

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021120\
 Data File : VV014554.D
 Acq On : 11 Feb 2020 09:50
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 12 03:18:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM020120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 12 03:16:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	331467	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	309703	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	157011	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70722	38.42	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.84%
7) Chloroethane-d5	1.58	69	50610	44.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.44%
11) 1,1-Dichloroethene-d2	2.13	63	116263	47.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.62%
21) 2-Butanone-d5	3.92	46	124731	100.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.70%
24) Chloroform-d	4.40	84	202276	51.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.84%
26) 1,2-Dichloroethane-d4	5.07	65	122960	52.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.78%
32) Benzene-d6	5.09	84	406523	49.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.70%
36) 1,2-Dichloropropane-d6	6.11	67	123378	47.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.64%
41) Toluene-d8	7.35	98	383753	50.98	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.96%
43) trans-1,3-Dichloropropene-	7.66	79	67649	51.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	103.18%
47) 2-Hexanone-d5	8.12	63	103564	102.60	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.60%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	165781	49.87	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.74%
64) 1,2-Dichlorobenzene-d4	11.67	152	149579	51.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.46%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	135391	48.856	ug/L	100
3) Chloromethane	1.26	50	115546	39.935	ug/L	99
5) Vinyl chloride	1.33	62	84822	36.483	ug/L	96
6) Bromomethane	1.54	94	43122	55.666	ug/L	96
8) Chloroethane	1.60	64	41052	40.211	ug/L	96
9) Trichlorofluoromethane	1.77	101	138667	51.800	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	60974	48.584	ug/L	95
12) 1,1-Dichloroethene	2.14	96	55237	43.807	ug/L	95
13) Acetone	2.18	43	102045	96.552	ug/L	99
14) Carbon disulfide	2.32	76	273829	44.216	ug/L	100
15) Methyl Acetate	2.45	43	87294	42.860	ug/L	95
16) Methylene chloride	2.54	84	108956	44.877	ug/L	95
17) trans-1,2-Dichloroethene	2.79	96	104844	47.938	ug/L	96
18) Methyl tert-butyl Ether	2.80	73	334210	49.680	ug/L	98
19) 1,1-Dichloroethane	3.23	63	185165	46.397	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	121501	49.811	ug/L	91
22) 2-Butanone	4.00	43	150793	99.016	ug/L	97

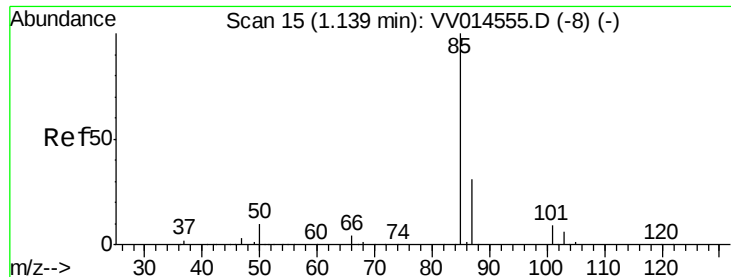
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021120\
 Data File : VV014554.D
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Quant Time: Feb 12 03:18:32 2020
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 Quant Title : VOC Analysis
 QLast Update : Wed Feb 12 03:16:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	59745	52.247	ug/L	87
25) Chloroform	4.42	83	200518	49.882	ug/L	100
27) 1,2-Dichloroethane	5.17	62	147586	51.640	ug/L	100
29) Cyclohexane	4.72	56	172161	45.502	ug/L	94
30) 1,1,1-Trichloroethane	4.65	97	176768	53.263	ug/L	99
31) Carbon tetrachloride	4.87	117	159241	54.992	ug/L	99
33) Benzene	5.14	78	434455	47.543	ug/L	100
34) Trichloroethene	5.96	95	116362	50.416	ug/L	97
35) Methylcyclohexane	6.17	83	188180	49.068	ug/L	98
37) 1,2-Dichloropropane	6.22	63	107316	46.993	ug/L	99
38) Bromodichloromethane	6.55	83	153940	50.346	ug/L	100
39) cis-1,3-Dichloropropene	7.06	75	190982	50.859	ug/L	97
40) 4-Methyl-2-pentanone	7.26	43	254397	92.144	ug/L #	94
42) Toluene	7.43	91	471311	49.269	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	169002	50.678	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	107176	49.672	ug/L	99
46) Tetrachloroethene	8.01	164	92497	54.798	ug/L	98
48) 2-Hexanone	8.17	43	203297	94.135	ug/L	97
49) Dibromochloromethane	8.28	129	128005	53.921	ug/L	97
50) 1,2-Dibromoethane	8.39	107	116478	50.702	ug/L	99
51) Chlorobenzene	8.92	112	310728	50.776	ug/L	99
52) Ethylbenzene	9.05	91	542137	50.494	ug/L	100
53) m,p-Xylene	9.18	106	206392	51.481	ug/L	99
54) o-xylene	9.58	106	201004	50.599	ug/L	98
55) Styrene	9.60	104	345138	51.769	ug/L	99
56) Isopropylbenzene	9.97	105	529284	52.108	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	168046	48.753	ug/L	99
59) 1,2,3-Trichloropropane	10.31	75	132505	49.099	ug/L	100
61) Bromoform	9.77	173	87962	53.618	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	250966	51.970	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	254865	51.267	ug/L	97
65) 1,2-Dichlorobenzene	11.68	146	241132	50.518	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	37127	48.930	ug/L	92
67) 1,3,5-Trichlorobenzene	12.69	180	181540	55.802	ug/L	99
68) 1,2,4-trichlorobenzene	13.30	180	167196	56.575	ug/L	100
69) Naphthalene	13.54	128	497535	53.161	ug/L	100
70) 1,2,3-Trichlorobenzene	13.78	180	158105	55.520	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 48.856 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

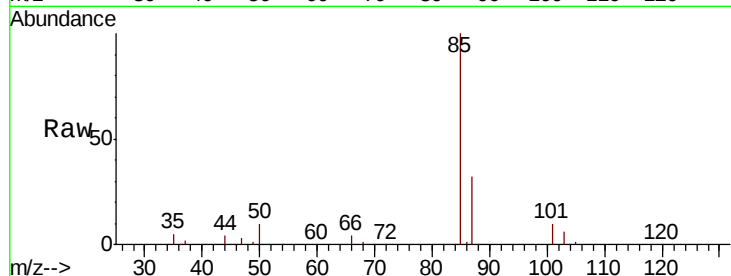
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 135391

Ion Ratio Lower Upper

85 100

87 32.2 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV014555.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014555.D (-8) (-)

1.14

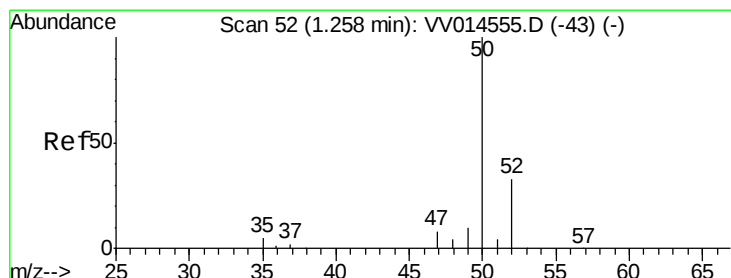
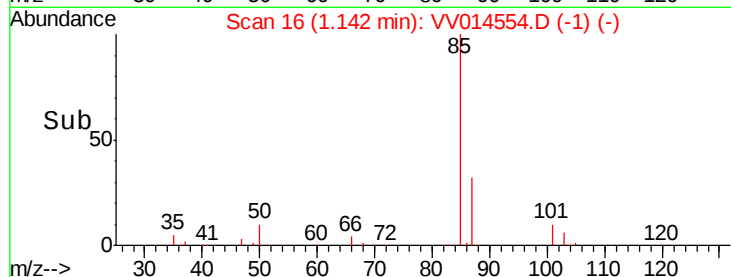
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 39.935 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014554.D

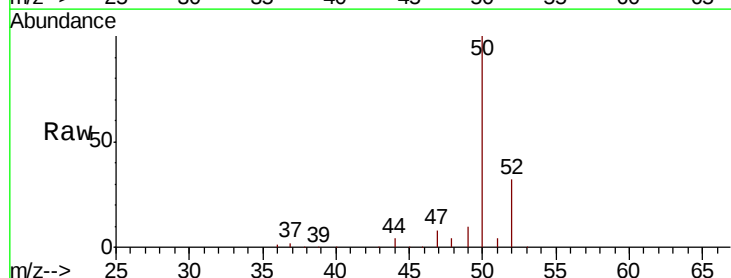
Acq: 11 Feb 2020 09:50

Tgt Ion: 50 Resp: 115546

Ion Ratio Lower Upper

50 100

52 32.1 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VV014555.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV014555.D (-43) (-)

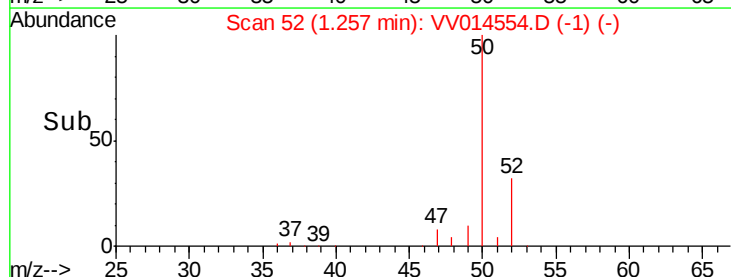
1.26

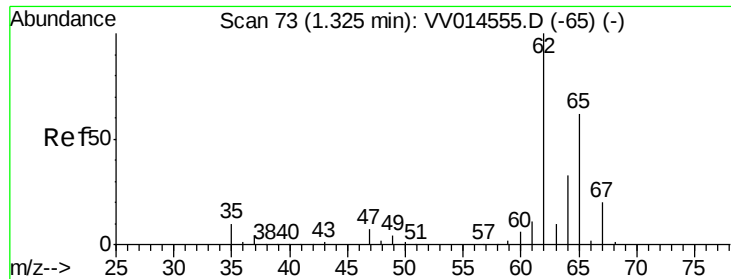
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 36.483 ug/L

RT: 1.33 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

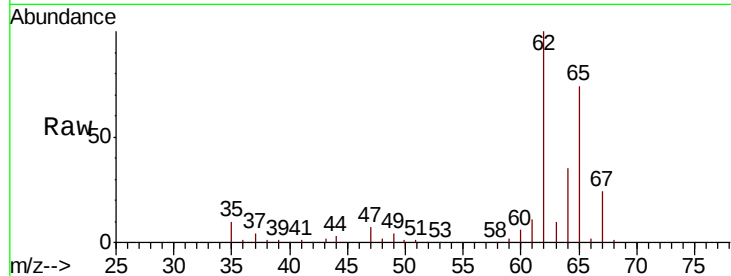
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 84822

Ion Ratio Lower Upper

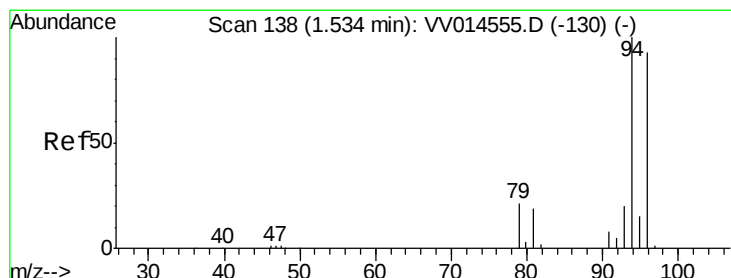
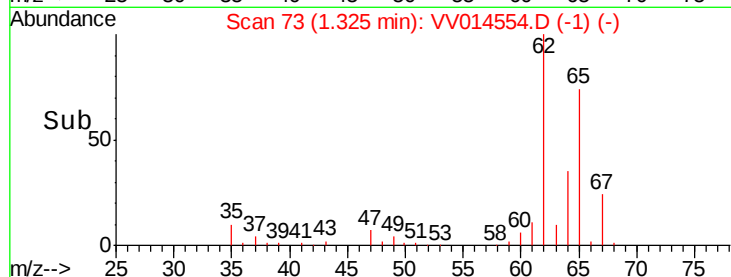
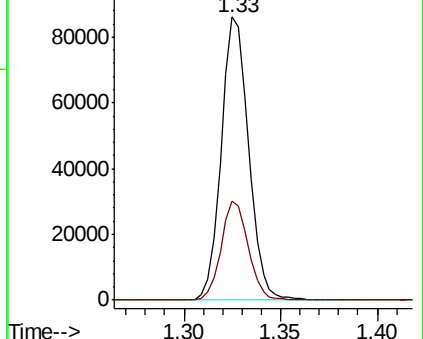
62 100

64 34.9 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 55.666 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014554.D

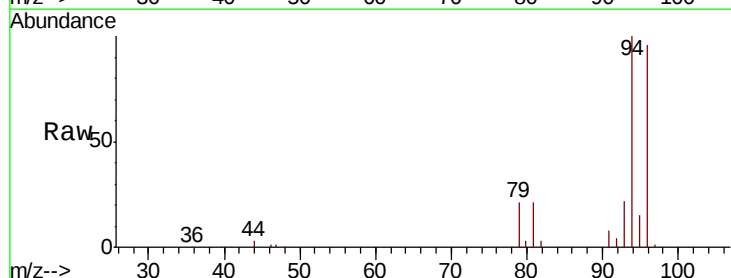
Acq: 11 Feb 2020 09:50

Tgt Ion: 94 Resp: 43122

Ion Ratio Lower Upper

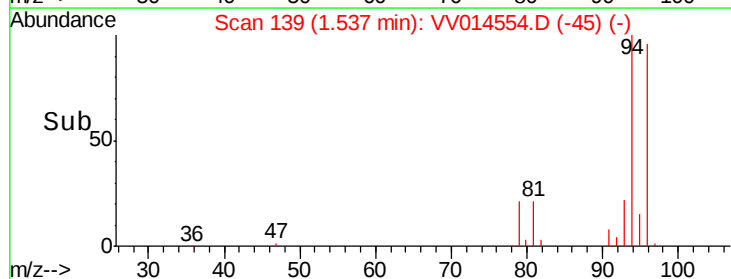
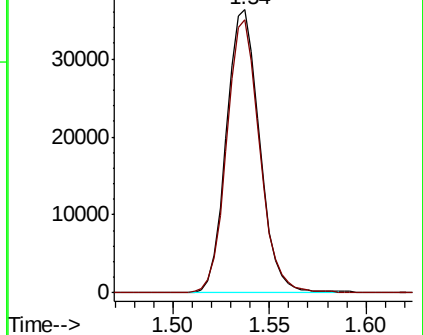
94 100

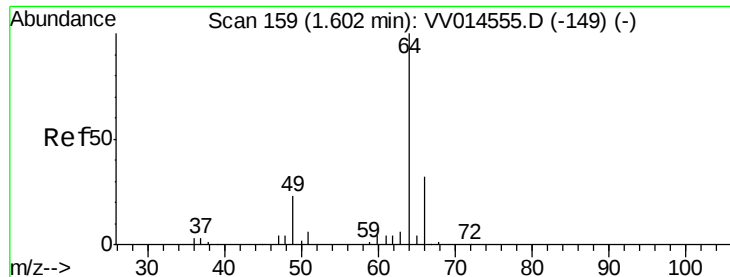
96 96.4 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 40.211 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

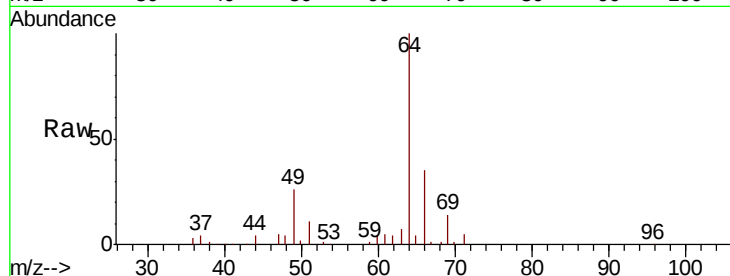
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 41052

Ion Ratio Lower Upper

64 100

66 35.2 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VV014555.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV014555.D (-149) (-)

1.60

40000

30000

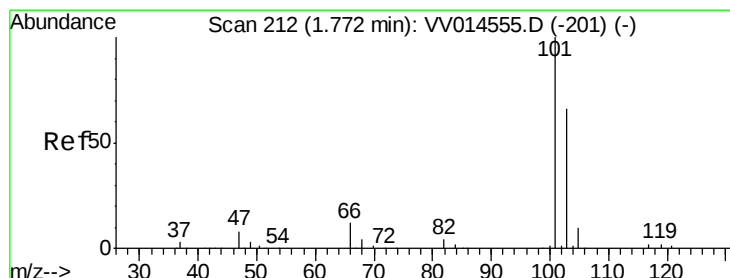
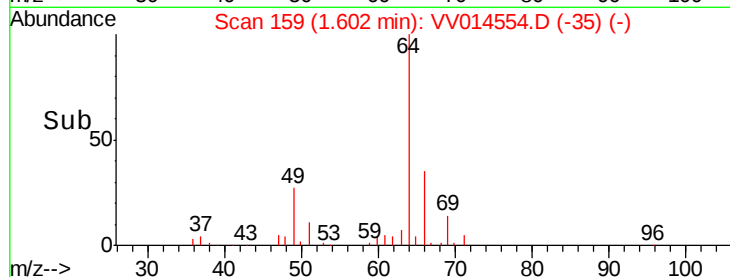
20000

10000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 51.800 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV014554.D

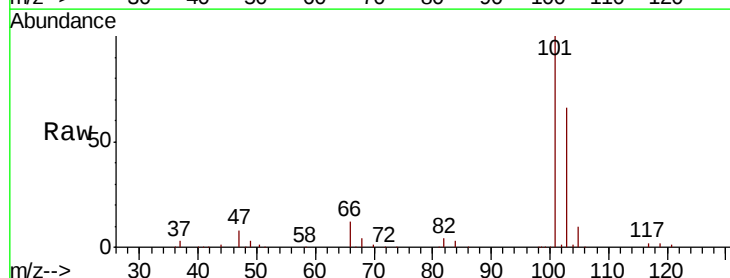
Acq: 11 Feb 2020 09:50

Tgt Ion: 101 Resp: 138667

Ion Ratio Lower Upper

101 100

103 65.0 50.6 75.8



Abundance Ion 101.00 (100.70 to 101.70): VV014555.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV014555.D (-201) (-)

1.77

120000

100000

80000

60000

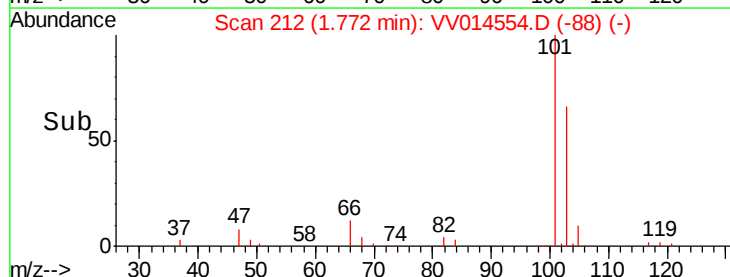
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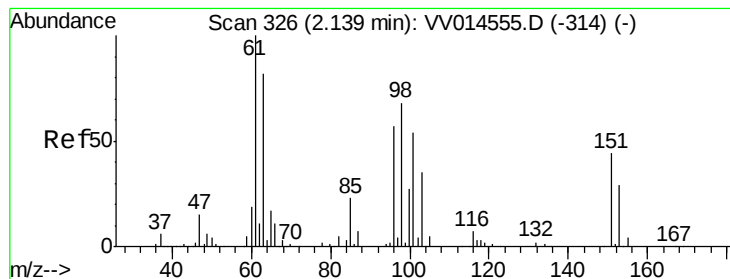
20000

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Time-->

1.70 1.75 1.80 1.85





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 48.584 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampled :

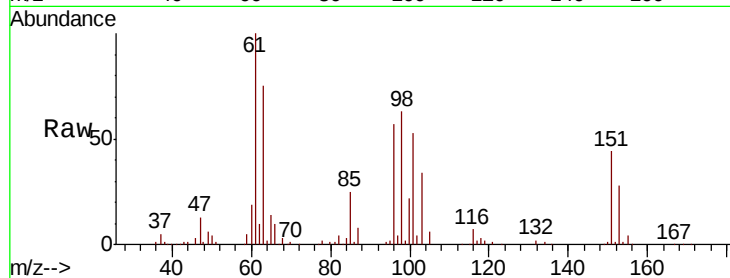
Tot Ion:101 Resp: 60974

Ion Ratio Lower Upper

101 100

85 45.0 34.6 51.8

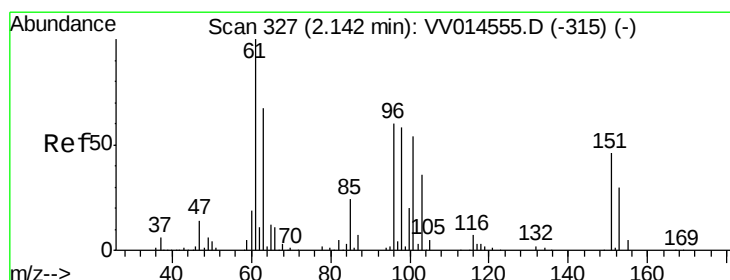
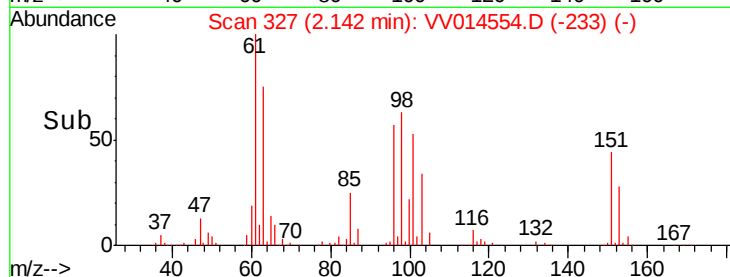
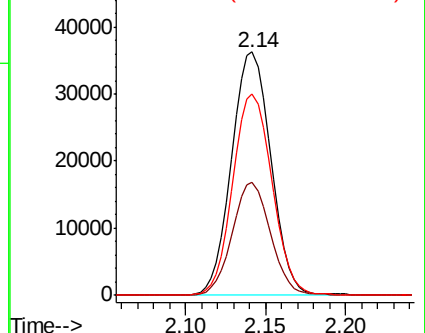
151 82.4 61.2 91.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 43.807 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

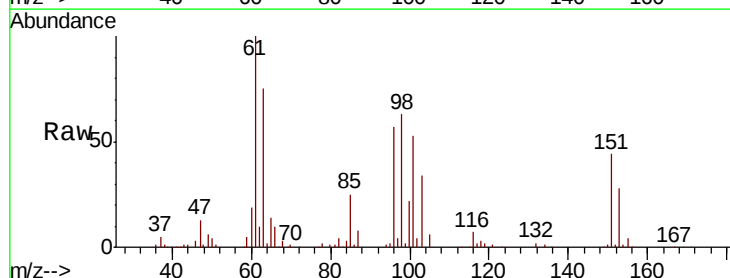
Tgt Ion: 96 Resp: 55237

Ion Ratio Lower Upper

96 100

61 176.7 120.5 223.7

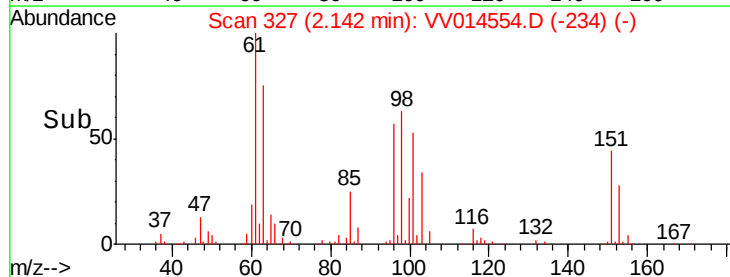
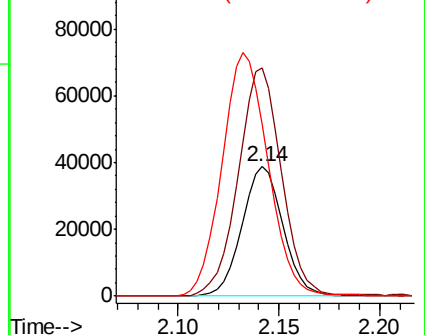
63 132.4 87.1 161.7

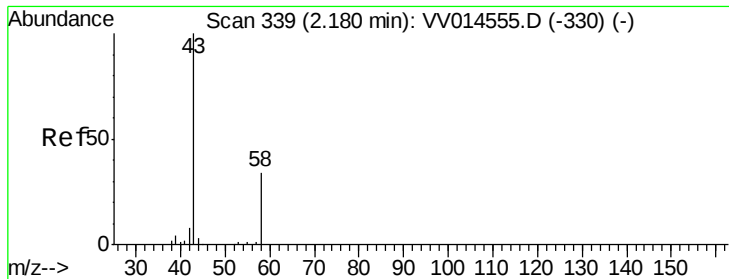


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 96.552 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

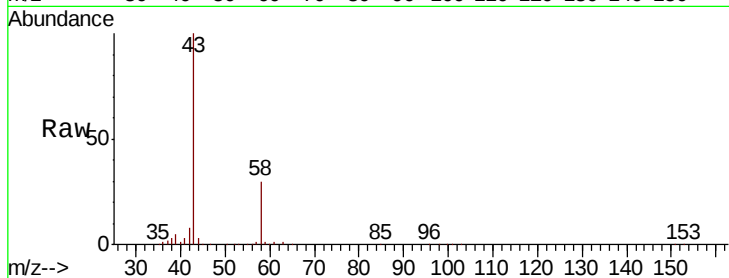
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 102045

Ion Ratio Lower Upper

43 100

58 30.1 0.0 61.2



Abundance Ion 43.00 (42.70 to 43.70): VV014555.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV014555.D (-330) (-)

2.18

80000

60000

40000

20000

0

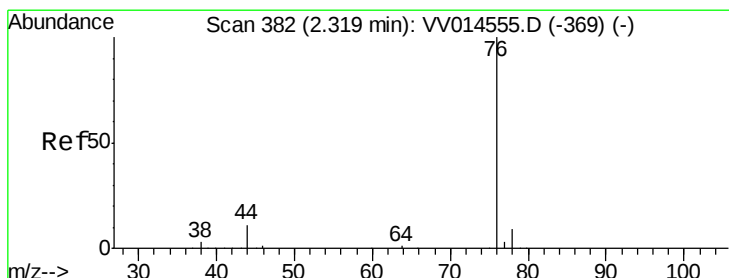
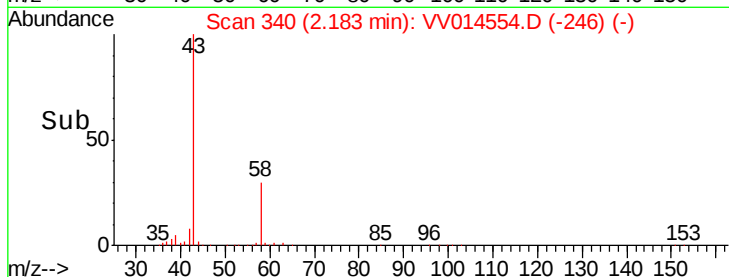
Time-->

2.10

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 44.216 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014554.D

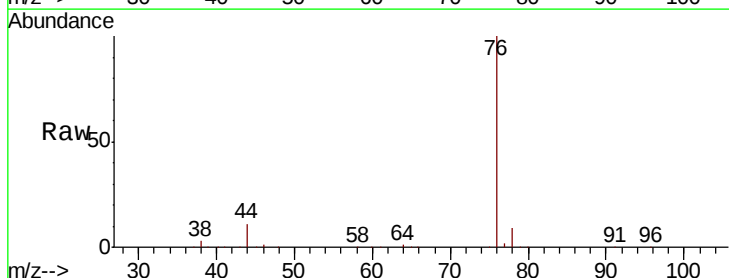
Acq: 11 Feb 2020 09:50

Tgt Ion: 76 Resp: 273829

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV014555.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV014555.D (-369) (-)

2.32

200000

150000

100000

50000

0

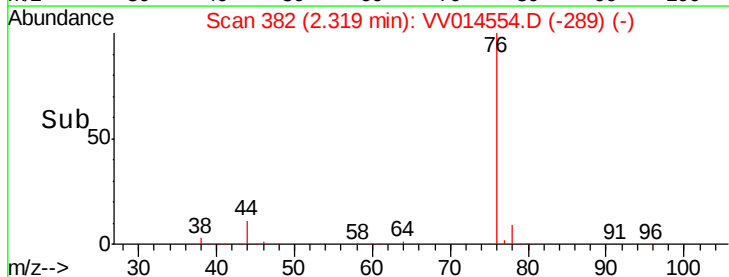
Time-->

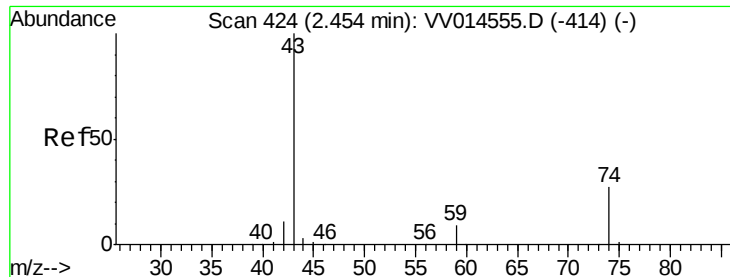
2.25

2.30

2.35

2.40

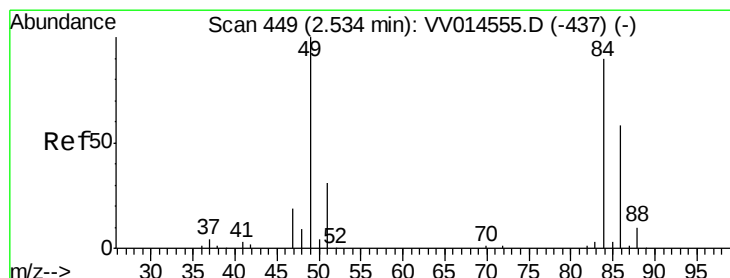
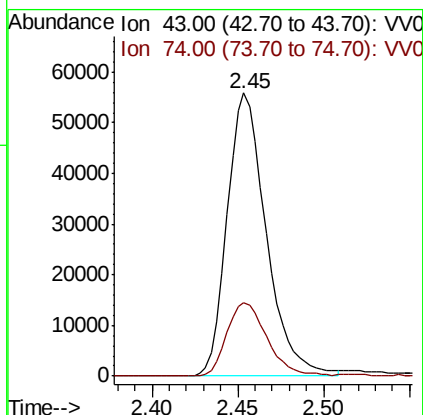
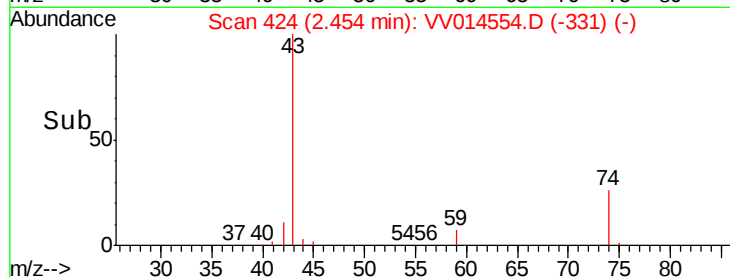
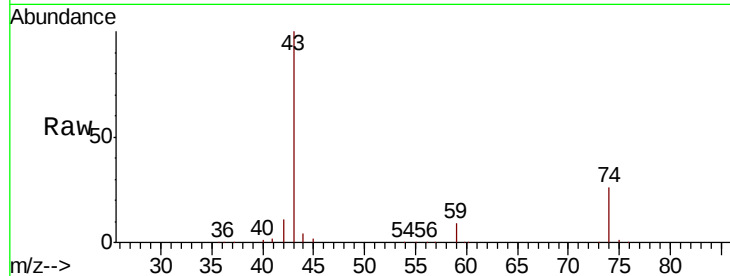




#15
Methvl Acetate
Concen: 42.860 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

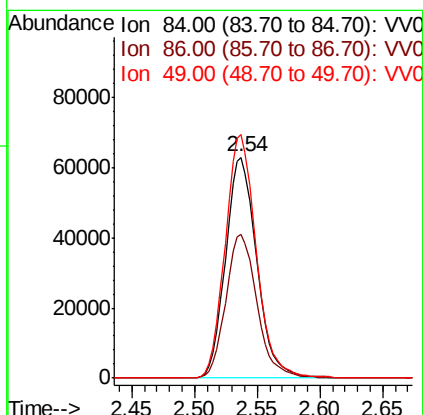
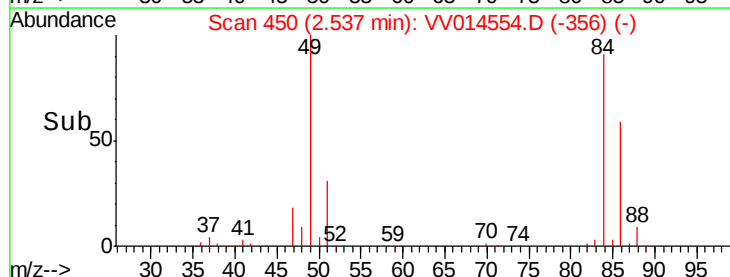
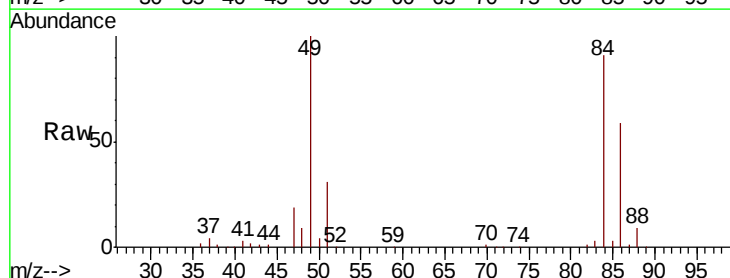
Instrument :
MSVOA_V
ClientSampleId :

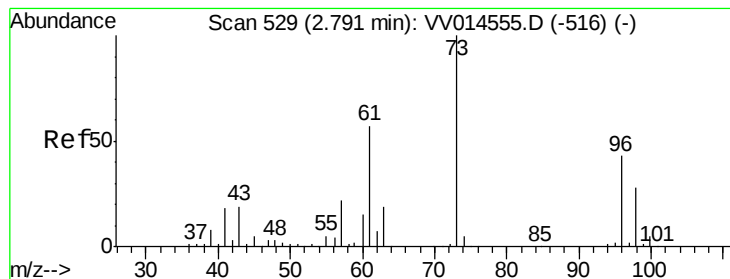
Tot Ion: 43 Resp: 87294
Ion Ratio Lower Upper
43 100
74 27.1 19.6 29.4



#16
Methylene chloride
Concen: 44.877 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

Tgt Ion: 84 Resp: 108956
Ion Ratio Lower Upper
84 100
86 64.9 45.6 84.8
49 110.1 82.7 153.7





#17

trans-1,2-Dichloroethene

Concen: 47.938 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :
MSVOA_V
ClientSampled :

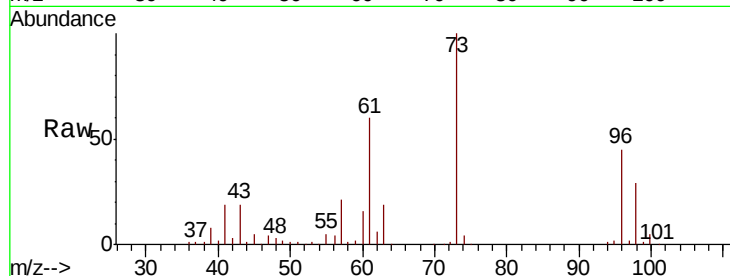
Tot Ion: 96 Resp: 104844

Ion Ratio Lower Upper

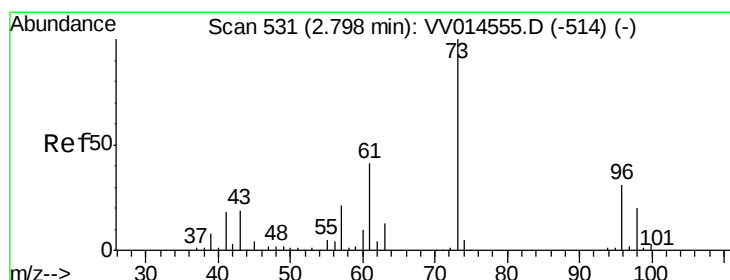
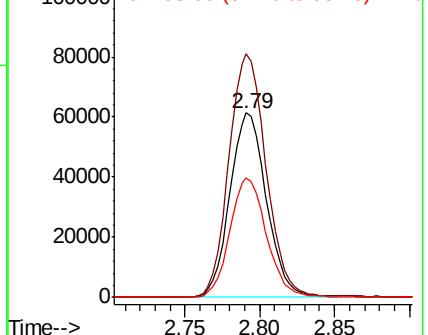
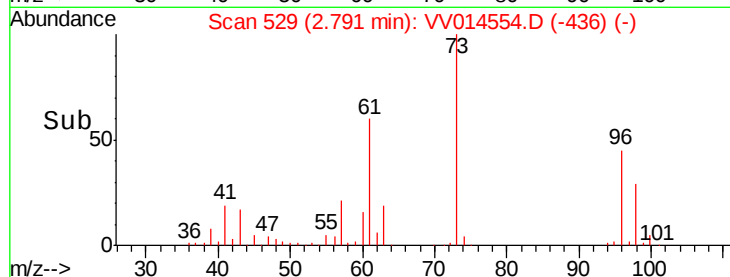
96 100

61 131.9 96.7 179.7

98 64.9 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 49.680 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

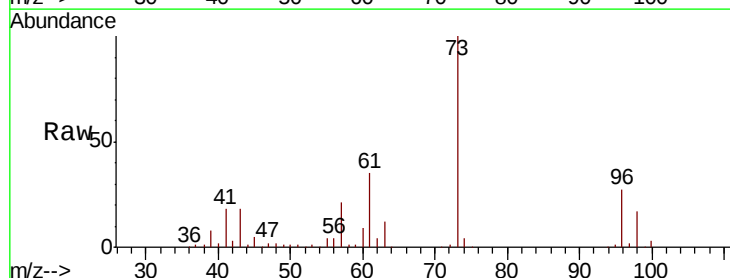
Tgt Ion: 73 Resp: 334210

Ion Ratio Lower Upper

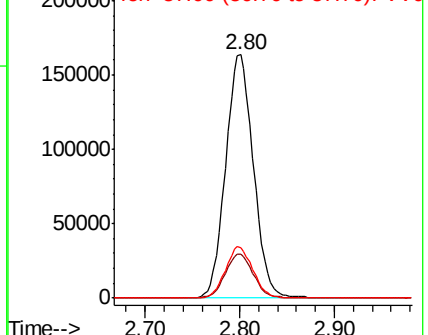
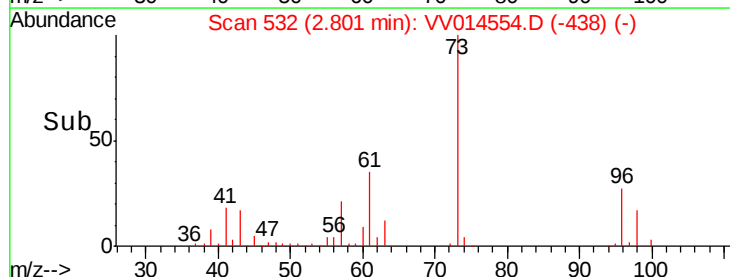
73 100

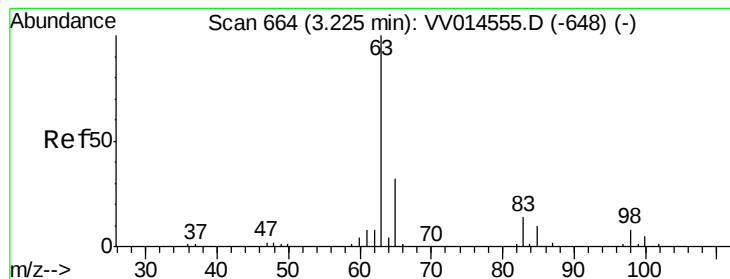
43 18.2 14.1 21.1

57 20.9 17.9 26.9



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 46.397 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

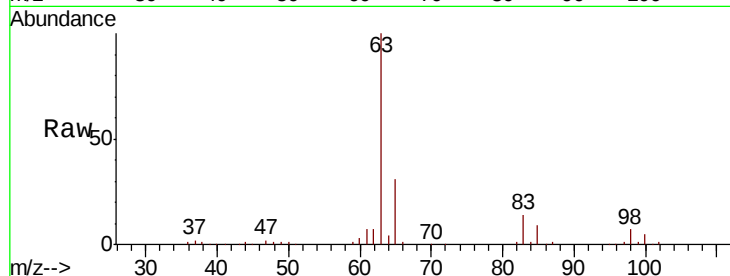
Tot Ion: 63 Resp: 185165

Ion Ratio Lower Upper

63 100

65 31.3 22.1 41.1

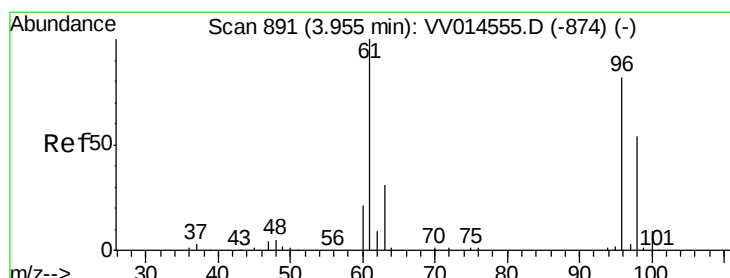
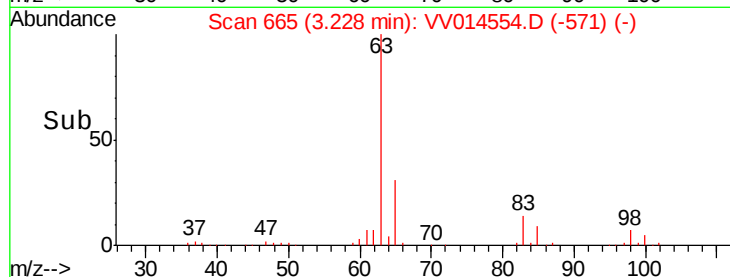
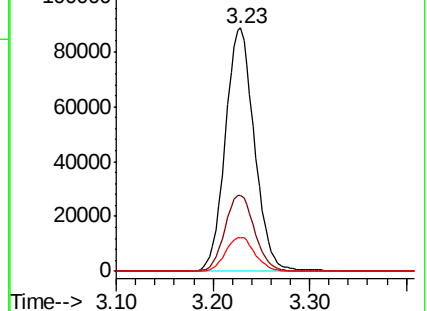
83 14.0 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 49.811 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

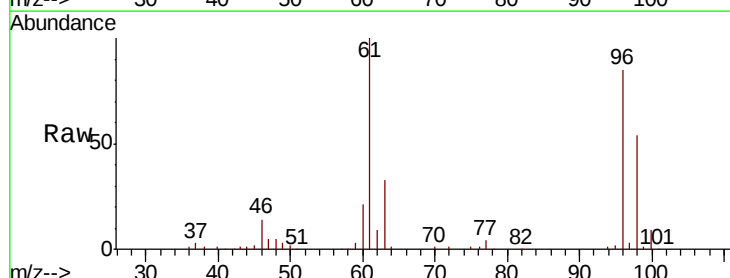
Tgt Ion: 96 Resp: 121501

Ion Ratio Lower Upper

96 100

61 117.2 88.9 165.1

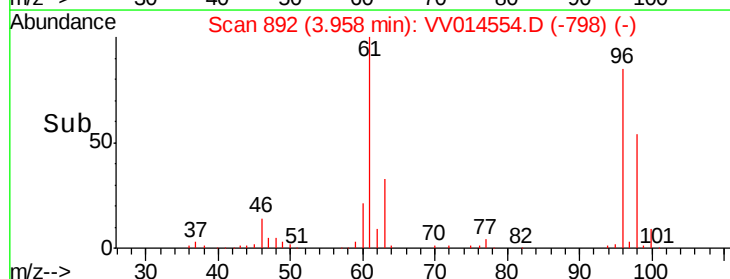
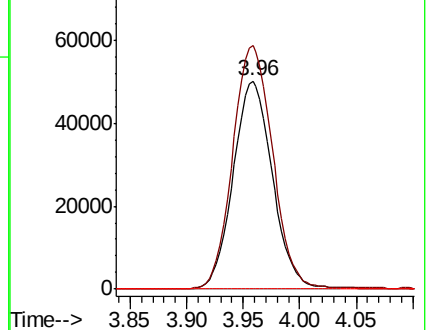
68 0.0 0.0 0.0

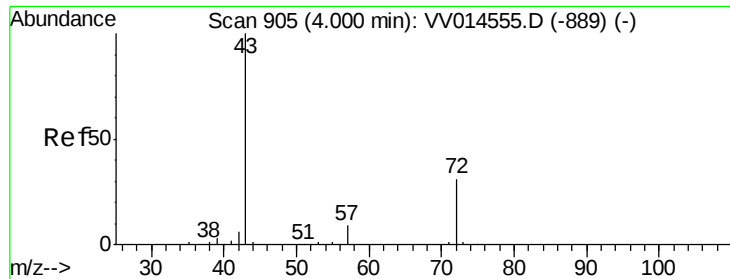


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 99.016 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

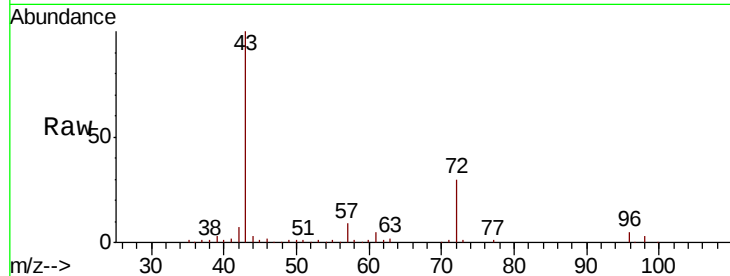
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 150793

Ion Ratio Lower Upper

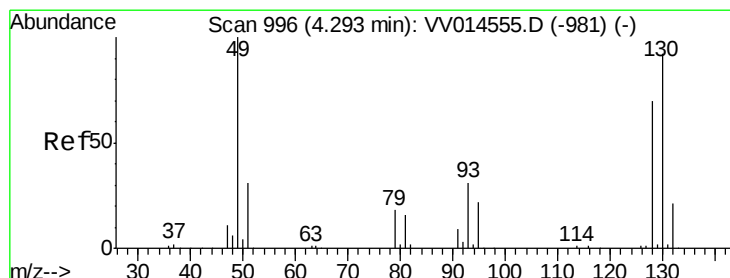
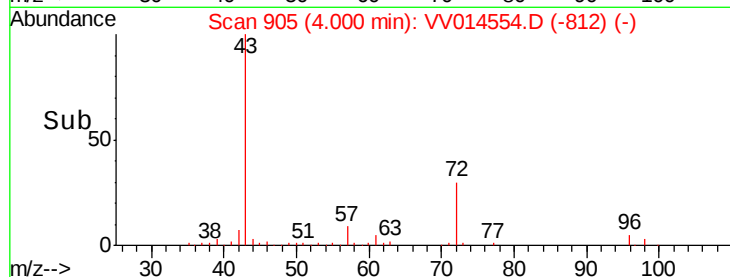
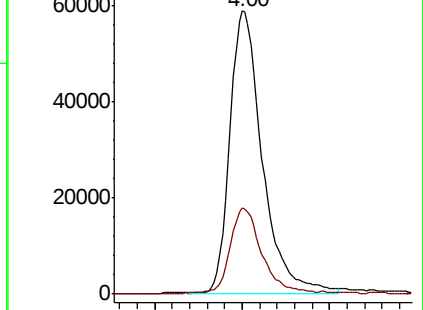
43 100

72 29.1 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VV014555.D (-889) (-)

Ion 72.00 (71.70 to 72.70): VV014555.D (-889) (-)



#23

Bromochloromethane

Concen: 52.247 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Tgt Ion:128 Resp: 59745

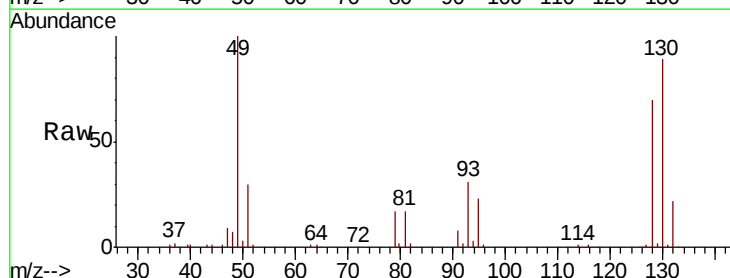
Ion Ratio Lower Upper

128 100

49 142.0 118.8 220.6

130 126.2 90.7 168.5

51 42.9 42.8 64.2

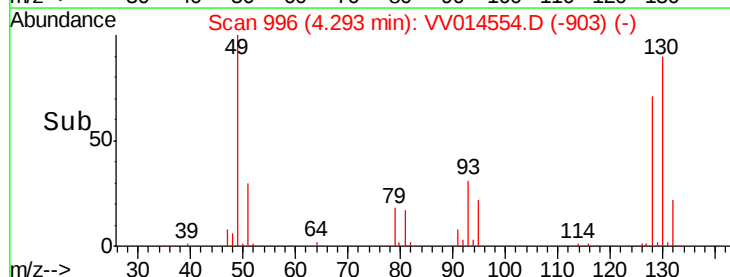
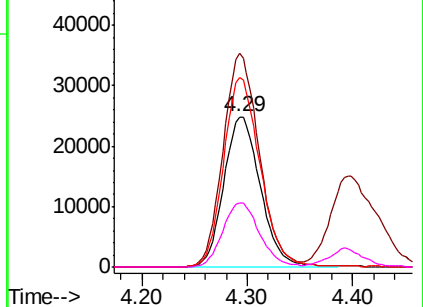


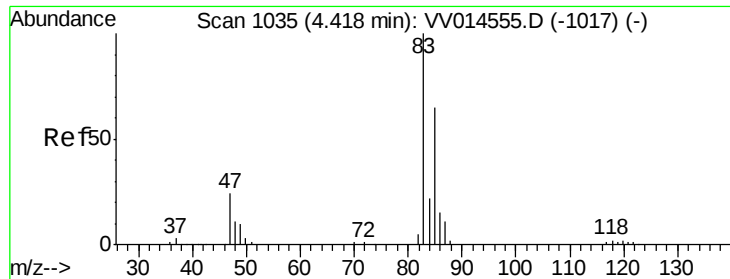
Abundance Ion 128.00 (127.70 to 128.70): VV014555.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VV014555.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VV014555.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VV014555.D (-981) (-)

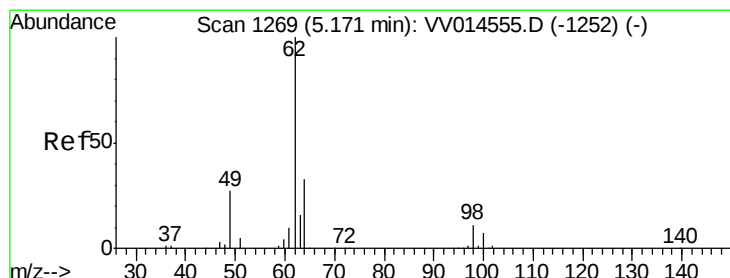
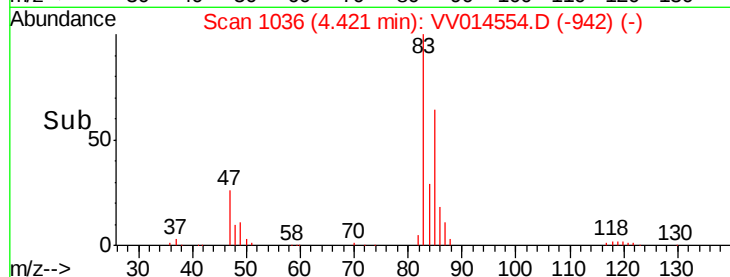
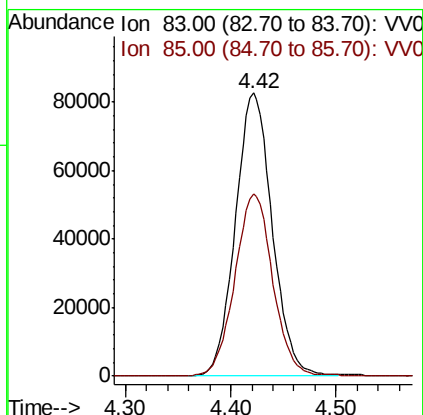
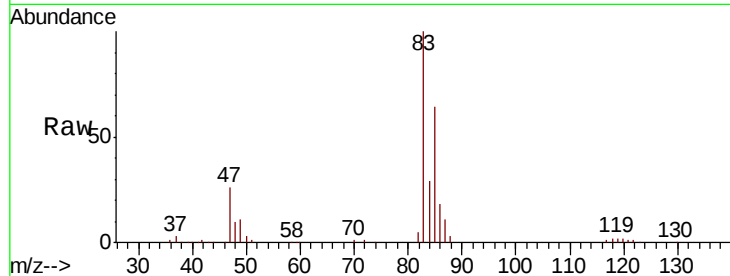




#25
Chloroform
Concen: 49.882 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

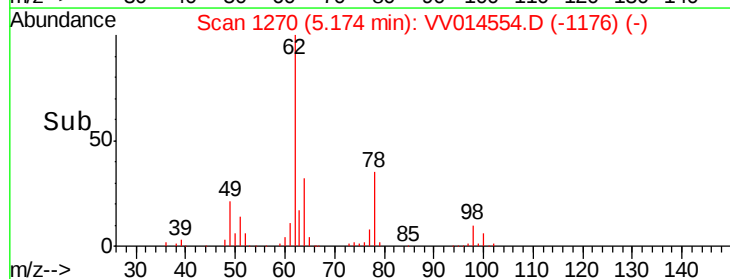
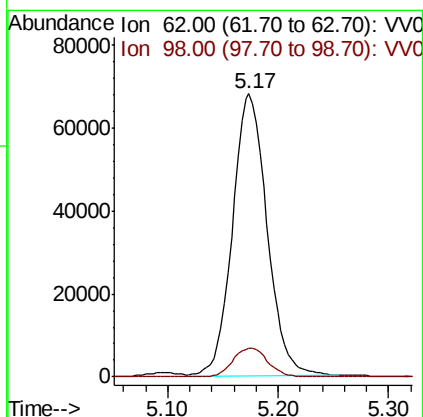
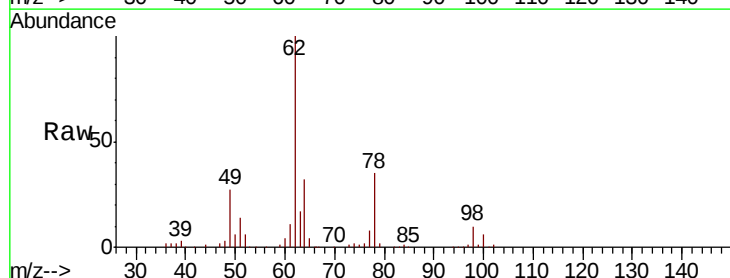
Instrument :
MSVOA_V
ClientSampleId :

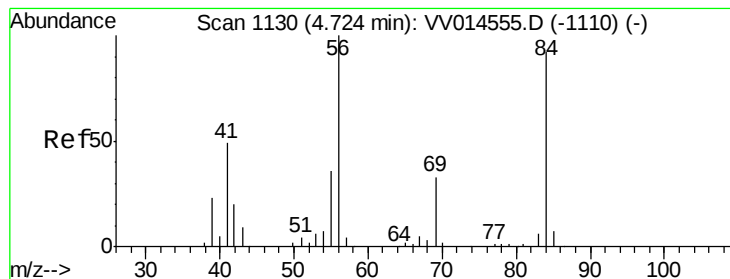
Tot Ion: 83 Resp: 200518
Ion Ratio Lower Upper
83 100
85 64.2 45.1 83.7



#27
1,2-Dichloroethane
Concen: 51.640 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

Tgt Ion: 62 Resp: 147586
Ion Ratio Lower Upper
62 100
98 10.0 8.0 12.0





#29

Cyclohexane

Concen: 45.502 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :
MSVOA_V
ClientSampled :

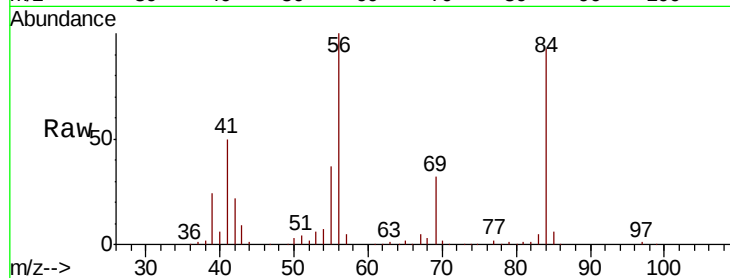
Tot Ion: 56 Resp: 172161

Ion Ratio Lower Upper

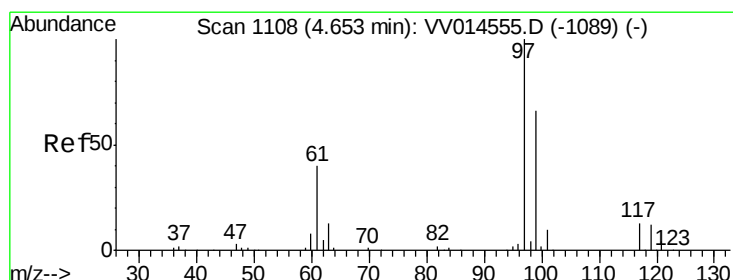
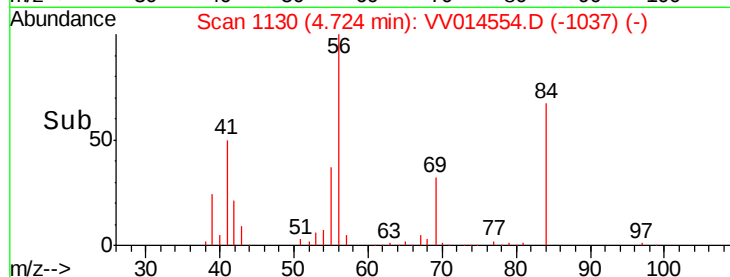
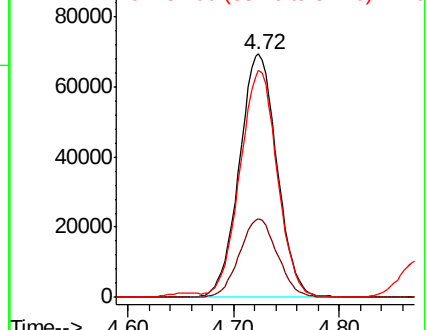
56 100

69 32.4 24.9 37.3

84 92.2 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 53.263 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

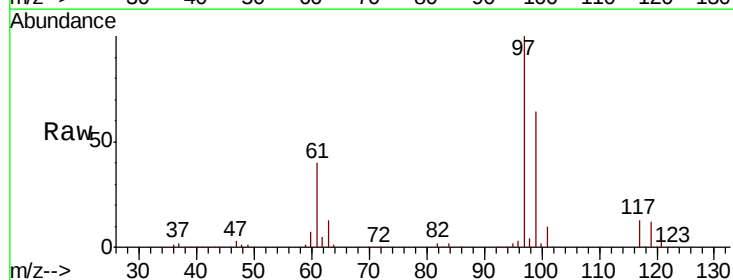
Tgt Ion: 97 Resp: 176768

Ion Ratio Lower Upper

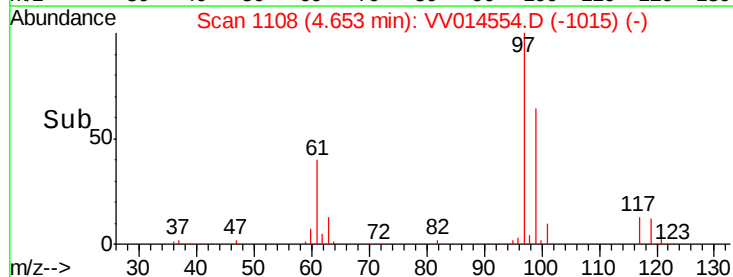
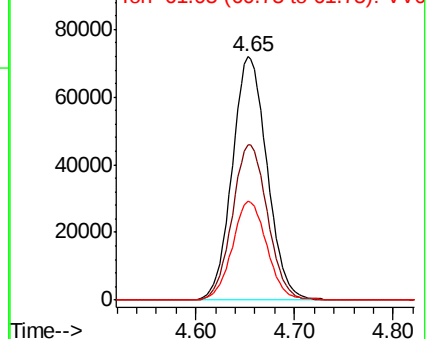
97 100

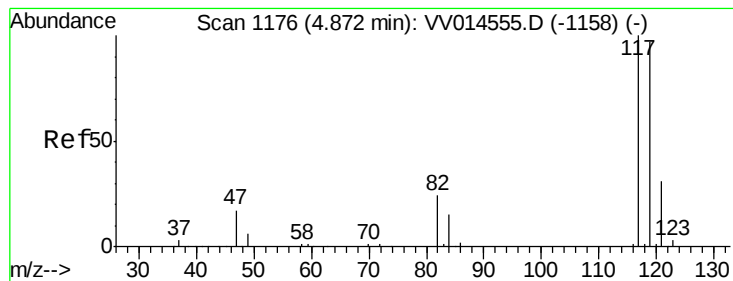
99 64.5 50.6 76.0

61 40.6 33.0 49.4



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 54.992 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

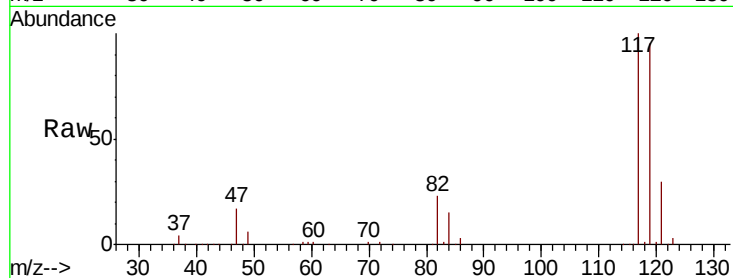
ClientSampleId :

Tot Ion:117 Resp: 159241

Ion Ratio Lower Upper

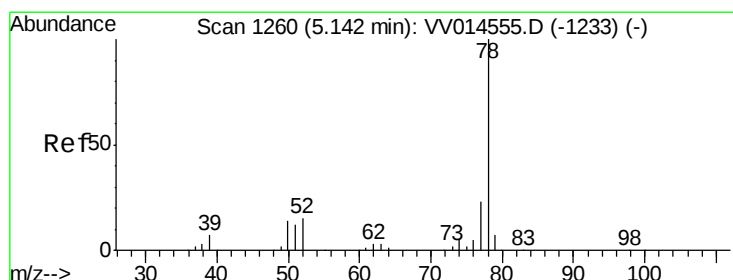
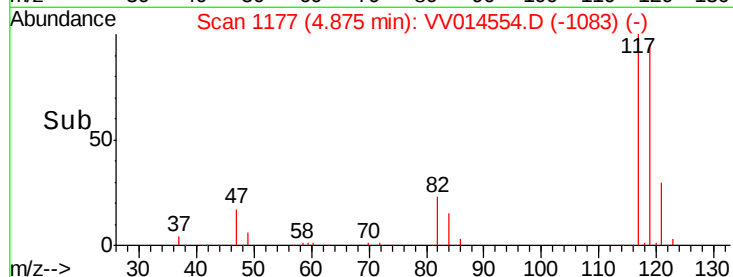
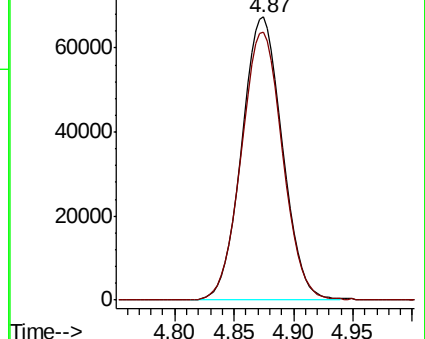
117 100

119 96.1 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.543 ug/L

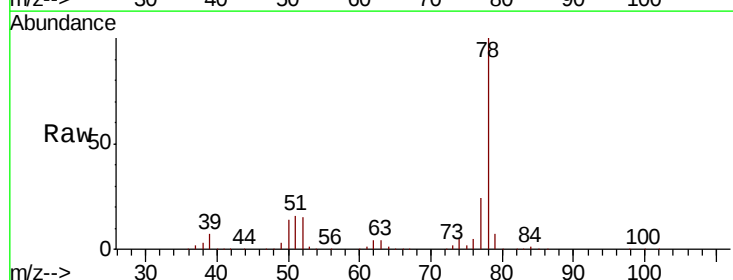
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

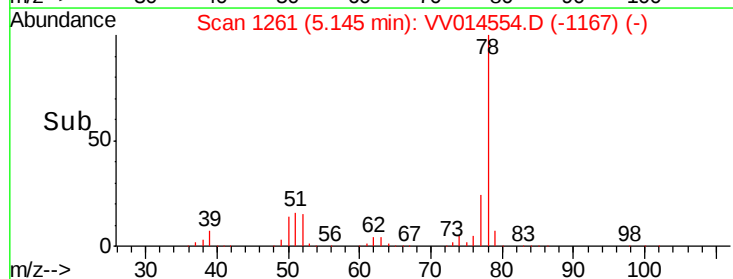
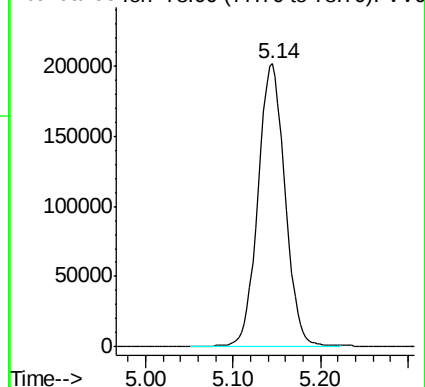
Lab File: VV014554.D

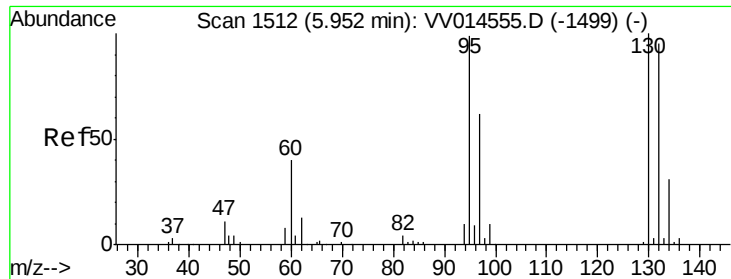
Acq: 11 Feb 2020 09:50

Tgt Ion: 78 Resp: 434455



Abundance Ion 78.00 (77.70 to 78.70): VV0

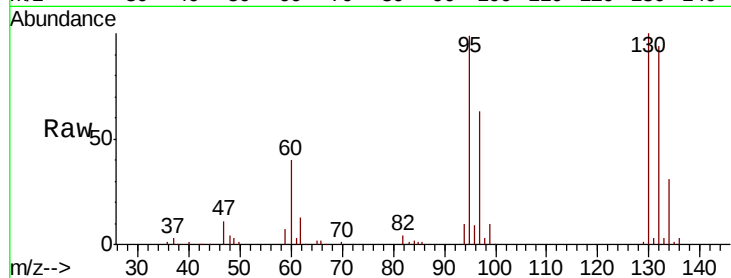




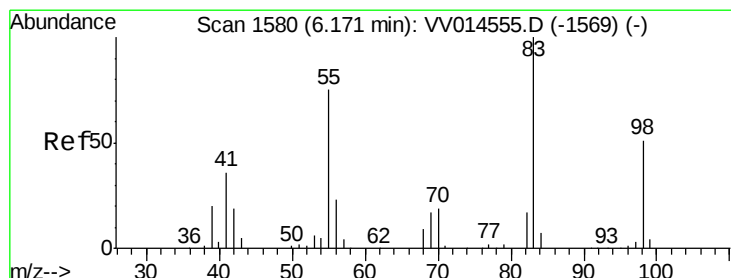
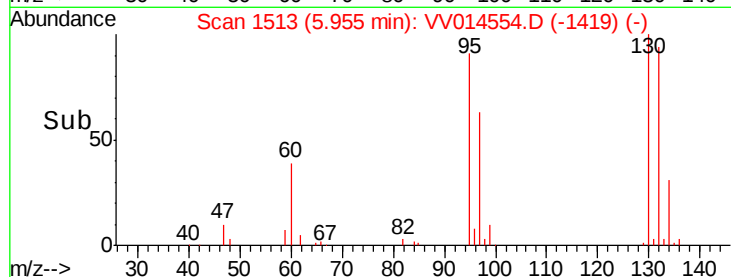
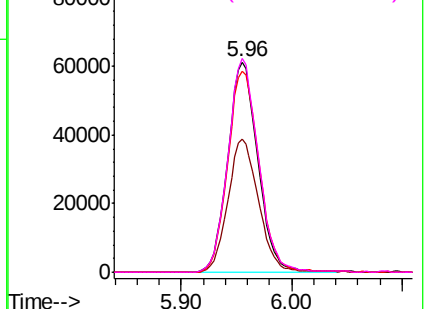
#34
 Trichloroethene
 Concen: 50.416 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 116362
 Ion Ratio Lower Upper
 95 100
 97 63.4 44.7 83.1
 132 95.7 65.4 121.4
 130 101.4 67.7 125.7

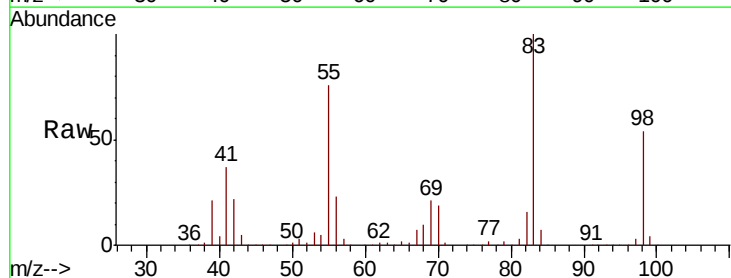


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

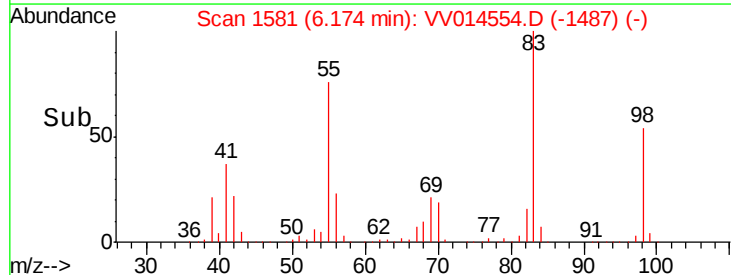
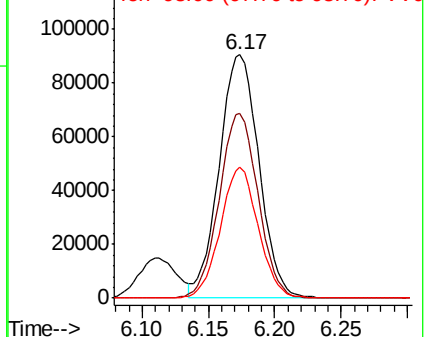


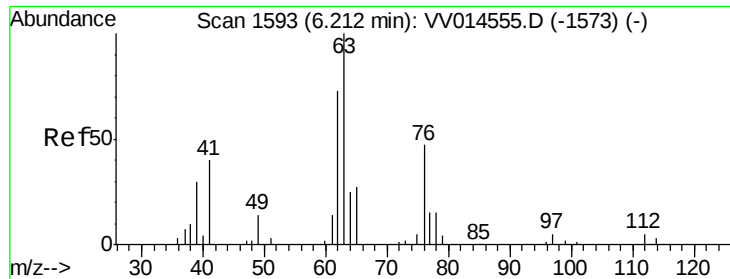
#35
 Methylcyclohexane
 Concen: 49.068 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Tgt Ion: 83 Resp: 188180
 Ion Ratio Lower Upper
 83 100
 55 74.2 60.4 90.6
 98 51.5 39.2 58.8



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

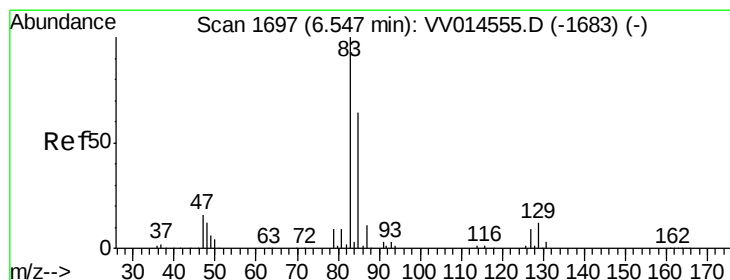
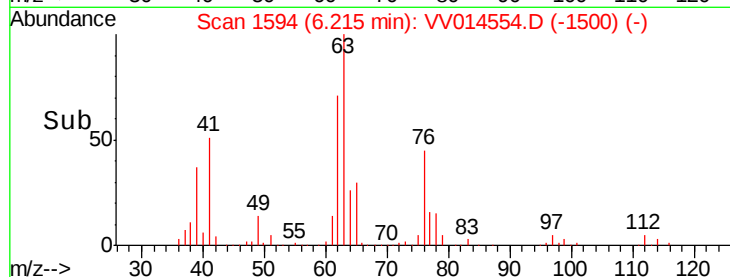
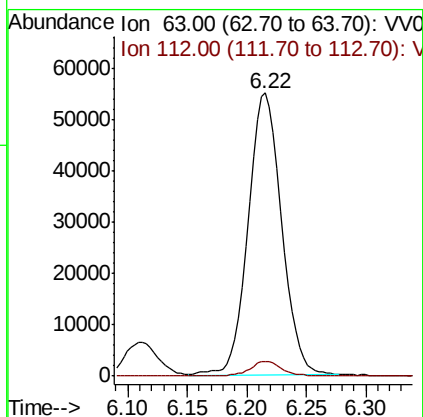
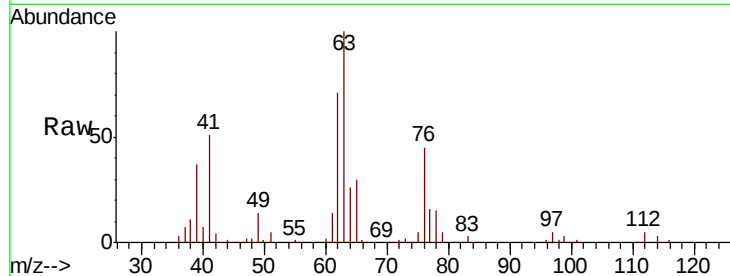




#37
 1,2-Dichloropropane
 Concen: 46.993 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

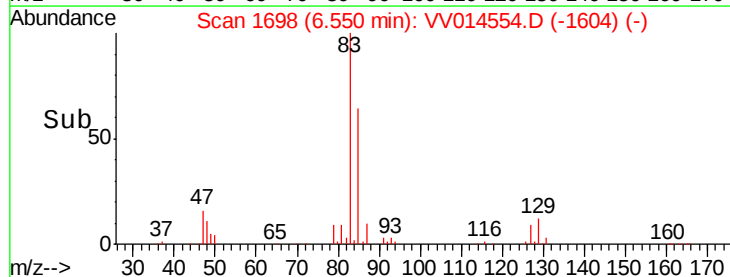
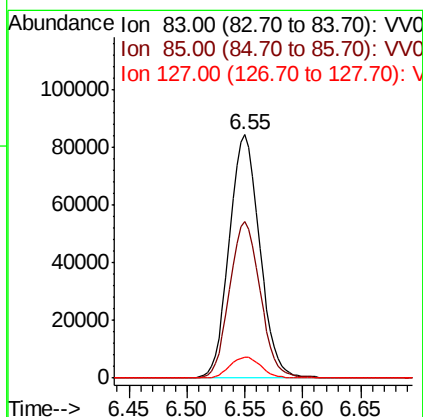
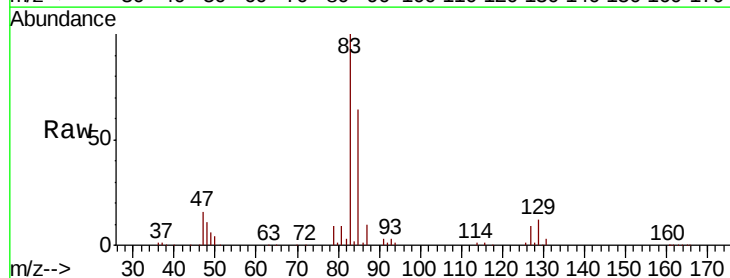
Instrument :
 MSVOA_V
 ClientSampleId :

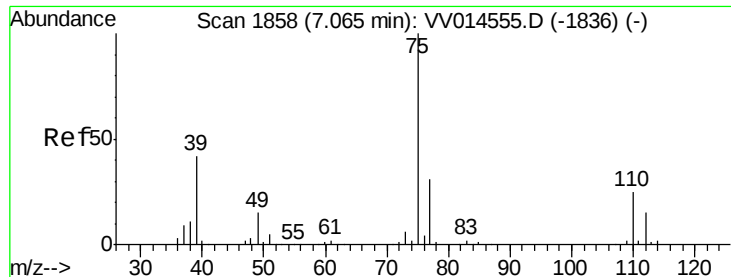
Tot Ion: 63 Resp: 107316
 Ion Ratio Lower Upper
 63 100
 112 5.1 3.8 5.6



#38
 Bromodichloromethane
 Concen: 50.346 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Tgt Ion: 83 Resp: 153940
 Ion Ratio Lower Upper
 83 100
 85 64.2 44.9 83.3
 127 8.7 6.3 9.5



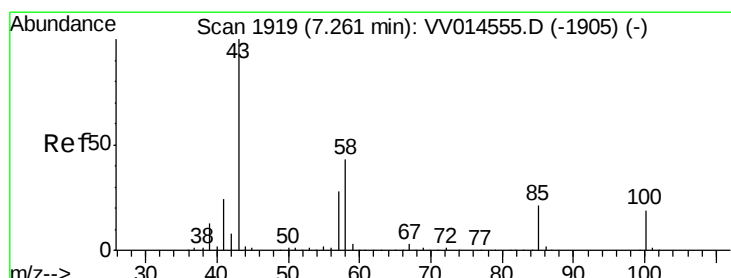
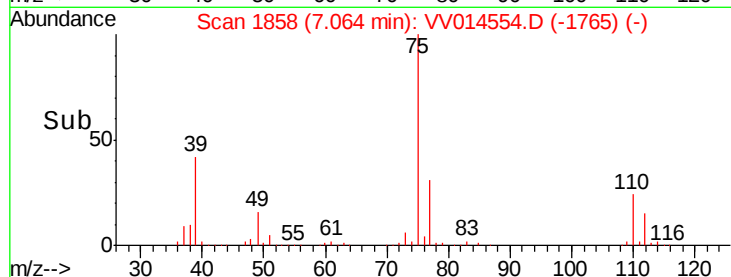
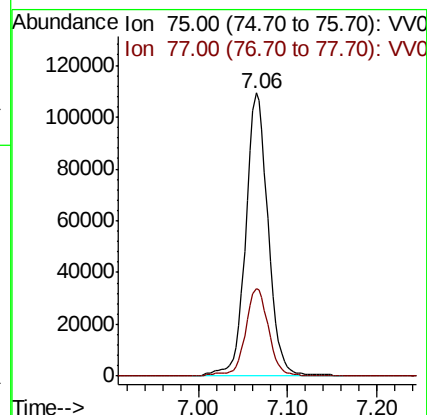
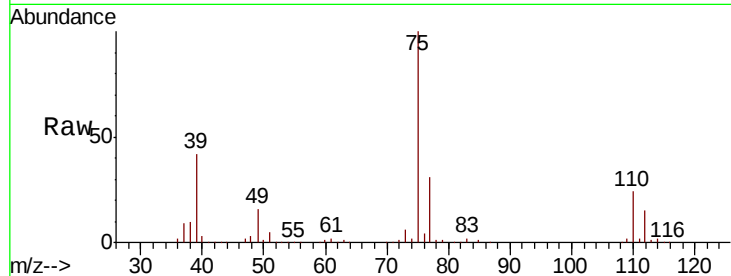


#39

cis-1,3-Dichloropropene
 Concen: 50.859 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. -0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Instrument :
 MSVOA_V
 ClientSampleId :

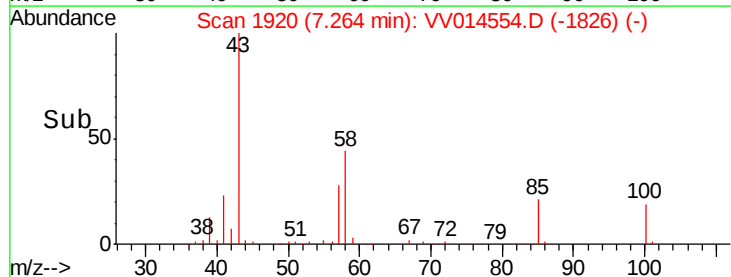
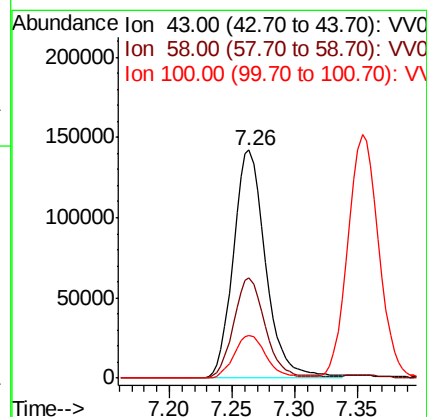
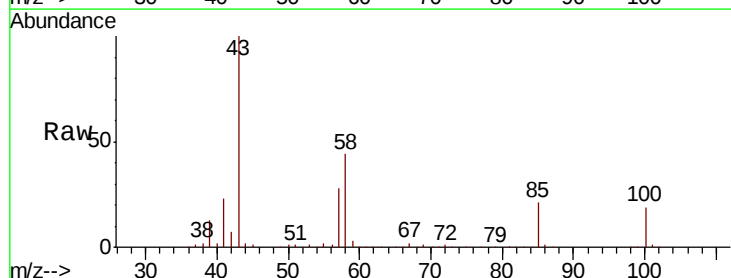
Tot Ion: 75 Resp: 190982
 Ion Ratio Lower Upper
 75 100
 77 31.0 22.7 42.3

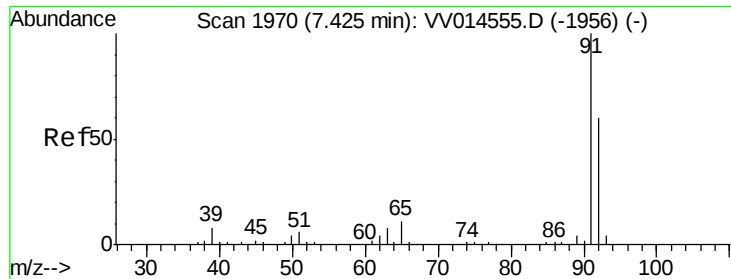


#40

4-Methyl-2-pentanone
 Concen: 92.144 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Tgt Ion: 43 Resp: 254397
 Ion Ratio Lower Upper
 43 100
 58 43.4 31.9 47.9
 100 18.8 12.2 18.4#





#42

Toluene

Concen: 49.269 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

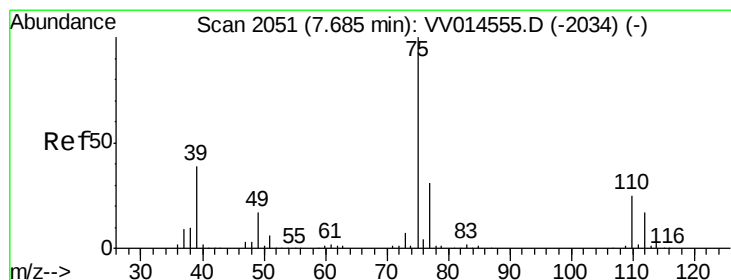
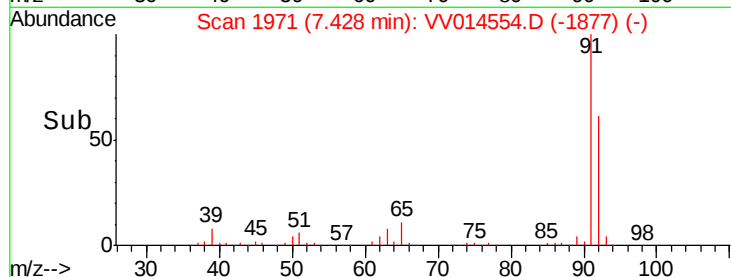
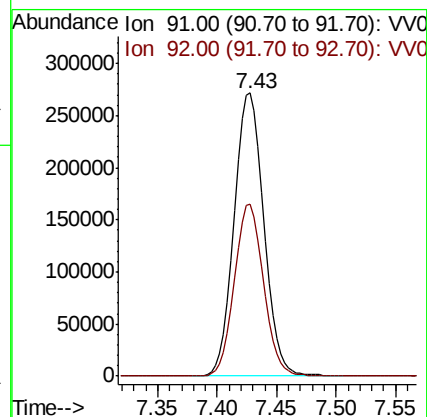
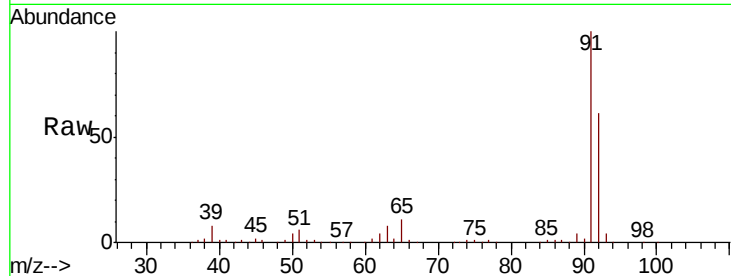
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 471311

Ion Ratio Lower Upper

91 100

92 60.6 41.0 76.2



#44

trans-1,3-Dichloropropene

Concen: 50.678 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014554.D

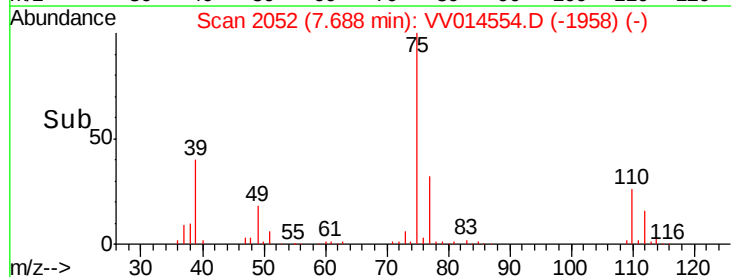
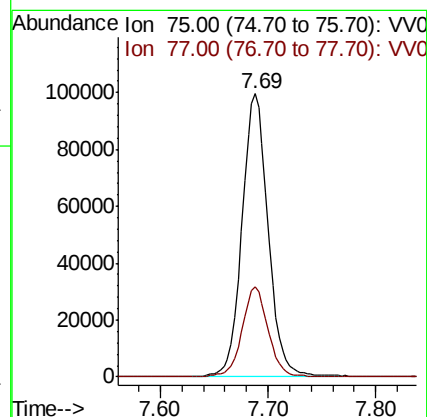
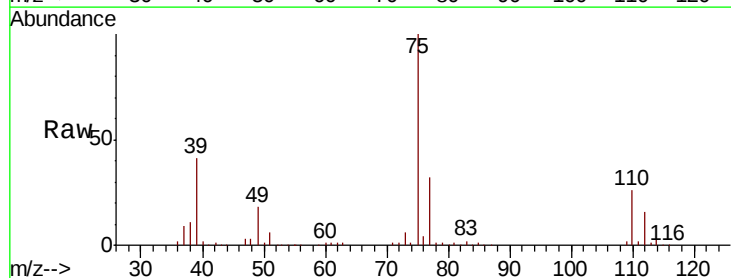
Acq: 11 Feb 2020 09:50

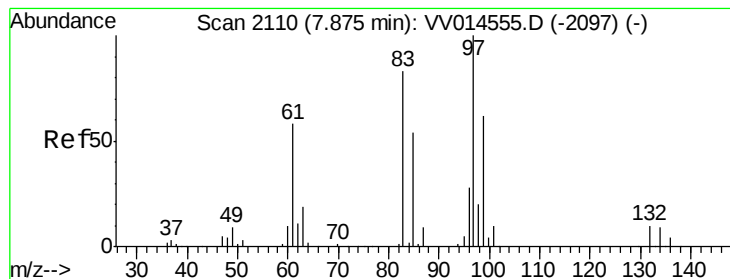
Tgt Ion: 75 Resp: 169002

Ion Ratio Lower Upper

75 100

77 31.6 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 49.672 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 97 Resp: 107176

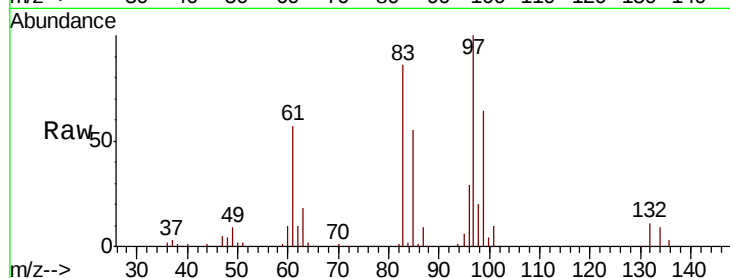
Ion Ratio Lower Upper

97 100

99 63.7 43.8 81.3

83 85.6 60.0 111.4

85 55.2 37.2 69.0



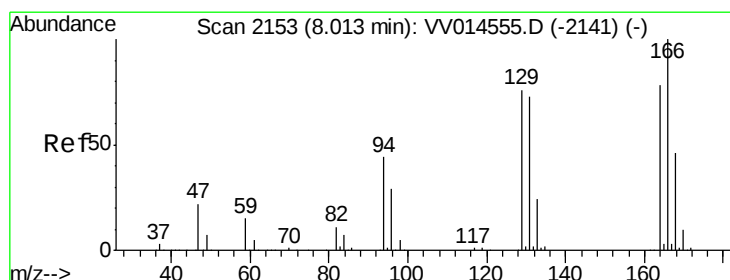
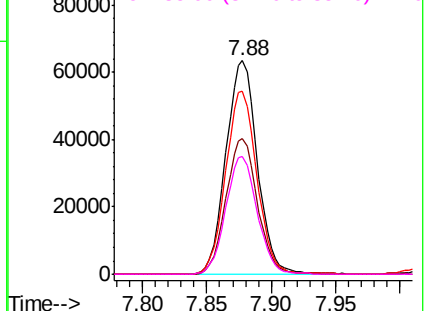
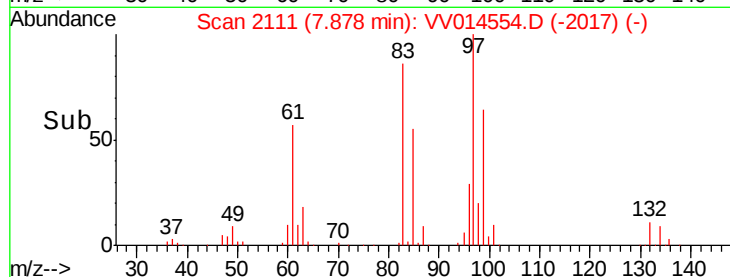
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 54.798 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Tgt Ion:164 Resp: 92497

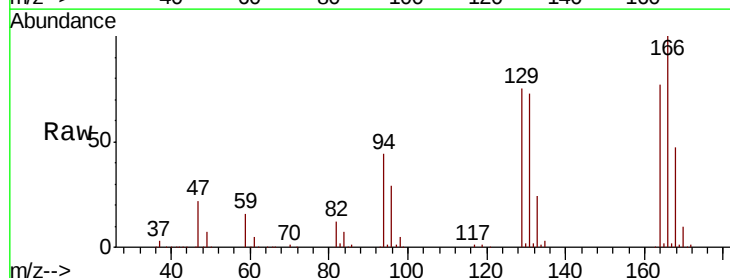
Ion Ratio Lower Upper

164 100

129 97.4 70.4 130.8

131 95.4 65.5 121.7

166 130.3 89.9 166.9



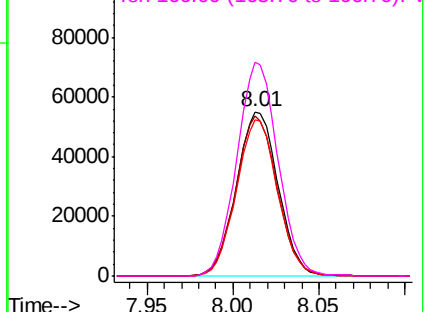
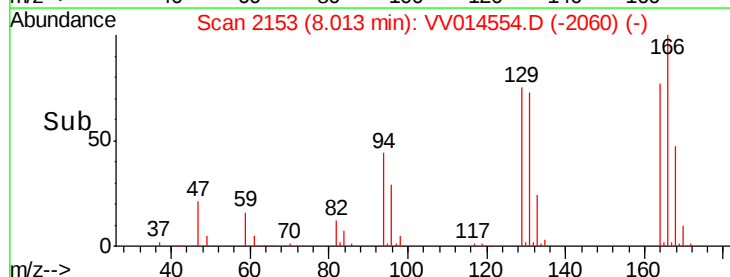
Abundance

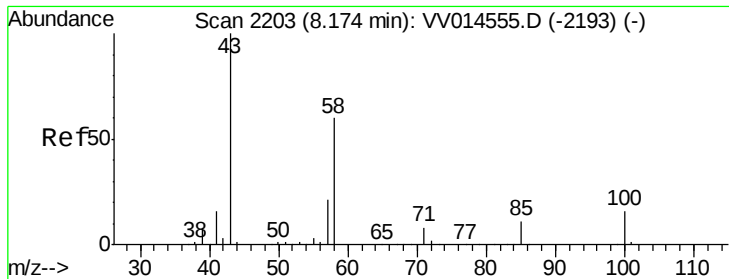
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

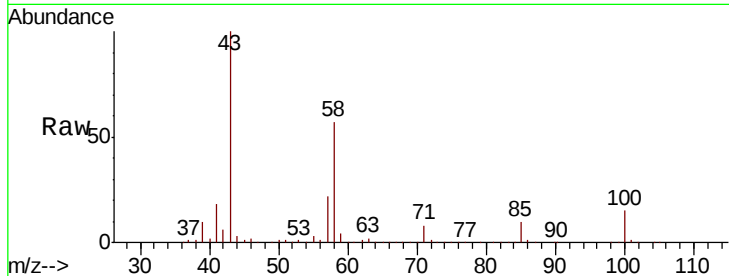




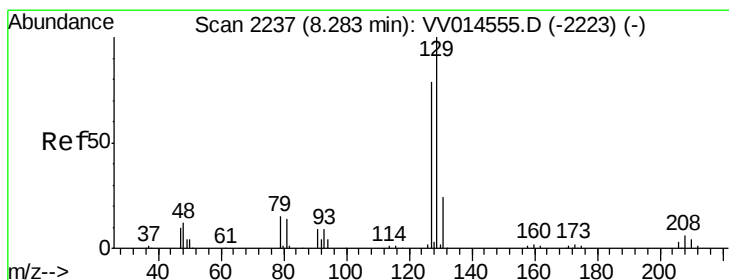
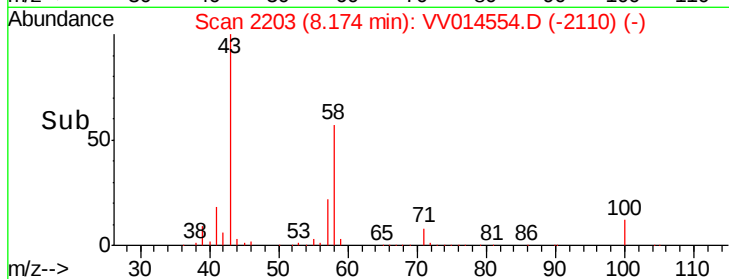
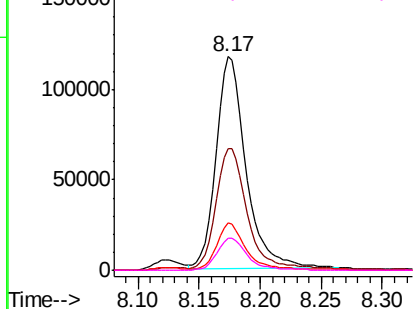
#48
2-Hexanone
Concen: 94.135 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 203297
Ion Ratio Lower Upper
43 100
58 58.5 48.0 72.0
57 20.5 15.0 22.6
100 15.3 10.4 15.6

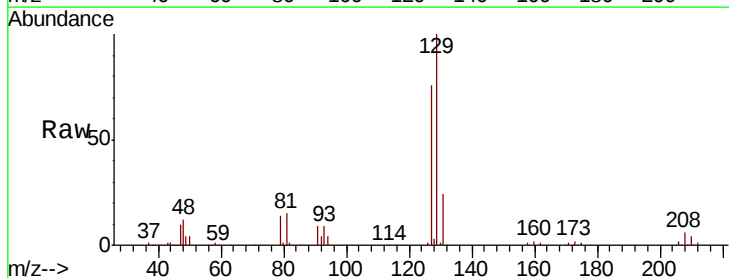


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

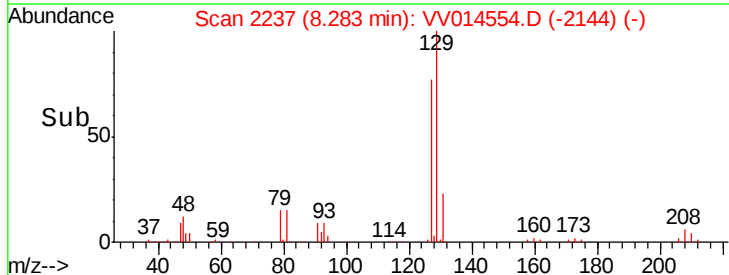
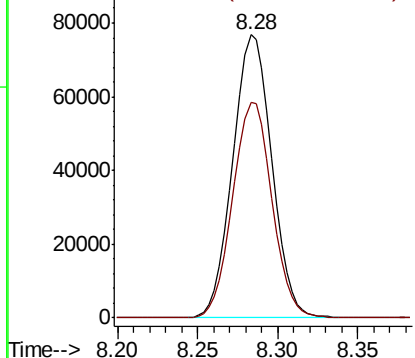


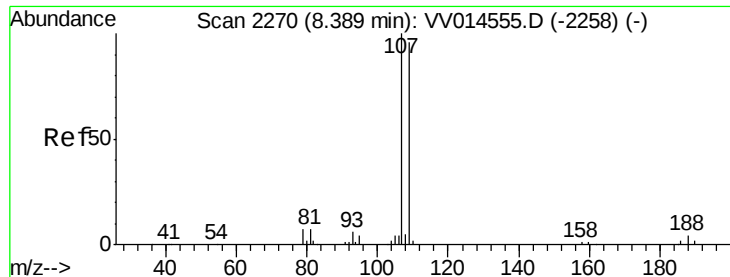
#49
Dibromochloromethane
Concen: 53.921 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV014554.D
Acq: 11 Feb 2020 09:50

Tgt Ion:129 Resp: 128005
Ion Ratio Lower Upper
129 100
127 76.3 55.1 102.3



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

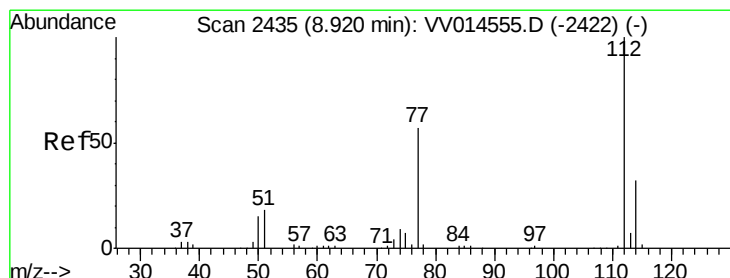
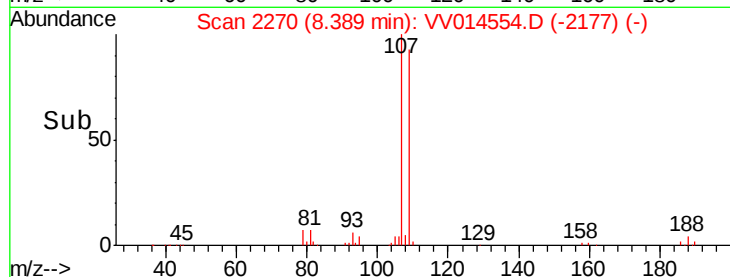
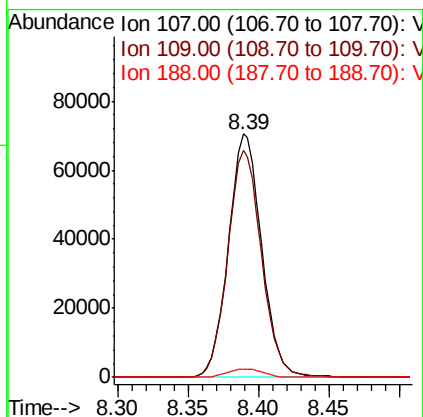
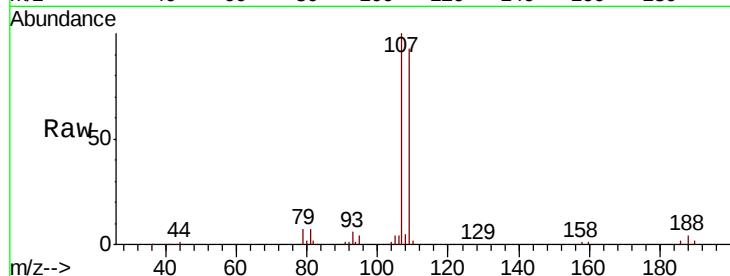




#50
 1,2-Dibromoethane
 Concen: 50.702 ug/L
 RT: 8.39 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

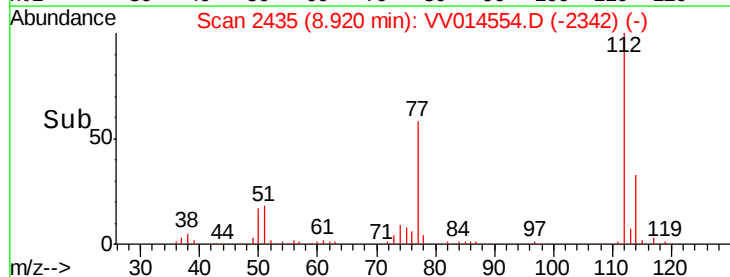
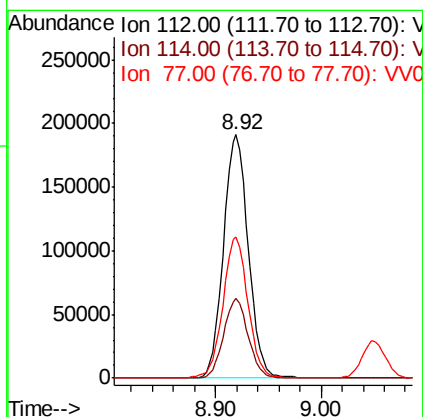
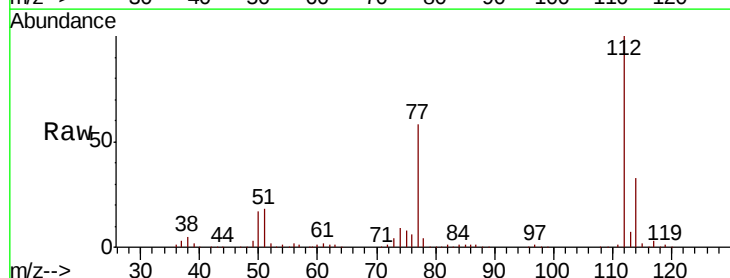
Instrument :
 MSVOA_V
 ClientSampleId :

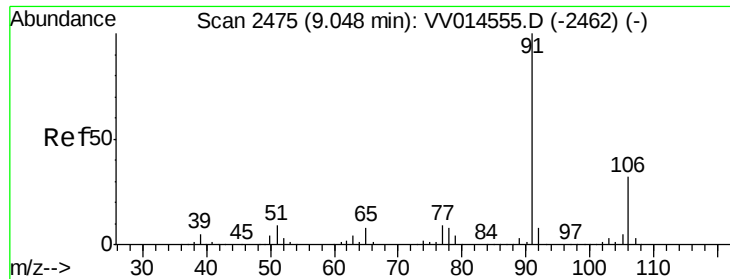
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.1	65.5	121.7
188	3.5	2.6	3.8



#51
 Chlorobenzene
 Concen: 50.776 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. -0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.6	22.5	41.9
77	58.2	47.5	71.3





#52

Ethylbenzene

Concen: 50.494 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

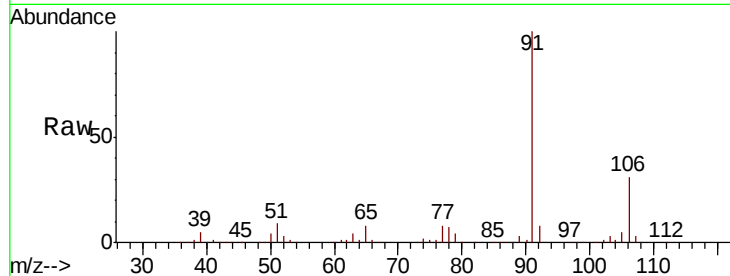
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 542137

Ion Ratio Lower Upper

91 100

106 31.5 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV014555.D (-2462) (-)

Ion 106.00 (105.70 to 106.70): VV014555.D (-2462) (-)

9.05

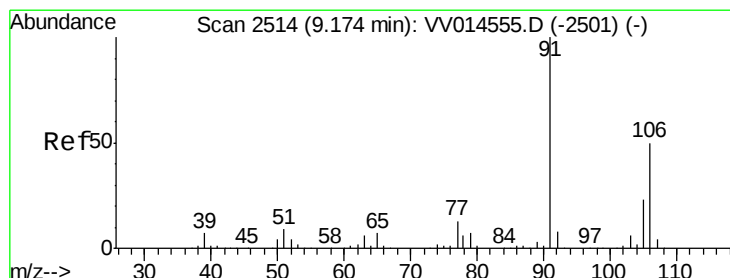
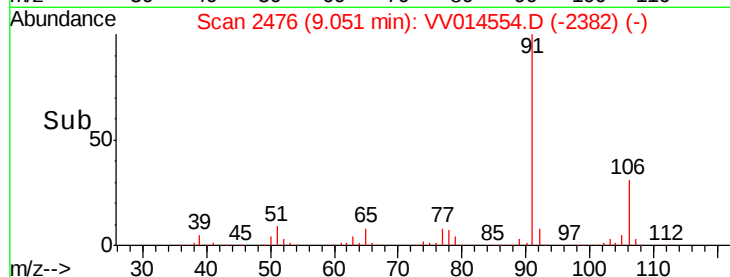
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 51.481 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014554.D

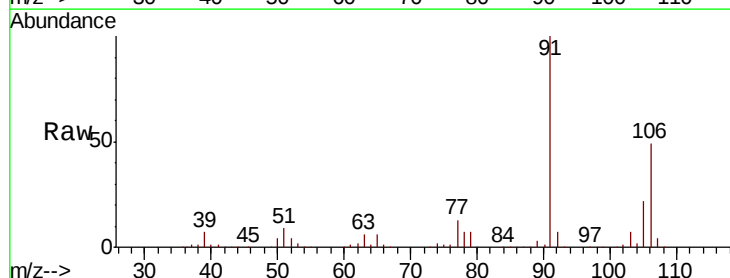
Acq: 11 Feb 2020 09:50

Tgt Ion: 106 Resp: 206392

Ion Ratio Lower Upper

106 100

91 203.1 140.9 261.7



Abundance Ion 106.00 (105.70 to 106.70): VV014555.D (-2501) (-)

Ion 91.00 (90.70 to 91.70): VV014555.D (-2501) (-)

9.18

300000

250000

200000

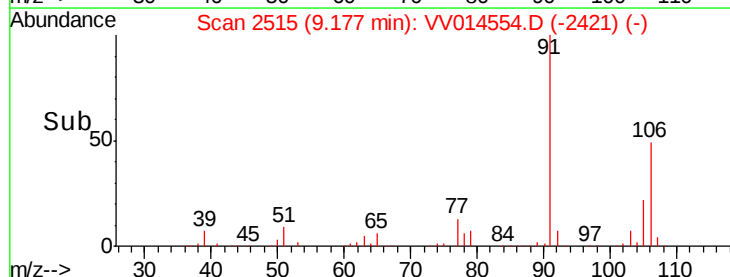
150000

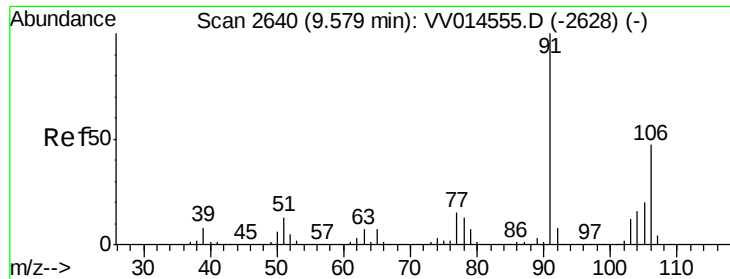
100000

50000

0

Time-->





#54

o-xylene

Concen: 50.599 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

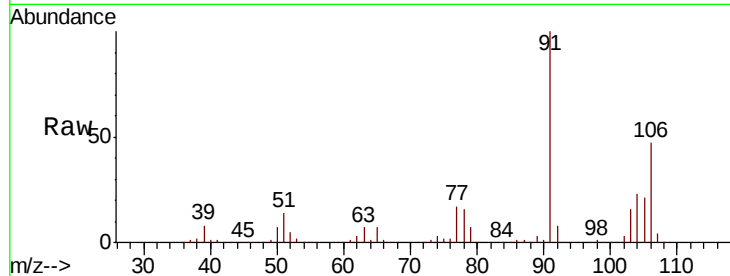
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 201004

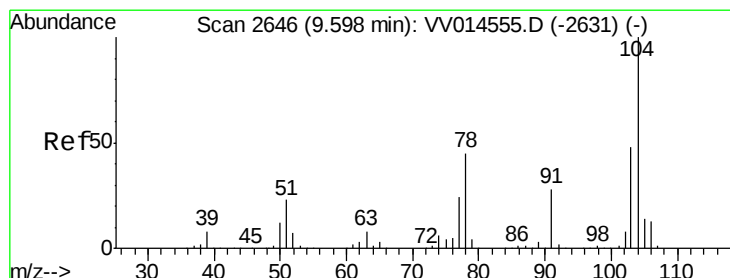
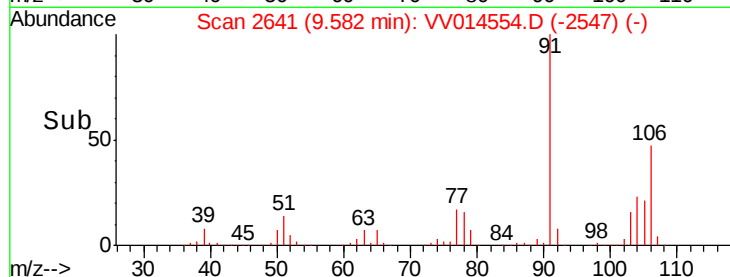
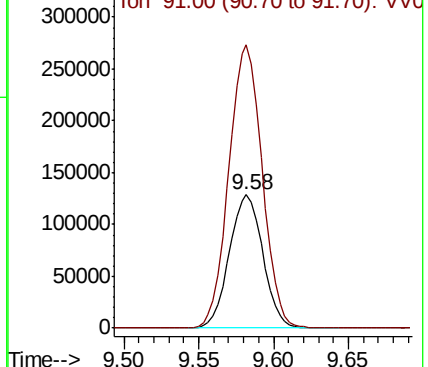
Ion Ratio Lower Upper

106 100

91 212.4 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 51.769 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV014554.D

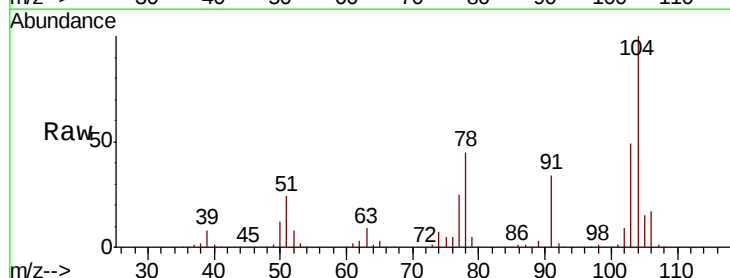
Acq: 11 Feb 2020 09:50

Tgt Ion:104 Resp: 345138

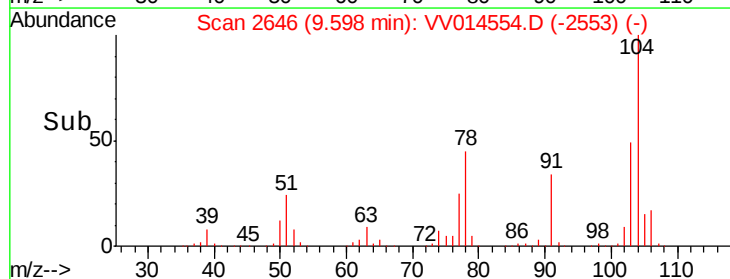
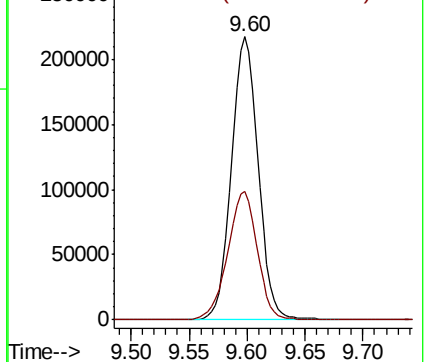
Ion Ratio Lower Upper

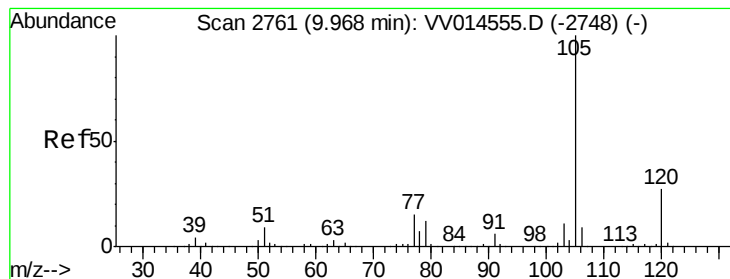
104 100

78 45.3 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 52.108 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

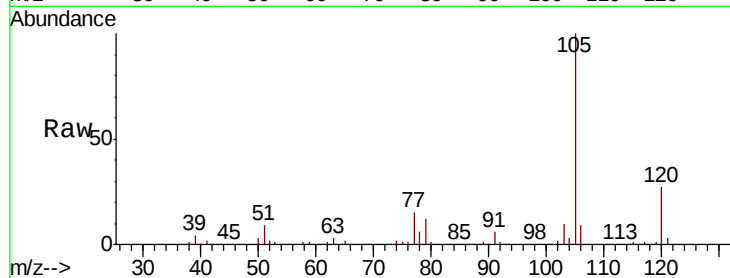
Tot Ion:105 Resp: 529284

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

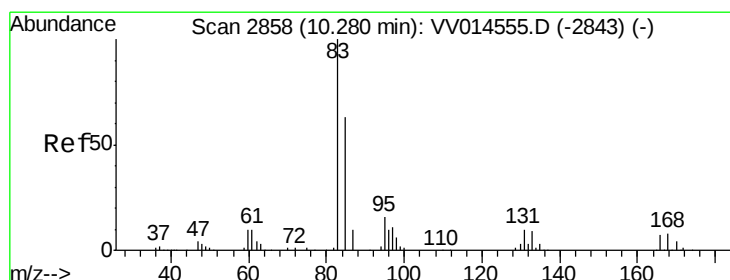
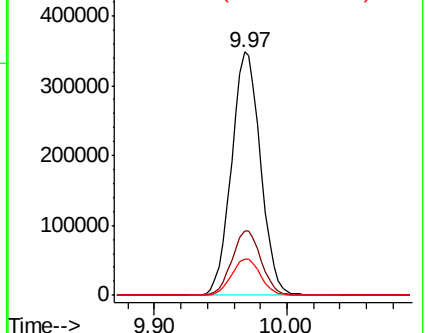
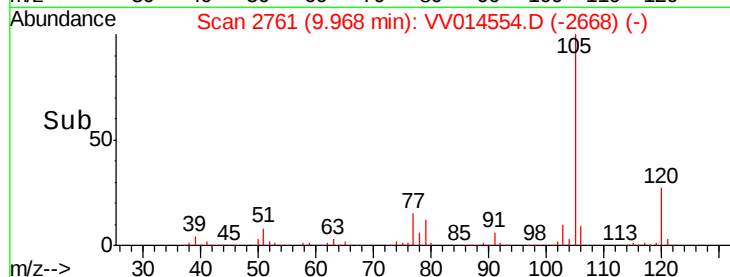
77 15.2 12.5 18.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 48.753 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

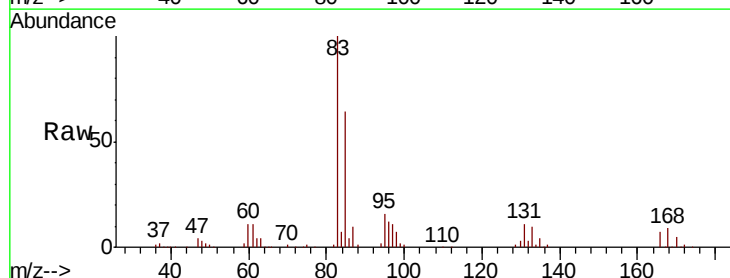
Tgt Ion: 83 Resp: 168046

Ion Ratio Lower Upper

83 100

85 63.8 44.2 82.2

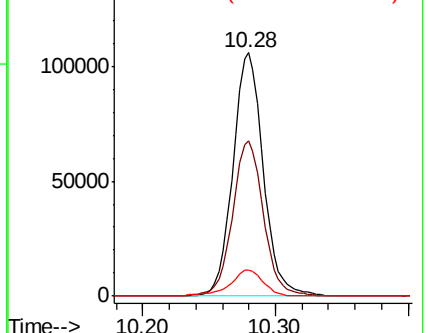
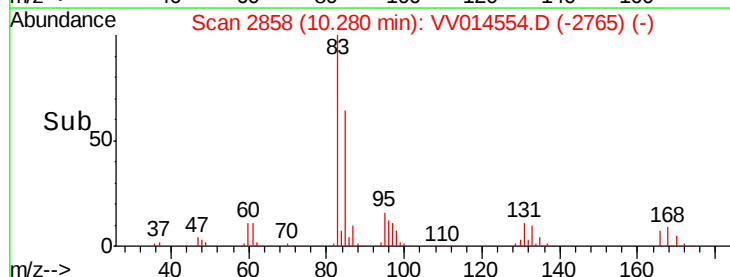
131 10.9 7.6 11.4

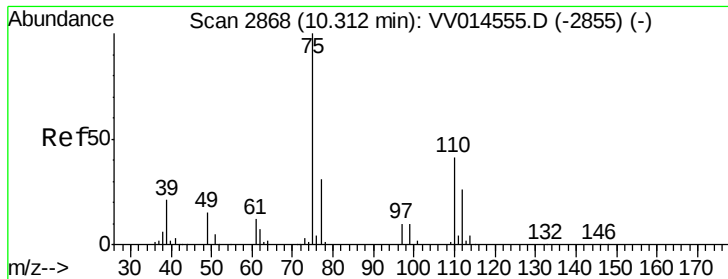


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.099 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

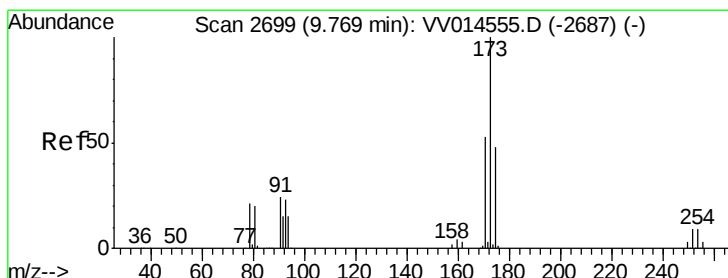
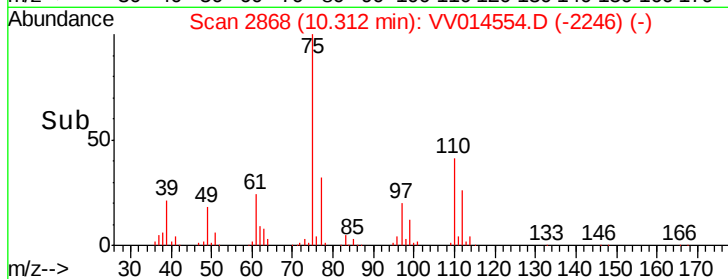
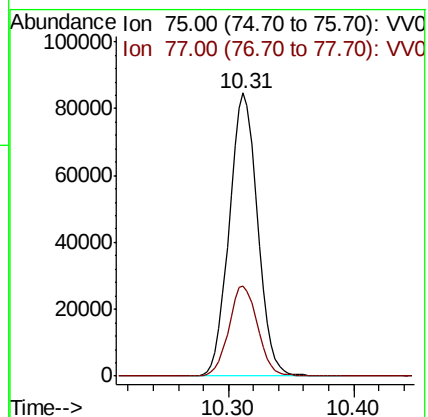
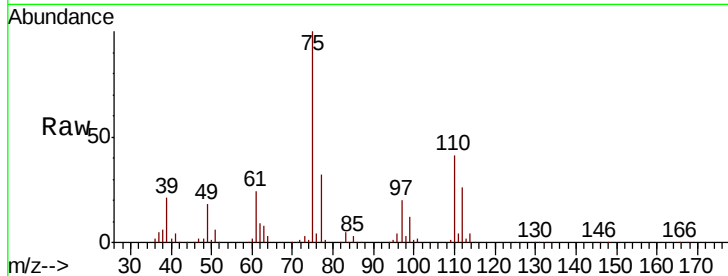
ClientSampled :

Tot Ion: 75 Resp: 132505

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#61

Bromoform

Concen: 53.618 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

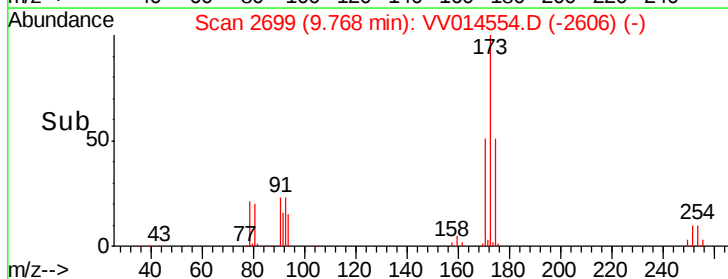
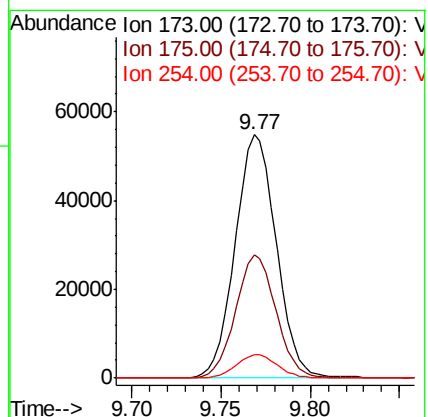
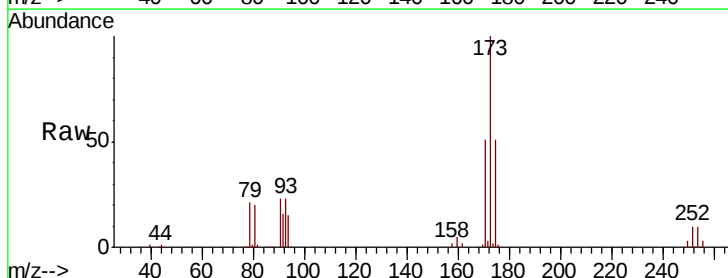
Tgt Ion: 173 Resp: 87962

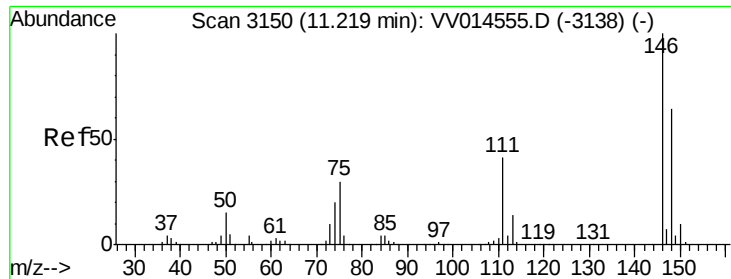
Ion Ratio Lower Upper

173 100

175 49.8 38.8 58.2

254 9.4 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 51.970 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

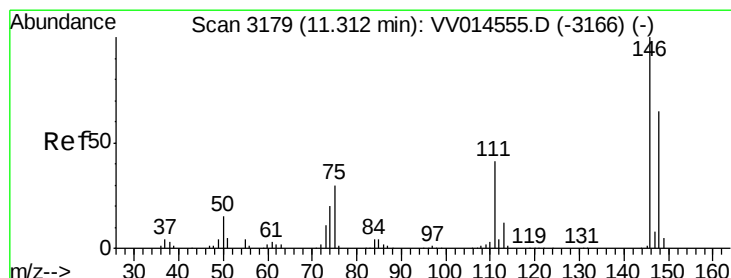
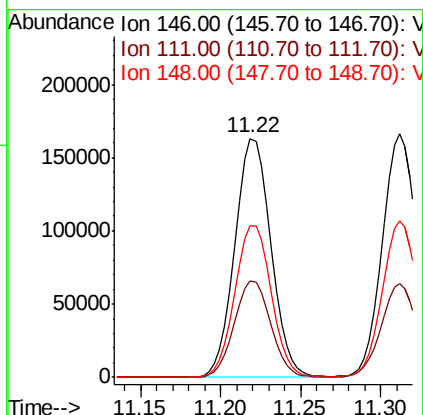
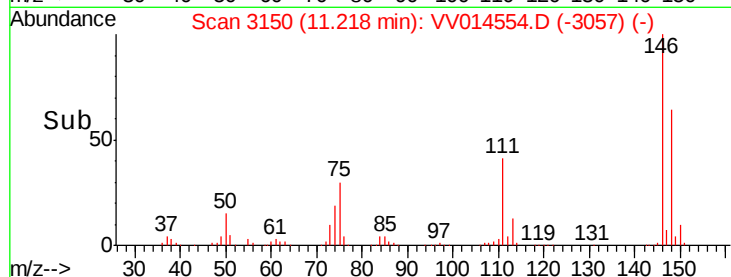
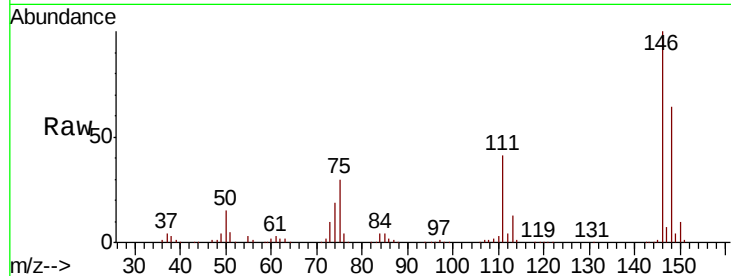
Tot Ion:146 Resp: 250966

Ion Ratio Lower Upper

146 100

111 40.6 29.3 54.3

148 63.7 44.9 83.3



#63

1,4-Dichlorobenzene

Concen: 51.267 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

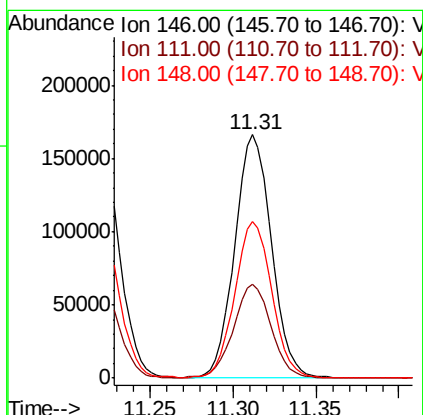
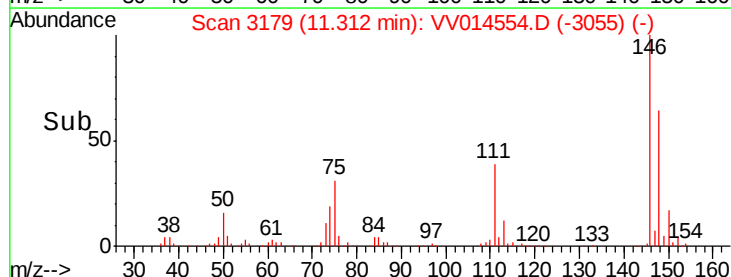
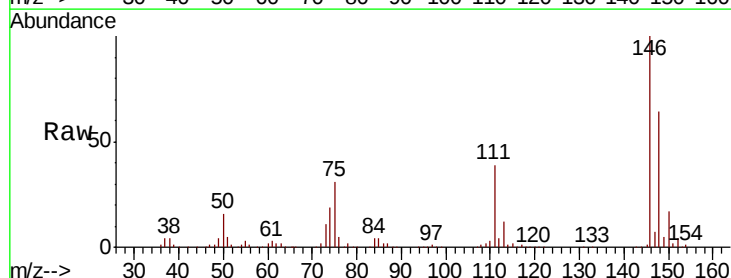
Tgt Ion:146 Resp: 254865

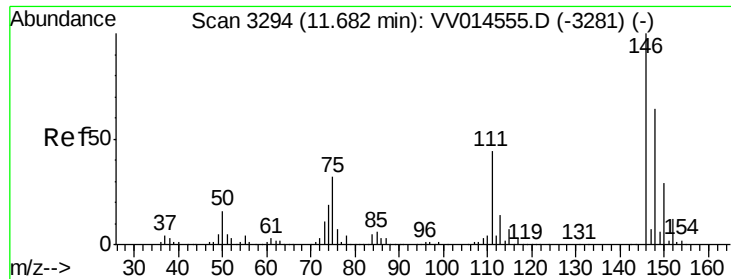
Ion Ratio Lower Upper

146 100

111 38.7 28.1 52.1

148 64.5 43.5 80.9





#65

1,2-Dichlorobenzene

Concen: 50.518 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

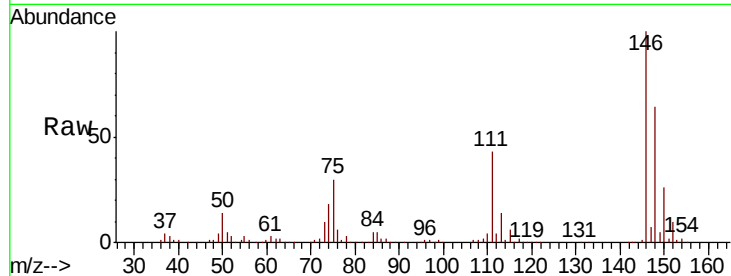
Tot Ion:146 Resp: 241132

Ion Ratio Lower Upper

146 100

111 42.7 34.6 51.8

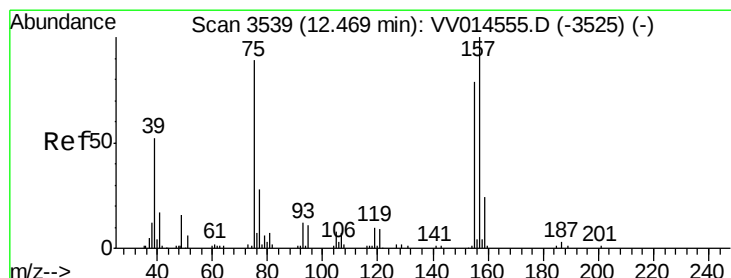
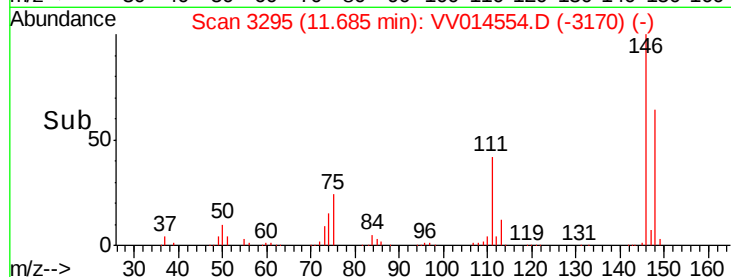
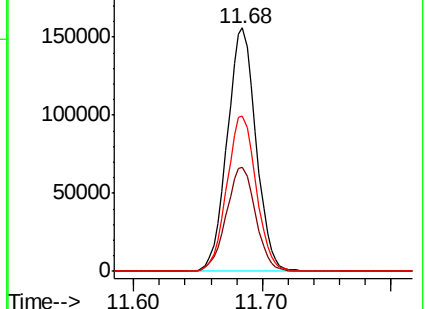
148 63.9 51.2 76.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 48.930 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

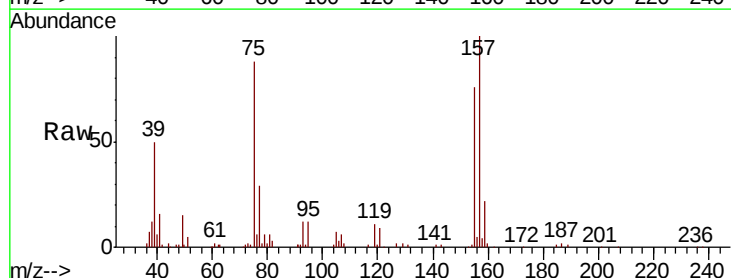
Tgt Ion: 75 Resp: 37127

Ion Ratio Lower Upper

75 100

155 85.9 64.2 96.2

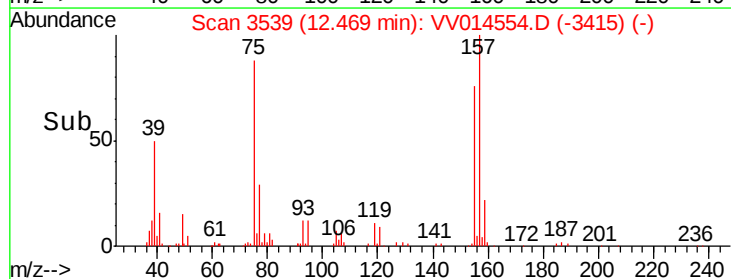
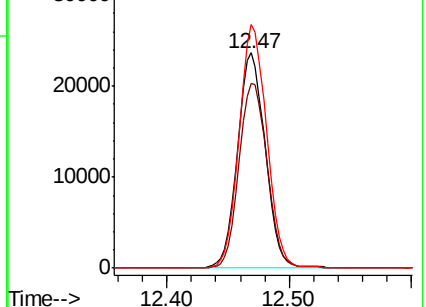
157 113.2 83.4 125.2

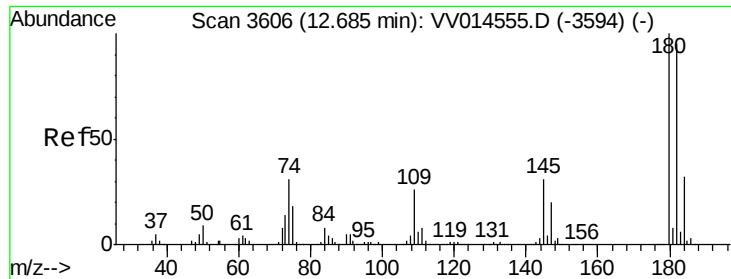


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

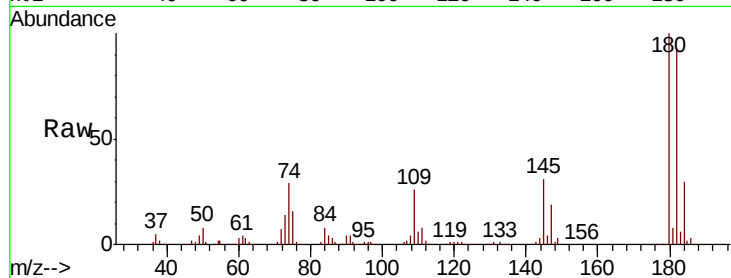




#67
 1,3,5-Trichlorobenzene
 Concen: 55.802 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.3	114.5
184	30.3	24.2	36.2
145	31.4	25.4	38.2



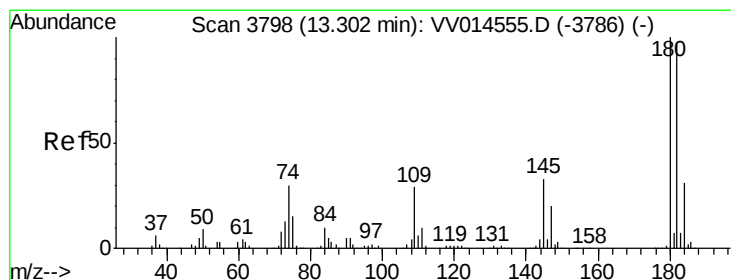
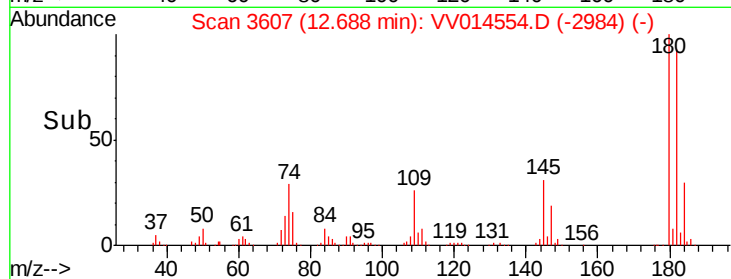
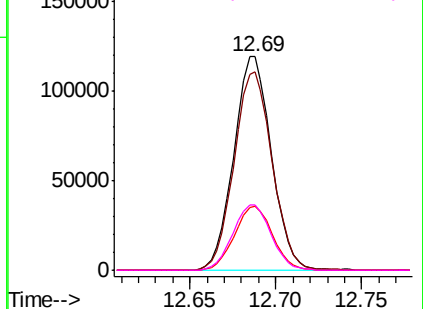
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

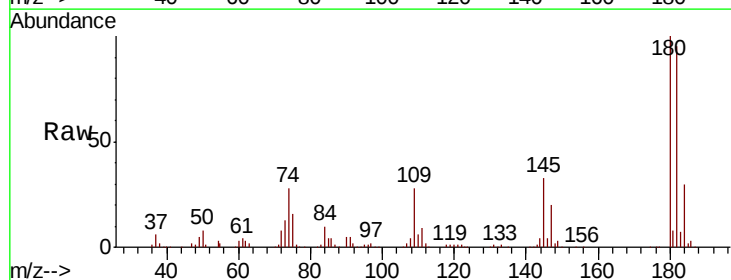
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 56.575 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. -0.00 min
 Lab File: VV014554.D
 Acq: 11 Feb 2020 09:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.0	114.0
145	32.2	26.2	39.2

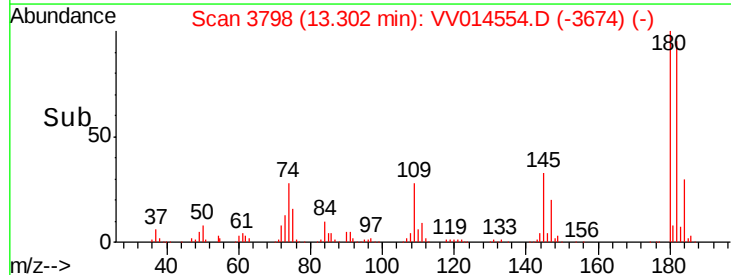
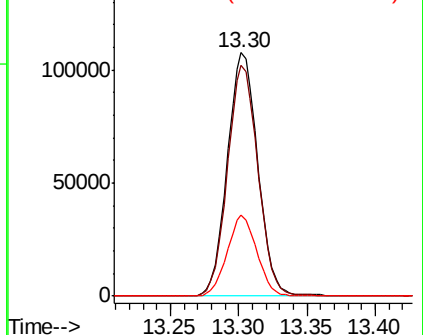


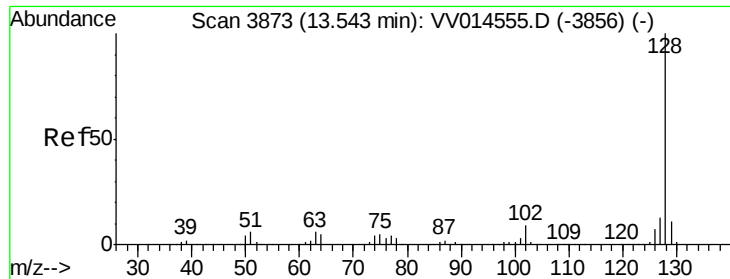
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 53.161 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

Instrument :

MSVOA_V

ClientSampleId :

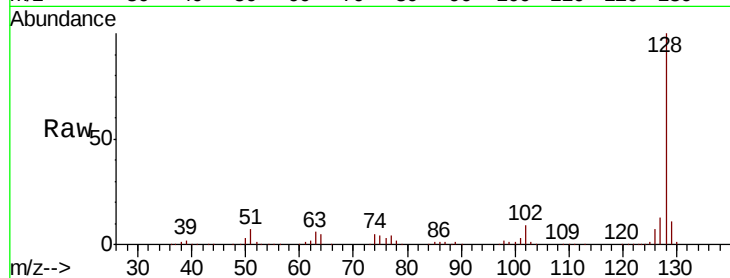
Tot Ion:128 Resp: 497535

Ion Ratio Lower Upper

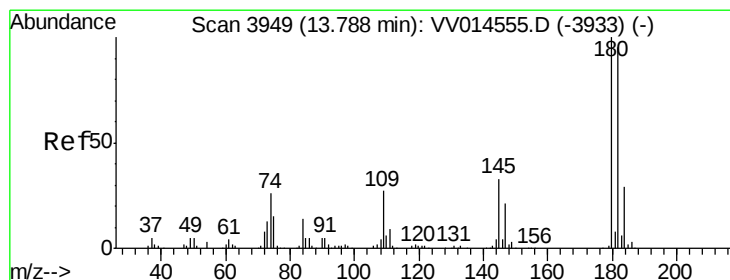
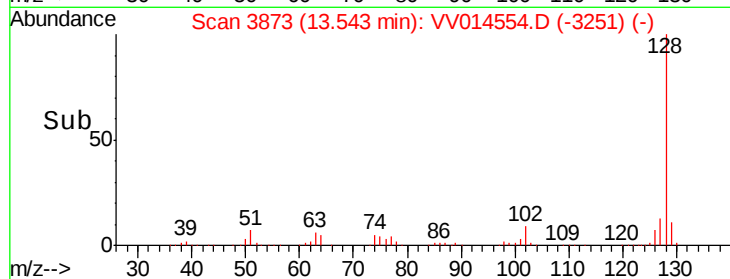
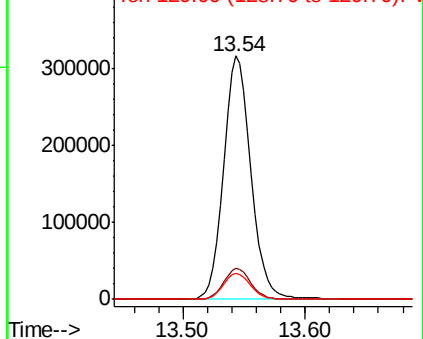
128 100

127 12.7 10.2 15.4

129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 55.520 ug/L

RT: 13.78 min Scan# 3948

Delta R.T. -0.00 min

Lab File: VV014554.D

Acq: 11 Feb 2020 09:50

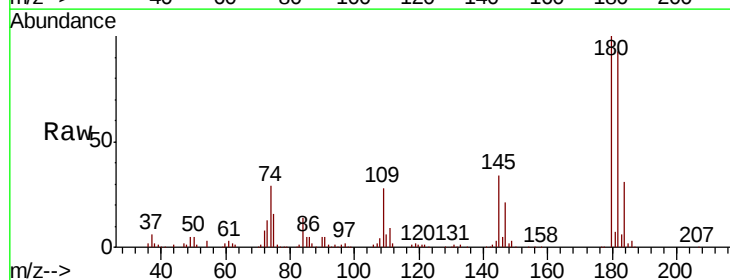
Tgt Ion:180 Resp: 158105

Ion Ratio Lower Upper

180 100

182 94.6 77.5 116.3

145 33.9 27.8 41.6



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

