

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023641.D
 Acq On : 19 Nov 2021 14:16
 Operator : SY/MD
 Sample : M4706-19
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:47:41 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Nov 22 01:44:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	108025	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	106661	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	47316	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	30644	4.528	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.600%
7) Chloroethane-d5	1.568	69	26494	4.804	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.000%
11) 1,1-Dichloroethene-d2	2.108	63	43551	3.438	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.800%
20) 2-Butanone-d5	3.918	46	41432	35.537	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.080%
24) Chloroform-d	4.349	84	66620	4.619	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.400%
26) 1,2-Dichloroethane-d4	5.037	65	31134	4.801	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.000%
32) Benzene-d6	5.053	84	119212	4.356	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.200%
36) 1,2-Dichloropropane-d6	6.069	67	36292	4.505	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.317	98	101161	3.945	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.800%
43) trans-1,3-Dichloroprop...	7.629	79	12473	4.083	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.600%
46) 2-Hexanone-d5	8.092	63	46221	41.125	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.240%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	25816	4.456	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	39515	5.015	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	1511	0.169	ug/L	98
5) Vinyl chloride	1.311	62	192	0.021	ug/L #	1
6) Bromomethane	1.519	94	20	0.003	ug/L #	3
8) Chloroethane	1.584	64	374	0.072	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.111	101	368	0.054	ug/L #	18
12) 1,1-Dichloroethene	2.105	96	391	0.061	ug/L #	1
13) Acetone	2.201	43	1239	1.739	ug/L	85
14) Carbon disulfide	2.298	76	284	0.012	ug/L #	75
15) Methyl Acetate	2.442	43	290	0.144	ug/L #	47
16) Methylene chloride	2.507	84	23423	2.492	ug/L	95
21) 2-Butanone	4.008	43	44	0.038	ug/L #	51
25) Chloroform	4.378	83	19499	1.368	ug/L	100
27) 1,2-Dichloroethane	5.056	62	878	0.116	ug/L #	72
33) Benzene	5.063	78	325	0.011	ug/L	100
35) Methylcyclohexane	6.072	83	8989	0.718	ug/L #	17
37) 1,2-Dichloropropane	6.069	63	4195	0.603	ug/L #	83
38) Bromodichloromethane	6.519	83	1636	0.175	ug/L #	91
39) cis-1,3-Dichloropropene	7.011	75	346	0.035	ug/L #	75
40) 4-Methyl-2-pentanone	7.249	43	70	0.022	ug/L #	44

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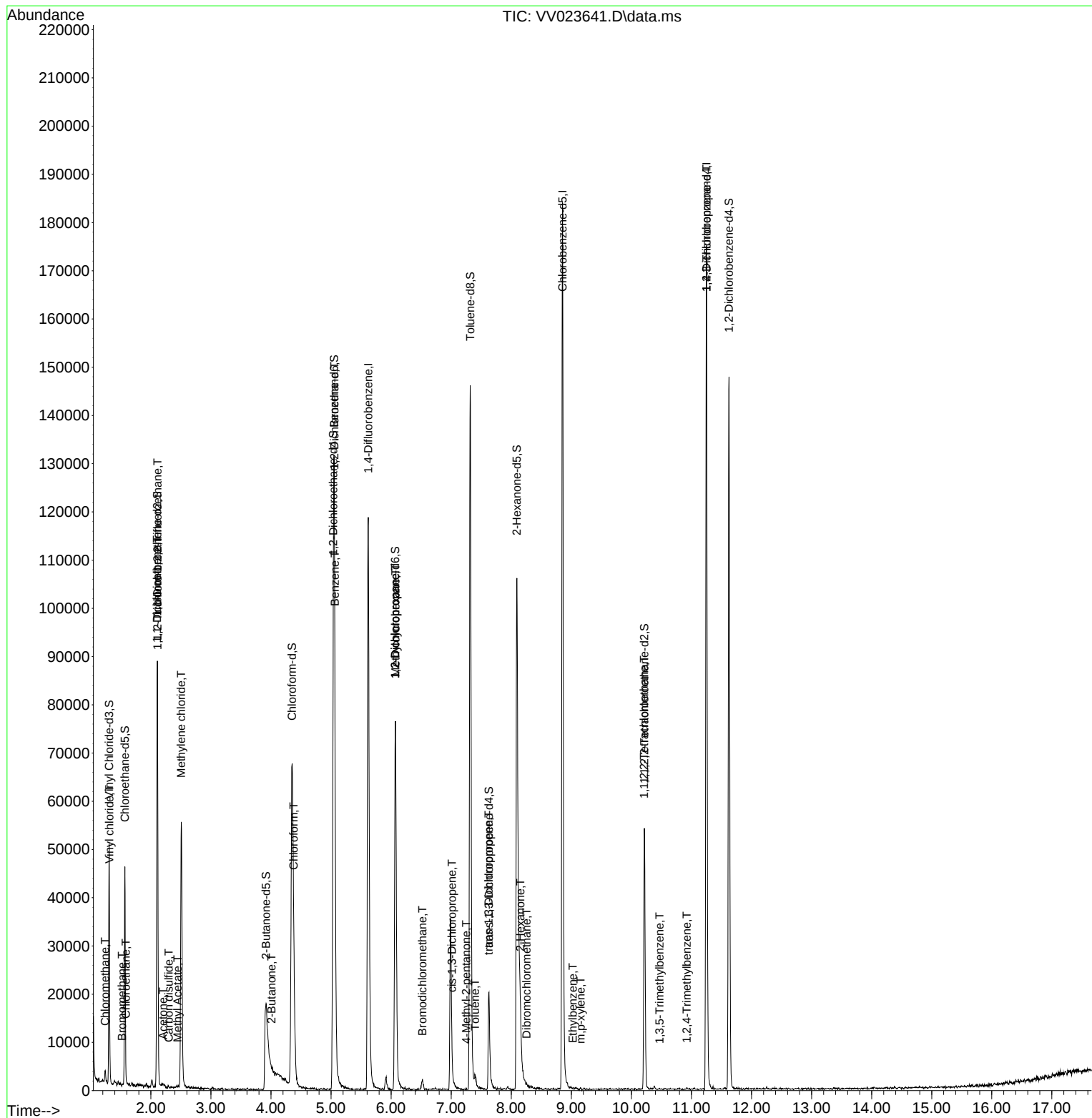
42) Toluene	7.397	91	1723	0.054	ug/L	97
44) trans-1,3-Dichloropropene	7.622	75	499	0.060	ug/L	88
48) 2-Hexanone	8.149	43	3736	1.652	ug/L #	89
49) Dibromochloromethane	8.256	129	47	0.007	ug/L #	10
52) Ethylbenzene	9.027	91	97	0.003	ug/L #	42
53) m,p-xylene	9.156	106	19	0.001	ug/L	83
57) 1,1,2,2-Tetrachloroethane	10.214	83	75	0.014	ug/L #	1
61) 1,2,3-Trichloropropane	11.249	75	5067	1.612	ug/L #	66
62) 1,3,5-Trimethylbenzene	10.468	105	20	0.001	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.921	105	154	0.007	ug/L #	30

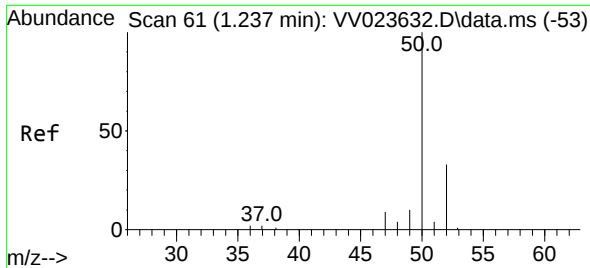
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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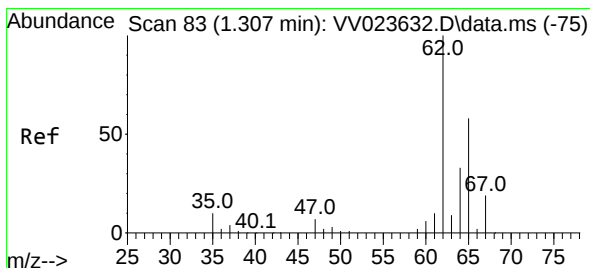
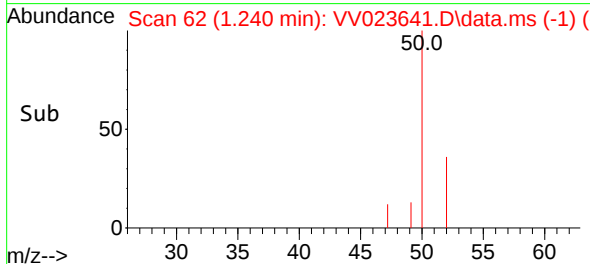
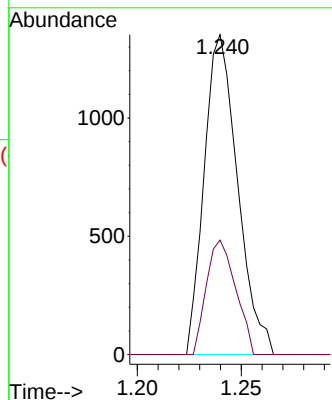
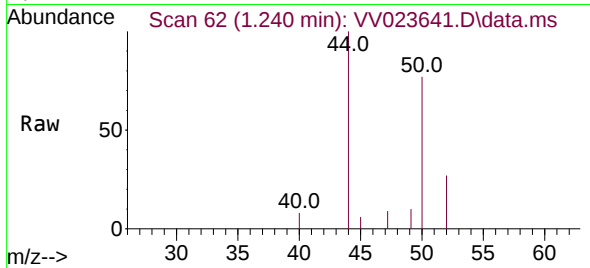




#3
Chloromethane
Concen: 0.169 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

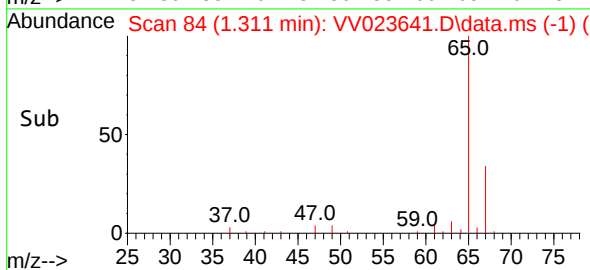
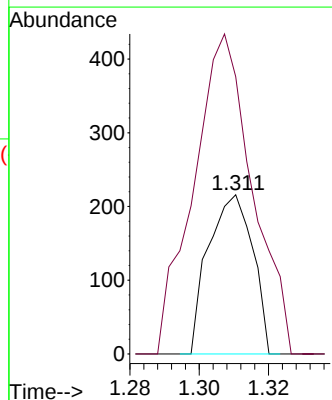
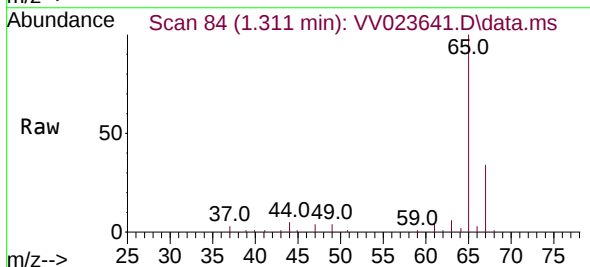
Instrument :
MSVOA_V
ClientSampleId :

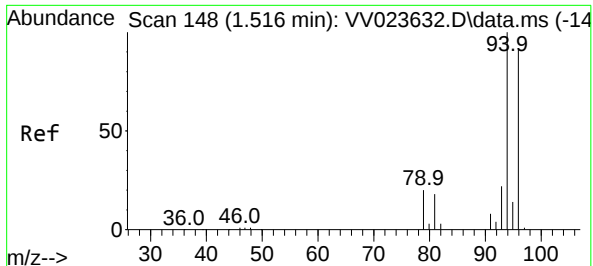
Tgt Ion: 50 Resp: 1511
Ion Ratio Lower Upper
50 100
52 35.8 24.3 45.1



#5
Vinyl chloride
Concen: 0.021 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.003 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 62 Resp: 192
Ion Ratio Lower Upper
62 100
64 174.1 23.1 42.9

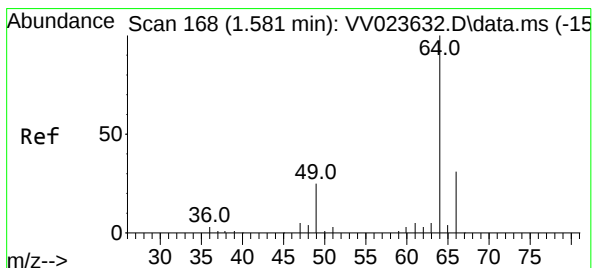
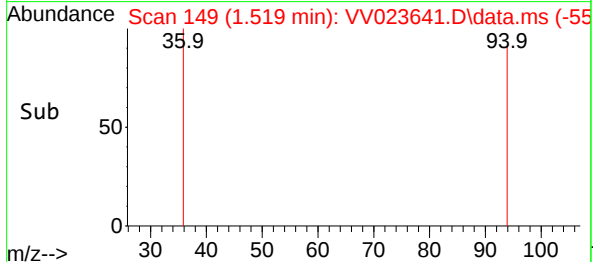
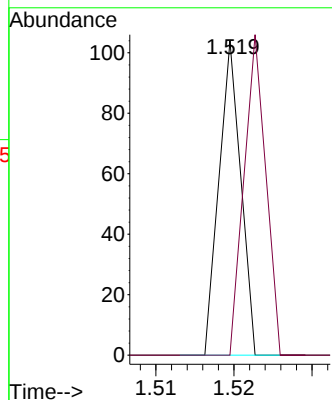
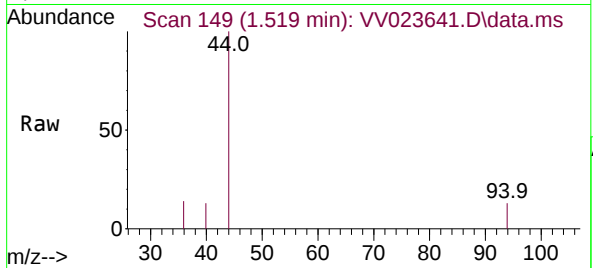




#6
Bromomethane
Concen: 0.003 ug/L
RT: 1.519 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

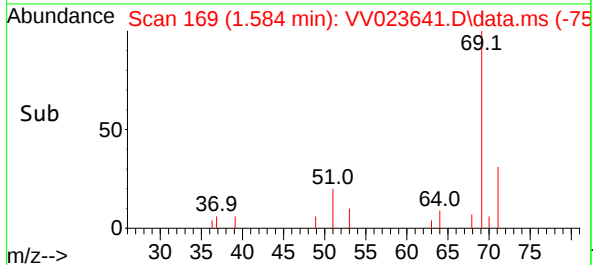
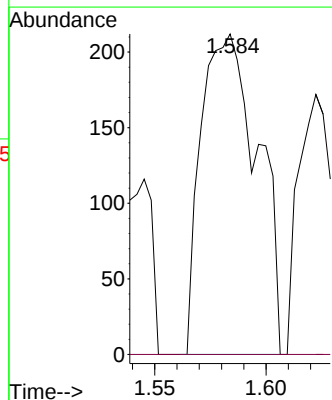
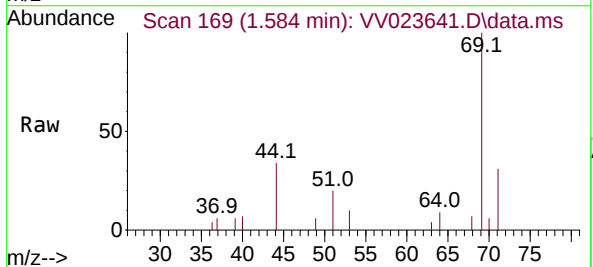
Instrument :
MSVOA_V
ClientSampleId :

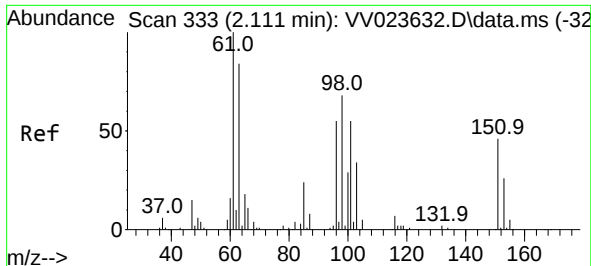
Tgt Ion: 94 Resp: 20
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 0.072 ug/L
RT: 1.584 min Scan# 169
Delta R.T. 0.003 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 64 Resp: 374
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

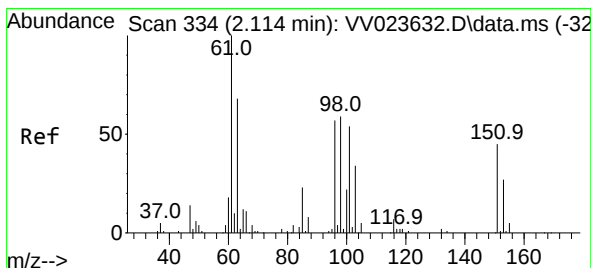
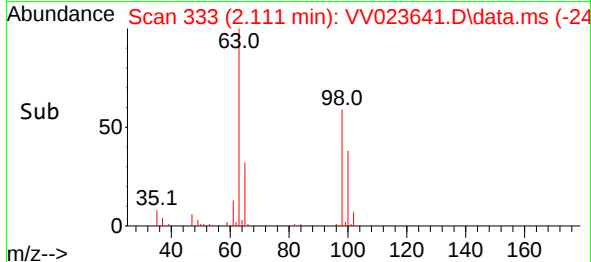
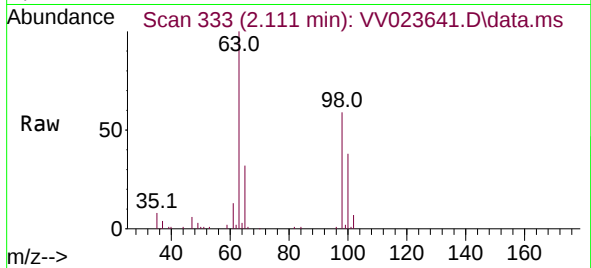




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.054 ug/L
 RT: 2.111 min Scan# 311
 Delta R.T. 0.000 min
 Lab File: VV023641.D
 Acq: 19 Nov 2021 14:16

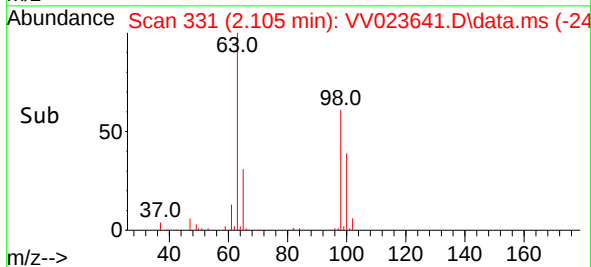
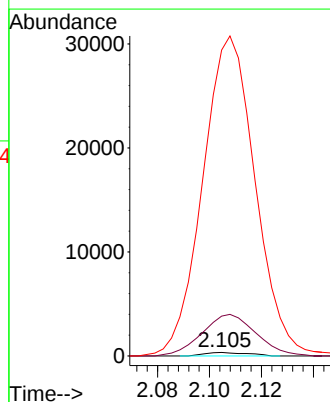
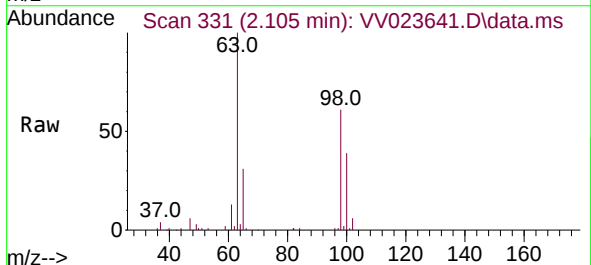
Instrument :
 MSVOA_V
 ClientSampleId :

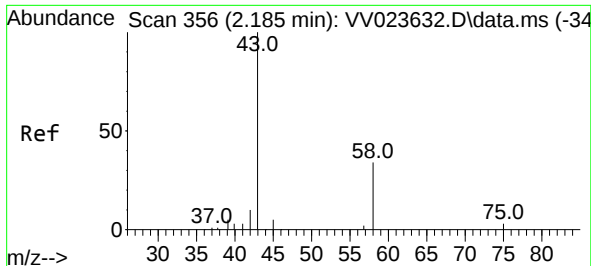
Tgt Ion:101 Resp: 368
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.3 52.9#
 151 0.0 62.2 93.2#



#12
 1,1-Dichloroethene
 Concen: 0.061 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.010 min
 Lab File: VV023641.D
 Acq: 19 Nov 2021 14:16

Tgt Ion: 96 Resp: 391
 Ion Ratio Lower Upper
 96 100
 61 1130.4 121.5 225.7#
 63 8677.3 99.6 185.0#





#13

Acetone

Concen: 1.739 ug/L

RT: 2.201 min Scan# 30

Delta R.T. 0.016 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

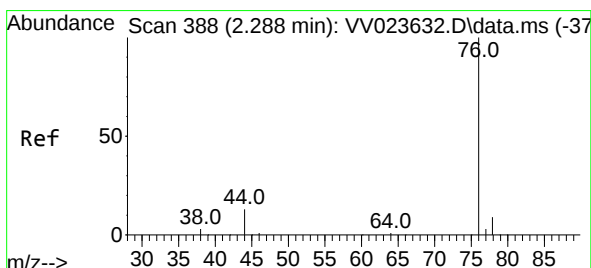
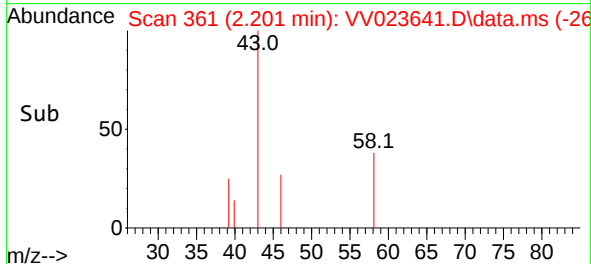
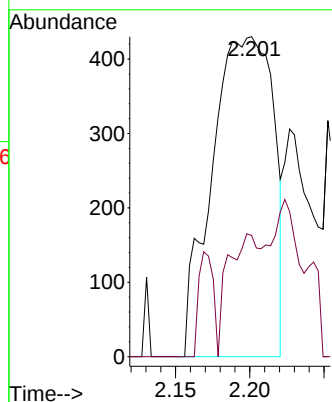
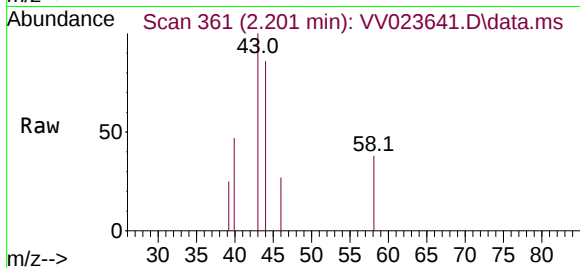
ClientSampleId :

Tgt Ion: 43 Resp: 1239

Ion Ratio Lower Upper

43 100

58 19.9 0.0 55.4



#14

Carbon disulfide

Concen: 0.012 ug/L

RT: 2.298 min Scan# 391

Delta R.T. 0.010 min

Lab File: VV023641.D

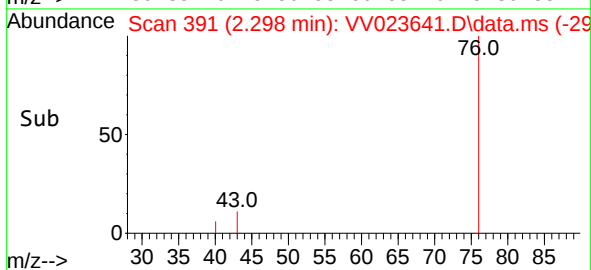
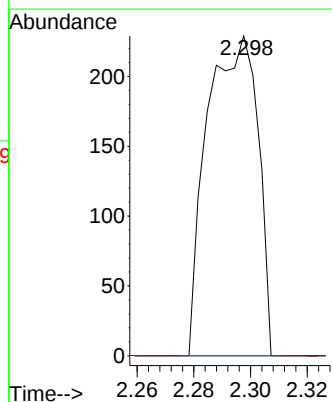
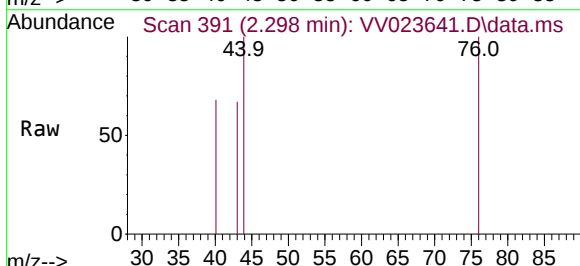
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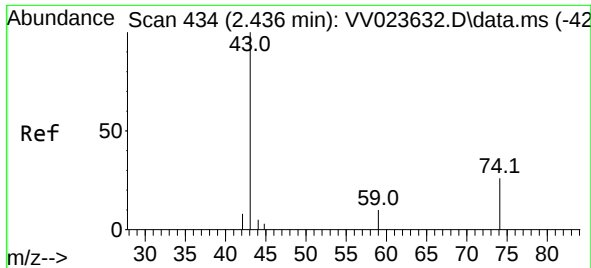
Tgt Ion: 76 Resp: 284

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#15

Methyl Acetate

Concen: 0.144 ug/L

RT: 2.442 min Scan# 41

Delta R.T. 0.006 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

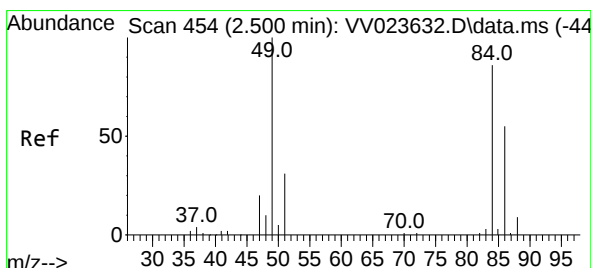
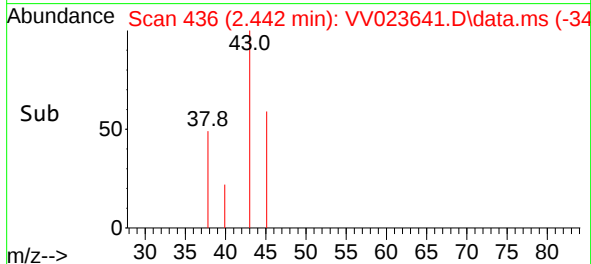
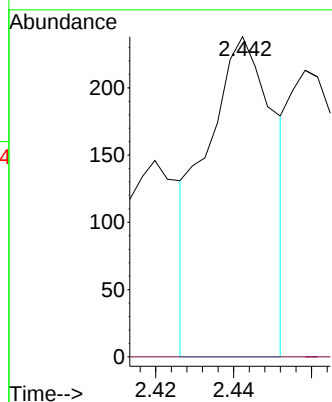
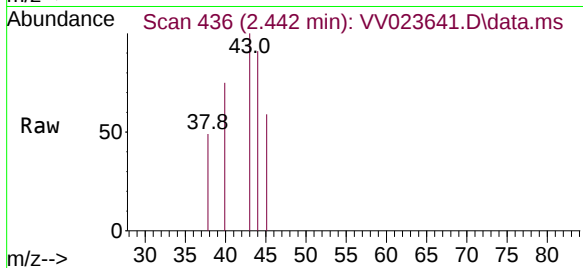
ClientSampleId :

Tgt Ion: 43 Resp: 290

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.2#



#16

Methylene chloride

Concen: 2.492 ug/L

RT: 2.507 min Scan# 456

Delta R.T. 0.006 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

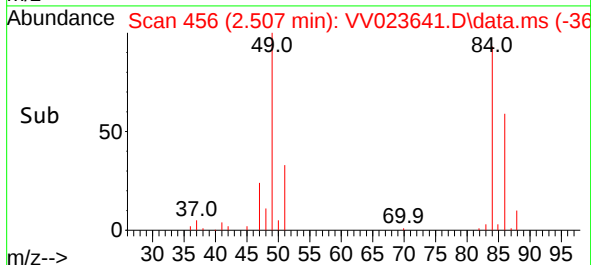
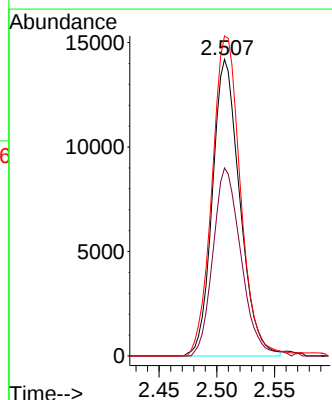
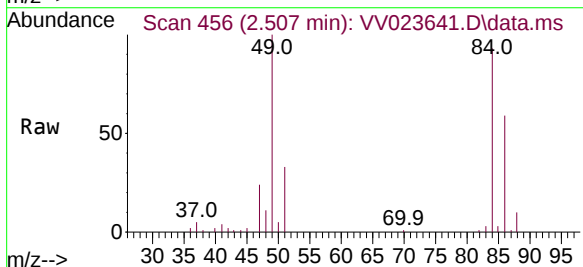
Tgt Ion: 84 Resp: 23423

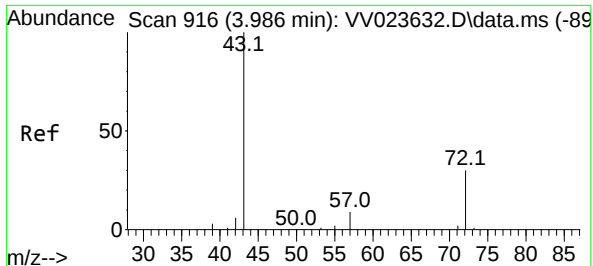
Ion Ratio Lower Upper

84 100

86 63.4 42.3 78.5

49 107.9 79.7 148.1





#21

2-Butanone

Concen: 0.038 ug/L

RT: 4.008 min Scan# 91

Delta R.T. 0.023 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

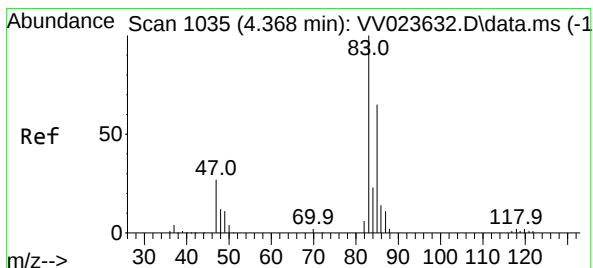
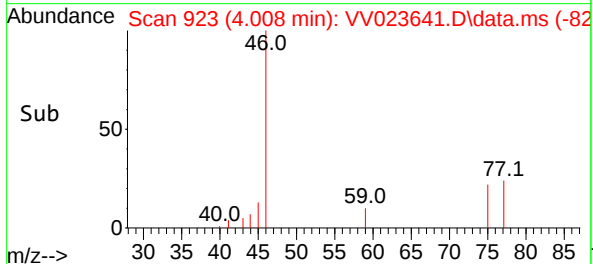
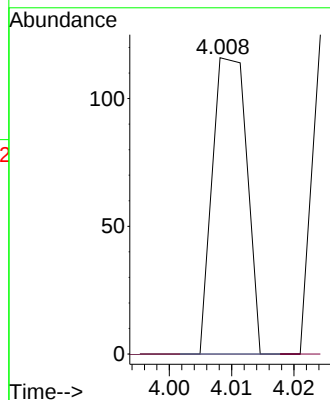
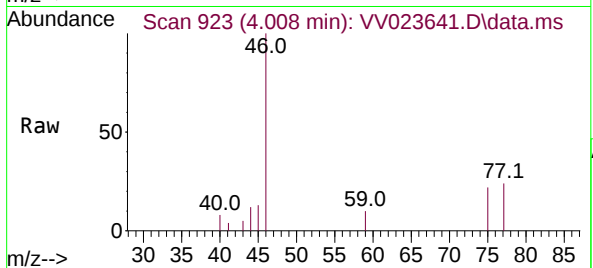
ClientSampleId :

Tgt Ion: 43 Resp: 44

Ion Ratio Lower Upper

43 100

72 0.0 11.9 35.9#



#25

Chloroform

Concen: 1.368 ug/L

RT: 4.378 min Scan# 1038

Delta R.T. 0.010 min

Lab File: VV023641.D

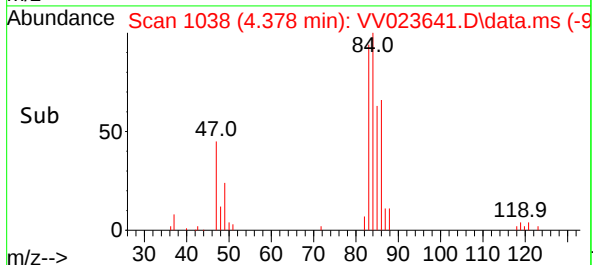
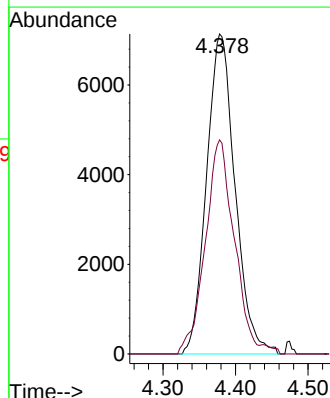
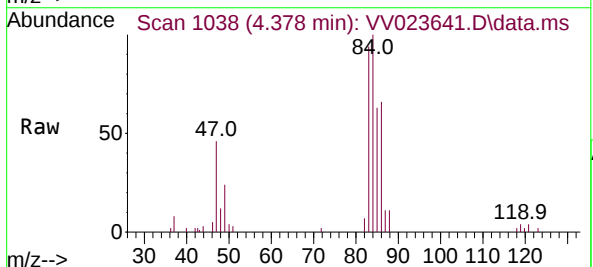
Acq: 19 Nov 2021 14:16

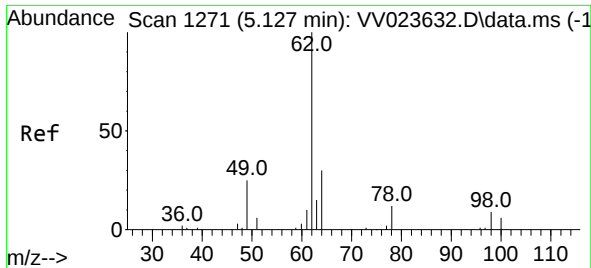
Tgt Ion: 83 Resp: 19499

Ion Ratio Lower Upper

83 100

85 66.9 46.8 86.8

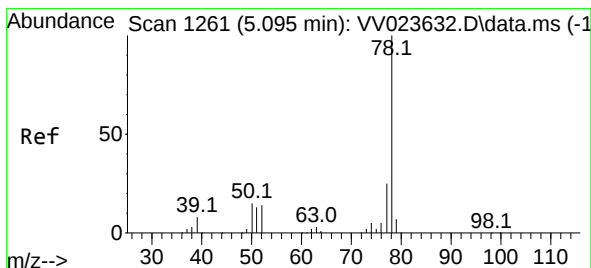
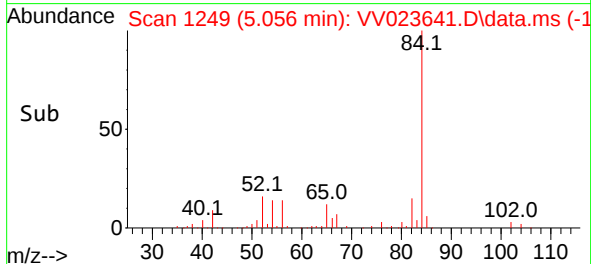
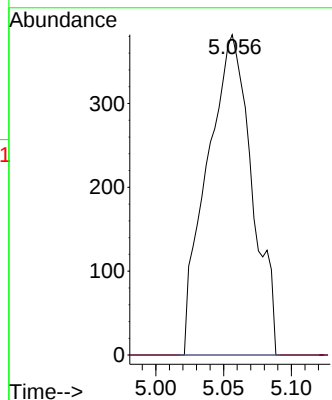
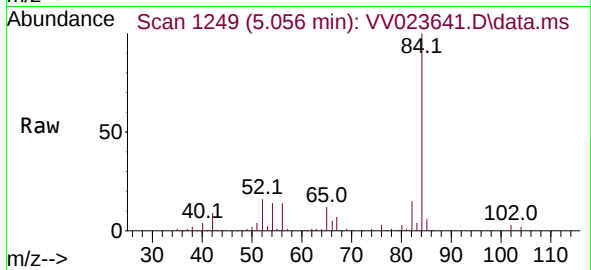




#27
1,2-Dichloroethane
Concen: 0.116 ug/L
RT: 5.056 min Scan# 11
Delta R.T. -0.071 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

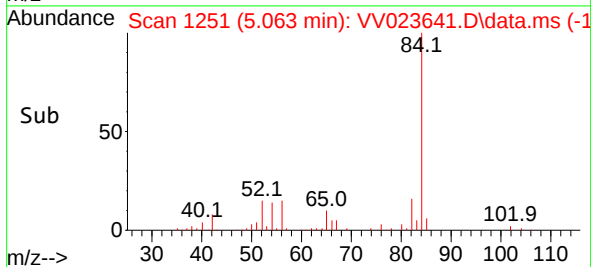
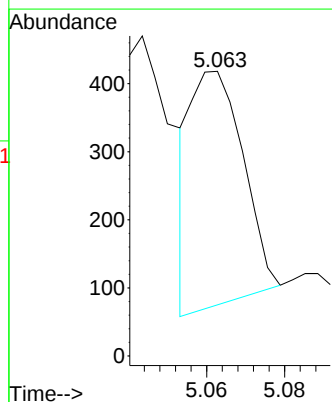
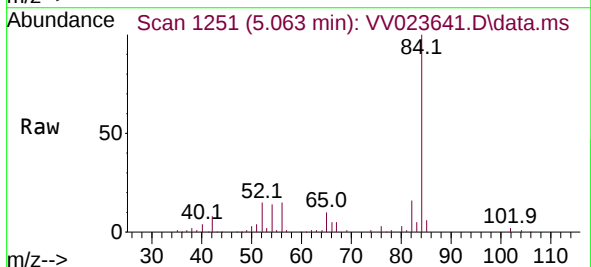
Instrument :
MSVOA_V
ClientSampleId :

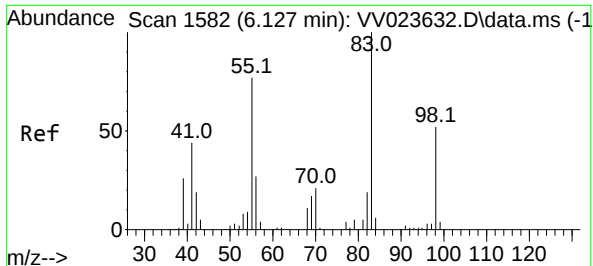
Tgt Ion: 62 Resp: 878
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.4#



#33
Benzene
Concen: 0.011 ug/L
RT: 5.063 min Scan# 1251
Delta R.T. -0.032 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 78 Resp: 325





#35

Methylcyclohexane

Concen: 0.718 ug/L

RT: 6.072 min Scan# 11

Delta R.T. -0.055 min

Lab File: VV023641.D

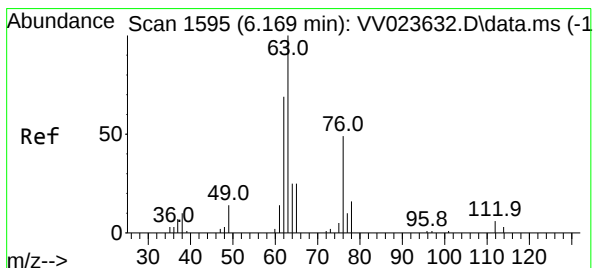
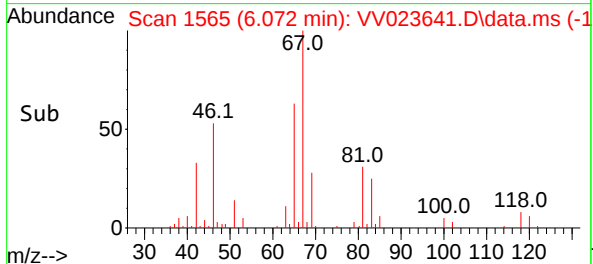
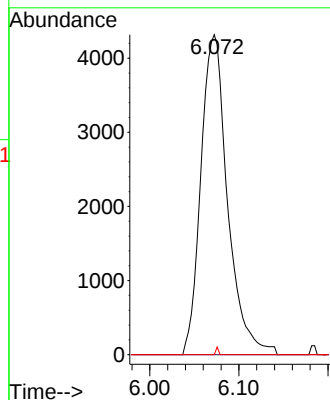
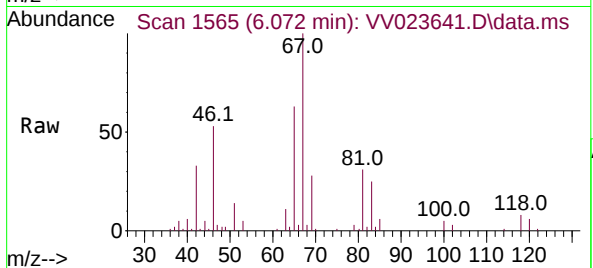
Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 8989
Ion Ratio	Lower Upper
83 100	
55 0.0	62.8 94.2#
98 0.2	37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.603 ug/L

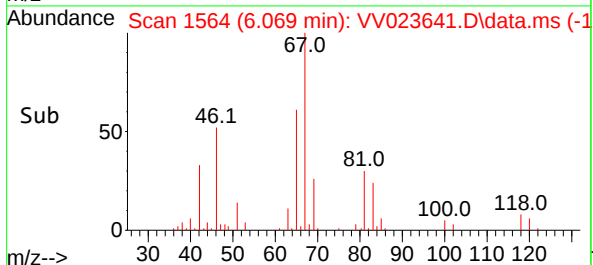
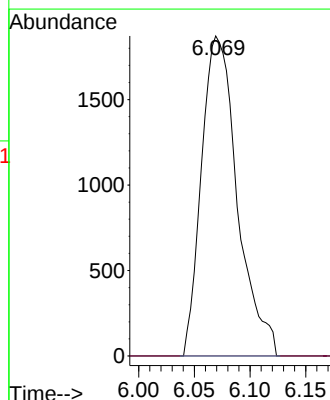
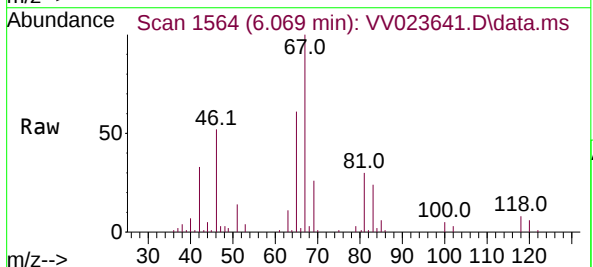
RT: 6.069 min Scan# 1564

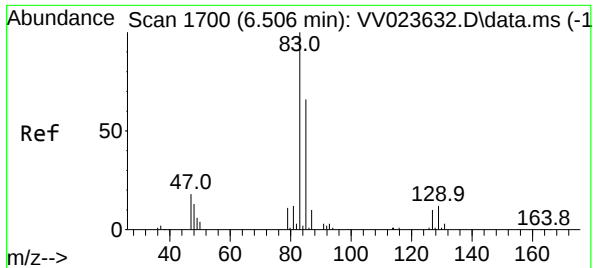
Delta R.T. -0.100 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Tgt Ion: 63	Resp: 4195
Ion Ratio	Lower Upper
63 100	
112 0.0	4.6 6.8#

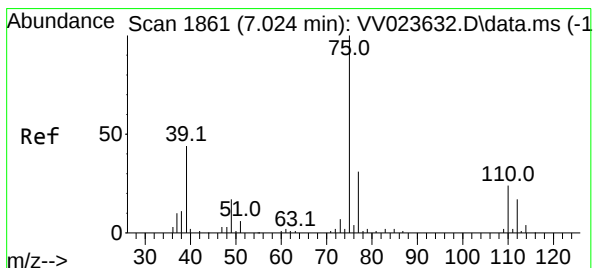
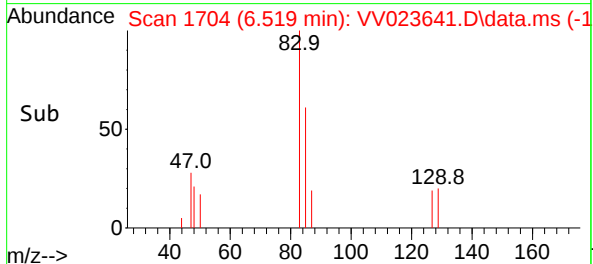
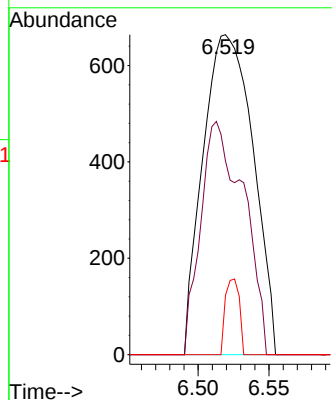
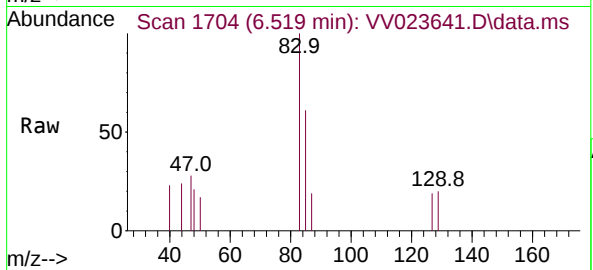




#38
Bromodichloromethane
Concen: 0.175 ug/L
RT: 6.519 min Scan# 11
Delta R.T. 0.013 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

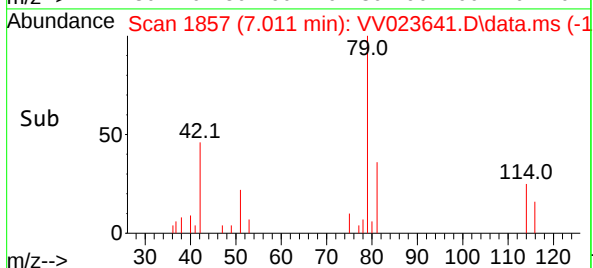
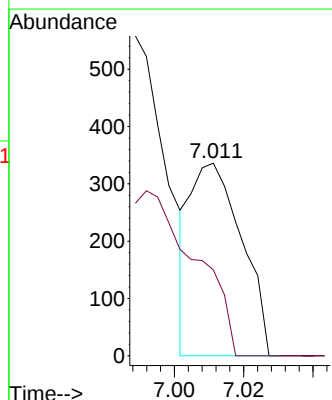
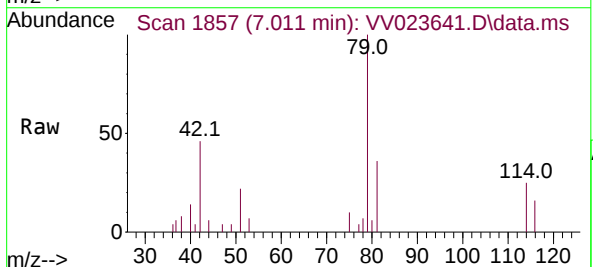
Instrument :
MSVOA_V
ClientSampleId :

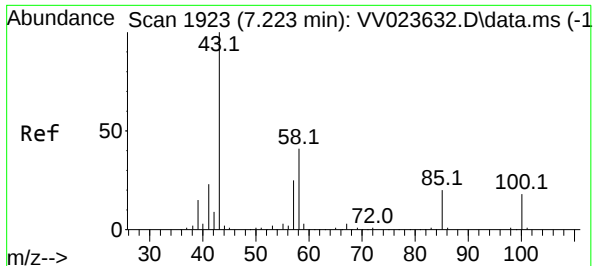
Tgt Ion: 83 Resp: 1636
Ion Ratio Lower Upper
83 100
85 60.5 46.1 85.7
127 18.5 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.035 ug/L
RT: 7.011 min Scan# 1857
Delta R.T. -0.013 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 75 Resp: 346
Ion Ratio Lower Upper
75 100
77 44.6 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.022 ug/L

RT: 7.249 min Scan# 19

Delta R.T. 0.026 min

Lab File: VV023641.D

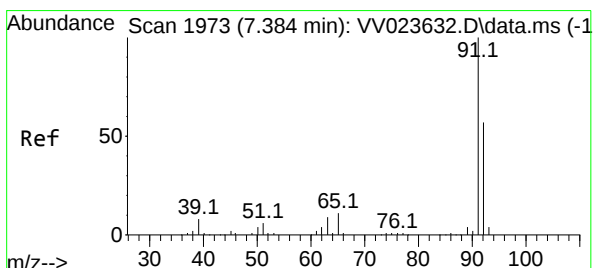
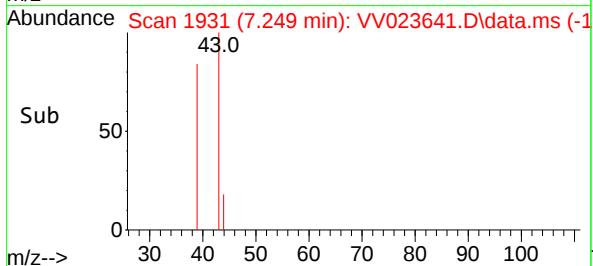
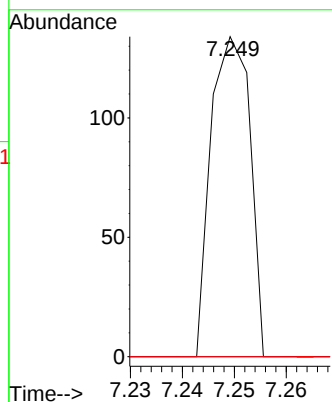
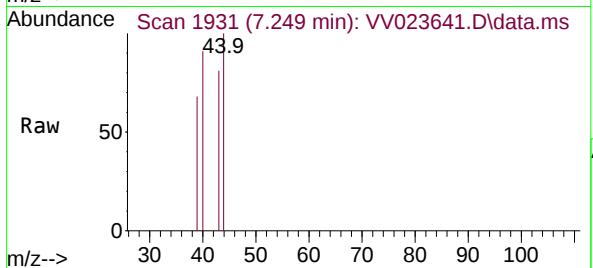
Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp:	70
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.1 46.7#
100	0.0	12.6 19.0#



#42

Toluene

Concen: 0.054 ug/L

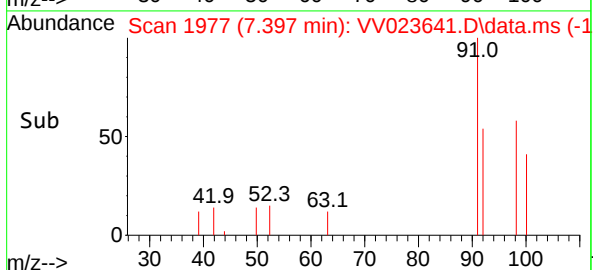
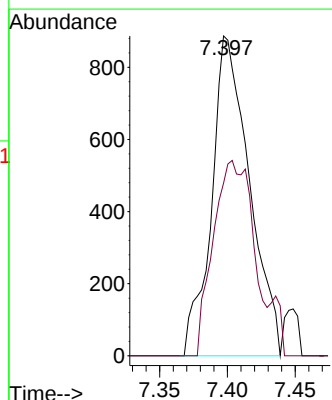
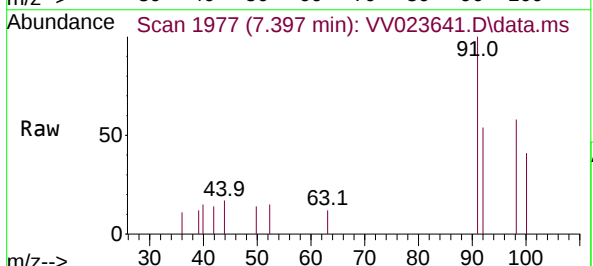
RT: 7.397 min Scan# 1977

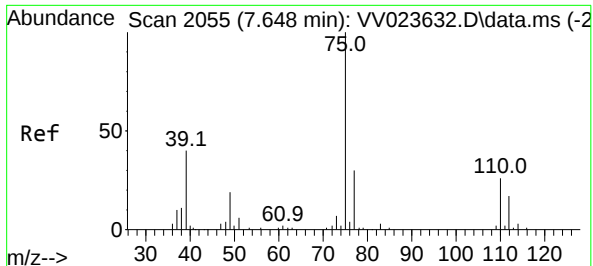
Delta R.T. 0.013 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Tgt Ion: 91	Resp:	1723
Ion	Ratio	Lower Upper
91	100	
92	54.0	39.3 72.9

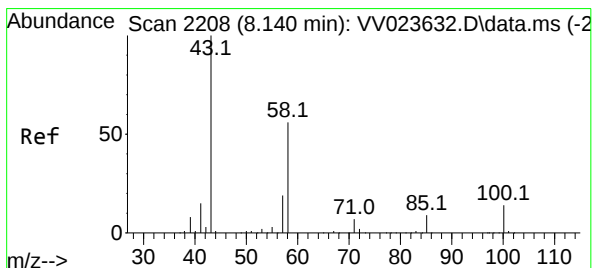
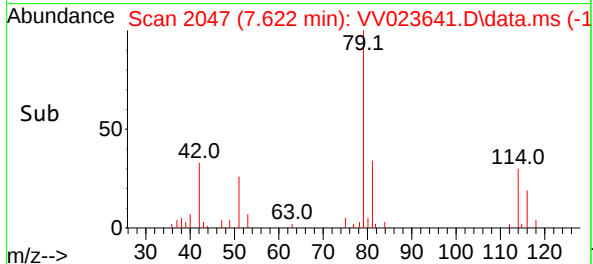
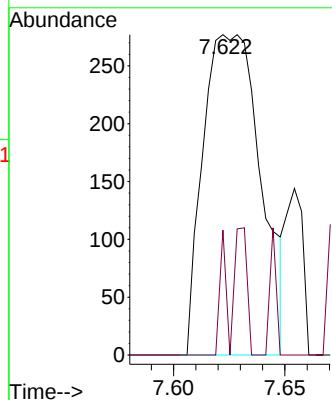
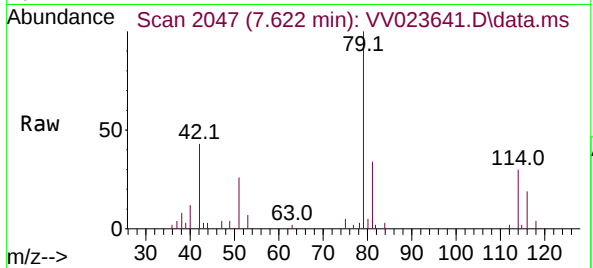




#44
trans-1,3-Dichloropropene
Concen: 0.060 ug/L
RT: 7.622 min Scan# 2055
Delta R.T. -0.026 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

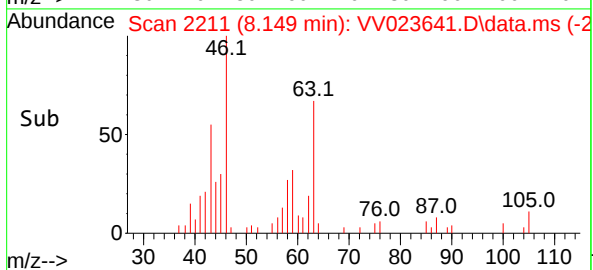
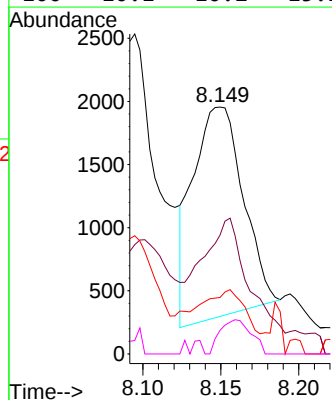
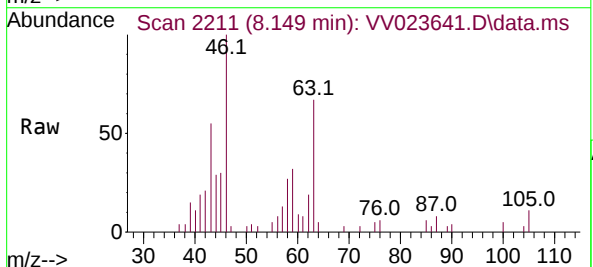
Instrument :
MSVOA_V
ClientSampleId :

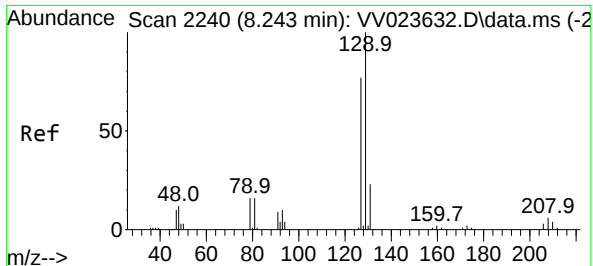
Tgt Ion: 75 Resp: 499
Ion Ratio Lower Upper
75 100
77 39.0 22.5 41.7



#48
2-Hexanone
Concen: 1.652 ug/L
RT: 8.149 min Scan# 2211
Delta R.T. 0.010 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 43 Resp: 3736
Ion Ratio Lower Upper
43 100
58 51.9 43.7 65.5
57 33.0 14.1 21.1#
100 10.1 10.2 15.2#





#49

Dibromochloromethane

Concen: 0.007 ug/L

RT: 8.256 min Scan# 21

Delta R.T. 0.013 min

Lab File: VV023641.D

Acq: 19 Nov 2021 14:16

Instrument :

MSVOA_V

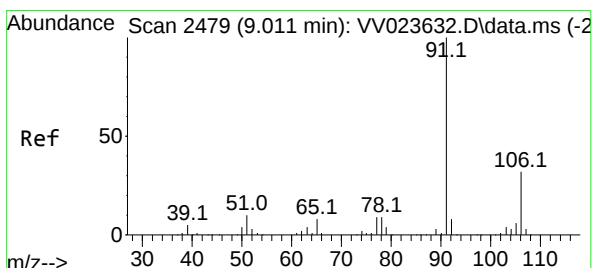
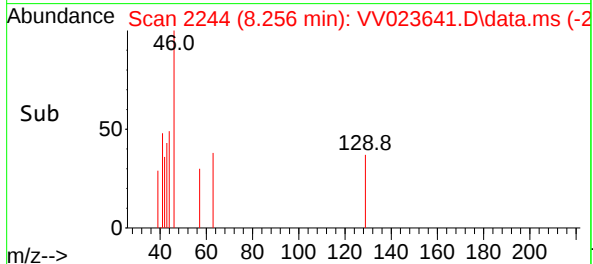
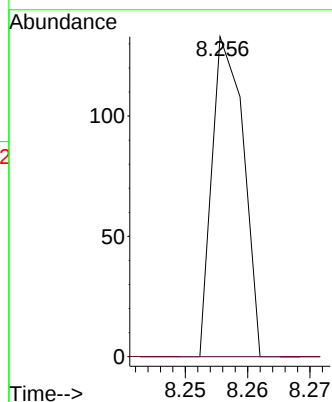
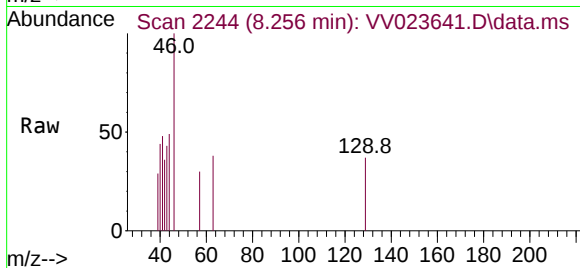
ClientSampleId :

Tgt Ion:129 Resp: 47

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#52

Ethylbenzene

Concen: 0.003 ug/L

RT: 9.027 min Scan# 2484

Delta R.T. 0.016 min

Lab File: VV023641.D

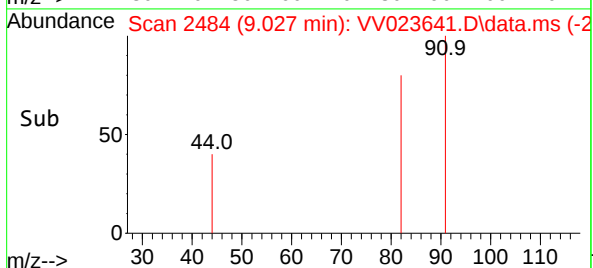
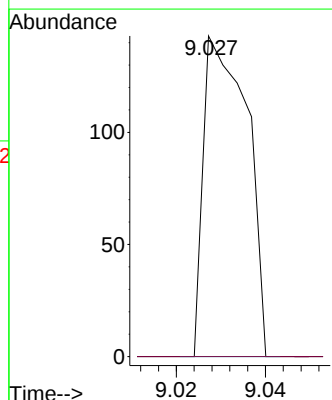
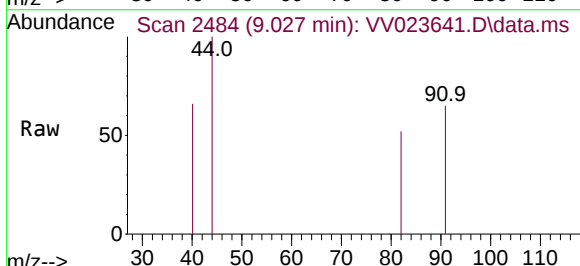
Acq: 19 Nov 2021 14:16

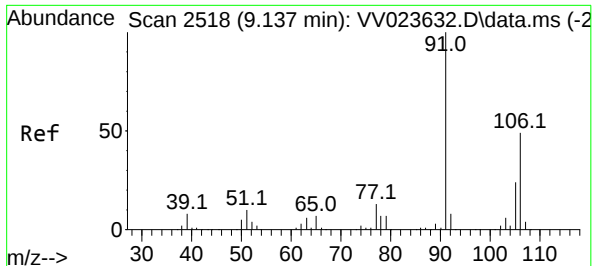
Tgt Ion: 91 Resp: 97

Ion Ratio Lower Upper

91 100

106 0.0 22.5 41.9#

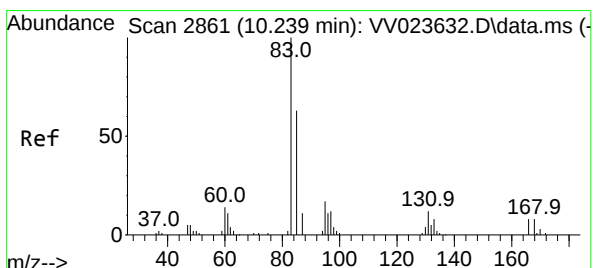
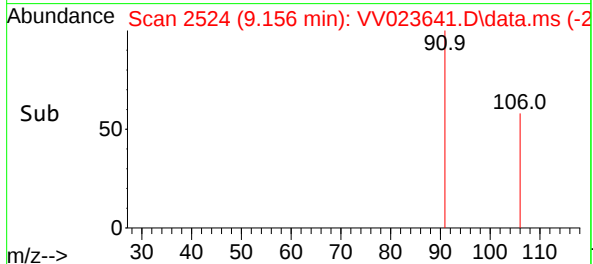
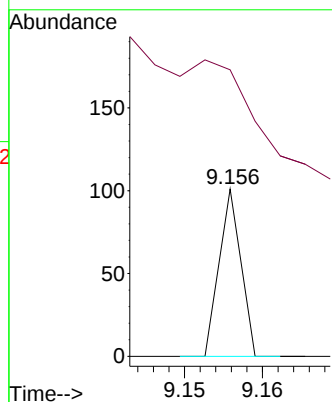
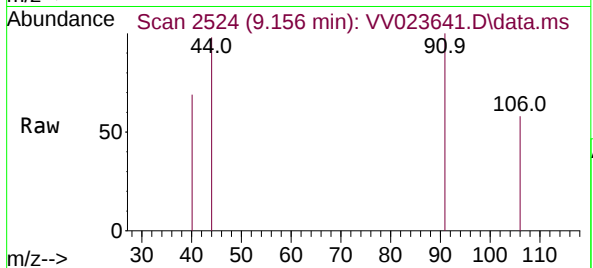




#53
m,p-xylene
Concen: 0.001 ug/L
RT: 9.156 min Scan# 21
Delta R.T. 0.019 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

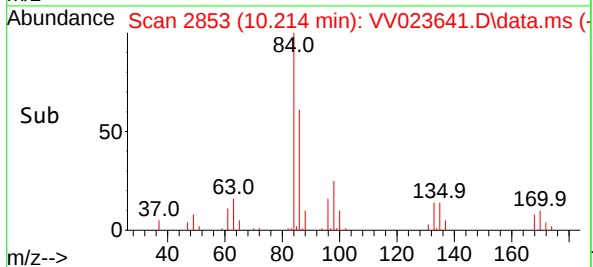
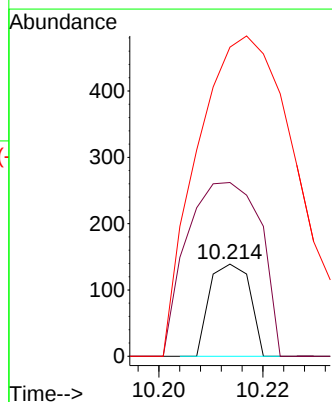
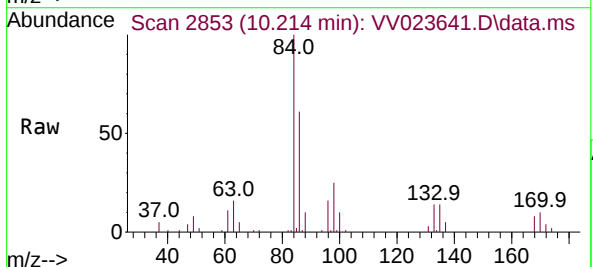
Instrument :
MSVOA_V
ClientSampleId :

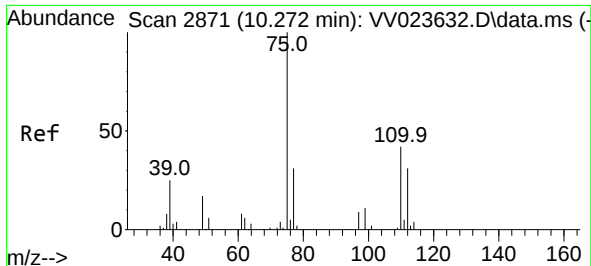
Tgt Ion:106 Resp: 19
Ion Ratio Lower Upper
106 100
91 171.3 137.2 254.8



#57
1,1,2,2-Tetrachloroethane
Concen: 0.014 ug/L
RT: 10.214 min Scan# 2853
Delta R.T. -0.026 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

Tgt Ion: 83 Resp: 75
Ion Ratio Lower Upper
83 100
85 188.5 45.1 83.9#
131 335.3 7.8 11.6#

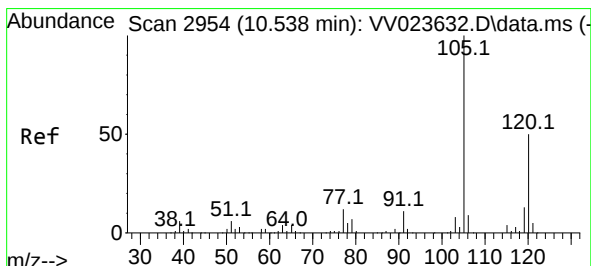
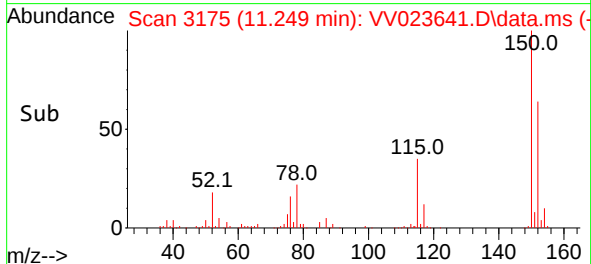
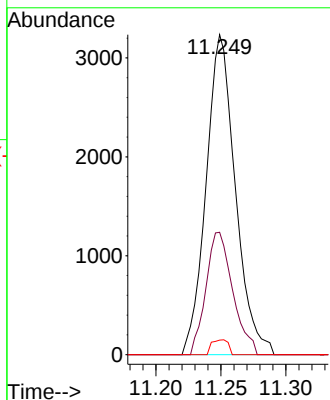
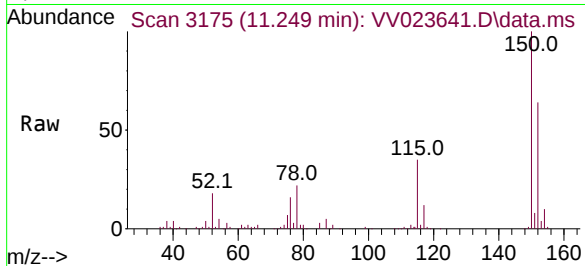




#61
1,2,3-Trichloropropane
Concen: 1.612 ug/L
RT: 11.249 min Scan# 31
Delta R.T. 0.977 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

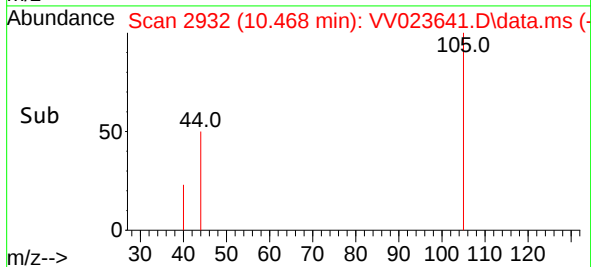
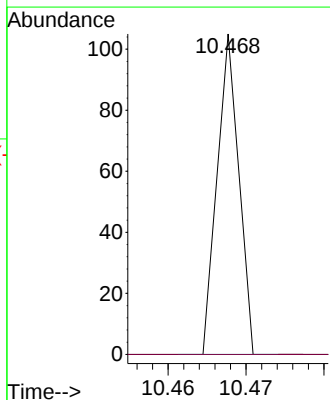
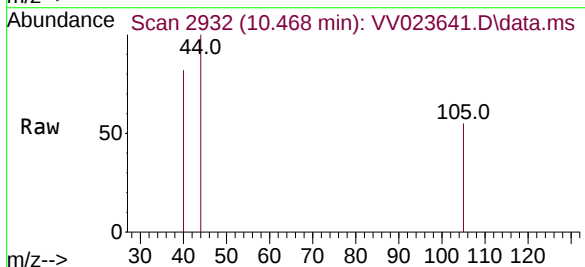
Instrument :
MSVOA_V
ClientSampleId :

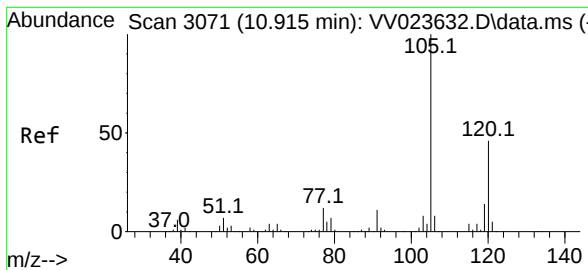
Tgt Ion: 75 Resp: 5067
Ion Ratio Lower Upper
75 100
77 35.0 26.6 39.8
110 2.6 31.8 47.6#



#62
1,3,5-Trimethylbenzene
Concen: 0.001 ug/L
RT: 10.468 min Scan# 2932
Delta R.T. -0.071 min
Lab File: VV023641.D
Acq: 19 Nov 2021 14:16

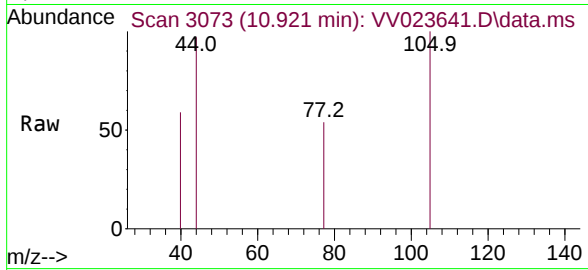
Tgt Ion: 105 Resp: 20
Ion Ratio Lower Upper
105 100
120 0.0 39.7 59.5#





#63
 1,2,4-Trimethylbenzene
 Concen: 0.007 ug/L
 RT: 10.921 min Scan# 3073
 Delta R.T. 0.006 min
 Lab File: VV023641.D
 Acq: 19 Nov 2021 14:16

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:105 Resp: 154
 Ion Ratio Lower Upper
 105 100
 120 0.0 37.4 56.2#

