

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023642.D
 Acq On : 19 Nov 2021 14:40
 Operator : SY/MD
 Sample : M4706-17
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:47:58 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	106847	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	108190	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	49786	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	28585	4.271	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.400%
7) Chloroethane-d5	1.568	69	24659	4.520	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.400%
11) 1,1-Dichloroethene-d2	2.108	63	41984	3.350	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.000%
20) 2-Butanone-d5	3.908	46	39766	34.484	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	68.960%
24) Chloroform-d	4.352	84	62002	4.346	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.000%
26) 1,2-Dichloroethane-d4	5.034	65	30594	4.769	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.400%
32) Benzene-d6	5.050	84	112419	4.050	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
36) 1,2-Dichloropropane-d6	6.069	67	33587	4.110	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.200%
41) Toluene-d8	7.317	98	95219	3.660	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.200%
43) trans-1,3-Dichloroprop...	7.628	79	11824	3.816	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.400%
46) 2-Hexanone-d5	8.091	63	46409	40.708	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.420%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24239	4.125	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	82.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	37667	4.544	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	10344	1.168	ug/L	97
5) Vinyl chloride	1.307	62	192	0.022	ug/L #	1
6) Bromomethane	1.526	94	131	0.023	ug/L	79
8) Chloroethane	1.587	64	83	0.016	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	475	0.071	ug/L #	18
12) 1,1-Dichloroethene	2.108	96	366	0.057	ug/L #	1
13) Acetone	2.182	43	632	0.897	ug/L	82
14) Carbon disulfide	2.294	76	598	0.025	ug/L #	75
15) Methyl Acetate	2.455	43	151	0.076	ug/L #	47
16) Methylene chloride	2.510	84	474	0.051	ug/L #	81
21) 2-Butanone	3.963	43	19	0.017	ug/L #	51
25) Chloroform	4.381	83	13840	0.982	ug/L	90
27) 1,2-Dichloroethane	5.050	62	631	0.084	ug/L #	72
30) Cyclohexane	4.674	56	22	0.002	ug/L #	1
33) Benzene	5.047	78	1149	0.038	ug/L	100
34) Trichloroethene	5.661	95	123	0.015	ug/L #	4
35) Methylcyclohexane	6.072	83	8720	0.687	ug/L #	19
37) 1,2-Dichloropropane	6.069	63	4072	0.577	ug/L #	83
38) Bromodichloromethane	6.519	83	2601	0.275	ug/L	99

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

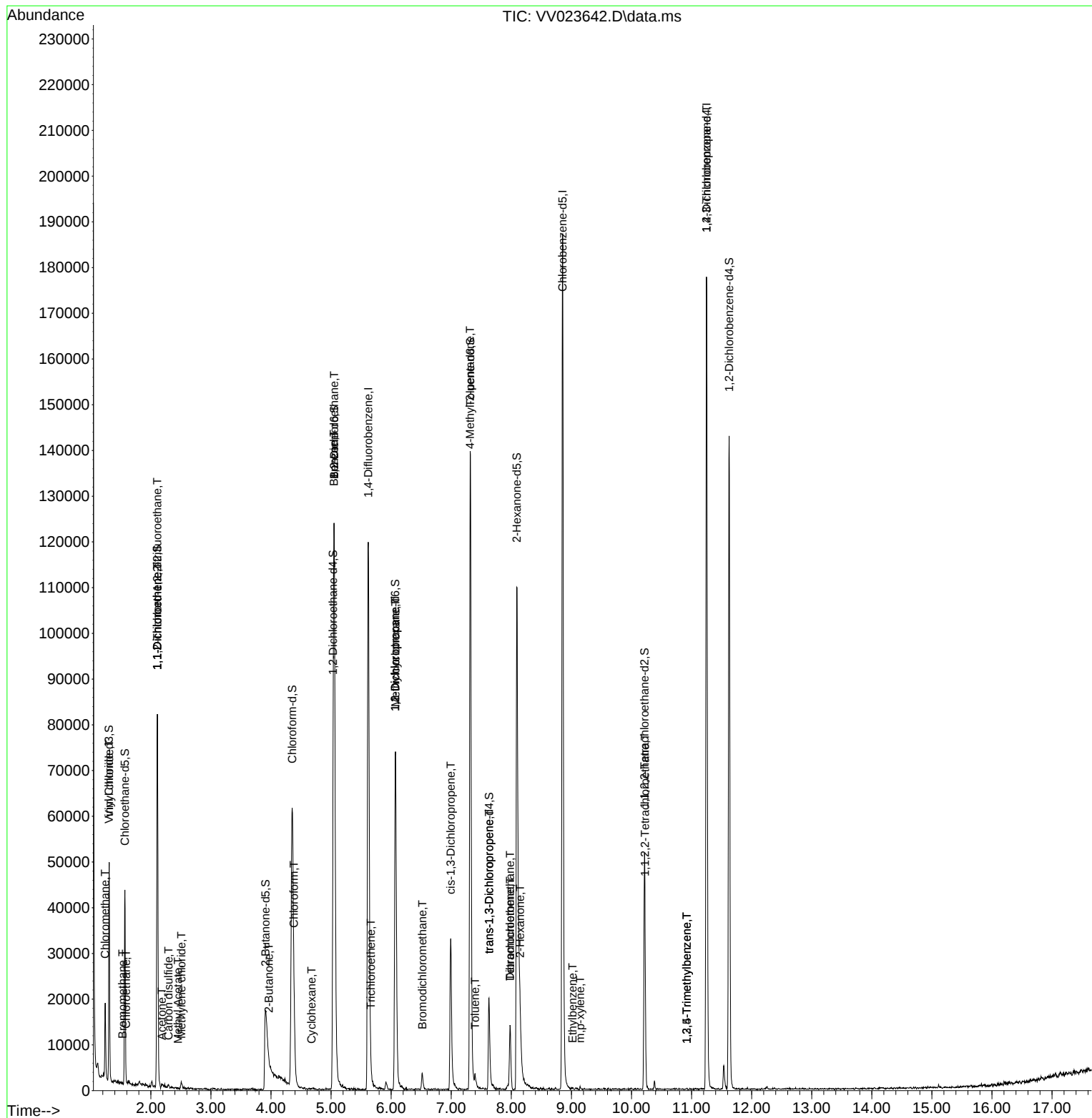
39) cis-1,3-Dichloropropene	6.992	75	1142	0.112	ug/L	91
40) 4-Methyl-2-pentanone	7.313	43	517	0.158	ug/L #	1
42) Toluene	7.397	91	1943	0.060	ug/L	80
44) trans-1,3-Dichloropropene	7.628	75	559	0.066	ug/L #	53
47) Tetrachloroethene	7.979	164	3280	0.471	ug/L	96
48) 2-Hexanone	8.146	43	3076	1.341	ug/L #	89
49) Dibromochloromethane	7.979	129	3225	0.502	ug/L #	10
52) Ethylbenzene	9.021	91	140	0.004	ug/L #	42
53) m,p-xylene	9.146	106	96	0.007	ug/L	88
57) 1,1,2,2-Tetrachloroethane	10.226	83	51	0.009	ug/L #	1
61) 1,2,3-Trichloropropane	11.249	75	5259	1.590	ug/L #	64
62) 1,3,5-Trimethylbenzene	10.921	105	159	0.007	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.921	105	159	0.007	ug/L #	30

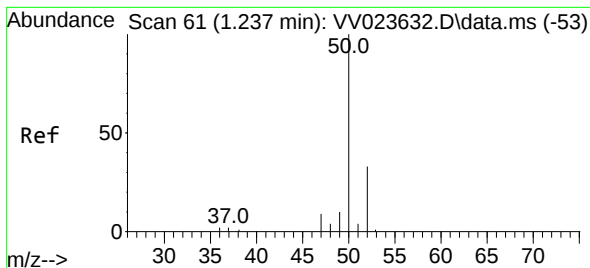
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.168 ug/L

RT: 1.240 min Scan# 61

Delta R.T. 0.003 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

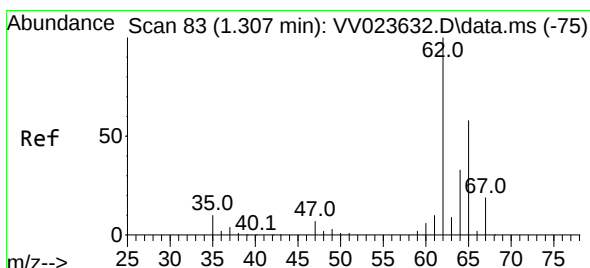
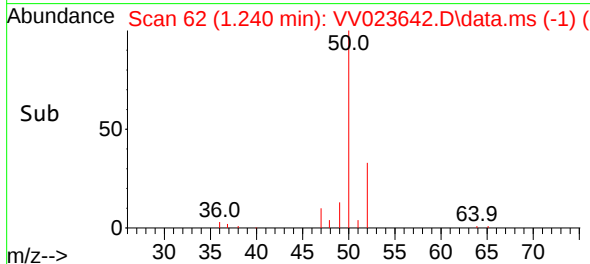
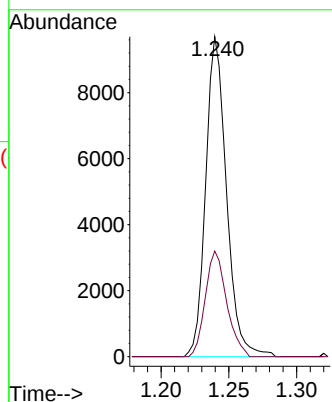
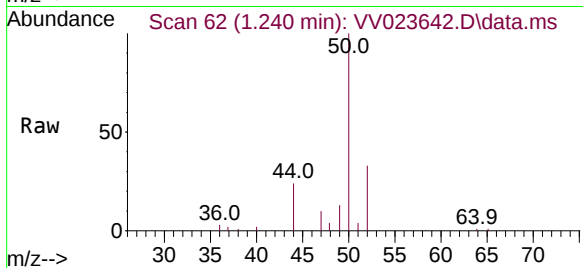
ClientSampleId :

Tgt Ion: 50 Resp: 10344

Ion Ratio Lower Upper

50 100

52 33.0 24.3 45.1



#5

Vinyl chloride

Concen: 0.022 ug/L

RT: 1.307 min Scan# 83

Delta R.T. -0.000 min

Lab File: VV023642.D

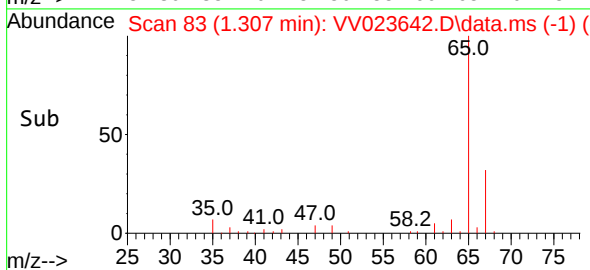
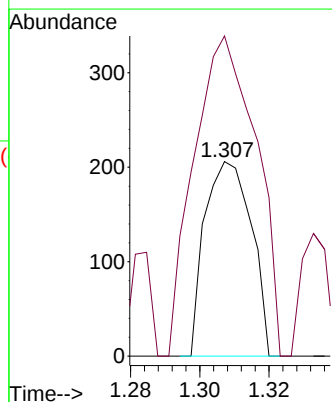
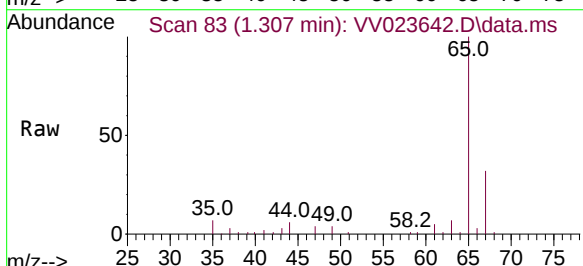
Acq: 19 Nov 2021 14:40

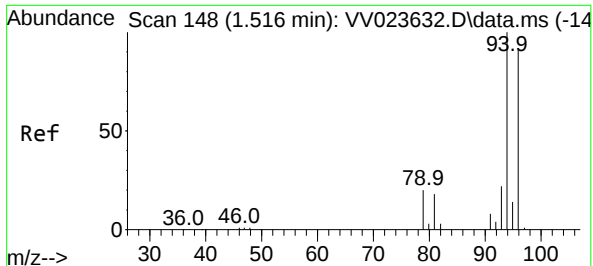
Tgt Ion: 62 Resp: 192

Ion Ratio Lower Upper

62 100

64 164.6 23.1 42.9#

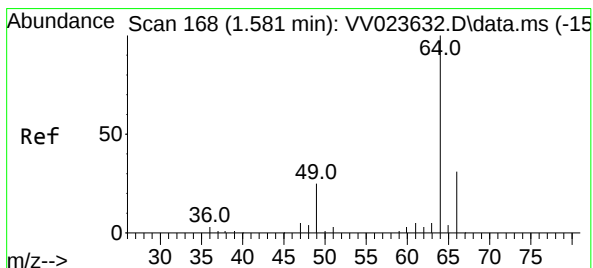
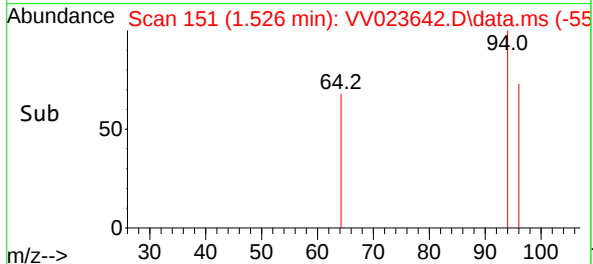
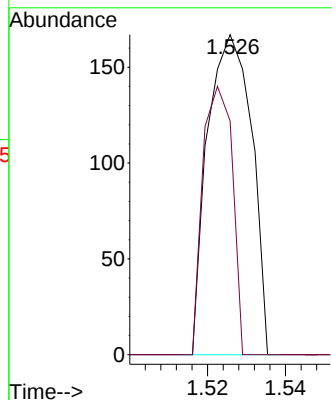
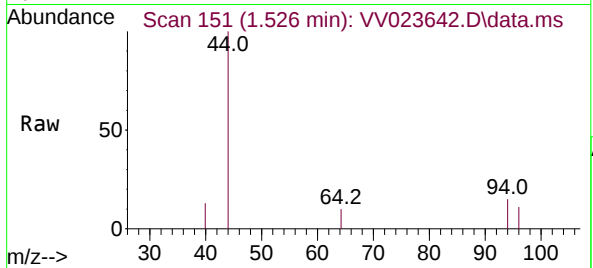




#6
Bromomethane
Concen: 0.023 ug/L
RT: 1.526 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

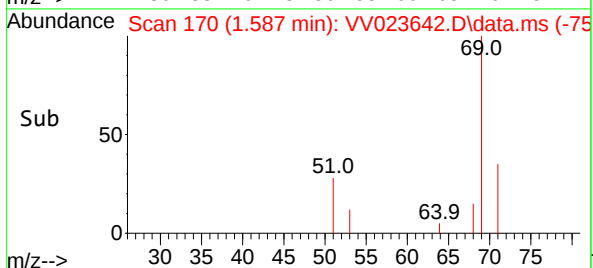
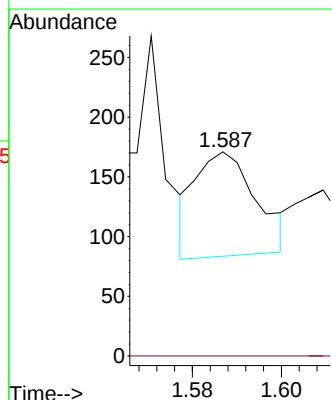
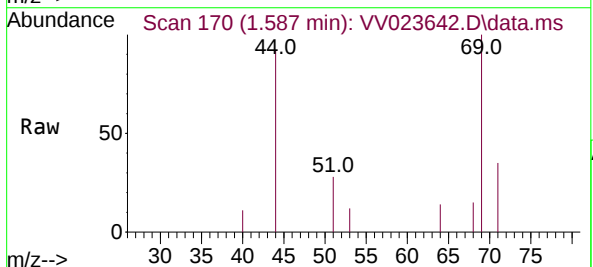
Instrument :
MSVOA_V
ClientSampleId :

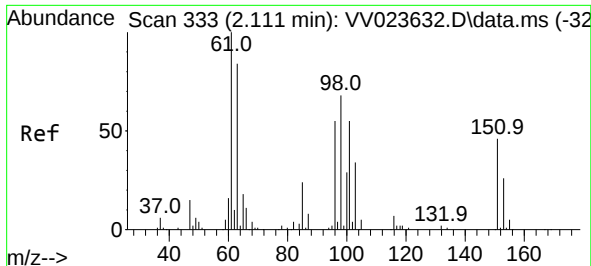
Tgt Ion: 94 Resp: 131
Ion Ratio Lower Upper
94 100
96 73.1 65.0 120.8



#8
Chloroethane
Concen: 0.016 ug/L
RT: 1.587 min Scan# 170
Delta R.T. 0.006 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 64 Resp: 83
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

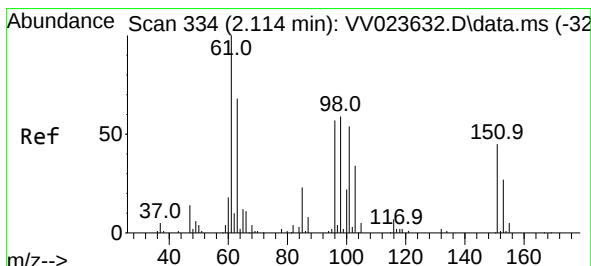
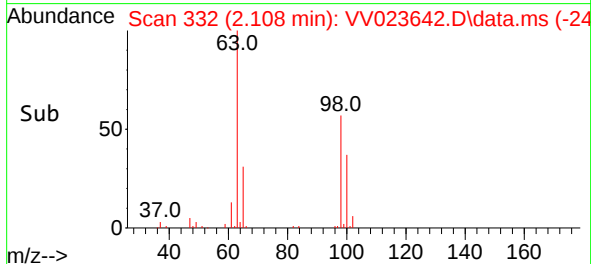
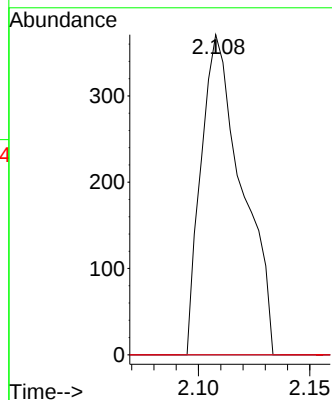
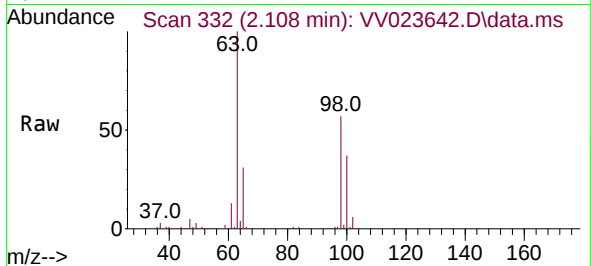




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.071 ug/L
RT: 2.108 min Scan# 331
Delta R.T. -0.003 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

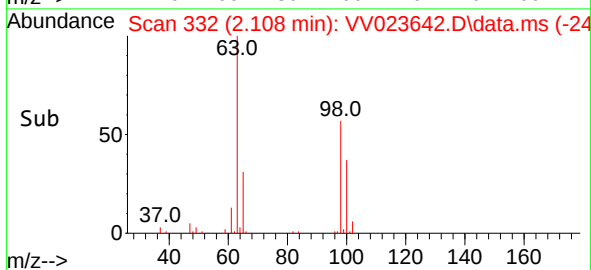
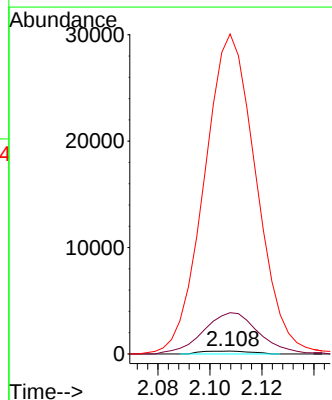
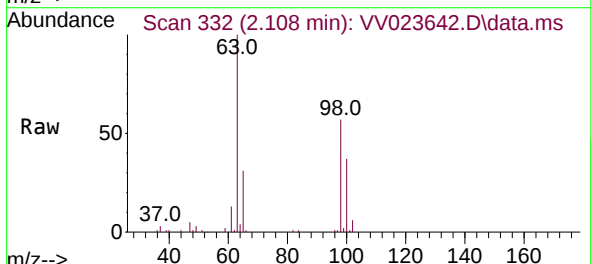
Instrument :
MSVOA_V
ClientSampleId :

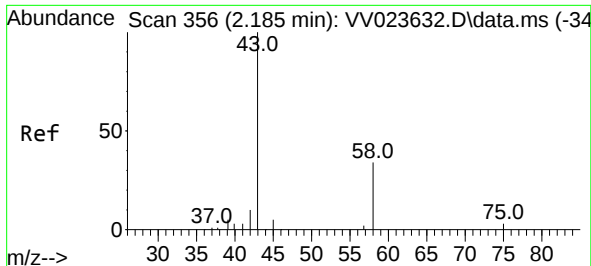
Tgt Ion:101 Resp: 475
Ion Ratio Lower Upper
101 100
85 0.0 35.3 52.9#
151 0.0 62.2 93.2#



#12
1,1-Dichloroethene
Concen: 0.057 ug/L
RT: 2.108 min Scan# 332
Delta R.T. -0.007 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 96 Resp: 366
Ion Ratio Lower Upper
96 100
61 1420.1 121.5 225.7#
63 11015.4 99.6 185.0#





#13

Acetone

Concen: 0.897 ug/L

RT: 2.182 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

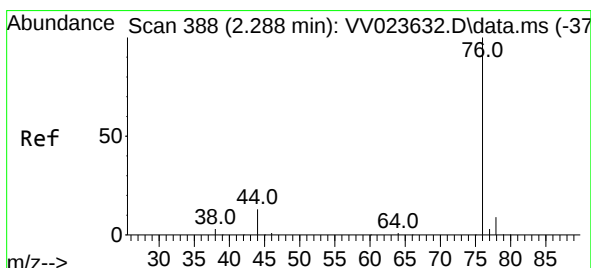
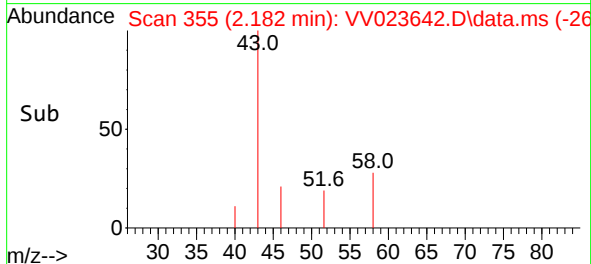
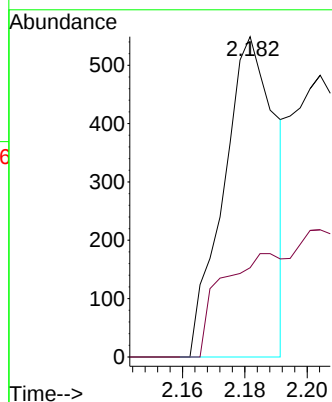
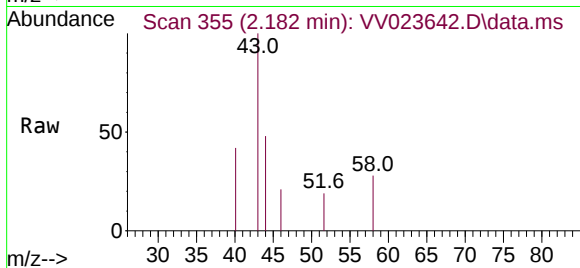
ClientSampleId :

Tgt Ion: 43 Resp: 632

Ion Ratio Lower Upper

43 100

58 36.9 0.0 55.4



#14

Carbon disulfide

Concen: 0.025 ug/L

RT: 2.294 min Scan# 390

Delta R.T. 0.006 min

Lab File: VV023642.D

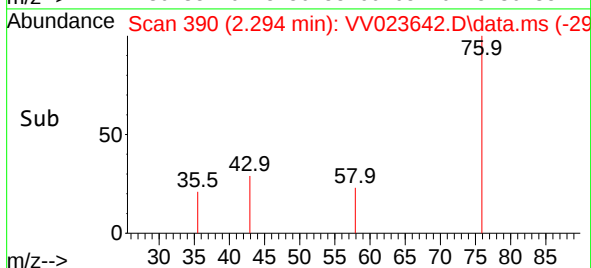
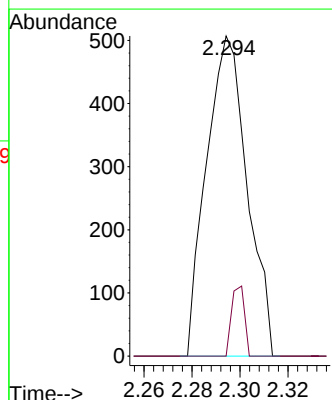
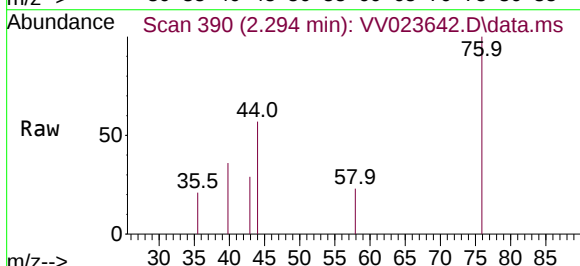
Acq: 19 Nov 2021 14:40

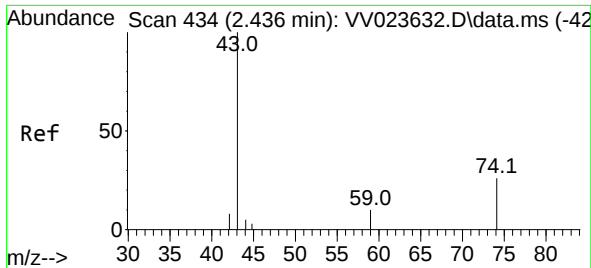
Tgt Ion: 76 Resp: 598

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#15

Methyl Acetate

Concen: 0.076 ug/L

RT: 2.455 min Scan# 440

Delta R.T. 0.019 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

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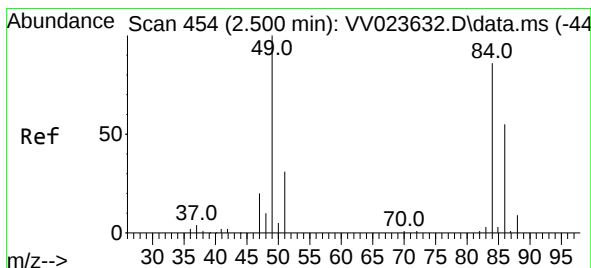
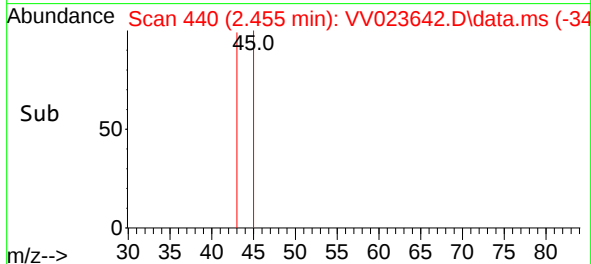
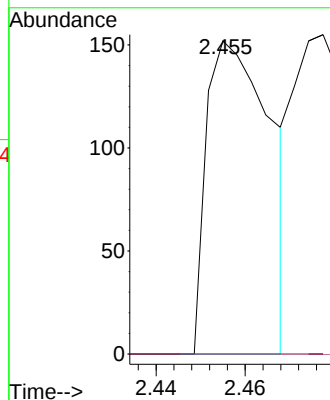
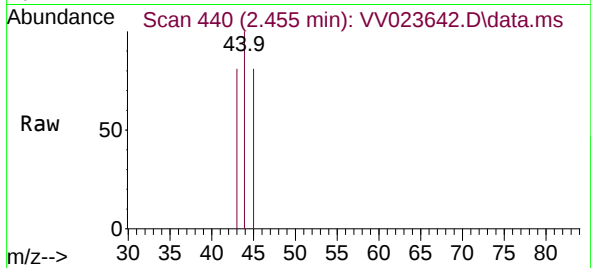
ClientSampleId :

Tgt Ion: 43 Resp: 151

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.2#



#16

Methylene chloride

Concen: 0.051 ug/L

RT: 2.510 min Scan# 457

Delta R.T. 0.010 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

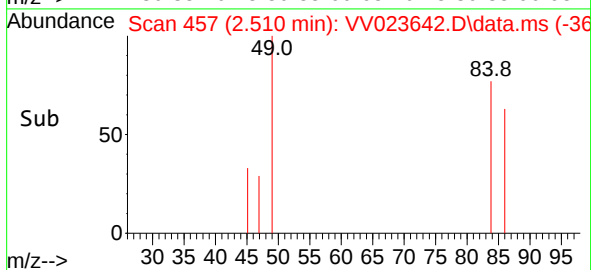
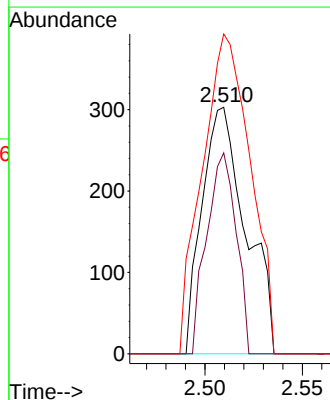
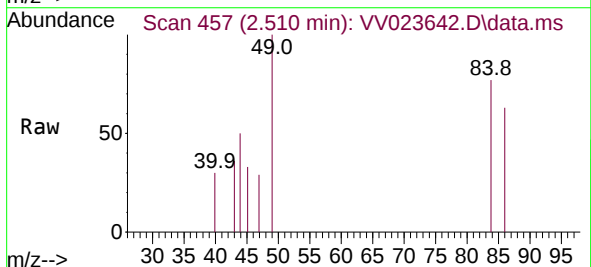
Tgt Ion: 84 Resp: 474

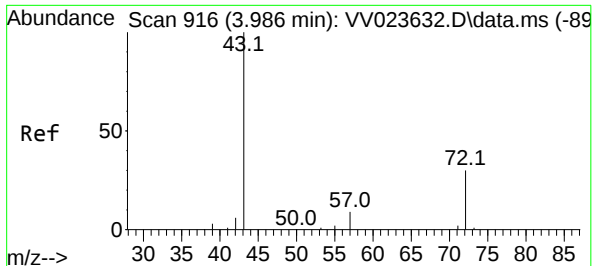
Ion Ratio Lower Upper

84 100

86 81.5 42.3 78.5#

49 129.7 79.7 148.1





#21

2-Butanone

Concen: 0.017 ug/L

RT: 3.963 min Scan# 909

Delta R.T. -0.023 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

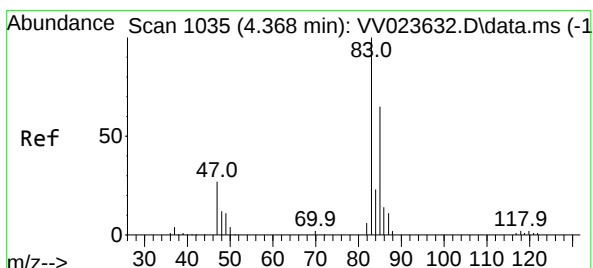
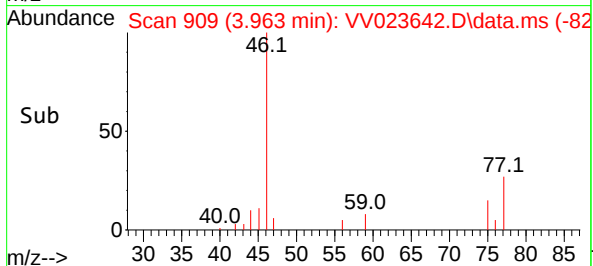
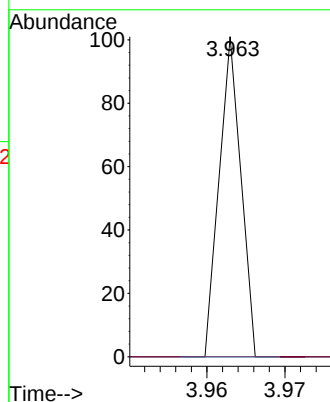
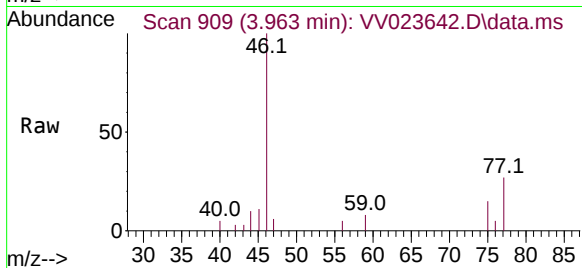
ClientSampleId :

Tgt Ion: 43 Resp: 19

Ion Ratio Lower Upper

43 100

72 0.0 11.9 35.9#



#25

Chloroform

Concen: 0.982 ug/L

RT: 4.381 min Scan# 1039

Delta R.T. 0.013 min

Lab File: VV023642.D

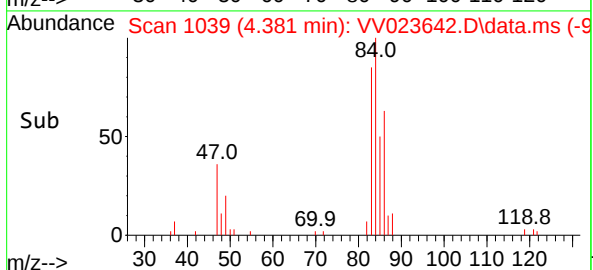
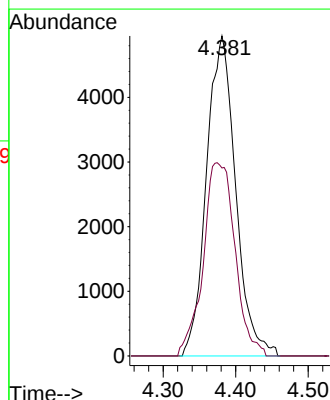
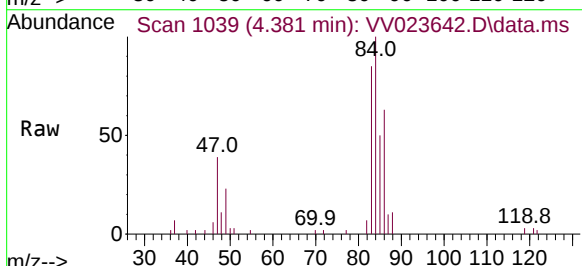
Acq: 19 Nov 2021 14:40

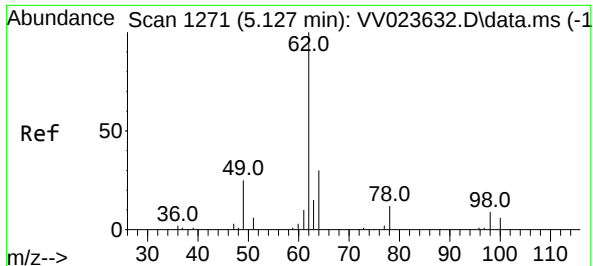
Tgt Ion: 83 Resp: 13840

Ion Ratio Lower Upper

83 100

85 58.8 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.084 ug/L

RT: 5.050 min Scan# 11

Delta R.T. -0.077 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

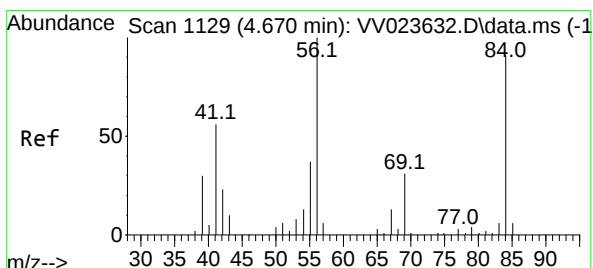
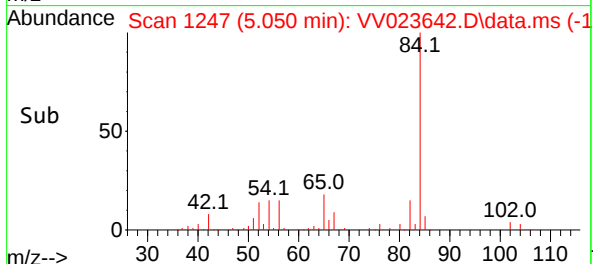
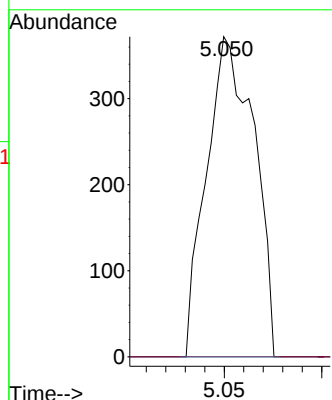
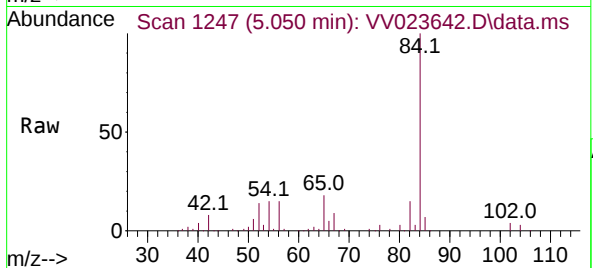
ClientSampleId :

Tgt Ion: 62 Resp: 631

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#30

Cyclohexane

Concen: 0.002 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.003 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

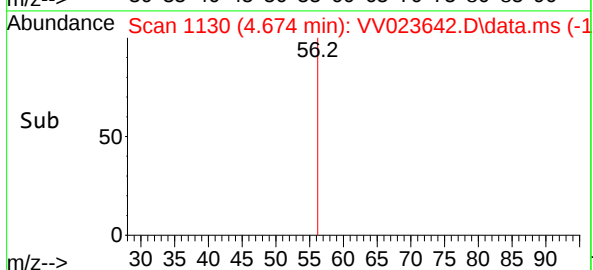
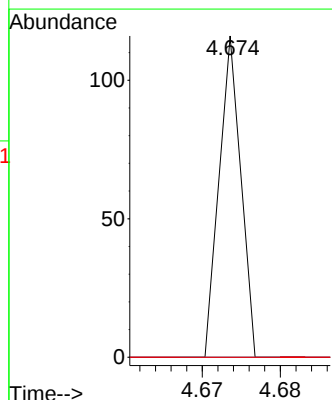
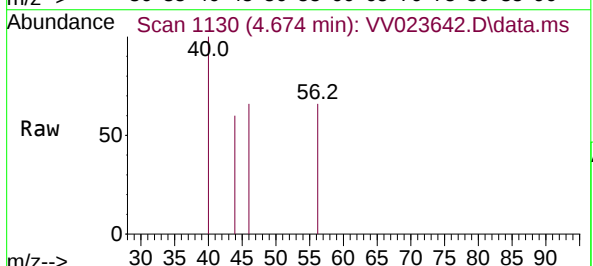
Tgt Ion: 56 Resp: 22

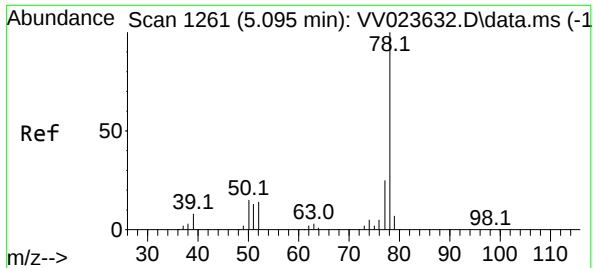
Ion Ratio Lower Upper

56 100

69 350.0 23.5 35.3#

84 0.0 71.6 107.4#

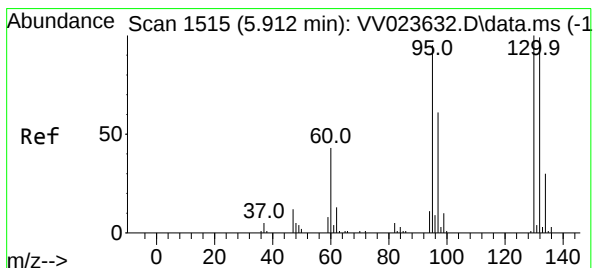
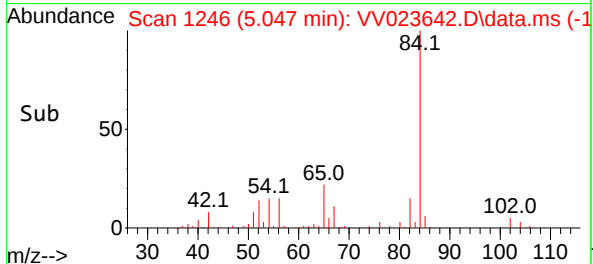
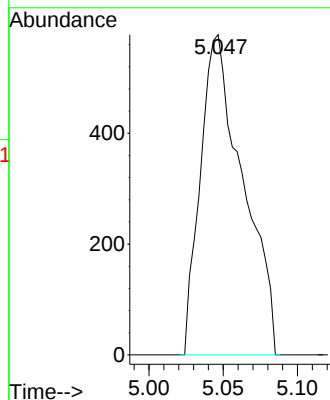
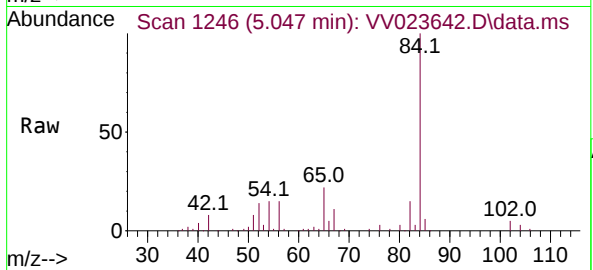




#33
Benzene
Concen: 0.038 ug/L
RT: 5.047 min Scan# 11
Delta R.T. -0.048 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

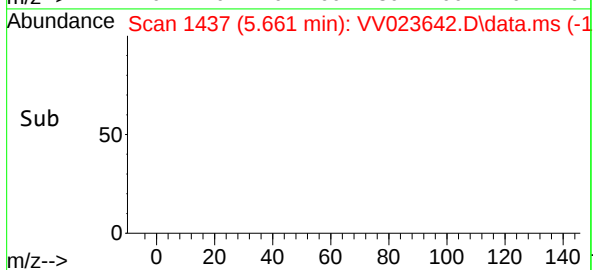
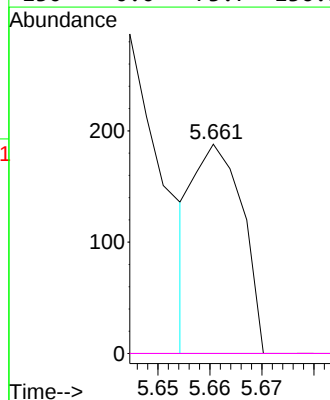
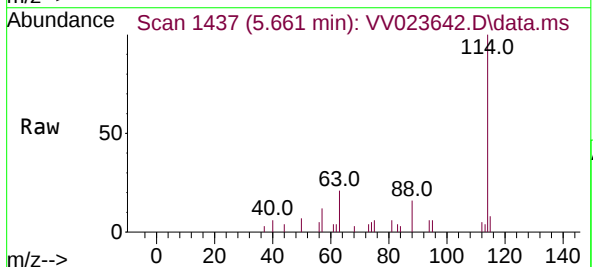
Instrument :
MSVOA_V
ClientSampleId :

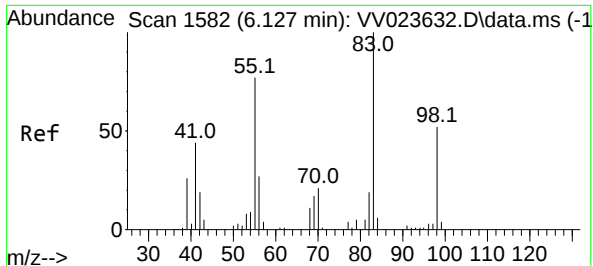
Tgt Ion: 78 Resp: 1149



#34
Trichloroethene
Concen: 0.015 ug/L
RT: 5.661 min Scan# 1437
Delta R.T. -0.251 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 95 Resp: 123
Ion Ratio Lower Upper
95 100
97 0.0 45.0 83.6#
132 0.0 69.7 129.4#
130 0.0 73.7 136.9#





#35

Methylcyclohexane

Concen: 0.687 ug/L

RT: 6.072 min Scan# 1564

Delta R.T. -0.055 min

Lab File: VV023642.D

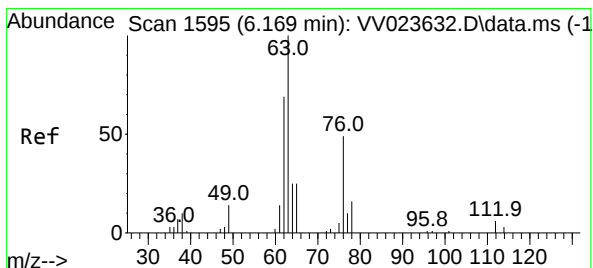
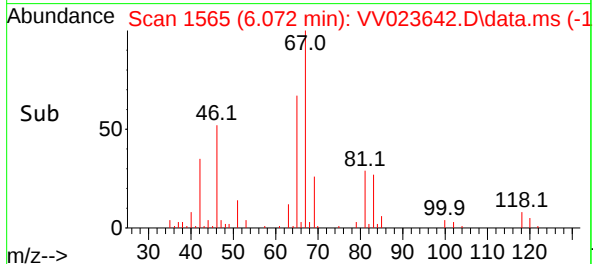
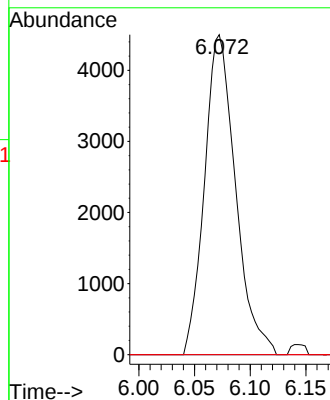
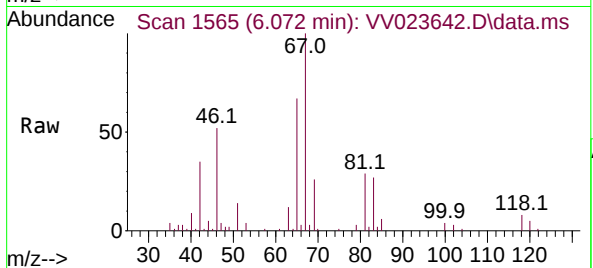
Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 83	Resp: 8720
Ion Ratio	Lower Upper
83 100	
55 0.0	62.8 94.2#
98 2.8	37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.577 ug/L

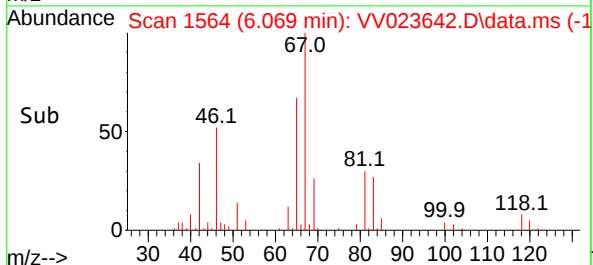
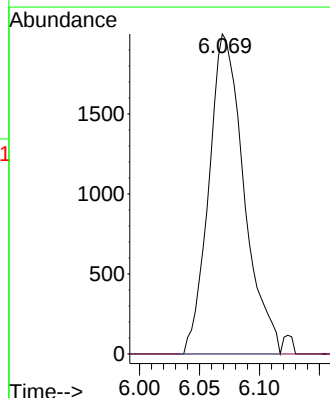
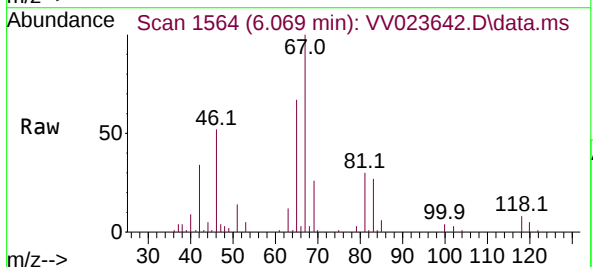
RT: 6.069 min Scan# 1564

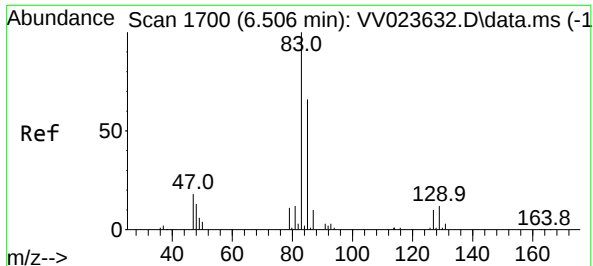
Delta R.T. -0.100 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Tgt Ion: 63	Resp: 4072
Ion Ratio	Lower Upper
63 100	
112 0.0	4.6 6.8#





#38

Bromodichloromethane

Concen: 0.275 ug/L

RT: 6.519 min Scan# 1

Delta R.T. 0.013 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

ClientSampleId :

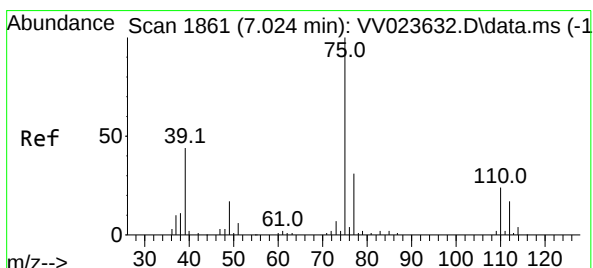
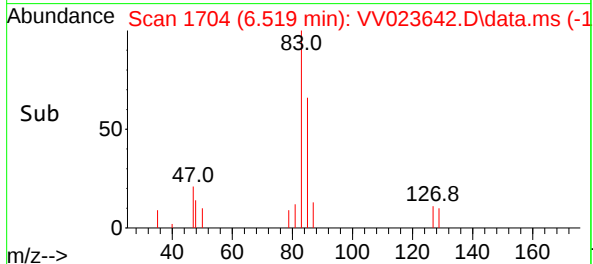
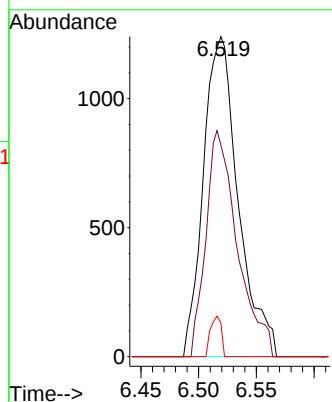
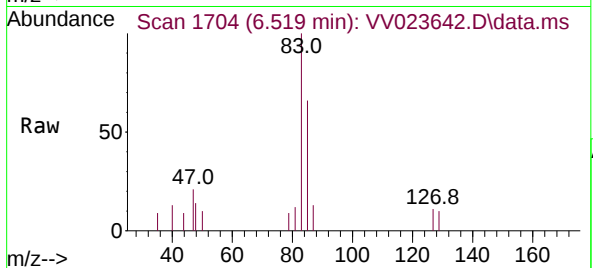
Tgt Ion: 83 Resp: 2601

Ion Ratio Lower Upper

83 100

85 66.2 46.1 85.7

127 10.6 7.2 10.8



#39

cis-1,3-Dichloropropene

Concen: 0.112 ug/L

RT: 6.992 min Scan# 1851

Delta R.T. -0.032 min

Lab File: VV023642.D

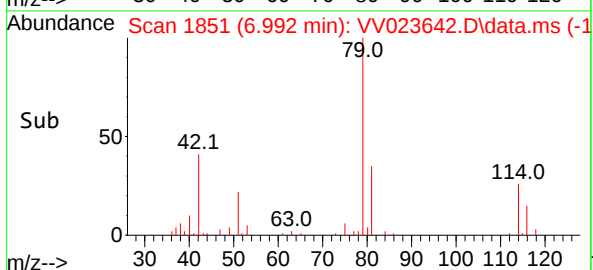
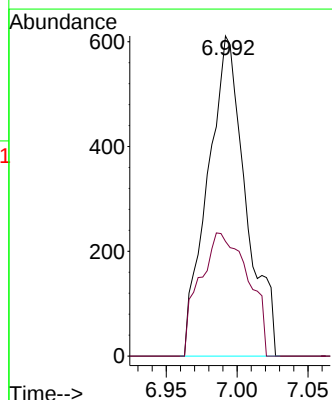
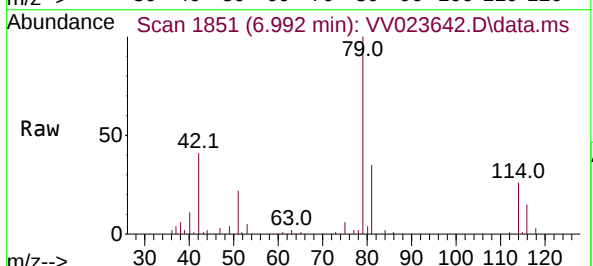
Acq: 19 Nov 2021 14:40

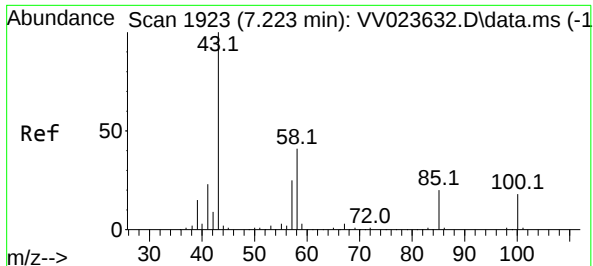
Tgt Ion: 75 Resp: 1142

Ion Ratio Lower Upper

75 100

77 35.8 21.6 40.2





#40

4-Methyl-2-pentanone

Concen: 0.158 ug/L

RT: 7.313 min Scan# 19

Delta R.T. 0.090 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

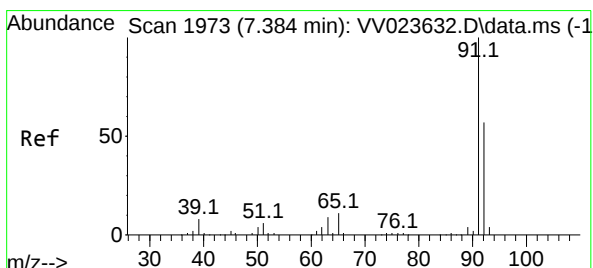
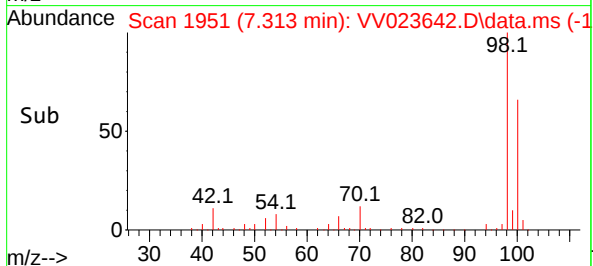
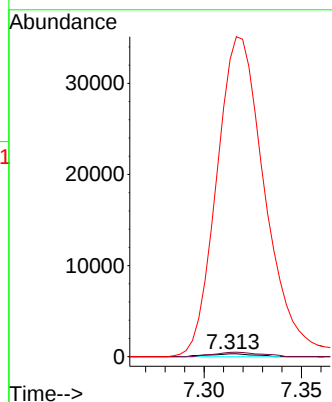
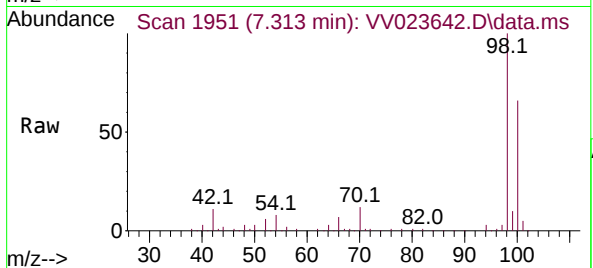
Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43 Resp: 517

Ion	Ratio	Lower	Upper
43	100		
58	158.0	31.1	46.7#
100	12017.8	12.6	19.0#



#42

Toluene

Concen: 0.060 ug/L

RT: 7.397 min Scan# 1977

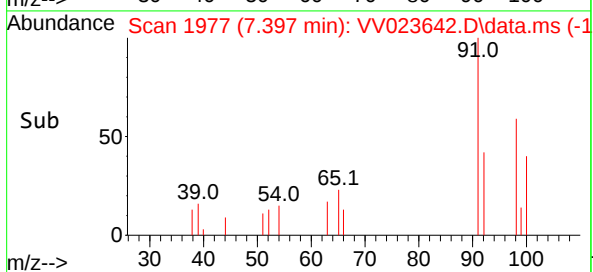
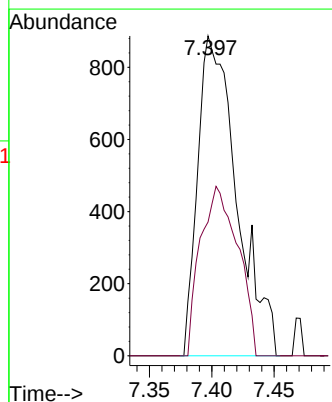
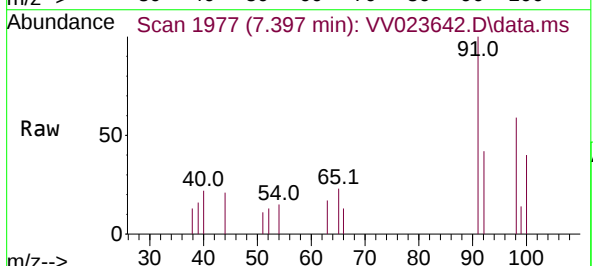
Delta R.T. 0.013 min

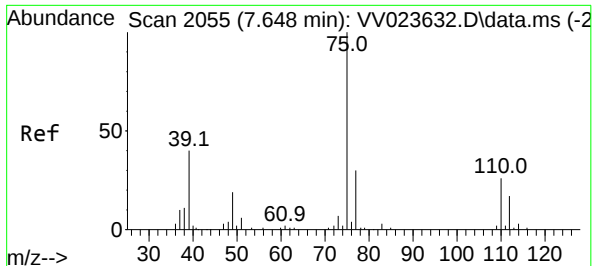
Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Tgt Ion: 91 Resp: 1943

Ion	Ratio	Lower	Upper
91	100		
92	41.8	39.3	72.9

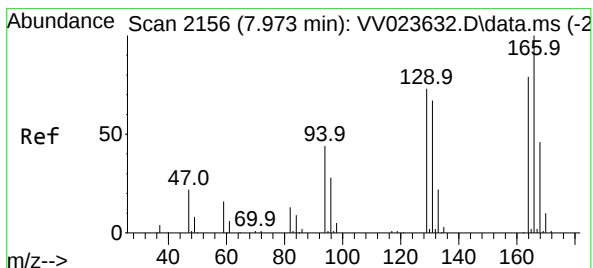
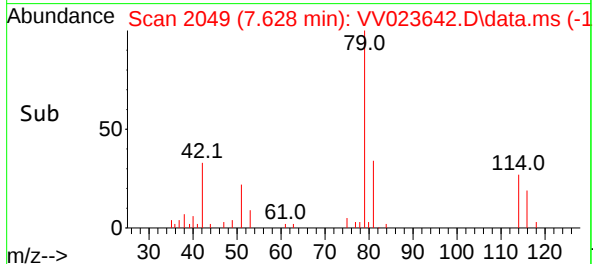
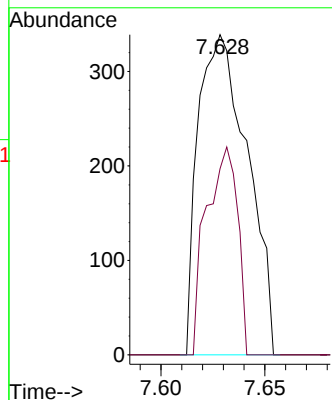
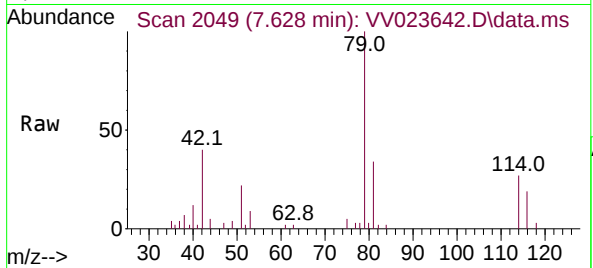




#44
trans-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 7.628 min Scan# 2055
Delta R.T. -0.019 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

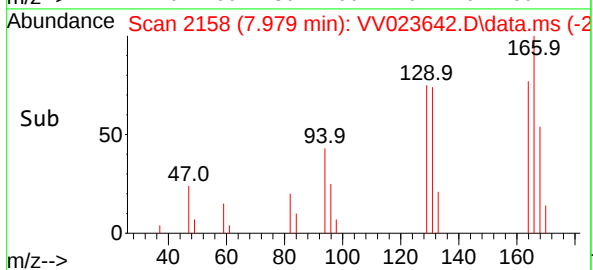
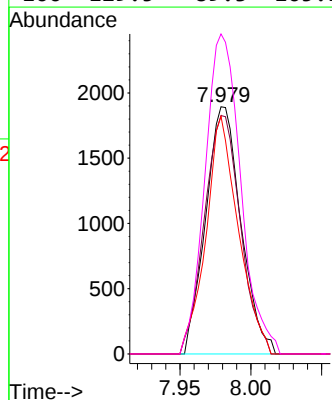
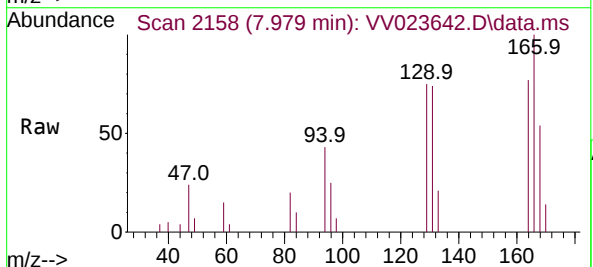
Instrument :
MSVOA_V
ClientSampleId :

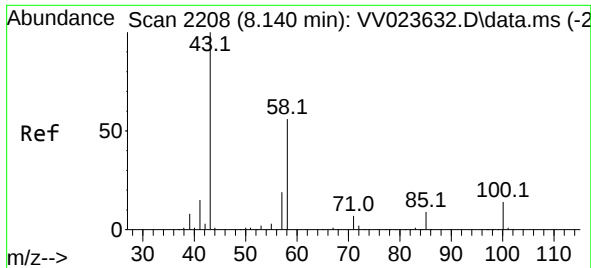
Tgt Ion: 75 Resp: 559
Ion Ratio Lower Upper
75 100
77 58.1 22.5 41.7#



#47
Tetrachloroethene
Concen: 0.471 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. 0.006 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 164 Resp: 3280
Ion Ratio Lower Upper
164 100
129 96.5 64.0 119.0
131 96.1 63.4 117.8
166 129.5 89.3 165.9

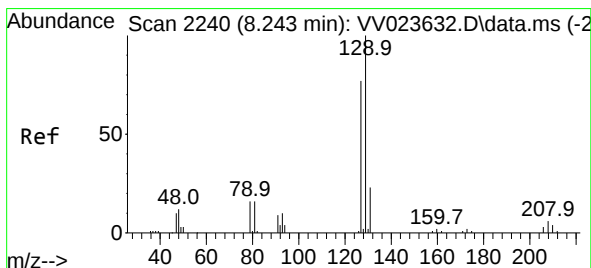
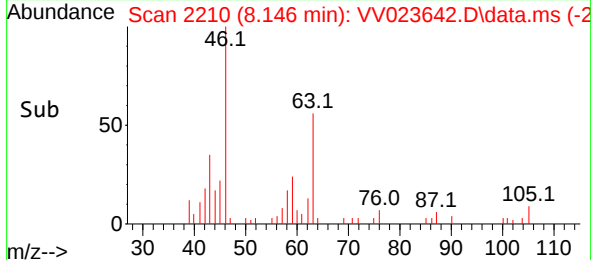
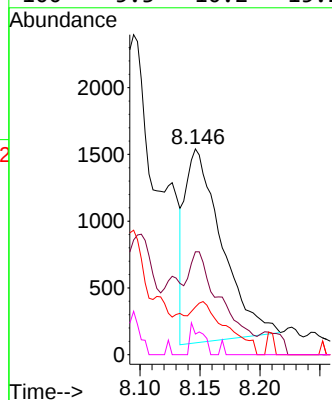
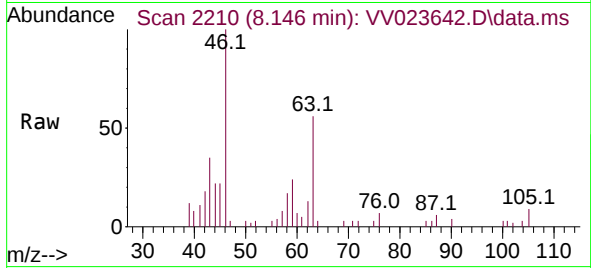




#48
2-Hexanone
Concen: 1.341 ug/L
RT: 8.146 min Scan# 2110
Delta R.T. 0.006 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

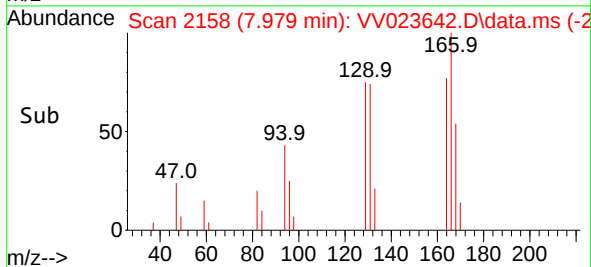
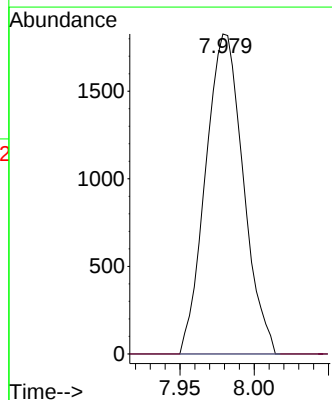
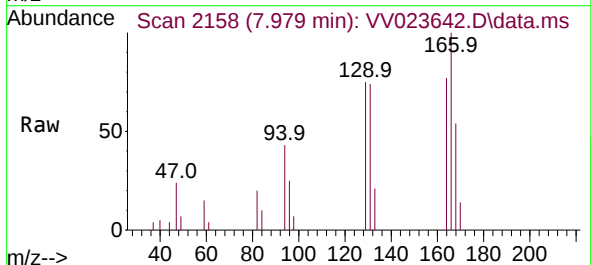
Instrument :
MSVOA_V
ClientSampleId :

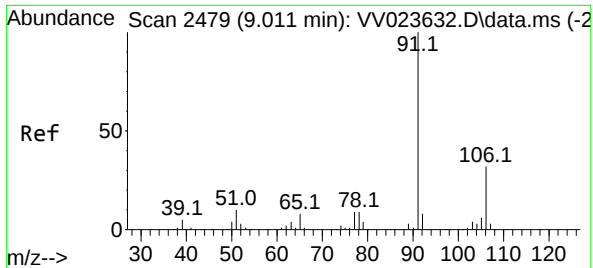
Tgt Ion: 43	Resp: 3076
Ion Ratio	Lower Upper
43	100
58	49.4 43.7 65.5
57	25.5 14.1 21.1#
100	5.3 10.2 15.2#



#49
Dibromochloromethane
Concen: 0.502 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.264 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 129	Resp: 3225
Ion Ratio	Lower Upper
129	100
127	0.0 54.7 101.7#

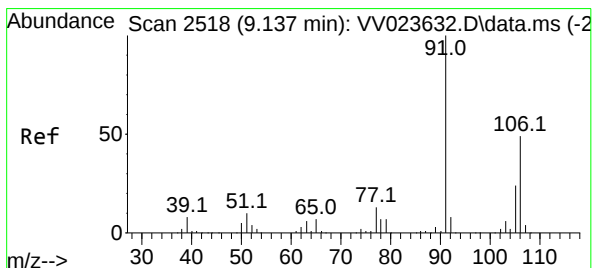
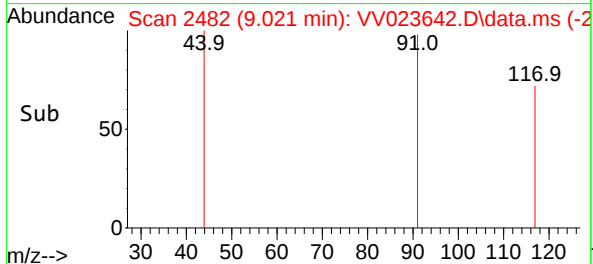
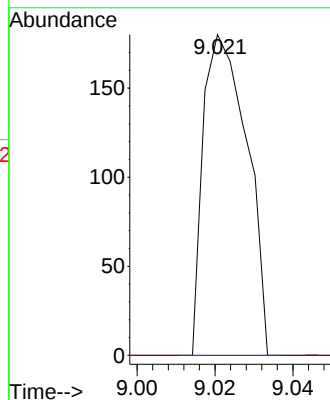
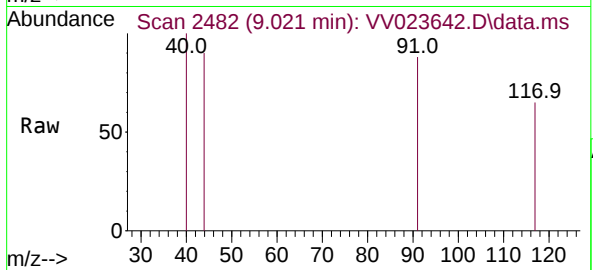




#52
Ethylbenzene
Concen: 0.004 ug/L
RT: 9.021 min Scan# 2479
Delta R.T. 0.009 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

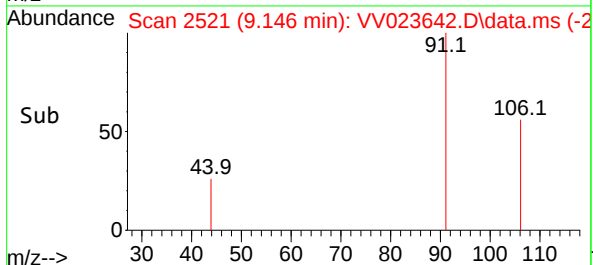
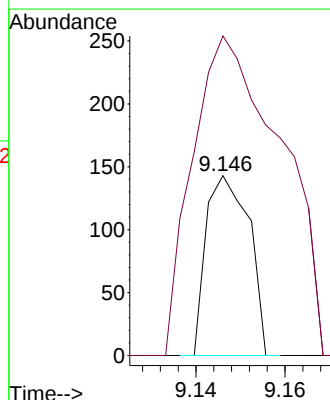
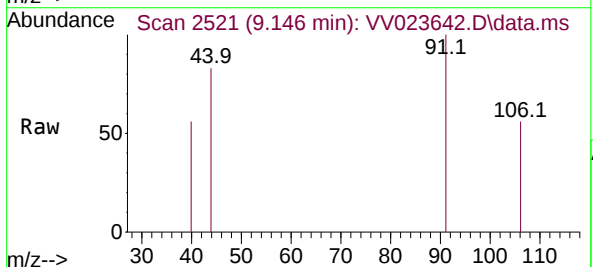
Instrument :
MSVOA_V
ClientSampleId :

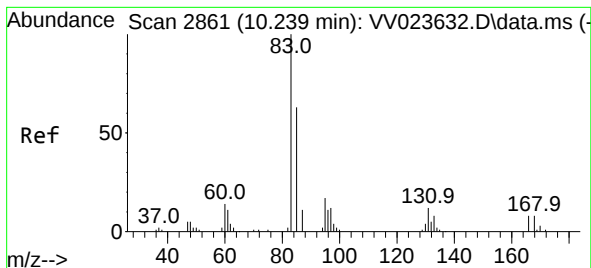
Tgt Ion: 91 Resp: 140
Ion Ratio Lower Upper
91 100
106 0.0 22.5 41.9#



#53
m,p-xylene
Concen: 0.007 ug/L
RT: 9.146 min Scan# 2521
Delta R.T. 0.010 min
Lab File: VV023642.D
Acq: 19 Nov 2021 14:40

Tgt Ion: 106 Resp: 96
Ion Ratio Lower Upper
106 100
91 177.6 137.2 254.8





#57

1,1,2,2-Tetrachloroethane

Concen: 0.009 ug/L

RT: 10.226 min Scan# 21

Delta R.T. -0.013 min

Lab File: VV023642.D

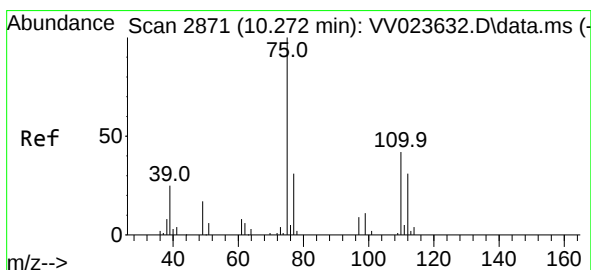
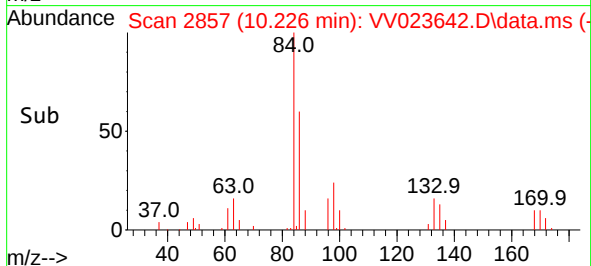
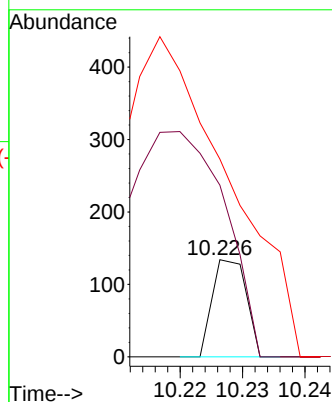
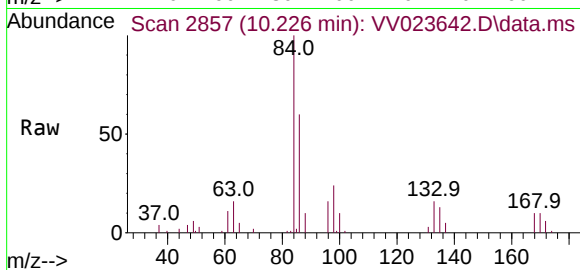
Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	51
Ion	Ratio	Lower	Upper
83	100		
85	176.9	45.1	83.9#
131	203.7	7.8	11.6#



#61

1,2,3-Trichloropropane

Concen: 1.590 ug/L

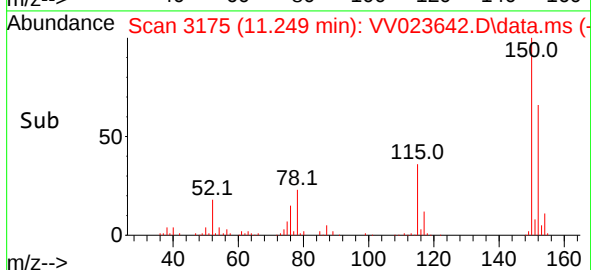
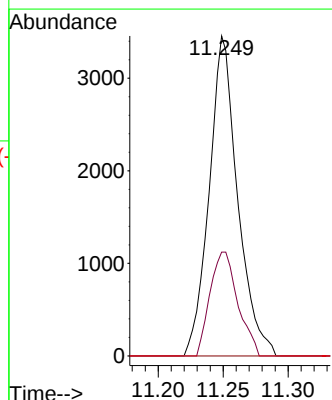
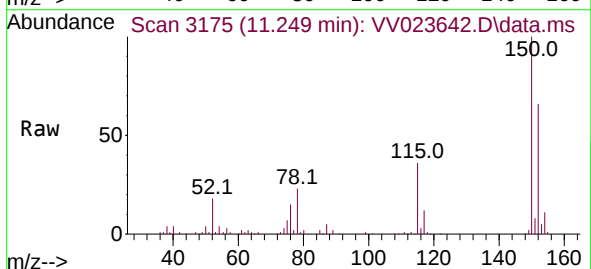
RT: 11.249 min Scan# 3175

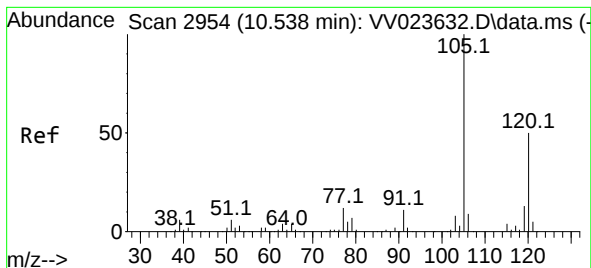
Delta R.T. 0.977 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Tgt Ion:	75	Resp:	5259
Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.6	39.8
110	0.0	31.8	47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.007 ug/L

RT: 10.921 min Scan# 3073

Delta R.T. 0.382 min

Lab File: VV023642.D

Acq: 19 Nov 2021 14:40

Instrument :

MSVOA_V

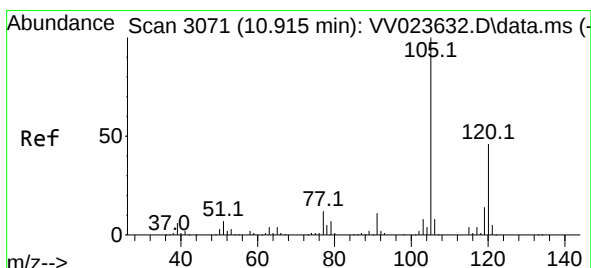
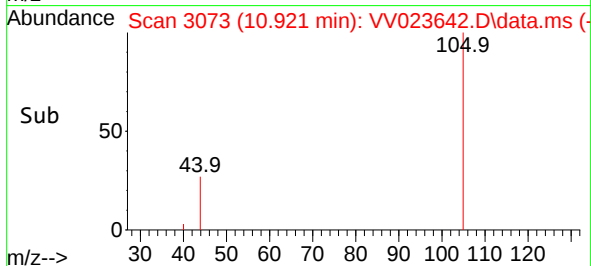
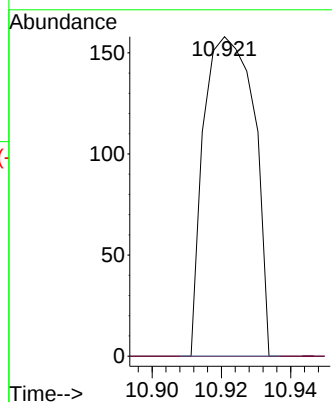
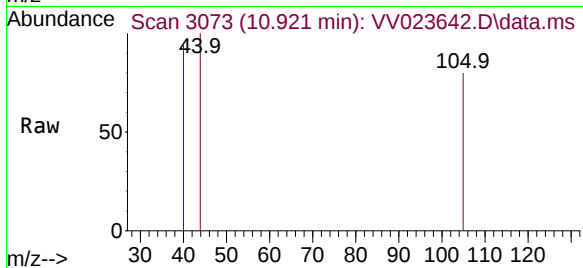
ClientSampleId :

Tgt Ion:105 Resp: 159

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: VV023642.D

Acq: 19 Nov 2021 14:40

Tgt Ion:105 Resp: 159

Ion Ratio Lower Upper

105 100

120 0.0 37.4 56.2#

