39.155	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	78.320%
47) 2-Hexanone-d5	8.082	63	155172	100.091	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.090%
56) 1,1,2,2-Tetrachloroeth...	10.204	84	242696	46.780	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.560%
66) 1,2-Dichlorobenzene-d4	11.725	152	65	0.013	ug/L	0.11
Spiked Amount	50.000	Range	80 - 120	Recovery	=	0.020%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	5509414	1548.933	ug/L	95
12) 1,1-Dichloroethene	2.117	96	83475	32.990	ug/L	91
17) trans-1,2-Dichloroethene	2.754	96	155652	53.387	ug/L	95
18) Methyl tert-butyl Ether	2.764	73	127309	14.252	ug/L	98
19) 1,1-Dichloroethane	3.185	63	198345	39.711	ug/L	98
27) 1,2-Dichloroethane	5.127	62	25293	6.915	ug/L	100
29) Cyclohexane	4.670	56	19922	4.088	ug/L	100
33) Benzene	5.092	78	915262	72.187	ug/L	100
34) Trichloroethene	5.912	95	27434	8.635	ug/L	98
42) Toluene	7.381	91	895604	65.627	ug/L	100
44) trans-1,3-Dichloropropene	7.616	75	3294	0.691	ug/L	89
46) Tetrachloroethene	7.969	164	49474	19.368	ug/L	99
48) 2-Hexanone	8.082	43	20052	7.193	ug/L	# 60
51) Chlorobenzene	8.873	112	3942464	456.225	ug/L	98
52) Ethylbenzene	9.005	91	17645	1.230	ug/L	98
53) m,p-Xylene	9.130	106	22935	4.039	ug/L	100
54) o-Xylene	9.535	106	17782	3.166	ug/L	97
62) 1,3,5-Trimethylbenzene	10.532	105	10567	0.794	ug/L	97
63) 1,2,4-Trimethylbenzene	10.905	105	93432	7.082	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
 Data File : VV029495.D
 Acq On : 09 Dec 2022 00:04
 Operator : SY/MD
 Sample : N5915-05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F5N04

Quant Time: Dec 09 04:16:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Dec 08 01:48:46 2022
 Response via : Initial Calibration

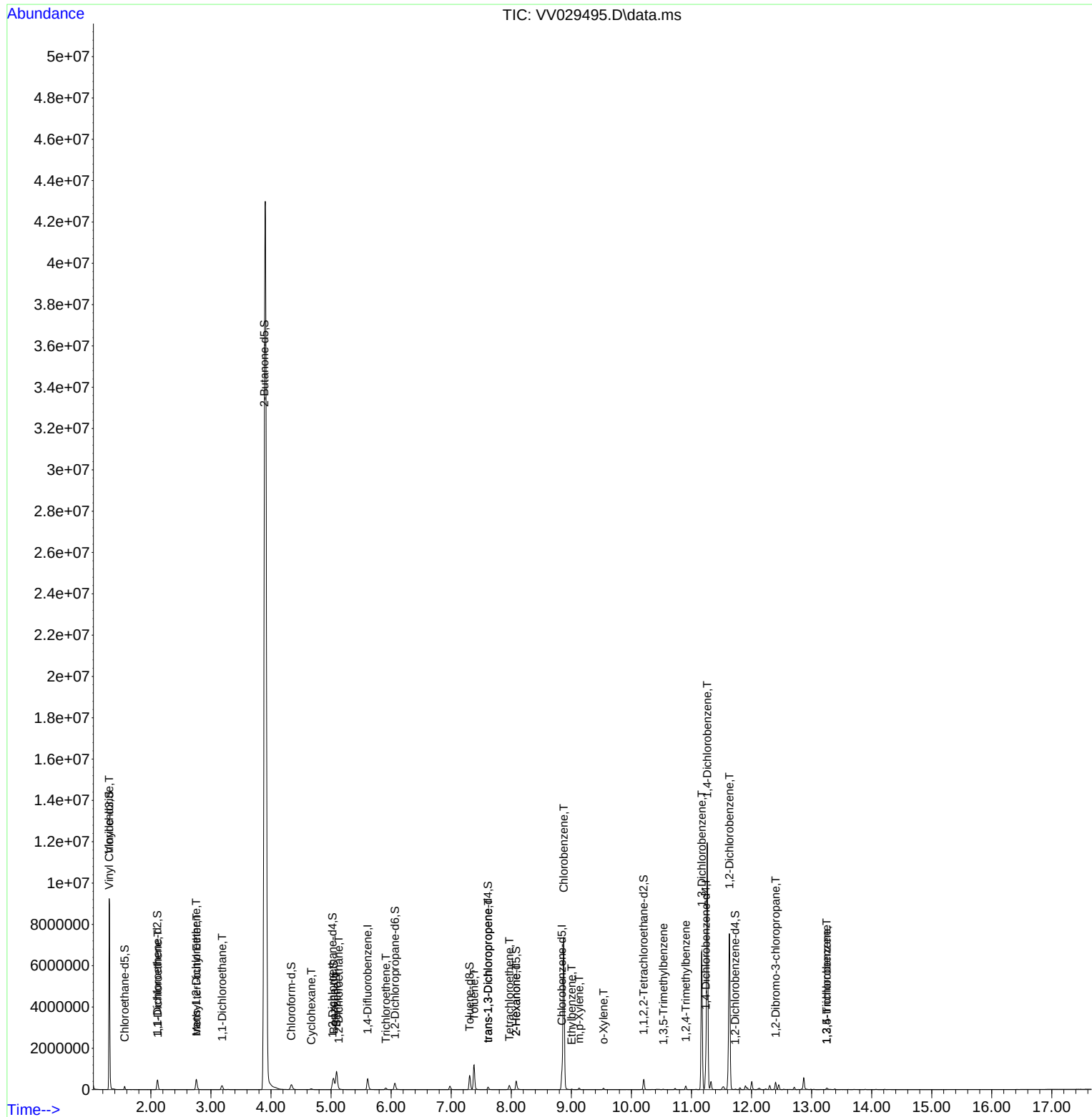
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.172	146	2704077	367.411	ug/L	99
65) 1,4-Dichlorobenzene	11.262	146	4769053	637.596	ug/L	98
67) 1,2-Dichlorobenzene	11.632	146	2950526	392.042	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.400	75	1743	1.417	ug/L #	1
69) 1,3,5-Trichlorobenzene	13.249	180	6634	1.133	ug/L	96
70) 1,2,4-trichlorobenzene	13.249	180	6634	1.274	ug/L	97

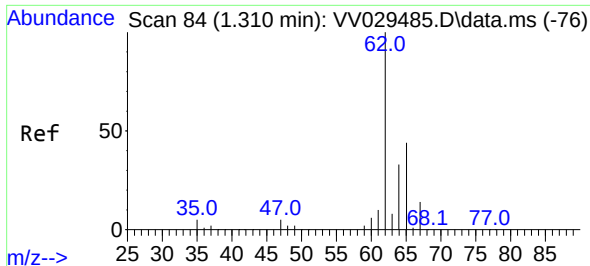
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV120822\
Data File : VV029495.D
Acq On : 09 Dec 2022 00:04
Operator : SY/MD
Sample : N5915-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
F5N04

Quant Time: Dec 09 04:16:42 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM120722WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 08 01:48:46 2022
Response via : Initial Calibration

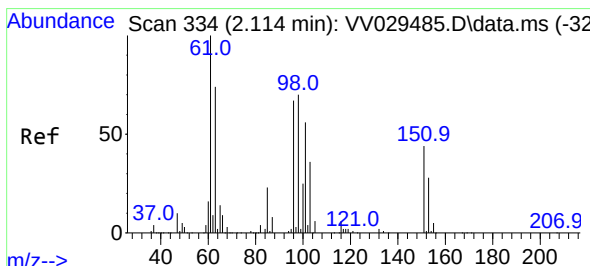
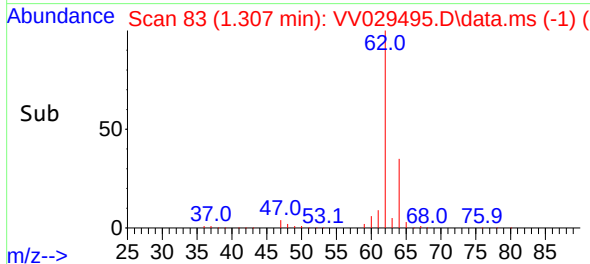
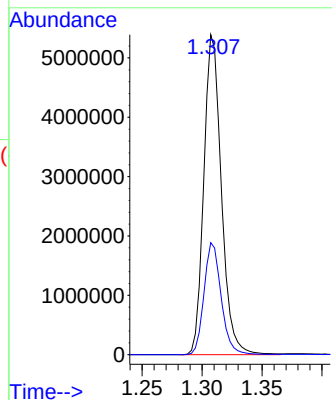
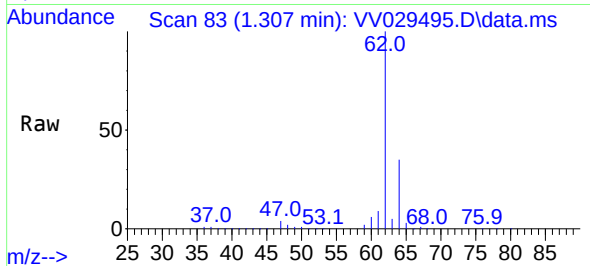




#5
 Vinyl chloride
 Concen: 1548.933 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VV029495.D
 Acq: 09 Dec 2022 00:04

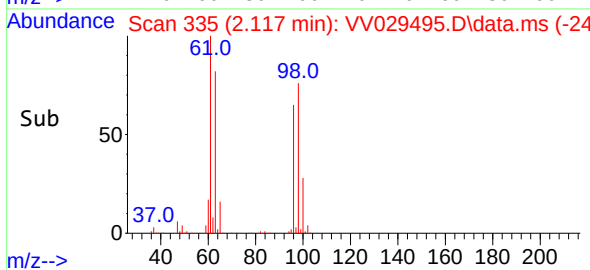
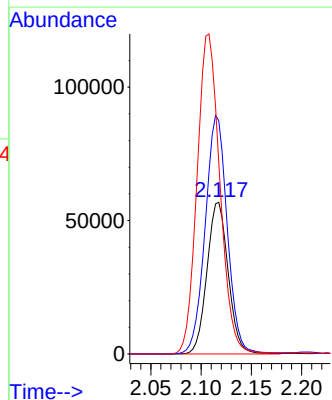
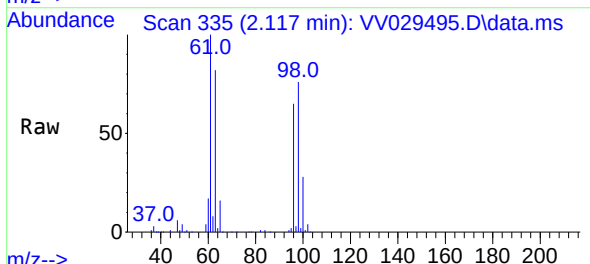
Instrument :
 MSVOA_V
 ClientSampleId :
 F5N04

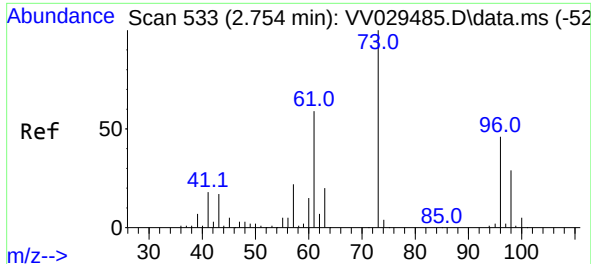
Tgt Ion: 62 Resp: 5509414
 Ion Ratio Lower Upper
 62 100
 64 35.0 22.5 41.9



#12
 1,1-Dichloroethene
 Concen: 32.990 ug/L
 RT: 2.117 min Scan# 335
 Delta R.T. 0.003 min
 Lab File: VV029495.D
 Acq: 09 Dec 2022 00:04

Tgt Ion: 96 Resp: 83475
 Ion Ratio Lower Upper
 96 100
 61 153.8 103.3 191.9
 63 126.4 77.3 143.7

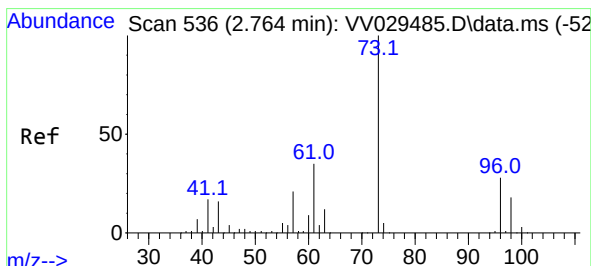
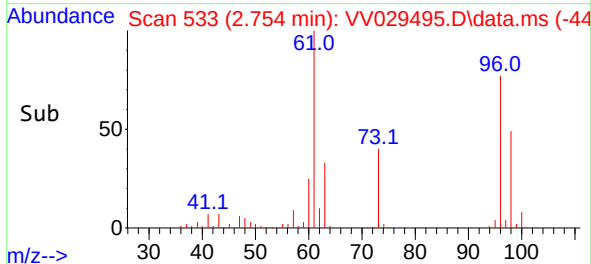
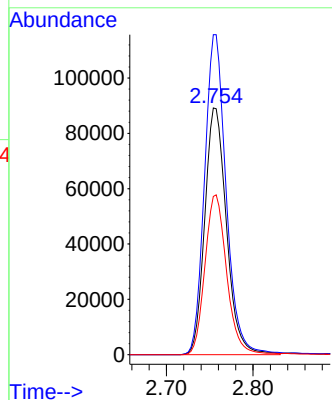
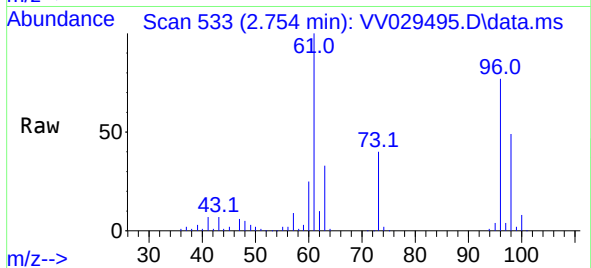




#17
trans-1,2-Dichloroethene
Concen: 53.387 ug/L
RT: 2.754 min Scan# 51
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

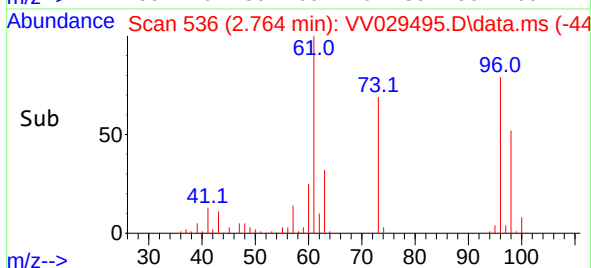
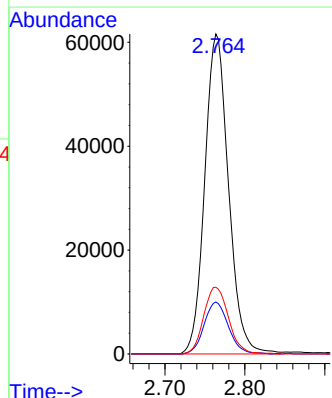
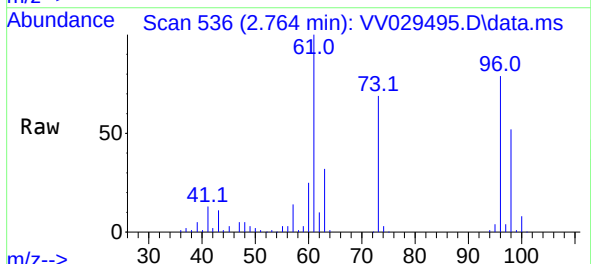
Instrument :
MSVOA_V
ClientSampleId :
F5N04

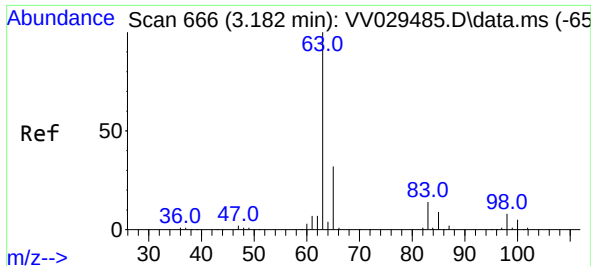
Tgt Ion: 96 Resp: 155652
Ion Ratio Lower Upper
96 100
61 129.7 86.4 160.4
98 64.1 43.4 80.6



#18
Methyl tert-butyl Ether
Concen: 14.252 ug/L
RT: 2.764 min Scan# 536
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion: 73 Resp: 127309
Ion Ratio Lower Upper
73 100
43 16.5 12.7 19.1
57 21.7 16.7 25.1

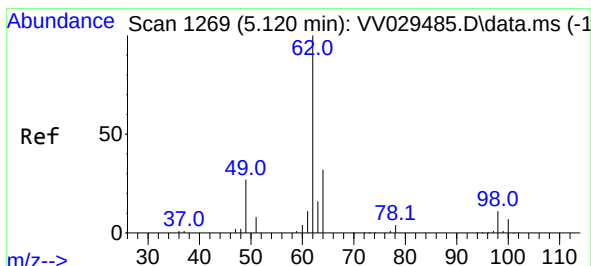
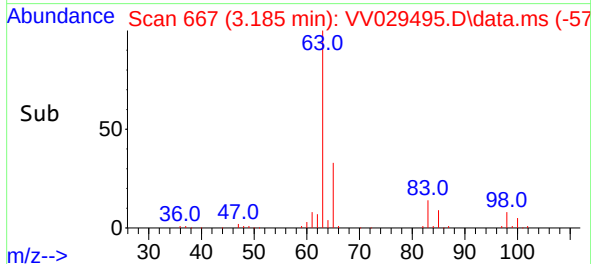
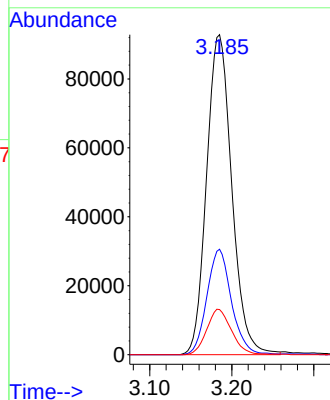
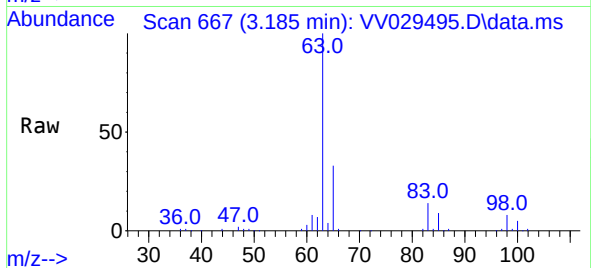




#19
1,1-Dichloroethane
Concen: 39.711 ug/L
RT: 3.185 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

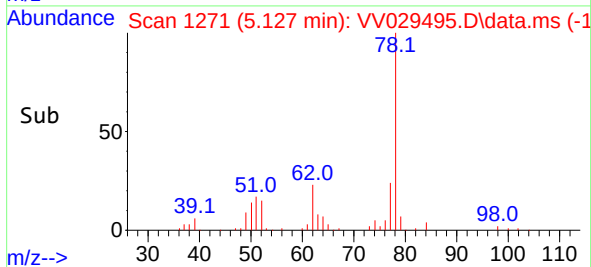
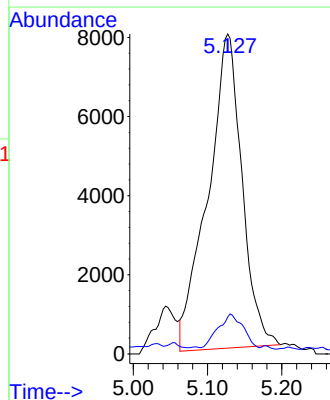
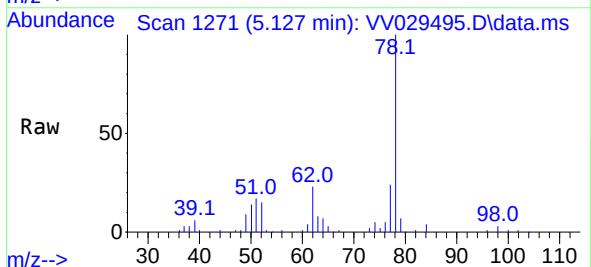
Instrument :
MSVOA_V
ClientSampleId :
F5N04

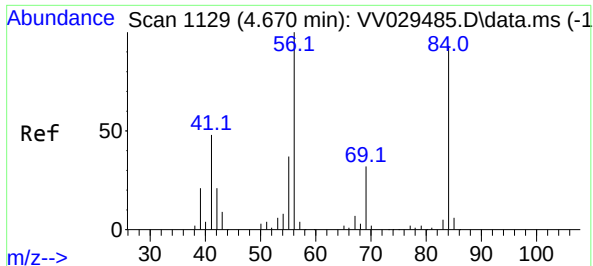
Tgt Ion: 63 Resp: 198345
Ion Ratio Lower Upper
63 100
65 33.0 22.5 41.7
83 14.1 10.4 19.2



#27
1,2-Dichloroethane
Concen: 6.915 ug/L
RT: 5.127 min Scan# 1271
Delta R.T. 0.003 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion: 62 Resp: 25293
Ion Ratio Lower Upper
62 100
98 11.6 9.4 14.0





#29

Cyclohexane

Concen: 4.088 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Instrument :

MSVOA_V

ClientSampleId :

F5N04

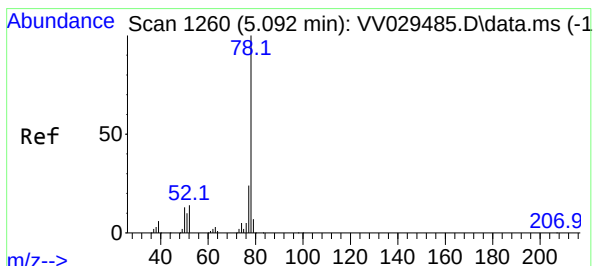
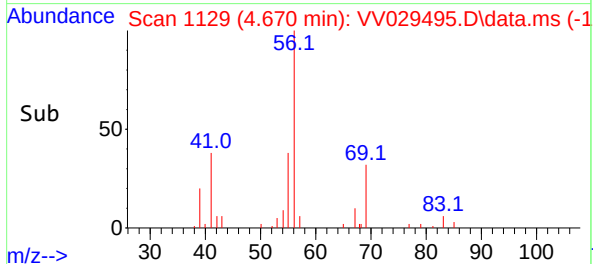
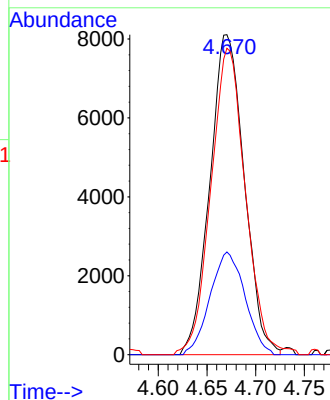
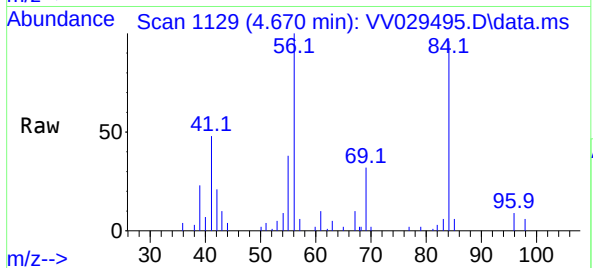
Tgt Ion: 56 Resp: 19922

Ion Ratio Lower Upper

56 100

69 32.6 25.8 38.8

84 95.4 76.6 114.8



#33

Benzene

Concen: 72.187 ug/L

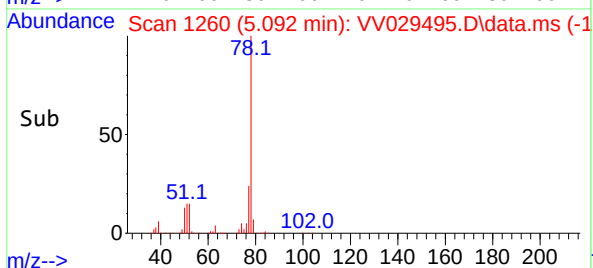
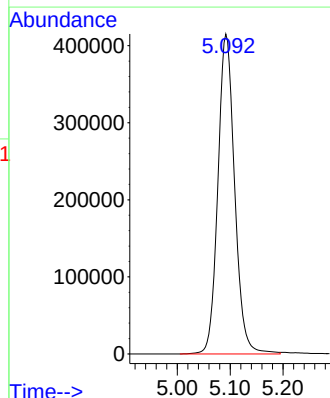
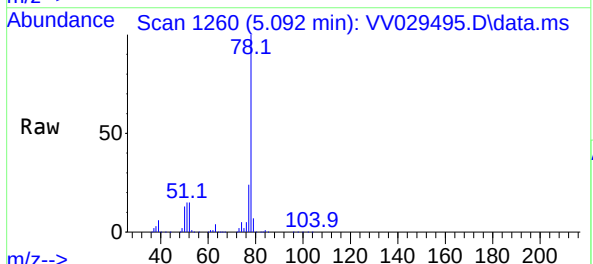
RT: 5.092 min Scan# 1260

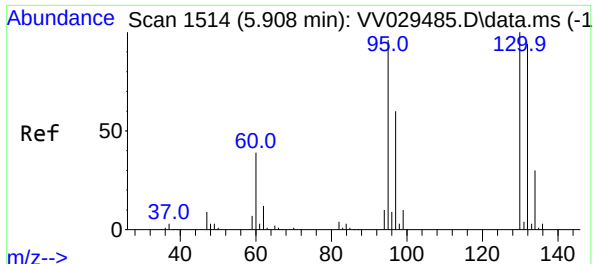
Delta R.T. -0.003 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Tgt Ion: 78 Resp: 915262





#34

Trichloroethene

Concen: 8.635 ug/L

RT: 5.912 min Scan# 1

Delta R.T. 0.003 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Instrument :

MSVOA_V

ClientSampleId :

F5N04

Tgt Ion: 95 Resp: 27434

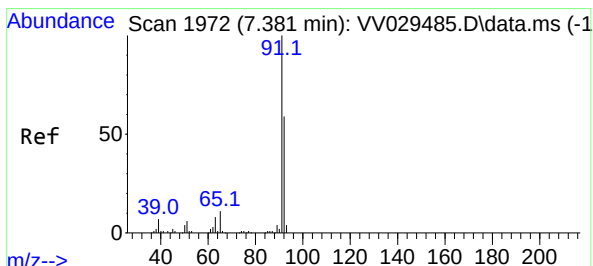
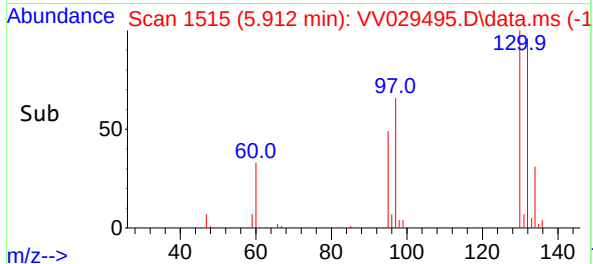
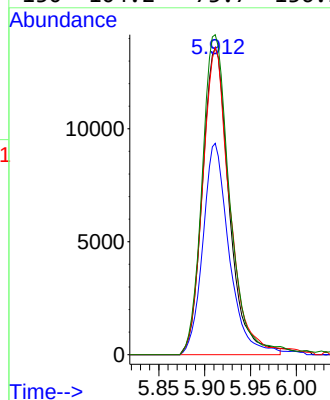
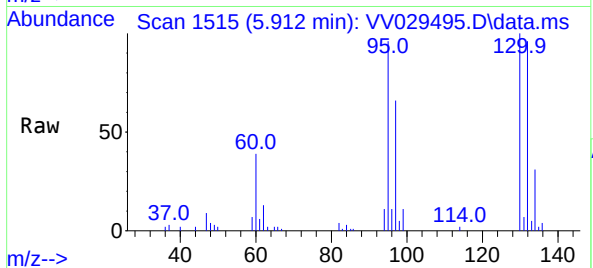
Ion Ratio Lower Upper

95 100

97 68.8 44.0 81.8

132 100.0 69.9 129.9

130 104.2 73.7 136.9



#42

Toluene

Concen: 65.627 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. -0.000 min

Lab File: VV029495.D

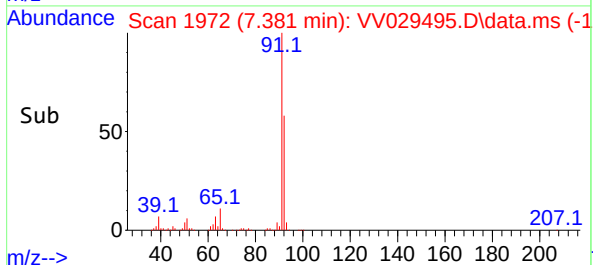
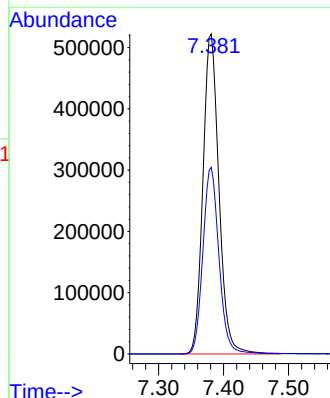
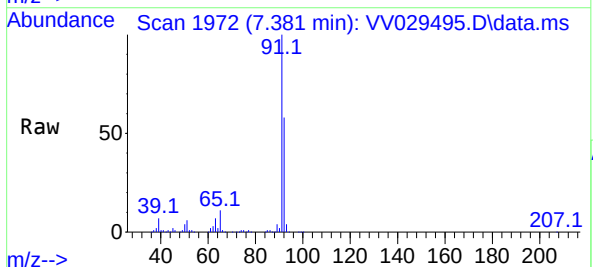
Acq: 09 Dec 2022 00:04

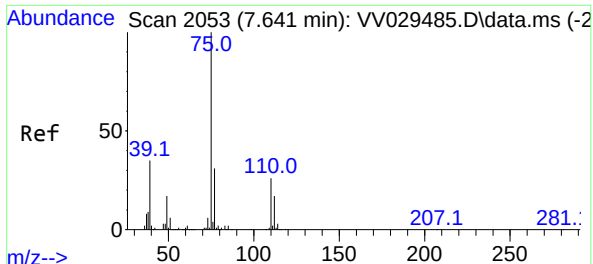
Tgt Ion: 91 Resp: 895604

Ion Ratio Lower Upper

91 100

92 58.3 40.6 75.4

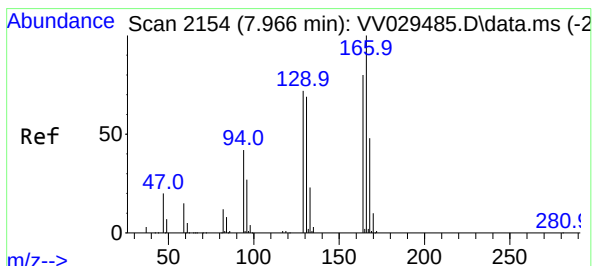
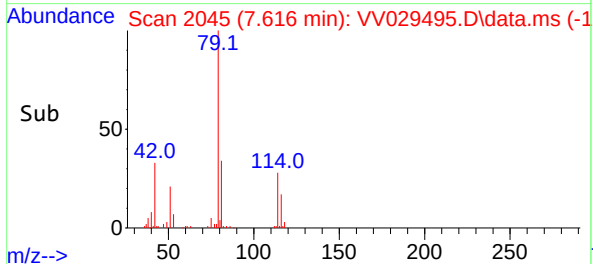
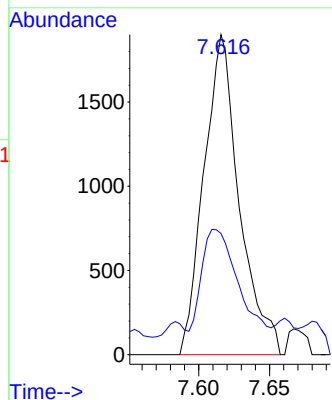
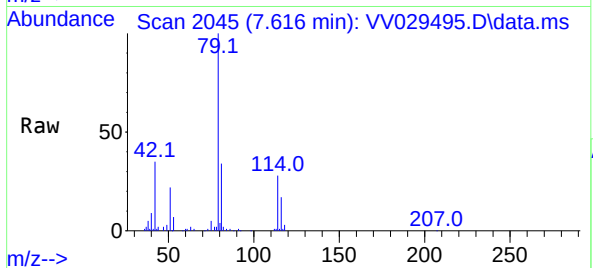




#44
trans-1,3-Dichloropropene
Concen: 0.691 ug/L
RT: 7.616 min Scan# 2045
Delta R.T. -0.029 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

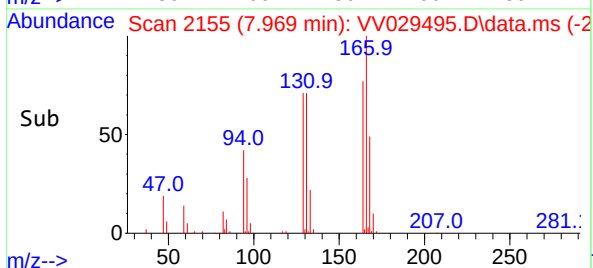
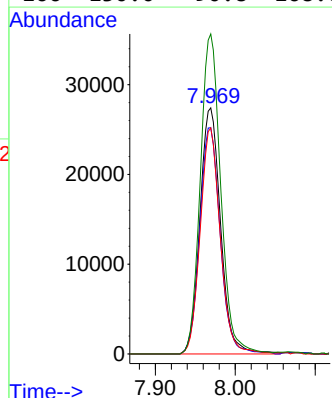
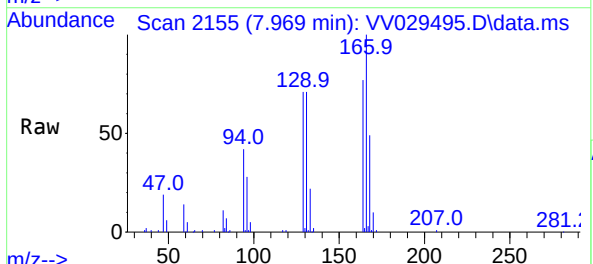
Instrument :
MSVOA_V
ClientSampleId :
F5N04

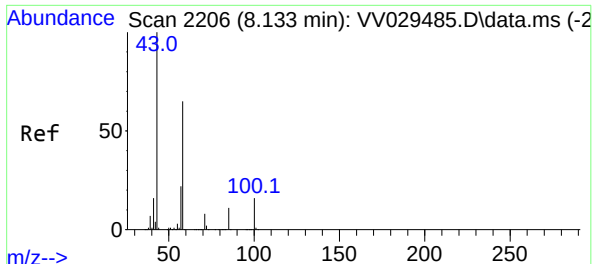
Tgt Ion: 75 Resp: 3294
Ion Ratio Lower Upper
75 100
77 37.8 22.3 41.5



#46
Tetrachloroethene
Concen: 19.368 ug/L
RT: 7.969 min Scan# 2155
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion: 164 Resp: 49474
Ion Ratio Lower Upper
164 100
129 91.9 65.3 121.3
131 91.9 63.1 117.1
166 130.0 90.8 168.6





#48

2-Hexanone

Concen: 7.193 ug/L

RT: 8.082 min Scan# 2190

Delta R.T. -0.051 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Instrument :

MSVOA_V

ClientSampleId :

F5N04

Tgt Ion: 43 Resp: 20052

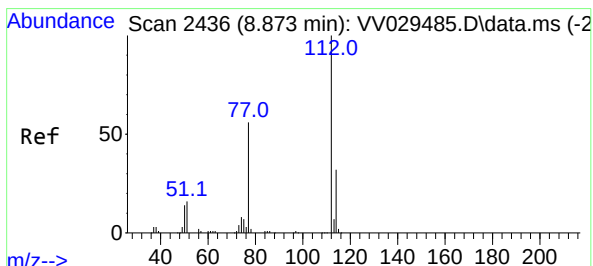
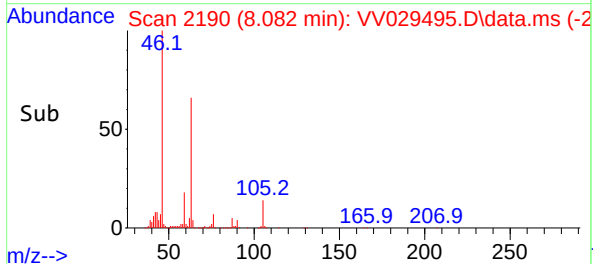
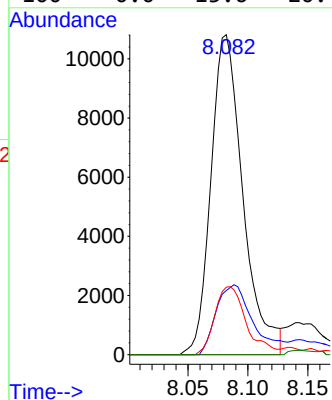
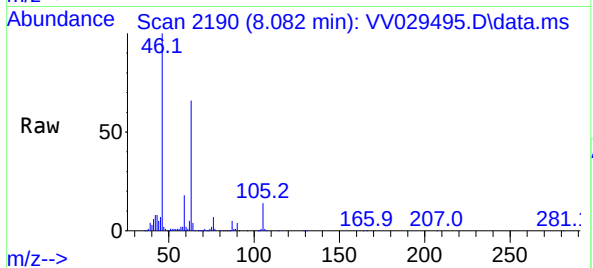
Ion Ratio Lower Upper

43 100

58 25.7 54.1 81.1#

57 20.9 17.4 26.0

100 0.0 13.6 20.4#



#51

Chlorobenzene

Concen: 456.225 ug/L

RT: 8.873 min Scan# 2436

Delta R.T. -0.000 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

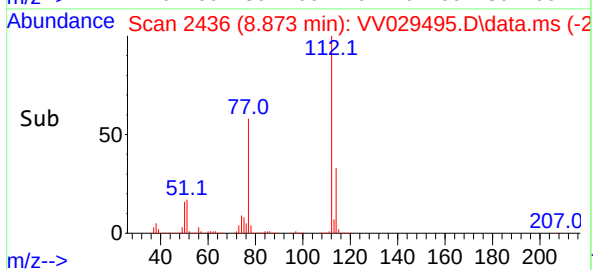
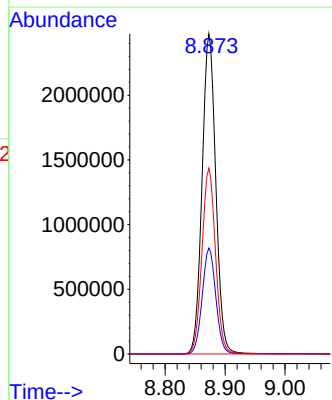
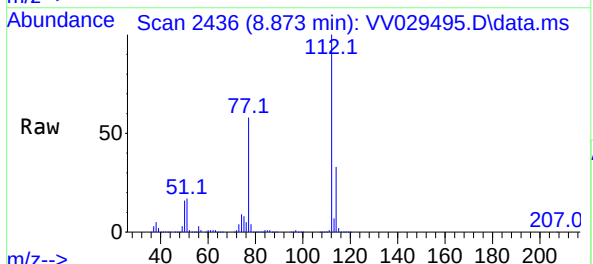
Tgt Ion: 112 Resp: 3942464

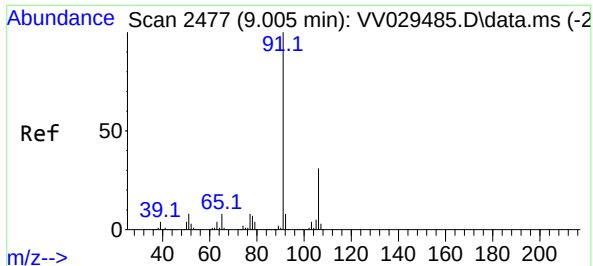
Ion Ratio Lower Upper

112 100

114 33.1 22.3 41.3

77 58.1 45.0 67.4





#52

Ethylbenzene

Concen: 1.230 ug/L

RT: 9.005 min Scan# 2477

Delta R.T. -0.000 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Instrument :

MSVOA_V

ClientSampleId :

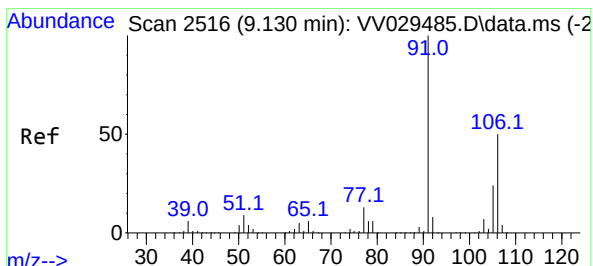
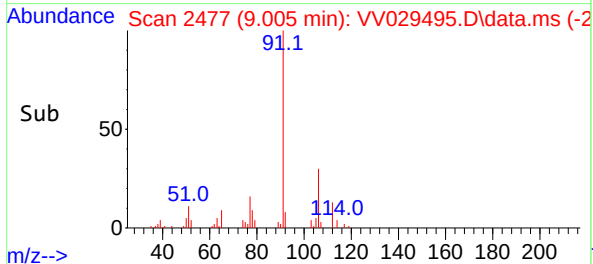
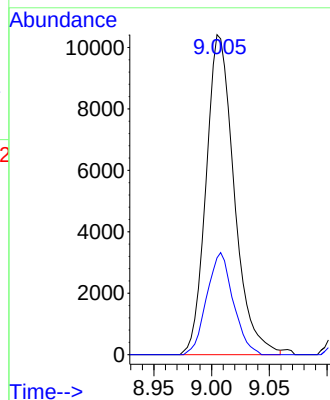
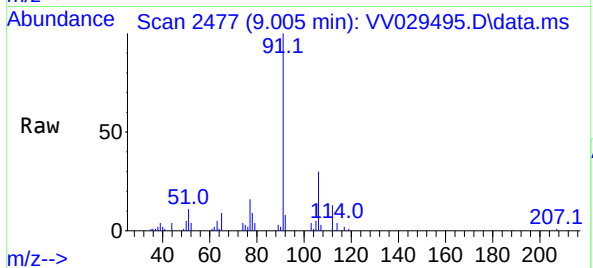
F5N04

Tgt Ion: 91 Resp: 17645

Ion Ratio Lower Upper

91 100

106 30.3 21.8 40.6



#53

m,p-Xylene

Concen: 4.039 ug/L

RT: 9.130 min Scan# 2516

Delta R.T. -0.000 min

Lab File: VV029495.D

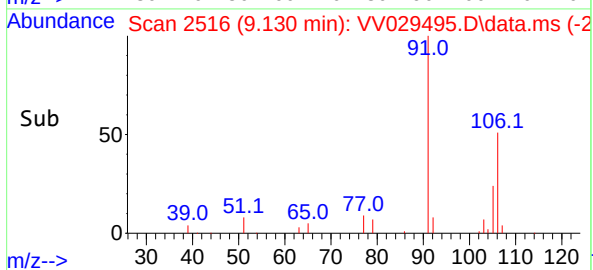
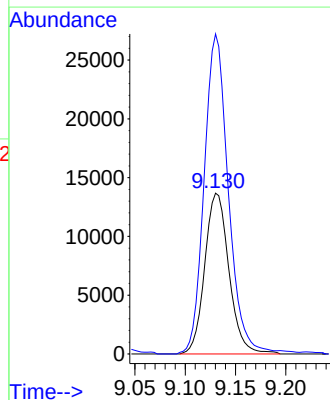
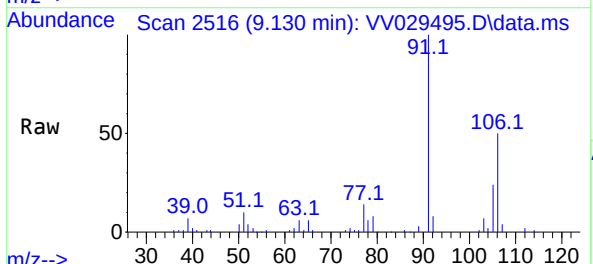
Acq: 09 Dec 2022 00:04

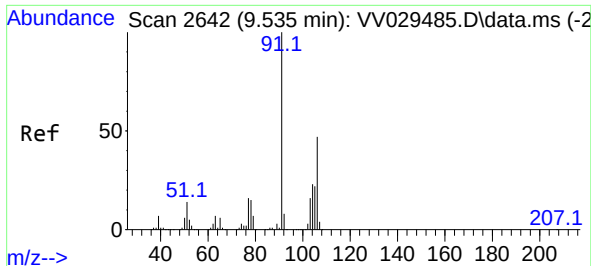
Tgt Ion: 106 Resp: 22935

Ion Ratio Lower Upper

106 100

91 198.9 139.5 259.1

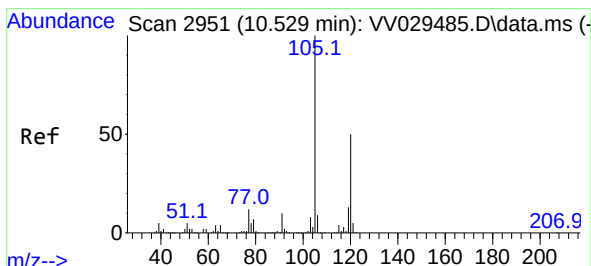
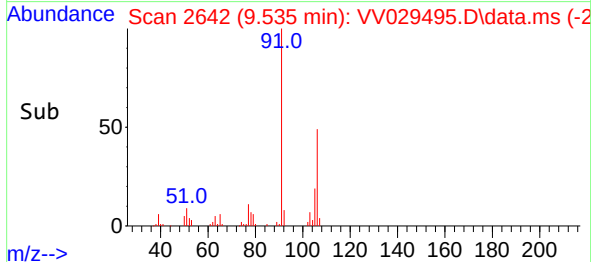
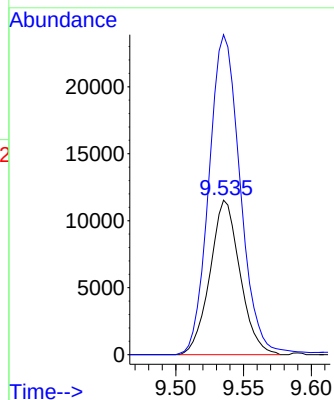
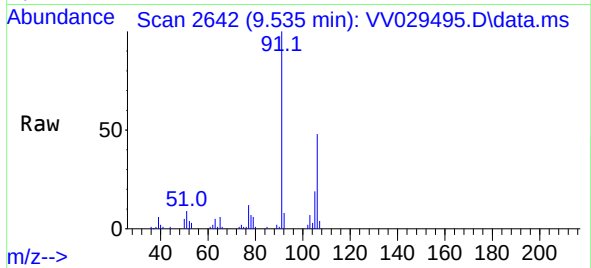




#54
o-Xylene
Concen: 3.166 ug/L
RT: 9.535 min Scan# 207
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

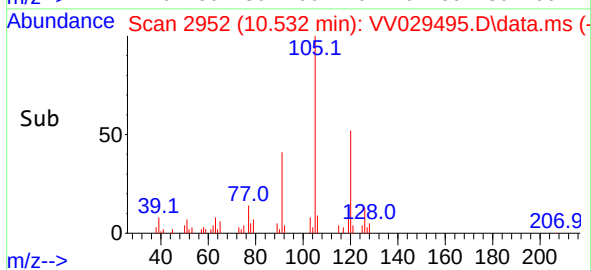
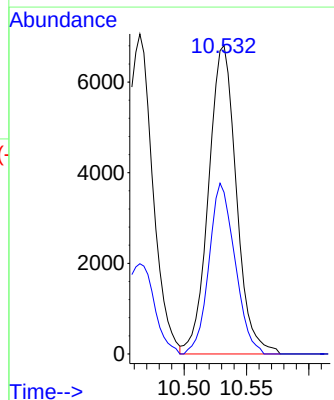
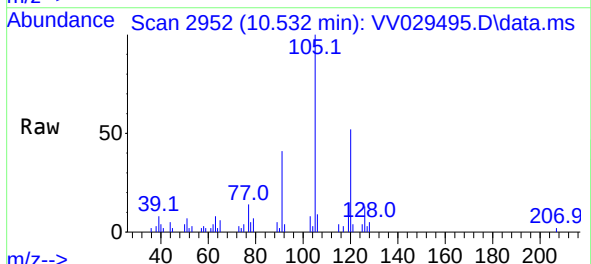
Instrument :
MSVOA_V
ClientSampleId :
F5N04

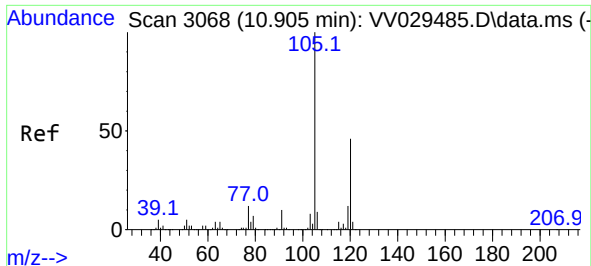
Tgt Ion:106 Resp: 17782
Ion Ratio Lower Upper
106 100
91 207.1 148.0 274.8



#62
1,3,5-Trimethylbenzene
Concen: 0.794 ug/L
RT: 10.532 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion:105 Resp: 10567
Ion Ratio Lower Upper
105 100
120 51.8 40.0 60.0

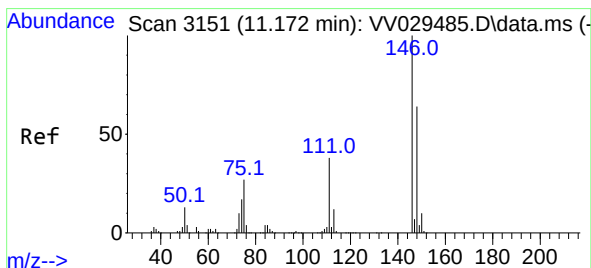
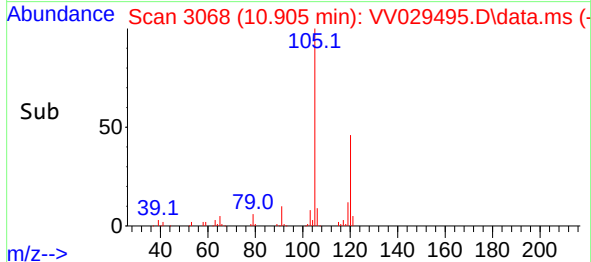
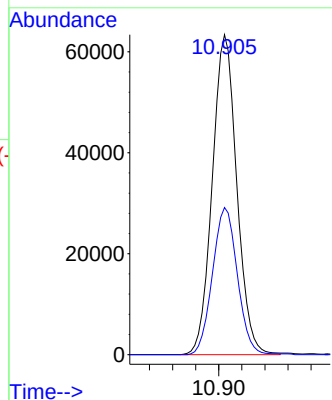
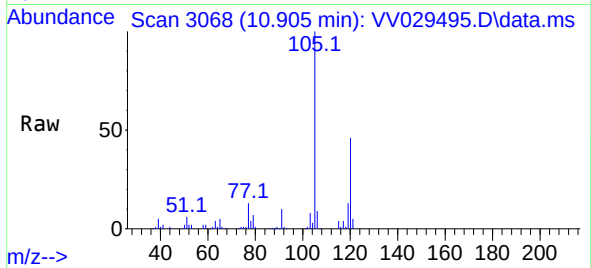




#63
1,2,4-Trimethylbenzene
Concen: 7.082 ug/L
RT: 10.905 min Scan# 3068
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

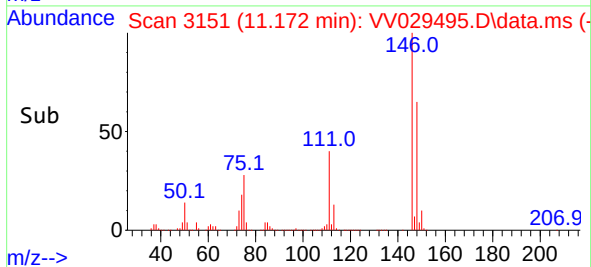
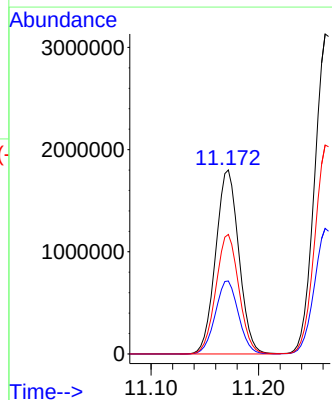
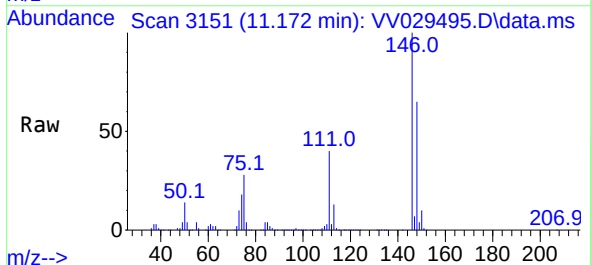
Instrument :
MSVOA_V
ClientSampleId :
F5N04

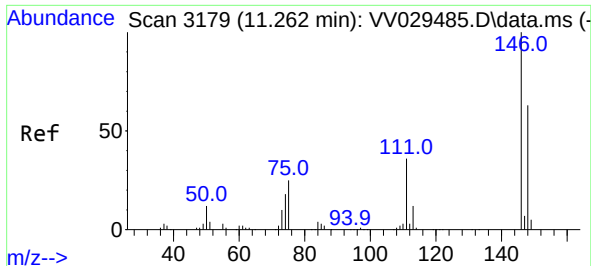
Tgt Ion:105 Resp: 93432
Ion Ratio Lower Upper
105 100
120 46.6 36.7 55.1



#64
1,3-Dichlorobenzene
Concen: 367.411 ug/L
RT: 11.172 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion:146 Resp: 2704077
Ion Ratio Lower Upper
146 100
111 39.7 27.4 51.0
148 65.0 44.6 82.8

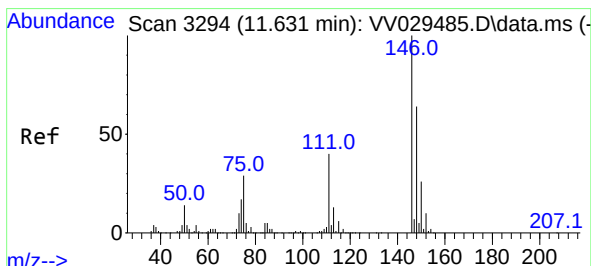
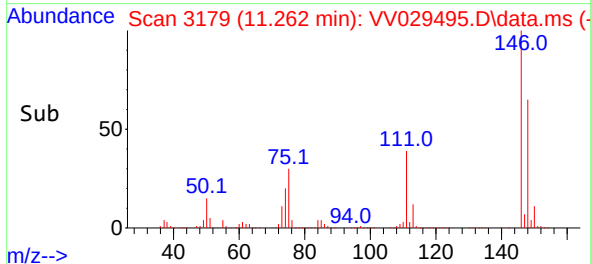
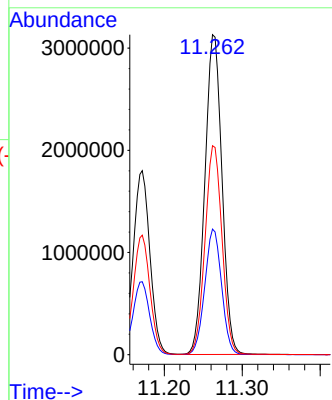
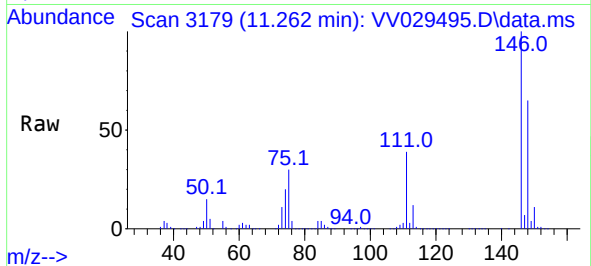




#65
1,4-Dichlorobenzene
Concen: 637.596 ug/L
RT: 11.262 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

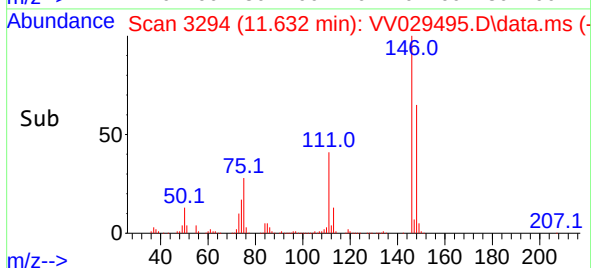
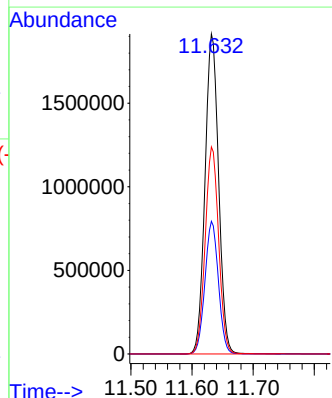
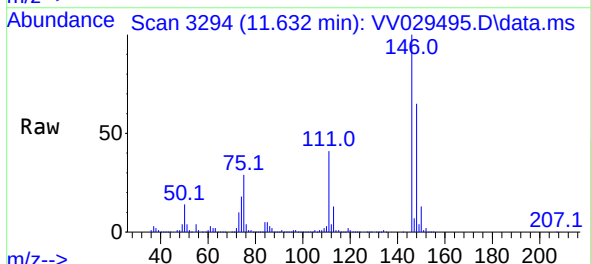
Instrument :
MSVOA_V
ClientSampleId :
F5N04

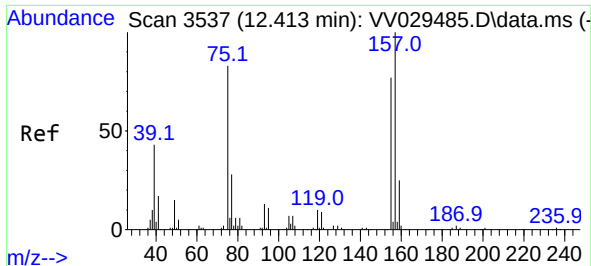
Tgt Ion:146 Resp: 4769053
Ion Ratio Lower Upper
146 100
111 39.3 26.2 48.8
148 65.3 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 392.042 ug/L
RT: 11.632 min Scan# 3294
Delta R.T. -0.000 min
Lab File: VV029495.D
Acq: 09 Dec 2022 00:04

Tgt Ion:146 Resp: 2950526
Ion Ratio Lower Upper
146 100
111 41.4 32.0 48.0
148 64.7 50.6 76.0





#68

1,2-Dibromo-3-chloropropane

Concen: 1.417 ug/L

RT: 12.400 min Scan# 31

Delta R.T. -0.016 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Instrument :

MSVOA_V

ClientSampleId :

F5N04

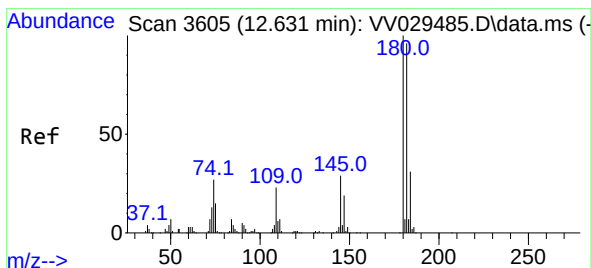
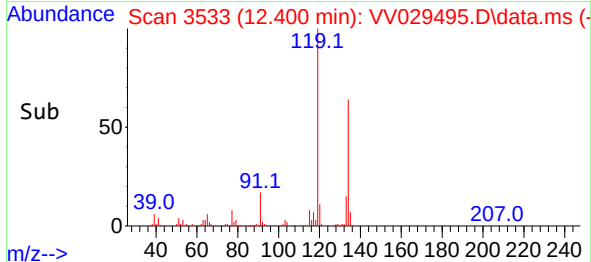
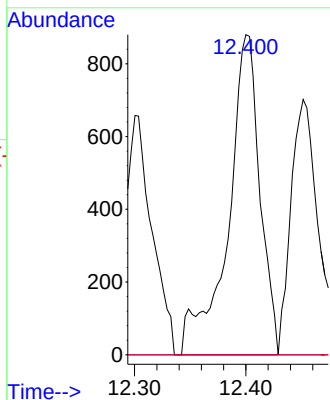
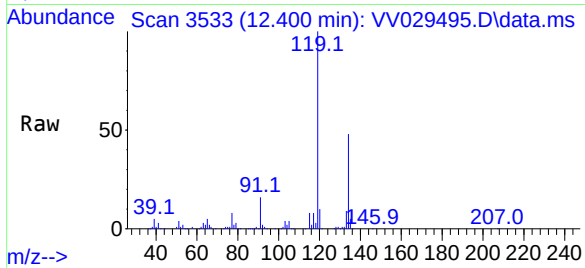
Tgt Ion: 75 Resp: 1743

Ion Ratio Lower Upper

75 100

155 0.0 76.2 114.2#

157 0.0 96.0 144.0#



#69

1,3,5-Trichlorobenzene

Concen: 1.133 ug/L

RT: 13.249 min Scan# 3797

Delta R.T. 0.617 min

Lab File: VV029495.D

Acq: 09 Dec 2022 00:04

Tgt Ion:180 Resp: 6634

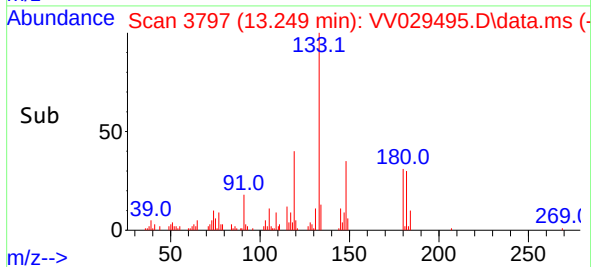
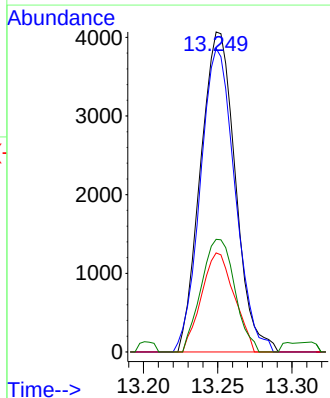
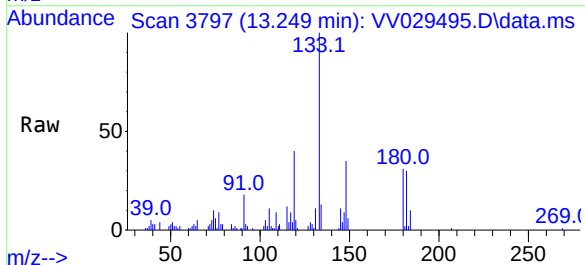
Ion Ratio Lower Upper

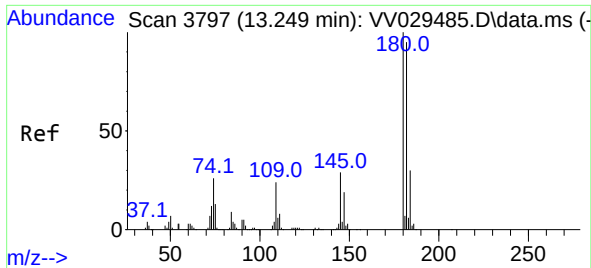
180 100

182 93.5 76.5 114.7

184 29.1 24.6 36.8

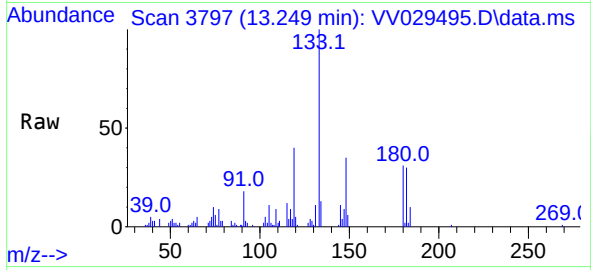
145 34.0 23.0 34.6





#70
 1,2,4-trichlorobenzene
 Concen: 1.274 ug/L
 RT: 13.249 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV029495.D
 Acq: 09 Dec 2022 00:04

Instrument :
 MSVOA_V
 ClientSampleId :
 F5N04



Tgt Ion:180 Resp: 6634

Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.3	114.5
145	34.0	23.7	35.5

