

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121323\
 Data File : VW033294.D
 Acq On : 13 Dec 2023 22:20
 Operator : SY/MD
 Sample : 05731-20
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EOY66

Quant Time: Dec 13 23:37:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Dec 13 23:30:39 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.535	114	122689	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	117493	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	62196	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	37450	4.761	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.200%
7) Chloroethane-d5	1.532	69	29370	5.021	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.400%
11) 1,1-Dichloroethene-d2	2.060	65	15219	4.862	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.200%
20) 2-Butanone-d5	3.806	46	49930	53.645	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.280%
24) Chloroform-d	4.249	84	83838	5.111	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.200%
26) 1,2-Dichloroethane-d4	4.944	65	40763	5.718	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.400%
32) Benzene-d6	4.963	84	162944	5.361	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.200%
36) 1,2-Dichloropropane-d6	5.989	67	39062	5.646	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.000%
41) Toluene-d8	7.243	98	149543	5.049	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.000%
43) trans-1,3-Dichloroprop...	7.558	79	15610	4.946	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.000%
46) 2-Hexanone-d5	8.027	63	52100	59.133	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.260%
56) 1,1,2,2-Tetrachloroeth...	10.153	84	26379	5.638	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.800%
66) 1,2-Dichlorobenzene-d4	11.561	152	62021	5.662	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	2176	0.249	ug/L	88
13) Acetone	2.137	43	1725	2.619	ug/L #	58
14) Carbon disulfide	2.246	76	2113	0.092	ug/L #	91
15) Methyl Acetate	2.442	43	554	0.317	ug/L #	49
22) cis-1,2-Dichloroethene	3.825	96	1542	0.175	ug/L #	69
25) Chloroform	4.281	83	8494	0.540	ug/L	98
27) 1,2-Dichloroethane	4.957	62	927	0.107	ug/L #	72
30) Cyclohexane	4.580	56	2878	0.277	ug/L #	82
33) Benzene	5.021	78	8471	0.269	ug/L	100
34) Trichloroethene	5.841	95	5085	0.554	ug/L	85
35) Methylcyclohexane	6.050	83	4948	0.364	ug/L	87
37) 1,2-Dichloropropane	5.989	63	4927	0.778	ug/L #	81
38) Bromodichloromethane	6.439	83	1107	0.109	ug/L #	90
39) cis-1,3-Dichloropropene	6.915	75	1155	0.112	ug/L #	60
42) Toluene	7.320	91	27311	0.757	ug/L	92
44) trans-1,3-Dichloropropene	7.561	75	694	0.081	ug/L	91
47) Tetrachloroethene	7.908	164	1886	0.217	ug/L	97
52) Ethylbenzene	8.953	91	9118	0.226	ug/L	89
53) m,p-Xylene	9.075	106	5339	0.321	ug/L	73

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121323\
Data File : VV033294.D
Acq On : 13 Dec 2023 22:20
Operator : SY/MD
Sample : 05731-20
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
E0Y66

Quant Time: Dec 13 23:37:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 23:30:39 2023
Response via : Initial Calibration

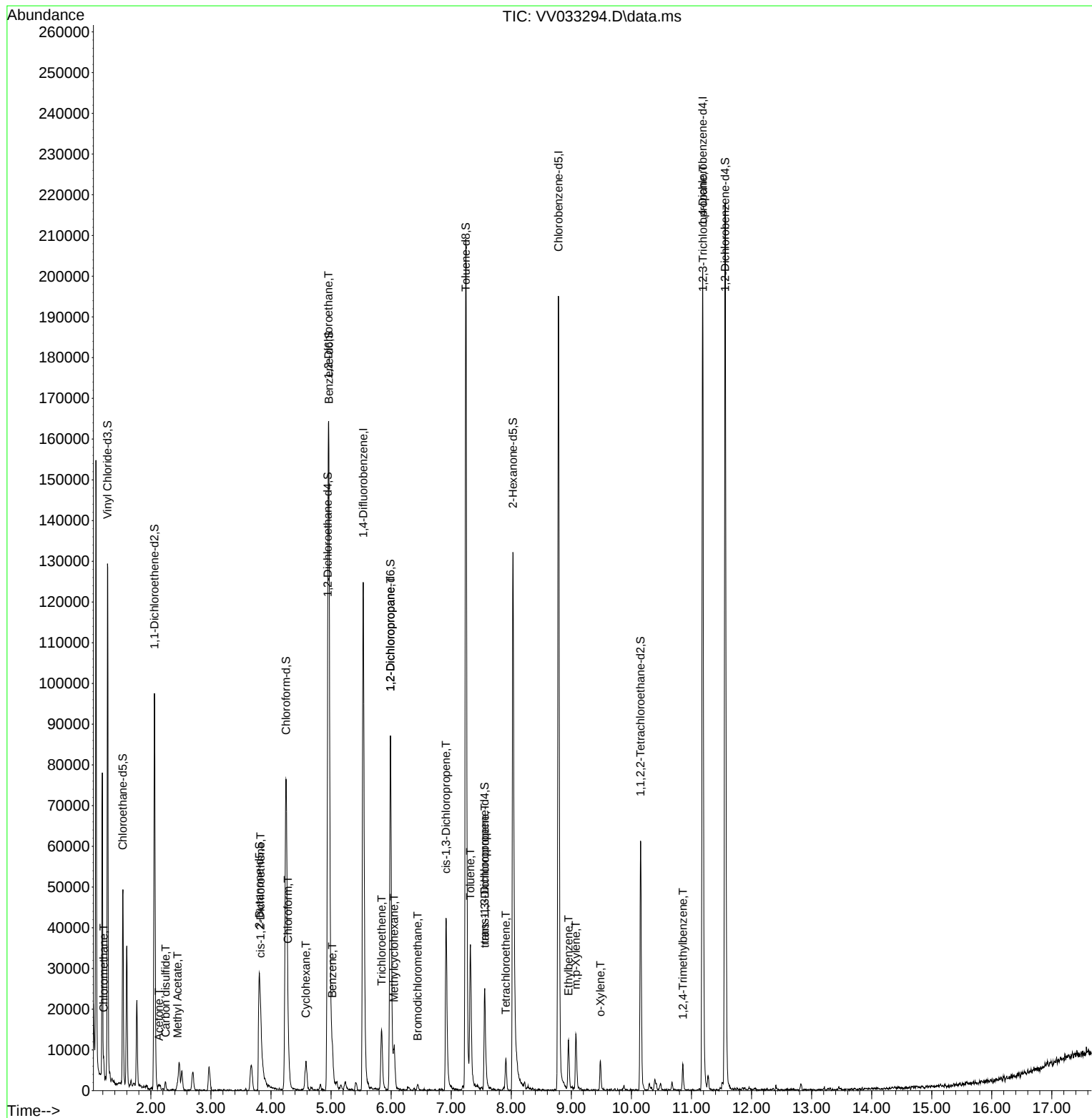
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	9.484	106	2157	0.137	ug/L	84
61) 1,2,3-Trichloropropane	11.191	75	4798	1.456	ug/L #	56
63) 1,2,4-Trimethylbenzene	10.857	105	4051	0.122	ug/L	95

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

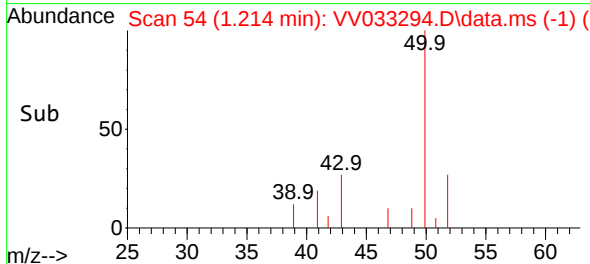
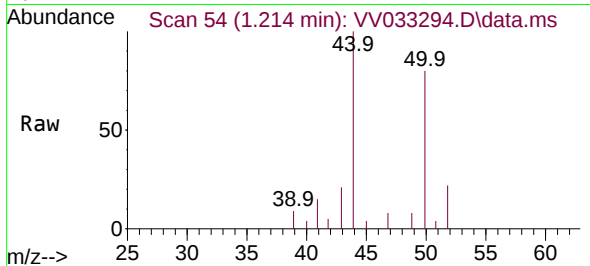
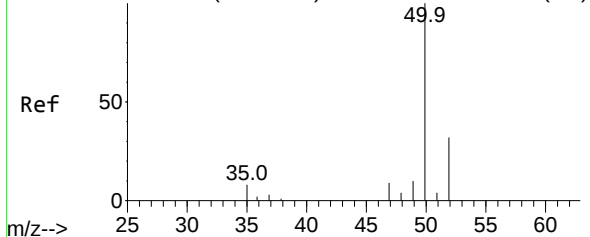
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV121323\
Data File : VV033294.D
Acq On : 13 Dec 2023 22:20
Operator : SY/MD
Sample : 05731-20
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EOY66

Quant Time: Dec 13 23:37:43 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121323WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Dec 13 23:30:39 2023
Response via : Initial Calibration



Abundance Scan 54 (1.214 min): VV033275.D\data.ms (-46)



#3

Chloromethane

Concen: 0.249 ug/L

RT: 1.214 min Scan# 54

Delta R.T. 0.000 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

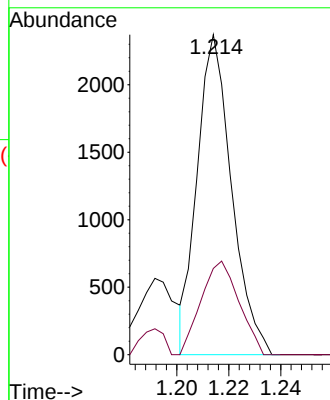
E0Y66

Tgt Ion: 50 Resp: 2176

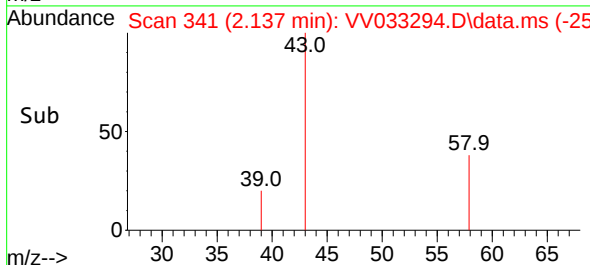
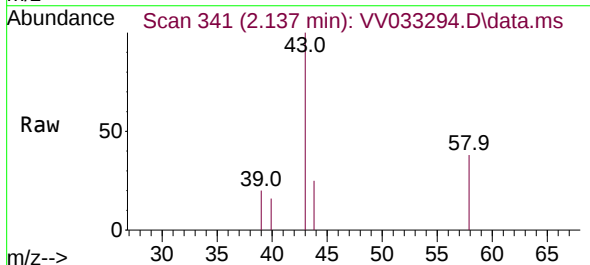
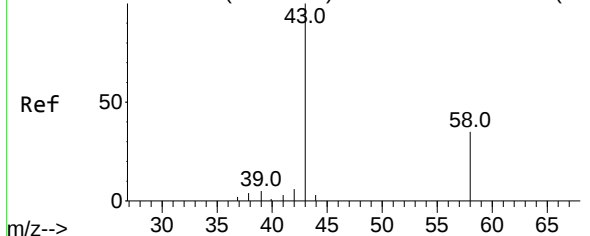
Ion Ratio Lower Upper

50 100

52 27.0 23.8 44.2



Abundance Scan 350 (2.166 min): VV033275.D\data.ms (-33)



#13

Acetone

Concen: 2.619 ug/L

RT: 2.137 min Scan# 341

Delta R.T. -0.029 min

Lab File: VV033294.D

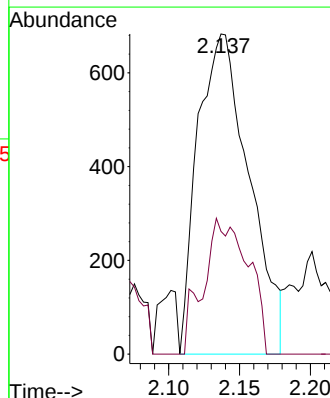
Acq: 13 Dec 2023 22:20

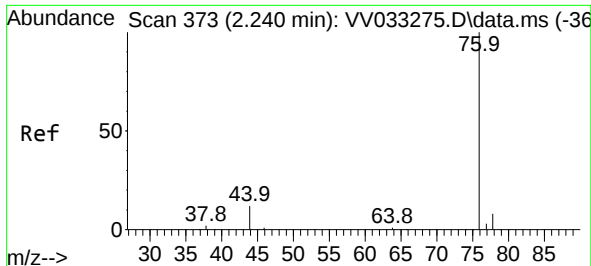
Tgt Ion: 43 Resp: 1725

Ion Ratio Lower Upper

43 100

58 32.8 0.0 30.2#

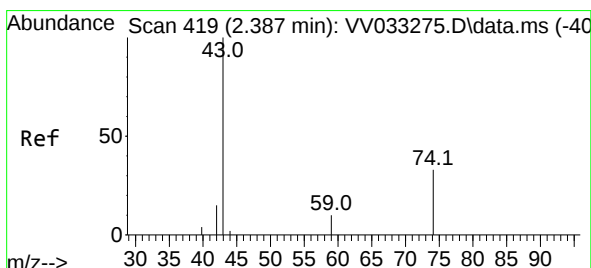
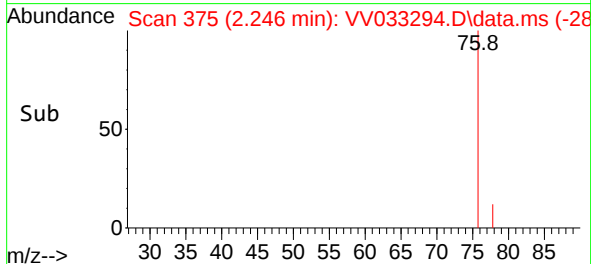
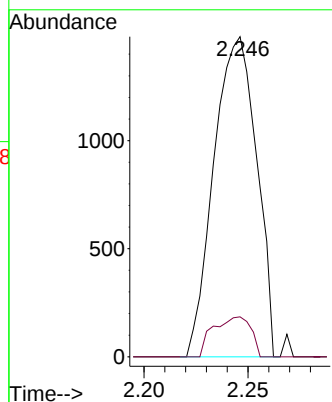
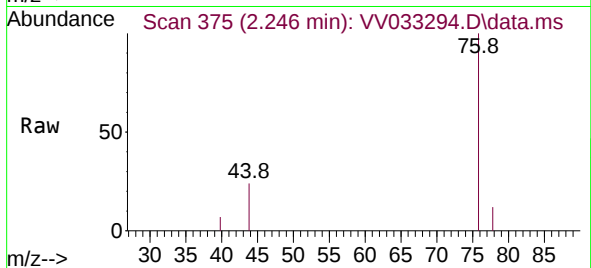




#14
Carbon disulfide
Concen: 0.092 ug/L
RT: 2.246 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV033294.D
Acq: 13 Dec 2023 22:20

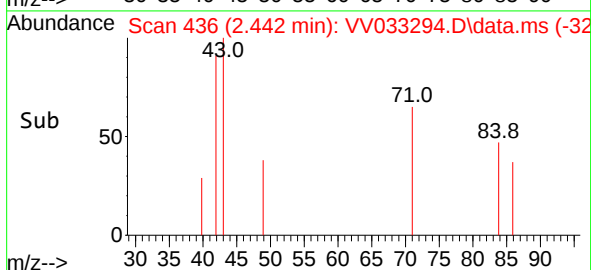
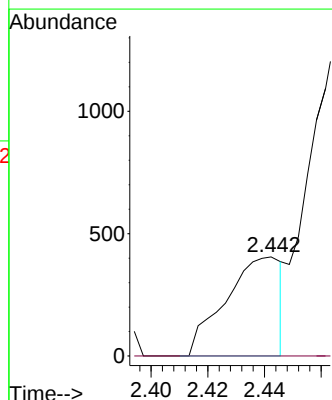
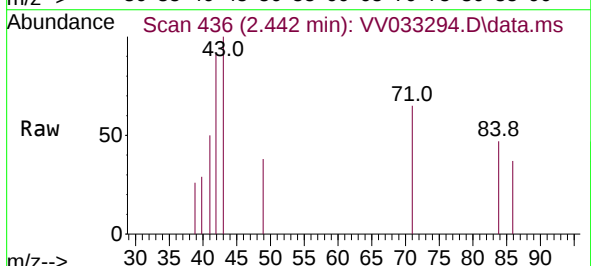
Instrument :
MSVOA_V
ClientSampleId :
E0Y66

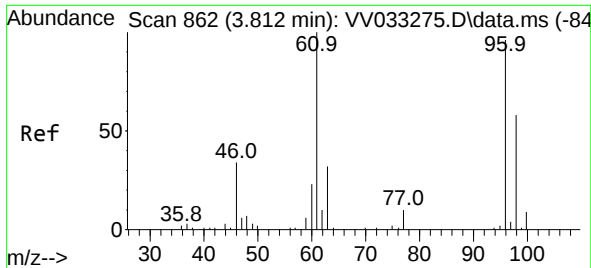
Tgt Ion: 76 Resp: 2113
Ion Ratio Lower Upper
76 100
78 12.5 7.4 11.0#



#15
Methyl Acetate
Concen: 0.317 ug/L
RT: 2.442 min Scan# 436
Delta R.T. 0.055 min
Lab File: VV033294.D
Acq: 13 Dec 2023 22:20

Tgt Ion: 43 Resp: 554
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.6#





#22

cis-1,2-Dichloroethene

Concen: 0.175 ug/L

RT: 3.825 min Scan# 8

Delta R.T. 0.013 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

E0Y66

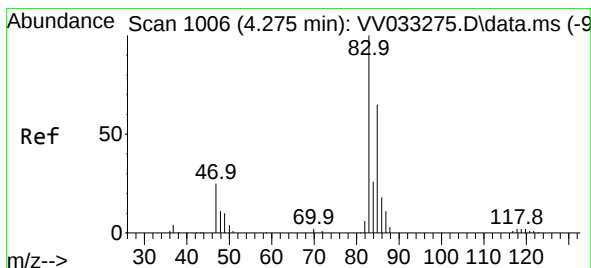
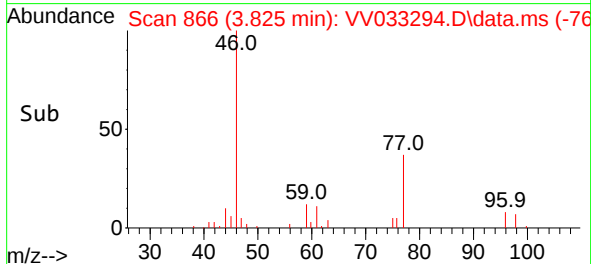
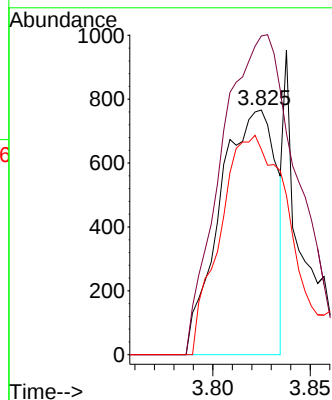
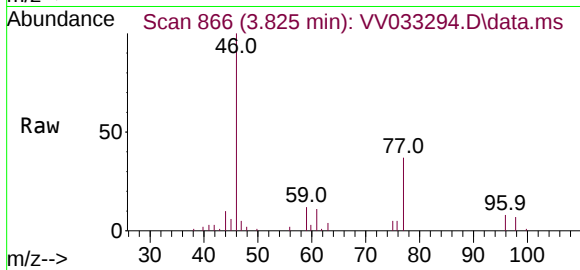
Tgt Ion: 96 Resp: 1542

Ion Ratio Lower Upper

96 100

61 130.3 69.9 129.9#

98 83.9 42.4 78.8#



#25

Chloroform

Concen: 0.540 ug/L

RT: 4.281 min Scan# 1008

Delta R.T. 0.007 min

Lab File: VV033294.D

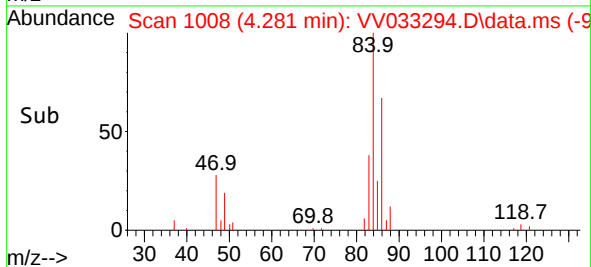
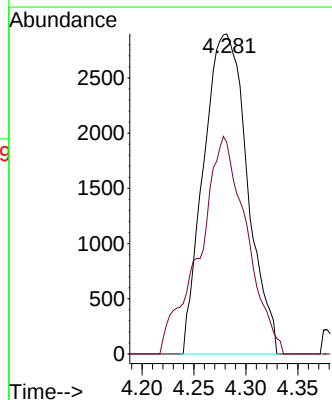
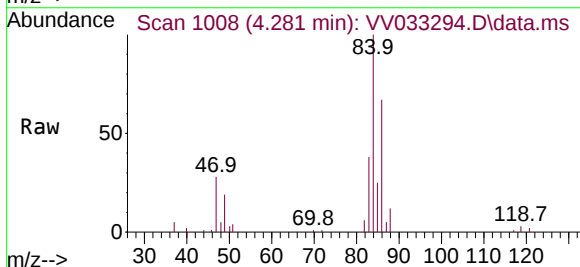
Acq: 13 Dec 2023 22:20

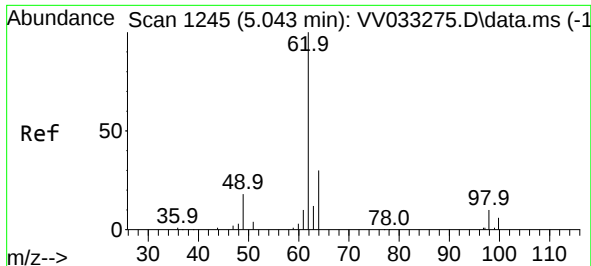
Tgt Ion: 83 Resp: 8494

Ion Ratio Lower Upper

83 100

85 66.1 45.3 84.1





#27

1,2-Dichloroethane

Concen: 0.107 ug/L

RT: 4.957 min Scan# 11

Delta R.T. -0.087 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

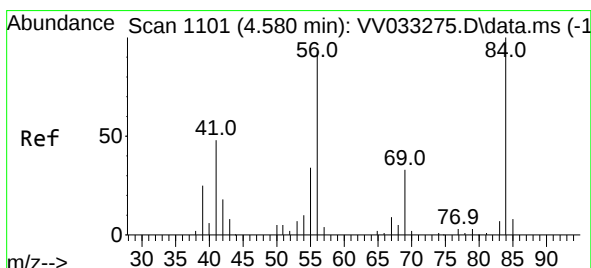
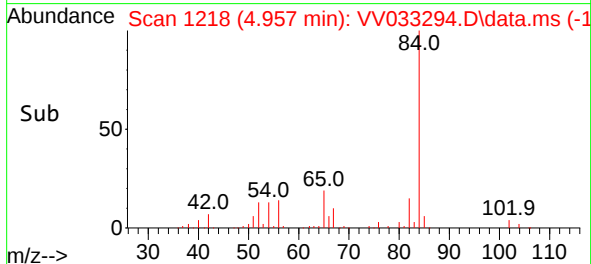
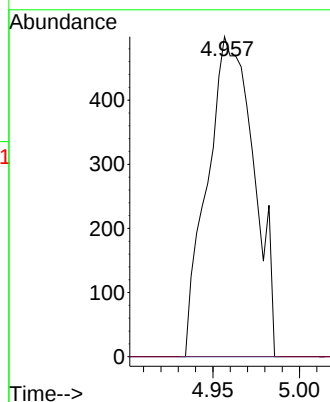
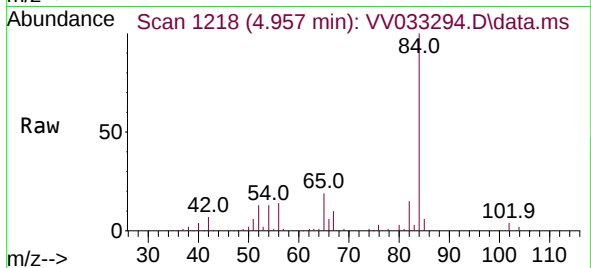
E0Y66

Tgt Ion: 62 Resp: 927

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#30

Cyclohexane

Concen: 0.277 ug/L

RT: 4.580 min Scan# 1101

Delta R.T. 0.000 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

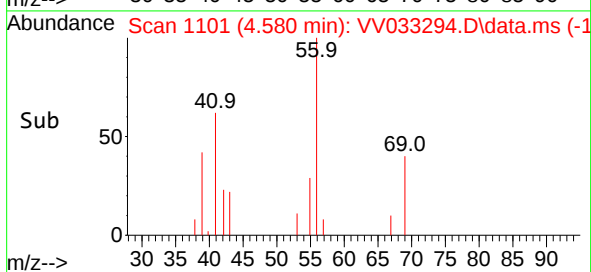
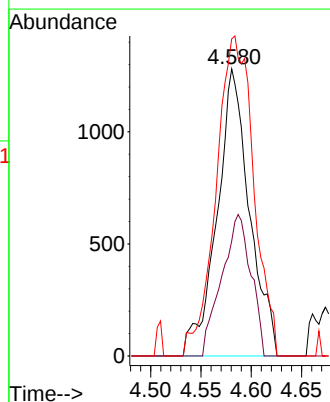
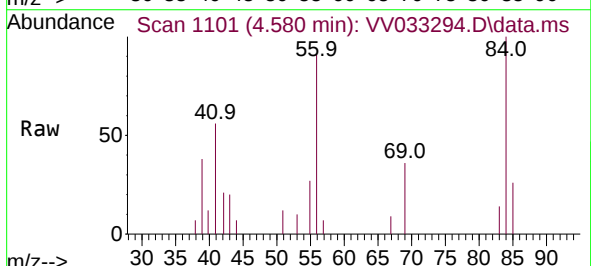
Tgt Ion: 56 Resp: 2878

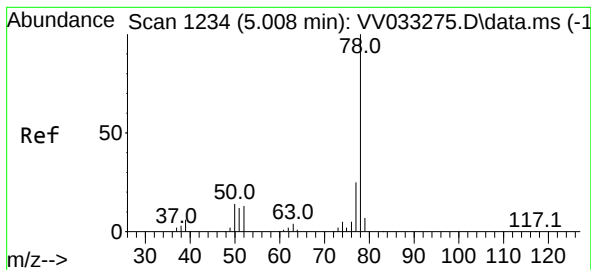
Ion Ratio Lower Upper

56 100

69 44.1 28.8 43.2#

84 128.4 86.2 129.4





#33

Benzene

Concen: 0.269 ug/L

RT: 5.021 min Scan# 1

Delta R.T. 0.013 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

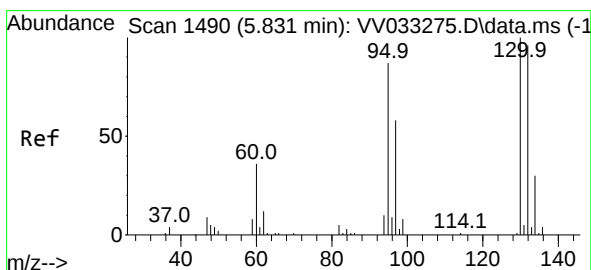
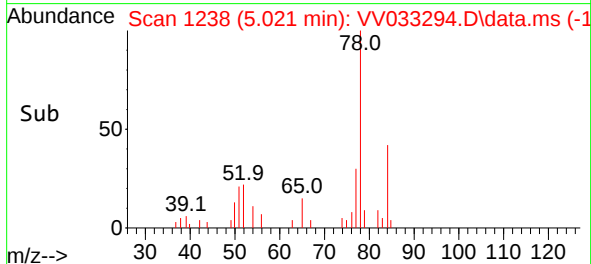
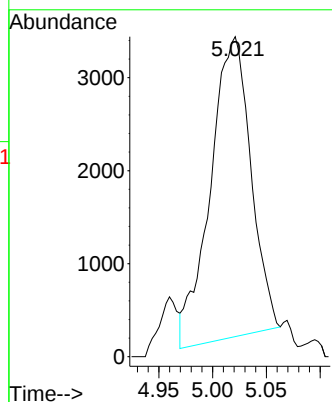
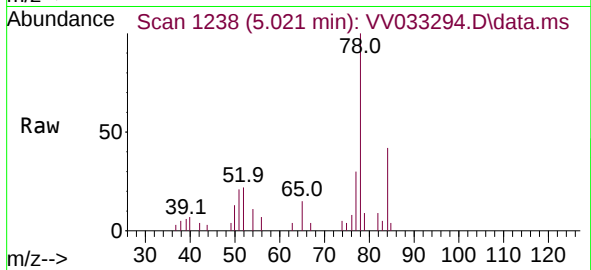
Instrument :

MSVOA_V

ClientSampleId :

E0Y66

Tgt Ion: 78 Resp: 8471



#34

Trichloroethene

Concen: 0.554 ug/L

RT: 5.841 min Scan# 1493

Delta R.T. 0.010 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Tgt Ion: 95 Resp: 5085

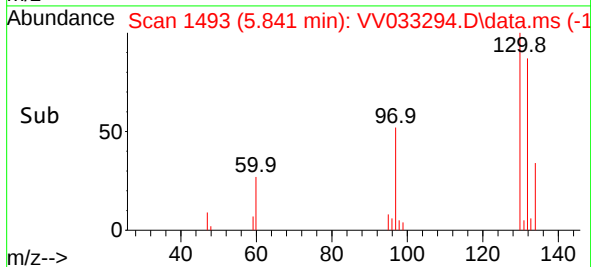
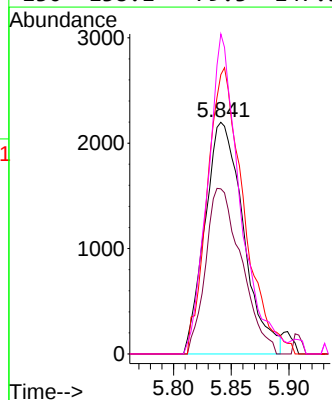
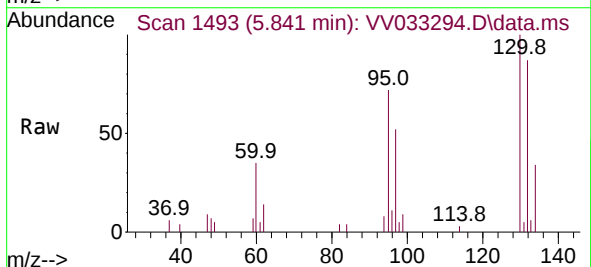
Ion Ratio Lower Upper

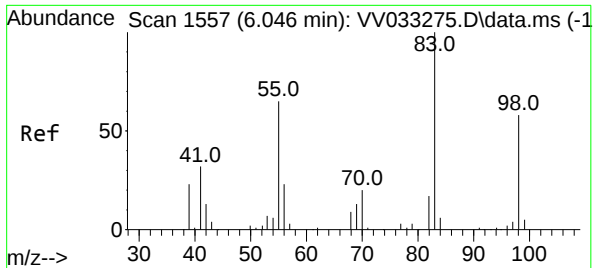
95 100

97 71.3 46.5 86.5

132 120.6 75.1 139.5

130 138.1 79.3 147.3

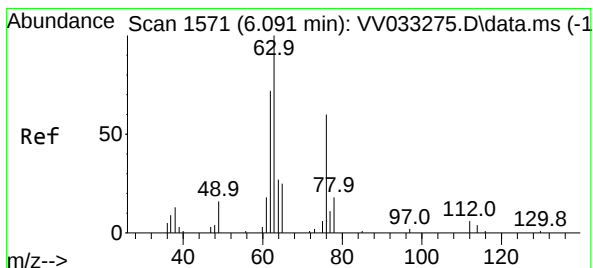
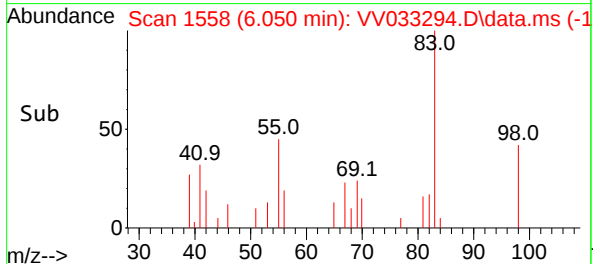
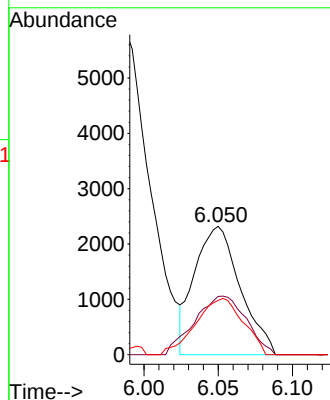
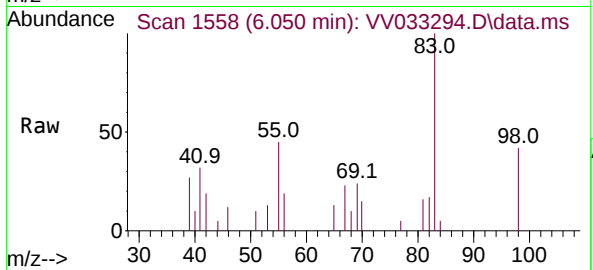




#35
Methylcyclohexane
Concen: 0.364 ug/L
RT: 6.050 min Scan# 1557
Delta R.T. 0.003 min
Lab File: VV033294.D
Acq: 13 Dec 2023 22:20

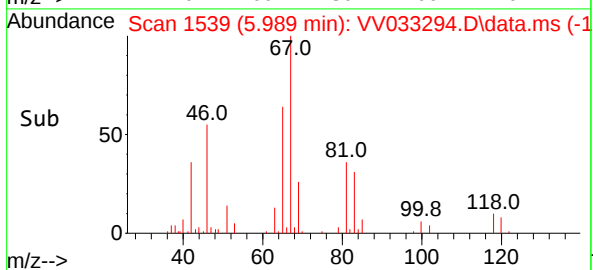
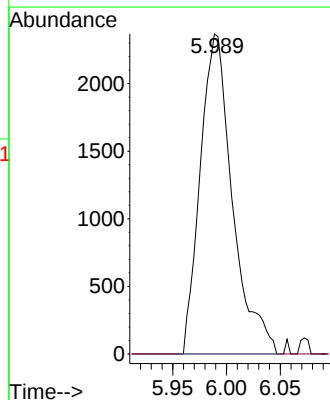
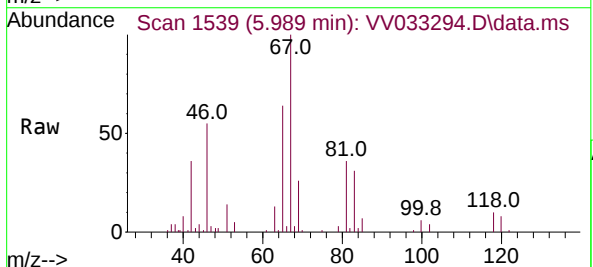
Instrument :
MSVOA_V
ClientSampleId :
E0Y66

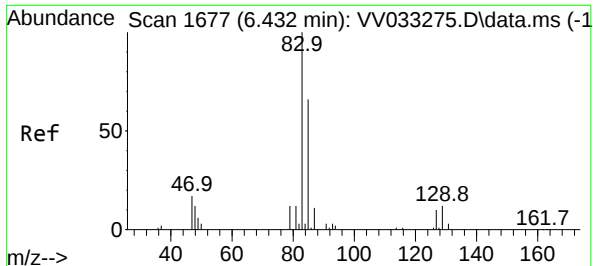
Tgt Ion:	83	Resp:	4948
Ion	Ratio	Lower	Upper
83	100		
55	51.7	50.7	76.1
98	45.6	42.4	63.6



#37
1,2-Dichloropropane
Concen: 0.778 ug/L
RT: 5.989 min Scan# 1539
Delta R.T. -0.103 min
Lab File: VV033294.D
Acq: 13 Dec 2023 22:20

Tgt Ion:	63	Resp:	4927
Ion	Ratio	Lower	Upper
63	100		
112	0.0	5.0	7.6#





#38

Bromodichloromethane

Concen: 0.109 ug/L

RT: 6.439 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

E0Y66

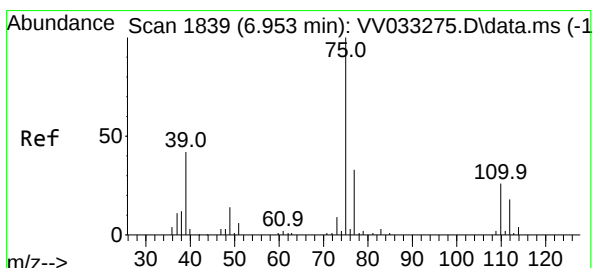
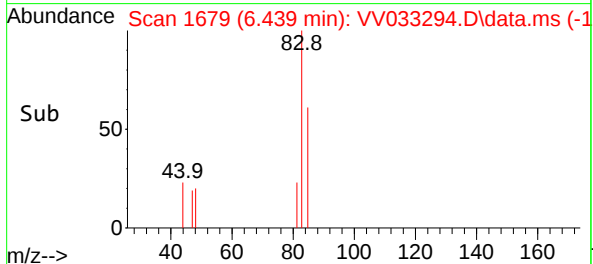
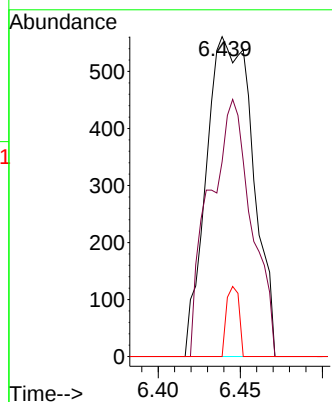
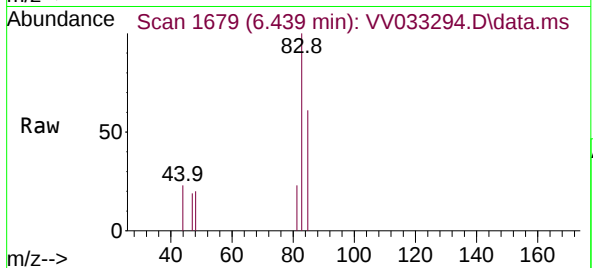
Tgt Ion: 83 Resp: 1107

Ion Ratio Lower Upper

83 100

85 61.0 46.6 86.6

127 0.0 8.6 13.0#



#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 6.915 min Scan# 1827

Delta R.T. -0.038 min

Lab File: VV033294.D

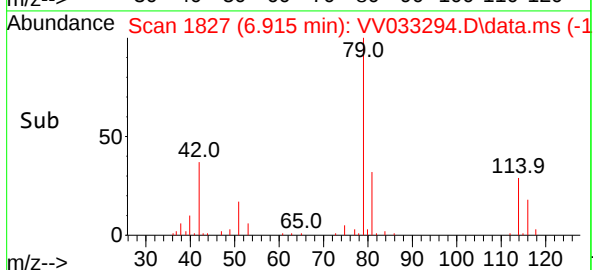
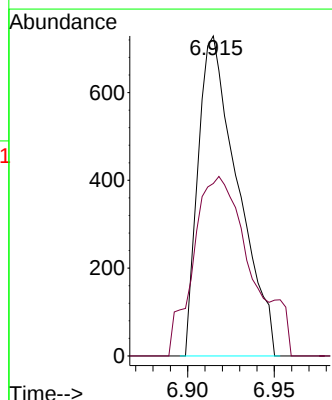
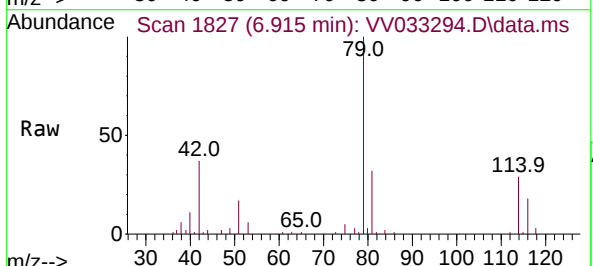
Acq: 13 Dec 2023 22:20

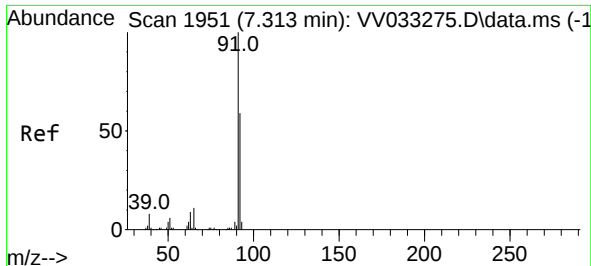
Tgt Ion: 75 Resp: 1155

Ion Ratio Lower Upper

75 100

77 53.9 22.1 41.1#





#42

Toluene

Concen: 0.757 ug/L

RT: 7.320 min Scan# 1951

Delta R.T. 0.007 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

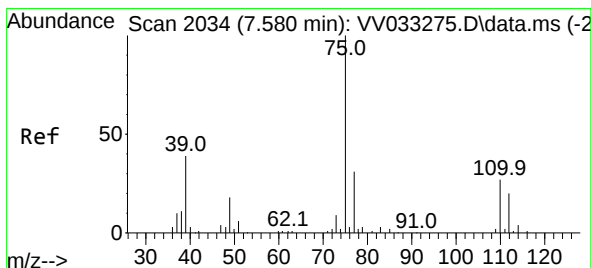
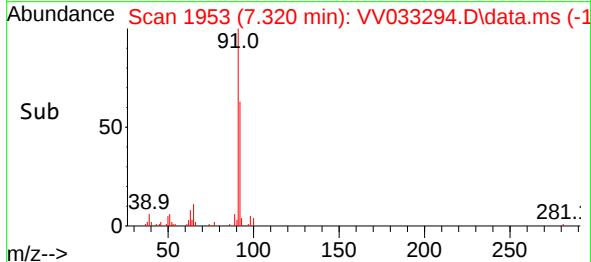
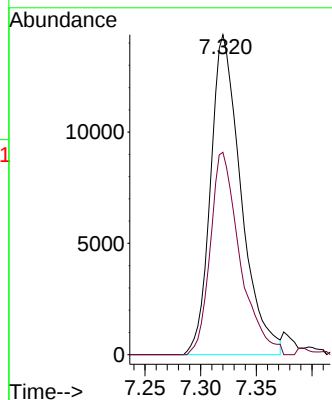
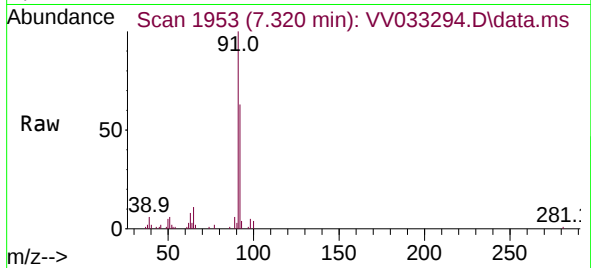
E0Y66

Tgt Ion: 91 Resp: 27311

Ion Ratio Lower Upper

91 100

92 63.3 40.2 74.6



#44

trans-1,3-Dichloropropene

Concen: 0.081 ug/L

RT: 7.561 min Scan# 2028

Delta R.T. -0.019 min

Lab File: VV033294.D

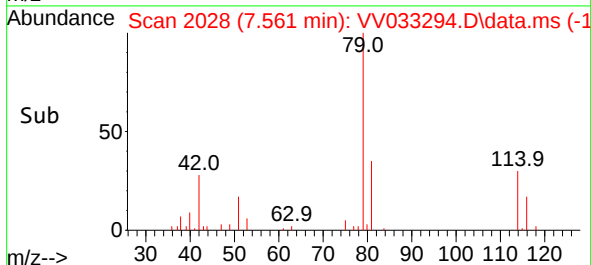
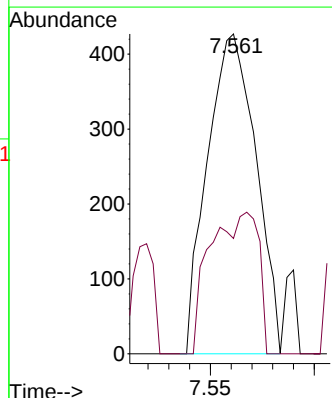
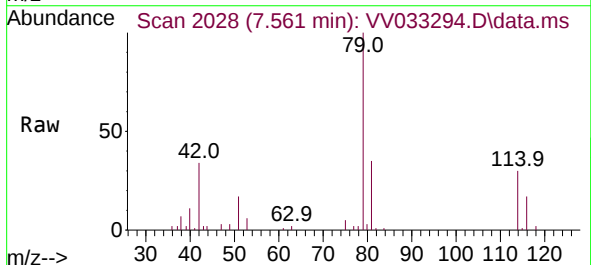
Acq: 13 Dec 2023 22:20

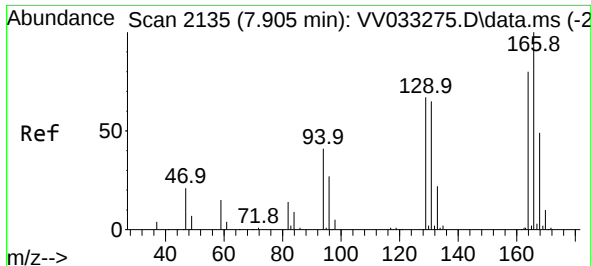
Tgt Ion: 75 Resp: 694

Ion Ratio Lower Upper

75 100

77 36.1 21.7 40.3





#47

Tetrachloroethene

Concen: 0.217 ug/L

RT: 7.908 min Scan# 2135

Delta R.T. 0.003 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

E0Y66

Tgt Ion:164 Resp: 1886

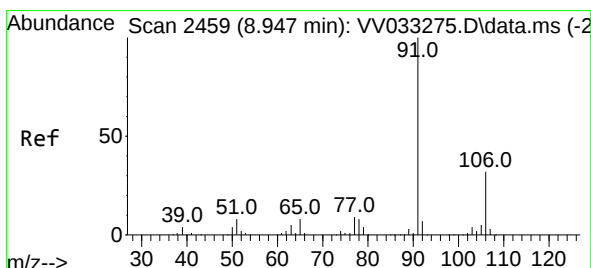
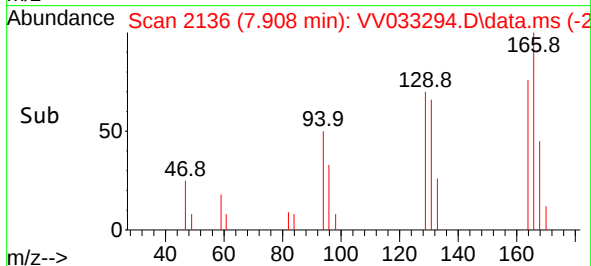
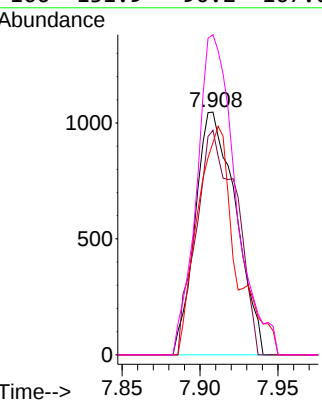
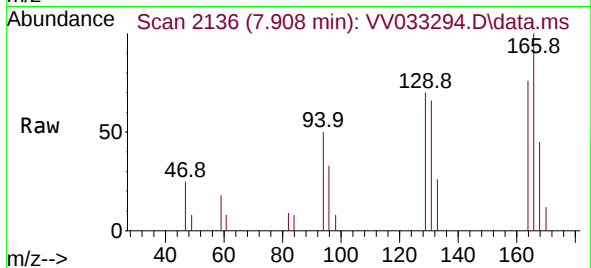
Ion Ratio Lower Upper

164 100

129 92.5 62.6 116.3

131 87.5 62.6 116.3

166 131.9 90.2 167.6



#52

Ethylbenzene

Concen: 0.226 ug/L

RT: 8.953 min Scan# 2461

Delta R.T. 0.007 min

Lab File: VV033294.D

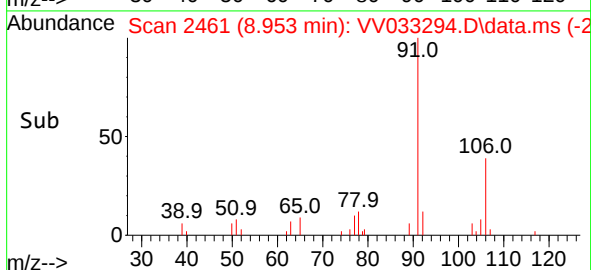
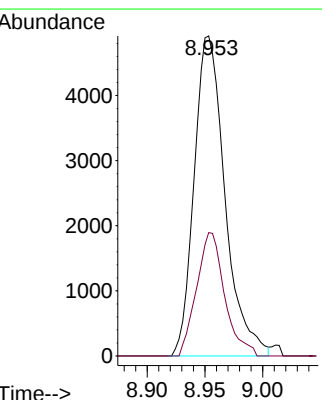
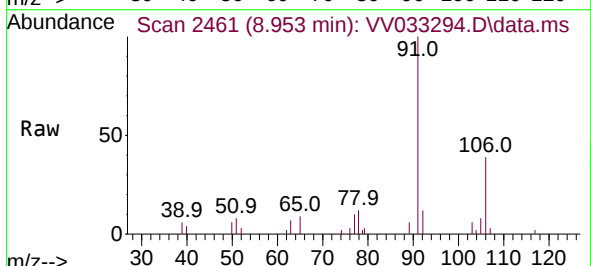
Acq: 13 Dec 2023 22:20

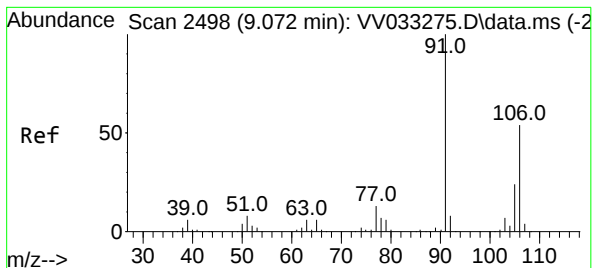
Tgt Ion: 91 Resp: 9118

Ion Ratio Lower Upper

91 100

106 38.6 22.7 42.3





#53

m,p-Xylene

Concen: 0.321 ug/L

RT: 9.075 min Scan# 2498

Delta R.T. 0.003 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

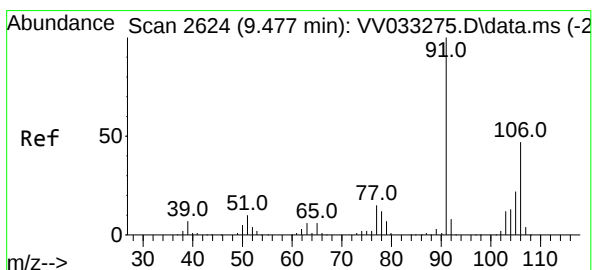
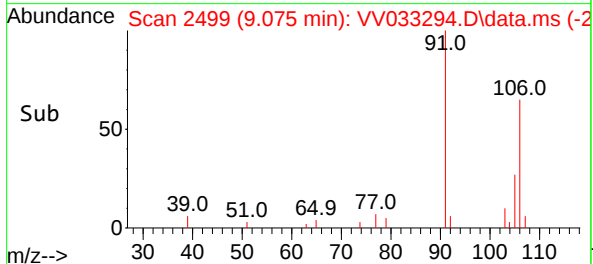
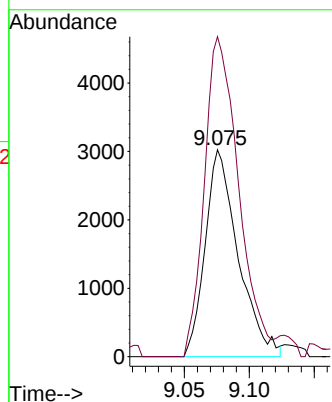
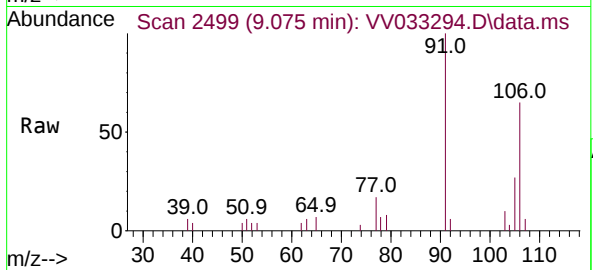
E0Y66

Tgt Ion:106 Resp: 5339

Ion Ratio Lower Upper

106 100

91 154.6 136.8 254.0



#54

o-Xylene

Concen: 0.137 ug/L

RT: 9.484 min Scan# 2626

Delta R.T. 0.007 min

Lab File: VV033294.D

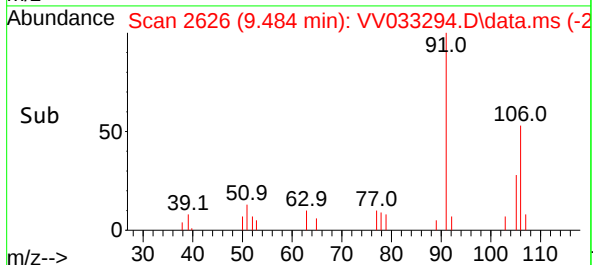
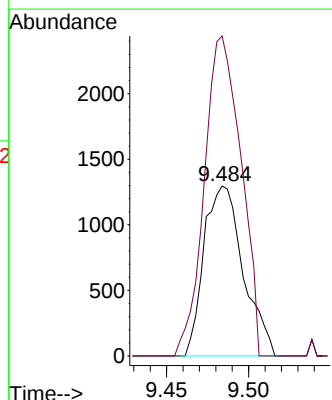
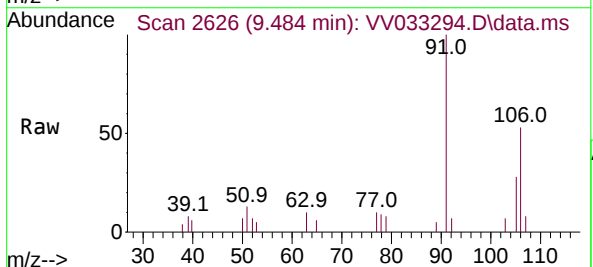
Acq: 13 Dec 2023 22:20

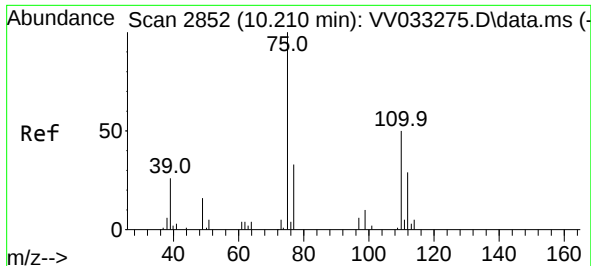
Tgt Ion:106 Resp: 2157

Ion Ratio Lower Upper

106 100

91 188.3 149.9 278.5





#61

1,2,3-Trichloropropane

Concen: 1.456 ug/L

RT: 11.191 min Scan# 3157

Delta R.T. 0.981 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Instrument :

MSVOA_V

ClientSampleId :

E0Y66

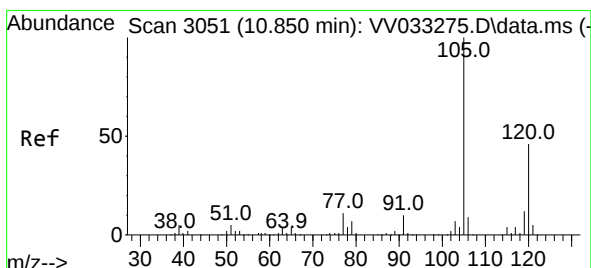
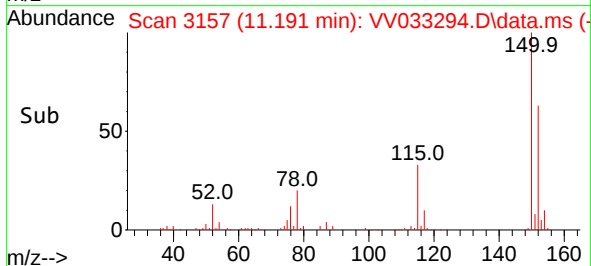
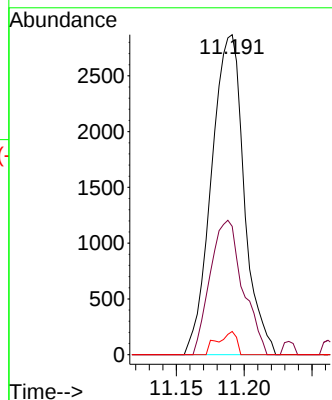
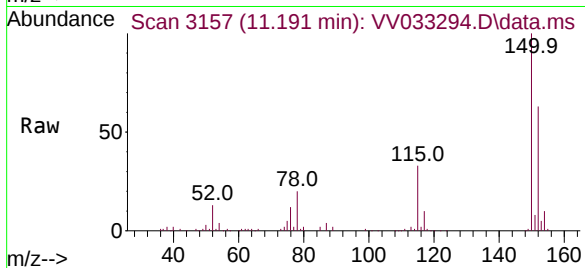
Tgt Ion: 75 Resp: 4798

Ion Ratio Lower Upper

75 100

77 42.0 27.4 41.2#

110 4.2 39.4 59.2#



#63

1,2,4-Trimethylbenzene

Concen: 0.122 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VV033294.D

Acq: 13 Dec 2023 22:20

Tgt Ion: 105 Resp: 4051

Ion Ratio Lower Upper

105 100

120 50.8 38.1 57.1

