

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102920\
 Data File : VV019149.D
 Acq On : 29 Oct 2020 15:16
 Operator : SY/MD
 Sample : VSTD10065
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

Quant Time: Oct 29 15:48:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 15:07:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	244222	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	238167	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	132550	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	192909	89.06	ug/L	0.00
7) Chloroethane-d5	1.58	69	145368	84.06	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	365704	90.10	ug/L	0.00
21) 2-Butanone-d5	3.91	46	245600	171.05	ug/L	0.00
24) Chloroform-d	4.37	84	362234	94.51	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.05	65	248396	96.00	ug/L	0.00
32) Benzene-d6	5.07	84	677388	94.57	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	199314	87.24	ug/L	0.00
41) Toluene-d8	7.33	98	658774	101.71	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	121369	100.81	ug/L	0.00
47) 2-Hexanone-d5	8.10	63	189777	191.12	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.23	84	271980	88.88	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	275327	98.93	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	209507	108.019	ug/L 99
3) Chloromethane	1.25	50	180998	80.154	ug/L 100
5) Vinyl chloride	1.32	62	192365	85.390	ug/L 98
6) Bromomethane	1.53	94	126874	96.073	ug/L 97
8) Chloroethane	1.60	64	119715	85.049	ug/L 100
9) Trichlorofluoromethane	1.76	101	324708	104.702	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	154217	95.647	ug/L 100
12) 1,1-Dichloroethene	2.13	96	152257	94.606	ug/L 91
13) Acetone	2.19	43	189417	186.271	ug/L 99
14) Carbon disulfide	2.31	76	480310	91.127	ug/L 100
15) Methyl Acetate	2.45	43	171046	84.209	ug/L 100
16) Methylene chloride	2.52	84	166317	89.395	ug/L 99
17) trans-1,2-Dichloroethene	2.78	96	162074	95.203	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	551165	99.552	ug/L 99
19) 1,1-Dichloroethane	3.21	63	296647	87.435	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	175530	95.910	ug/L 98
22) 2-Butanone	3.99	43	247320	183.484	ug/L 98
23) Bromochloromethane	4.27	128	93950	100.265	ug/L 97
25) Chloroform	4.40	83	322954	95.077	ug/L 99
27) 1,2-Dichloroethane	5.15	62	278858	98.764	ug/L 100
29) Cyclohexane	4.70	56	267870	96.819	ug/L 100
30) 1,1,1-Trichloroethane	4.63	97	309882	103.524	ug/L 100
31) Carbon tetrachloride	4.85	117	281699	107.236	ug/L 99
33) Benzene	5.12	78	662891	92.923	ug/L 100
34) Trichloroethene	5.94	95	176096	95.986	ug/L 98
35) Methylcyclohexane	6.15	83	257407	102.816	ug/L 100
37) 1,2-Dichloropropane	6.20	63	165595	85.498	ug/L 99
38) Bromodichloromethane	6.53	83	246666	97.843	ug/L 97
39) cis-1,3-Dichloropropene	7.05	75	286541	98.107	ug/L 98
40) 4-Methyl-2-pentanone	7.24	43	474939	182.220	ug/L 99

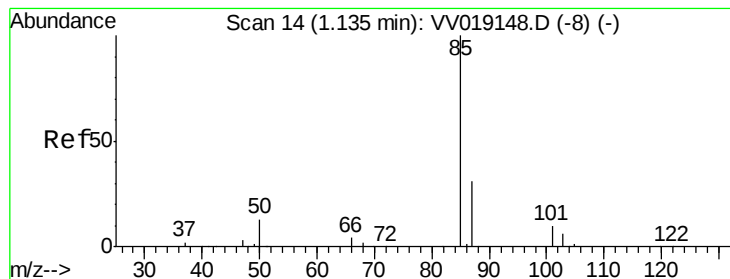
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102920\
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 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 15:07:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	738931	99.467	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	296605	101.867	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	162914	92.959	ug/L	99
46) Tetrachloroethene	8.00	164	154330	107.377	ug/L	99
48) 2-Hexanone	8.16	43	372151	185.025	ug/L	99
49) Dibromochloromethane	8.27	129	202601	104.333	ug/L	99
50) 1,2-Dibromoethane	8.37	107	175591	96.026	ug/L	99
51) Chlorobenzene	8.90	112	472221	98.626	ug/L	100
52) Ethylbenzene	9.03	91	830155	103.284	ug/L	100
53) m,p-Xylene	9.16	106	313573	105.804	ug/L	99
54) o-xylene	9.56	106	304970	106.896	ug/L	99
55) Styrene	9.58	104	543080	107.372	ug/L	99
56) Isopropylbenzene	9.95	105	826941	109.684	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.26	83	250761	88.480	ug/L	100
59) 1,2,3-Trichloropropane	10.29	75	212106	92.251	ug/L	98
61) Bromoform	9.75	173	160780	107.024	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	406276	102.053	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	411212	98.823	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	399483	99.604	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	69080	98.954	ug/L	98
67) 1,3,5-Trichlorobenzene	12.67	180	301021	108.397	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	292707	111.962	ug/L	99
69) Naphthalene	13.52	128	882372	112.274	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	288298	109.719	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 108.019 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

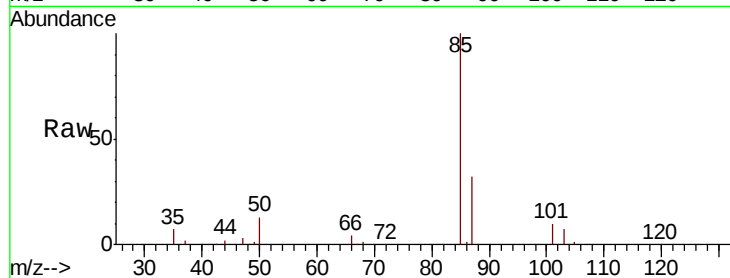
VSTD10065

Tot Ion: 85 Resp: 209507

Ion Ratio Lower Upper

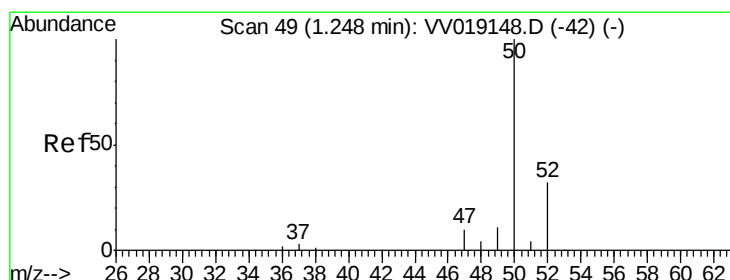
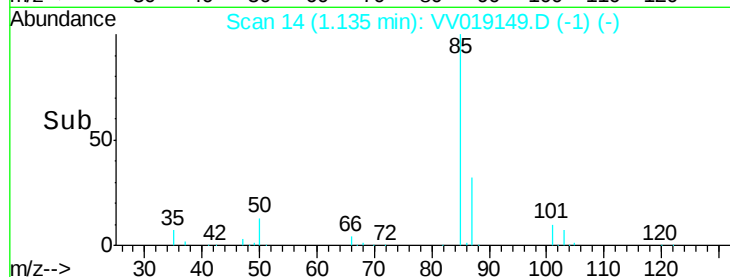
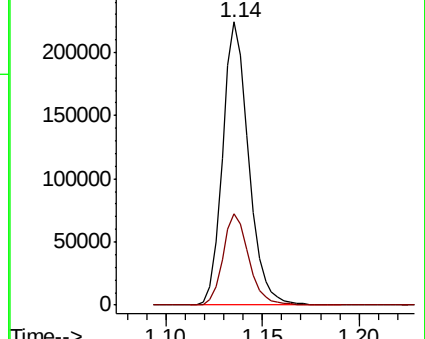
85 100

87 32.1 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 80.154 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV019149.D

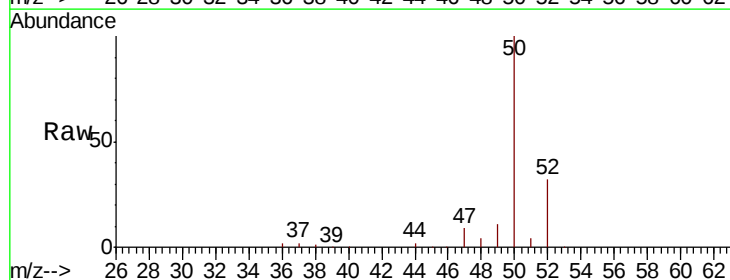
Acq: 29 Oct 2020 15:16

Tgt Ion: 50 Resp: 180998

Ion Ratio Lower Upper

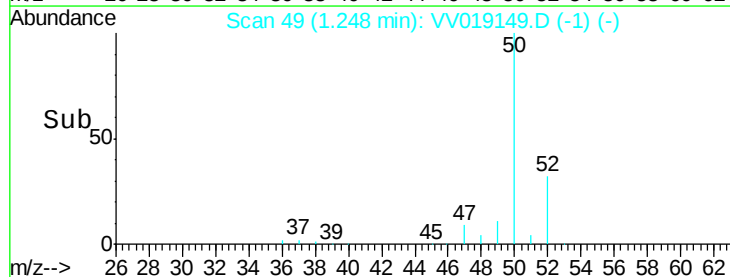
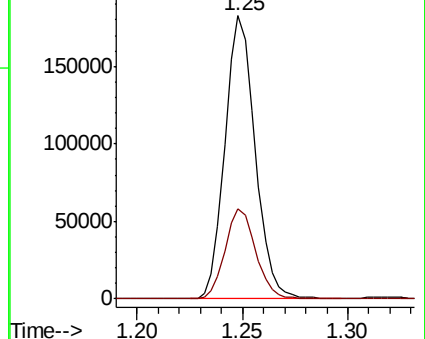
50 100

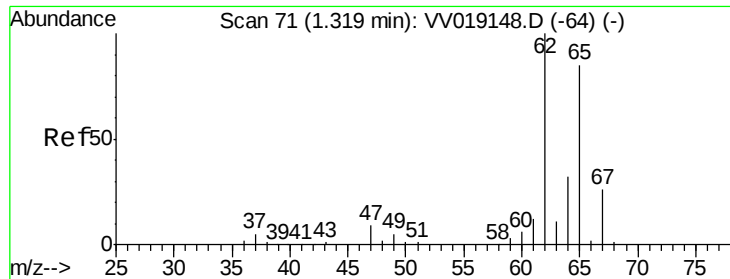
52 31.8 22.1 41.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 85.390 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

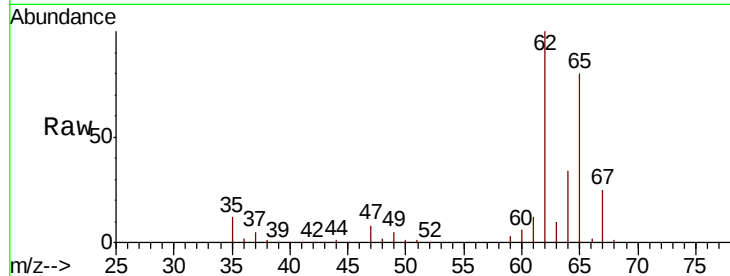
VSTD10065

Tot Ion: 62 Resp: 192365

Ion Ratio Lower Upper

62 100

64 33.6 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

200000

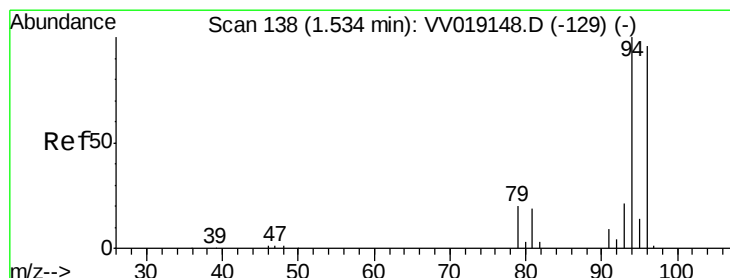
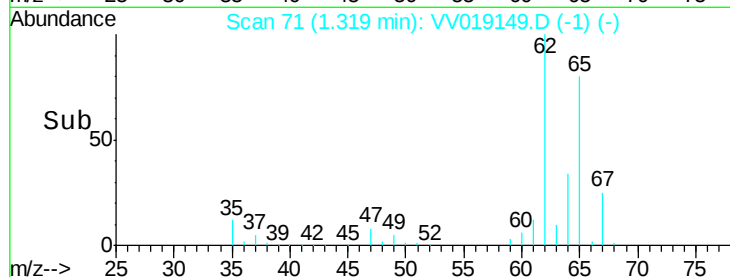
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 96.073 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV019149.D

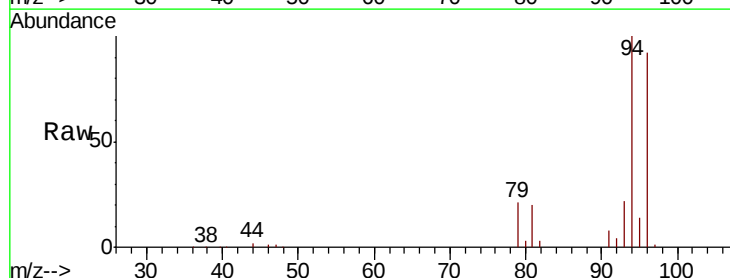
Acq: 29 Oct 2020 15:16

Tgt Ion: 94 Resp: 126874

Ion Ratio Lower Upper

94 100

96 92.3 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

120000

100000

80000

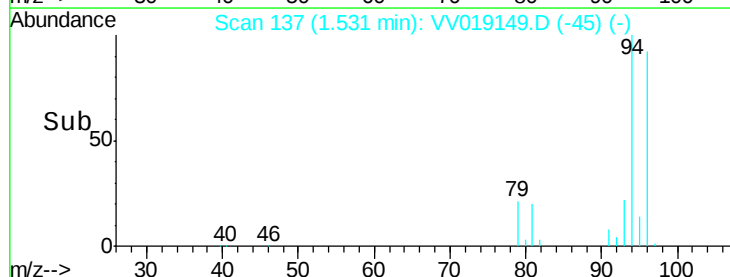
60000

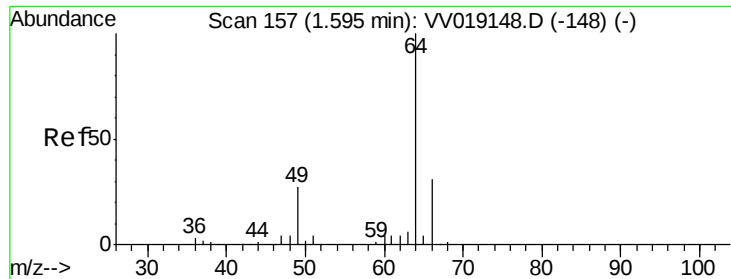
40000

20000

0

Time-->





#8

Chloroethane

Concen: 85.049 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

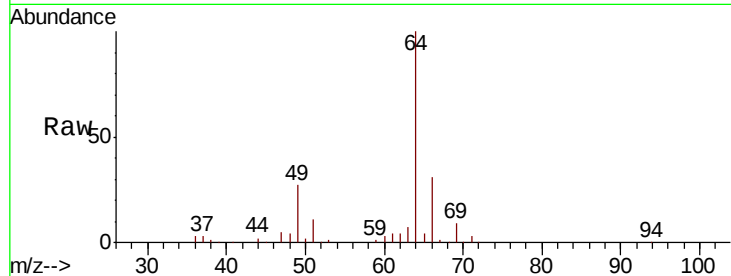
VSTD10065

Tot Ion: 64 Resp: 119715

Ion Ratio Lower Upper

64 100

66 31.4 22.0 40.8



Abundance Ion 64.00 (63.70 to 64.70): VV019148.D (-148) (-)

Ion 66.00 (65.70 to 66.70): VV019149.D (-33) (-)

120000

100000

80000

60000

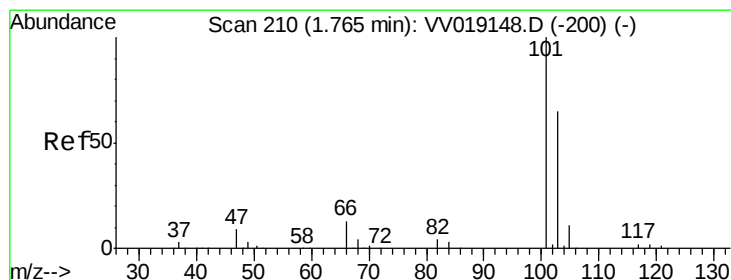
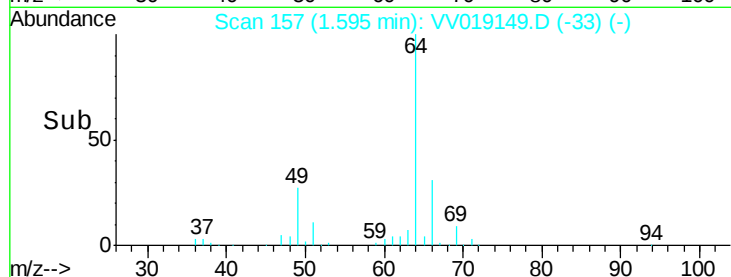
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 104.702 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV019149.D

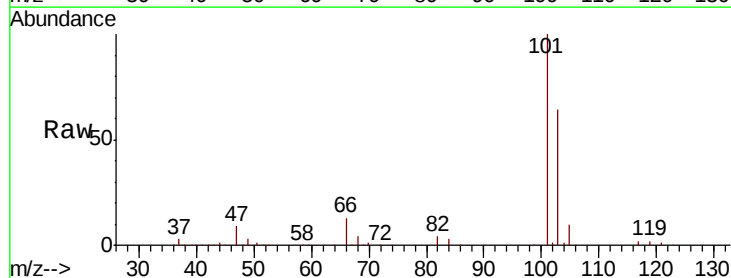
Acq: 29 Oct 2020 15:16

Tgt Ion: 101 Resp: 324708

Ion Ratio Lower Upper

101 100

103 64.5 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV019148.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019149.D (-86) (-)

250000

200000

150000

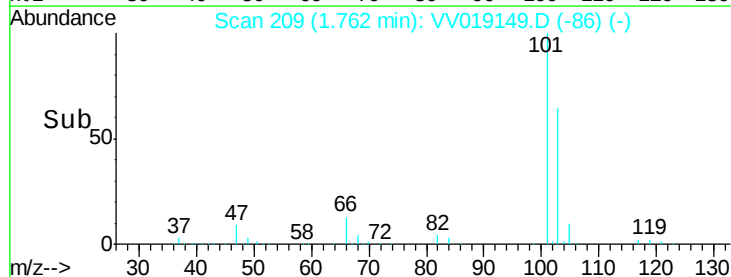
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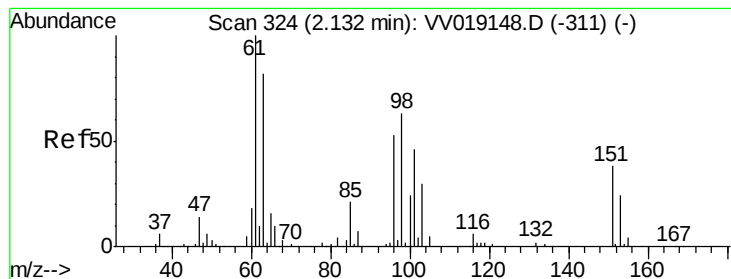
50000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 95.647 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

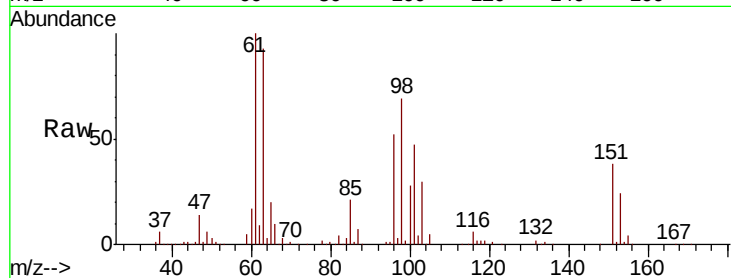
Tot Ion:101 Resp: 154217

Ion Ratio Lower Upper

101 100

85 45.0 36.1 54.1

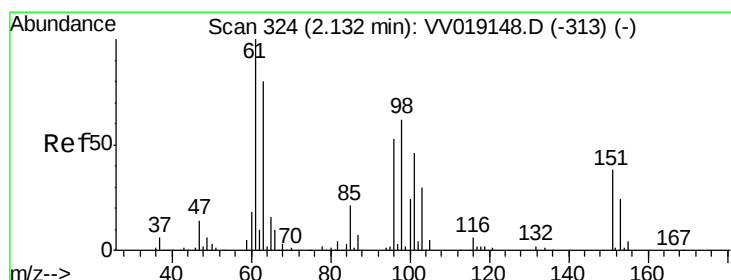
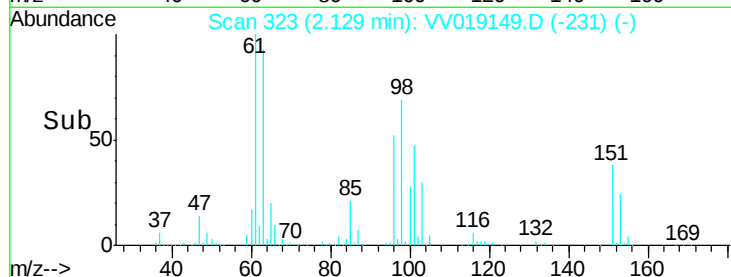
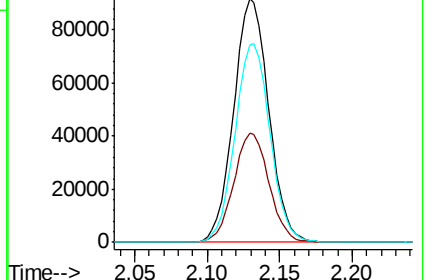
151 81.6 65.0 97.4



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: 94.606 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

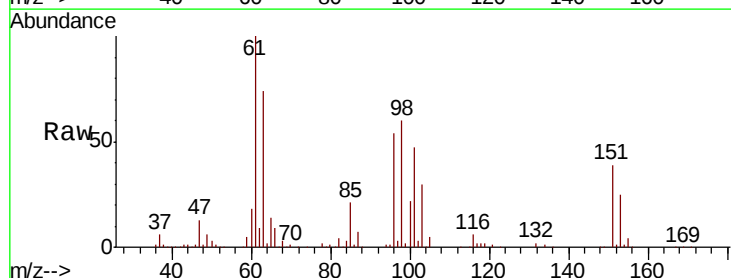
Tgt Ion: 96 Resp: 152257

Ion Ratio Lower Upper

96 100

61 183.7 132.6 246.2

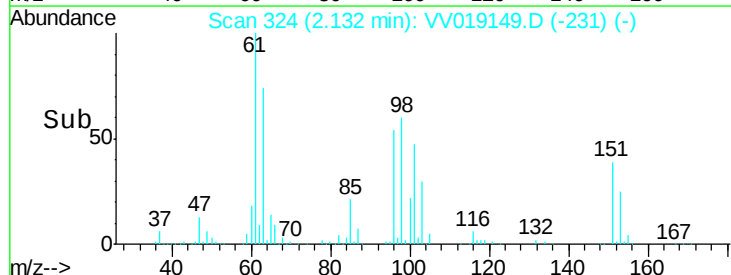
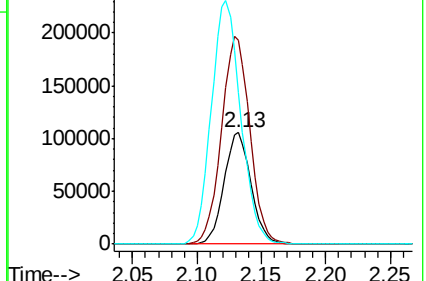
63 136.5 108.4 201.4

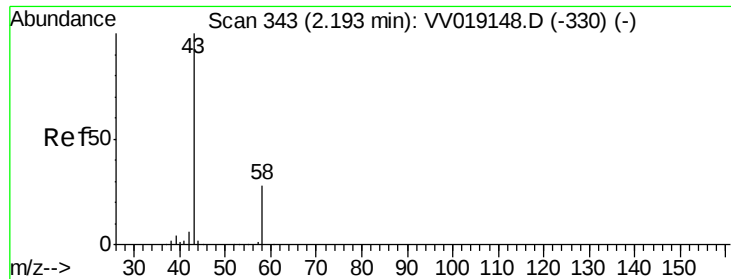


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 186.271 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

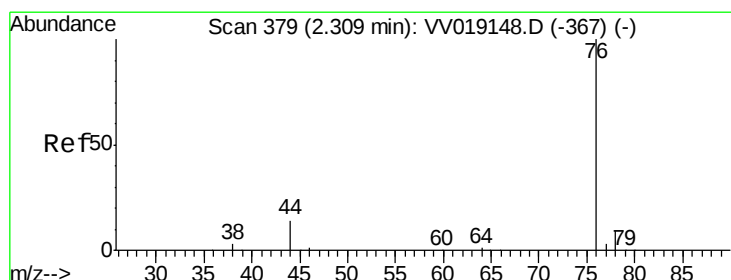
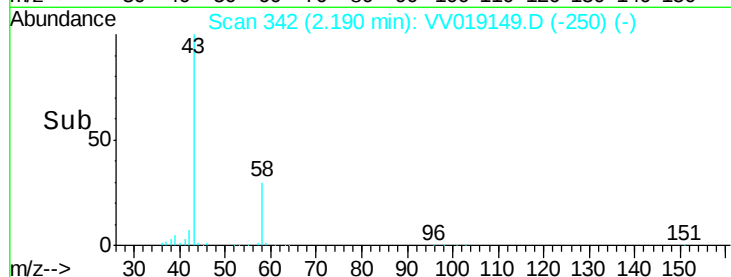
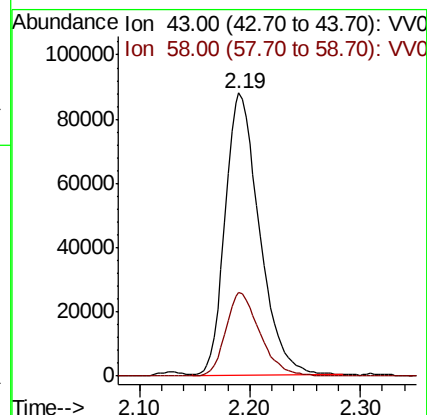
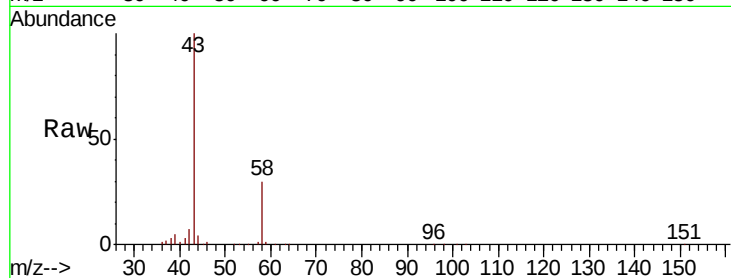
VSTD10065

Tot Ion: 43 Resp: 189417

Ion Ratio Lower Upper

43 100

58 29.3 0.0 59.4



#14

Carbon disulfide

Concen: 91.127 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019149.D

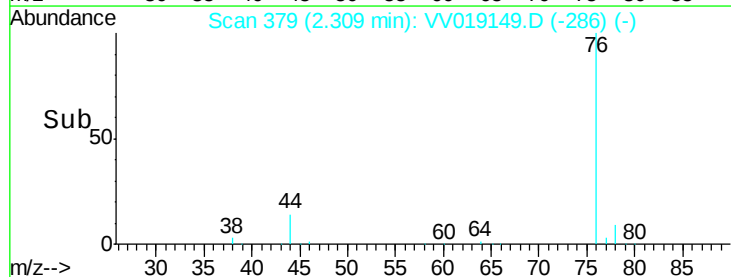
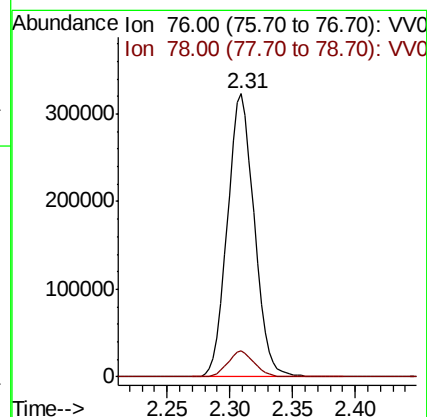
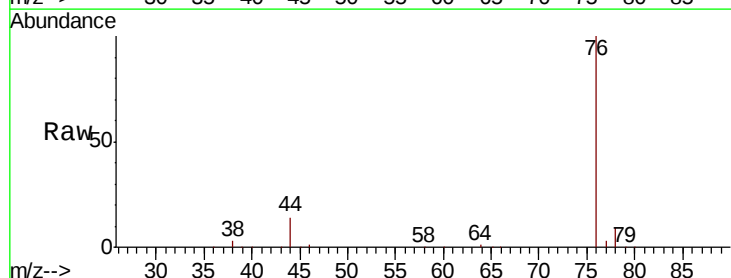
Acq: 29 Oct 2020 15:16

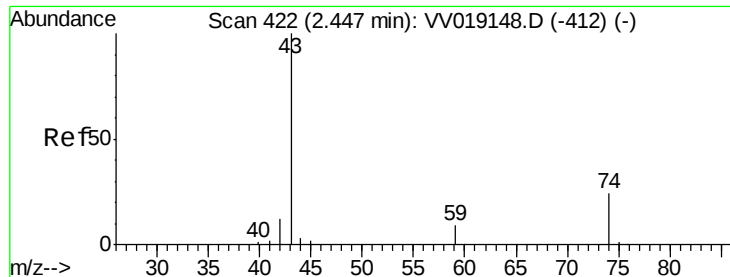
Tgt Ion: 76 Resp: 480310

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0





#15

Methvl Acetate

Concen: 84.209 ug/L

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampled :

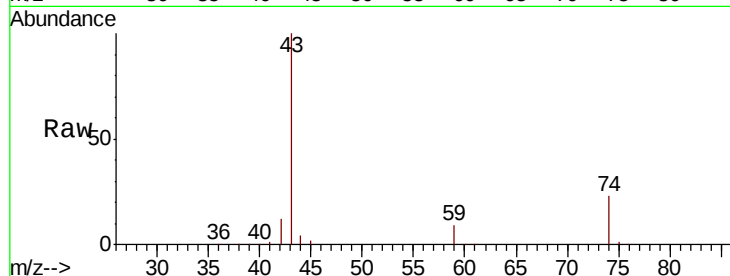
VSTD10065

Tot Ion: 43 Resp: 171046

Ion Ratio Lower Upper

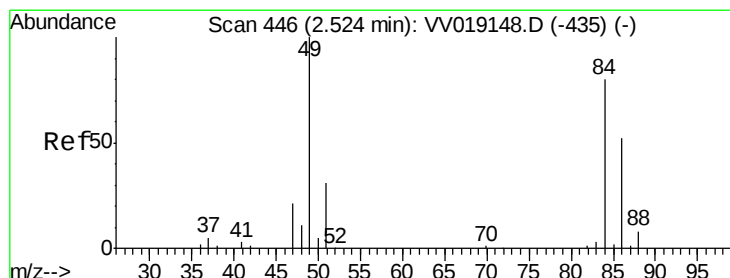
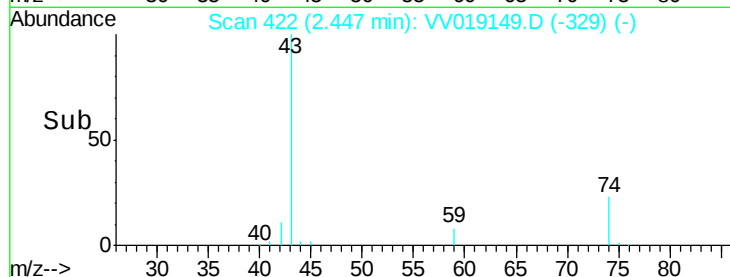
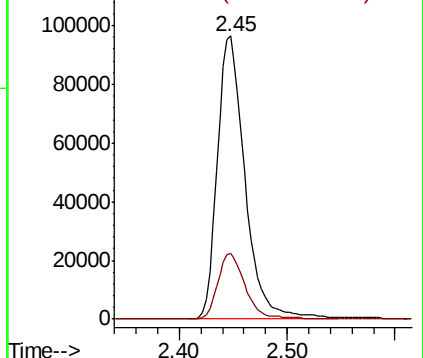
43 100

74 22.9 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 89.395 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

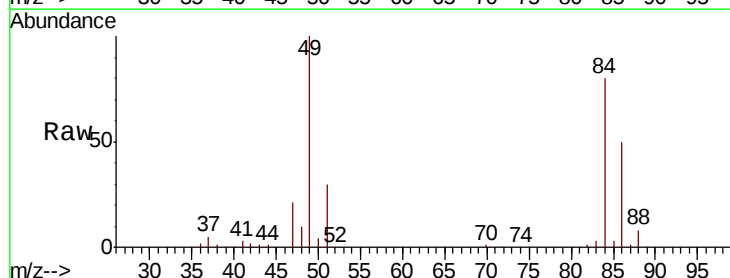
Tgt Ion: 84 Resp: 166317

Ion Ratio Lower Upper

84 100

86 62.9 46.0 85.4

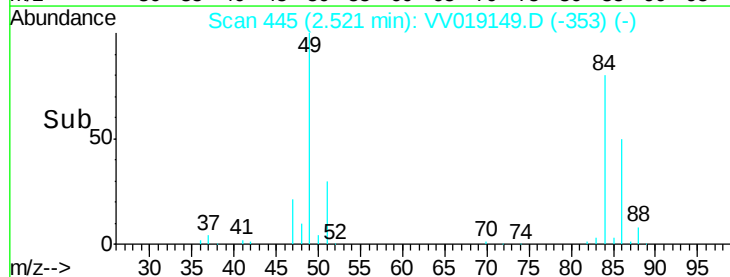
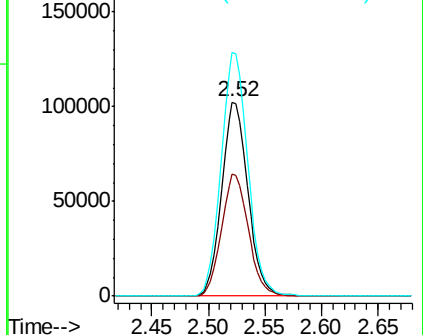
49 125.3 87.8 163.2

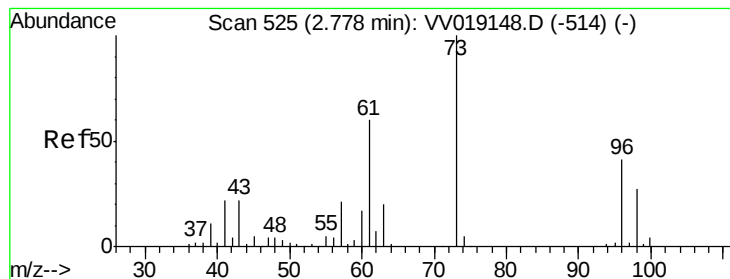


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 95.203 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

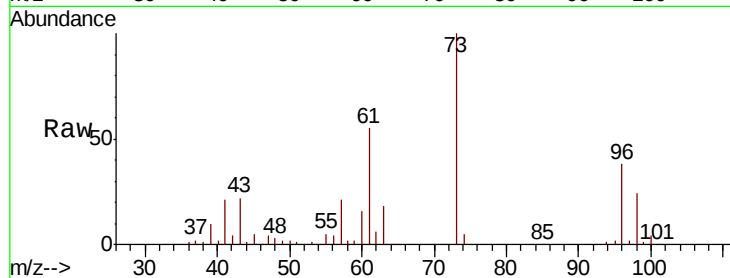
Tot Ion: 96 Resp: 162074

Ion Ratio Lower Upper

96 100

61 144.5 102.4 190.2

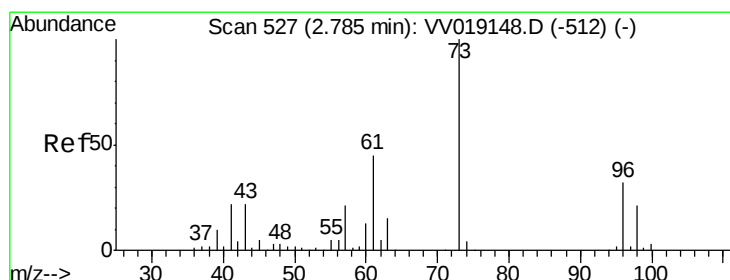
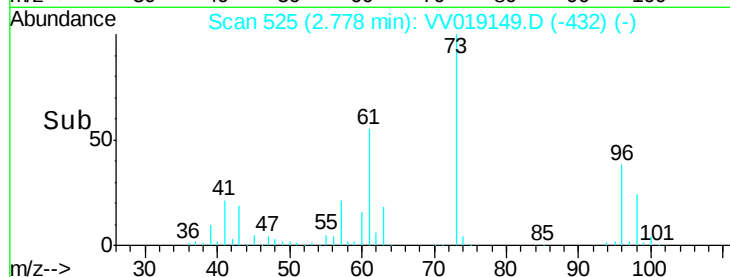
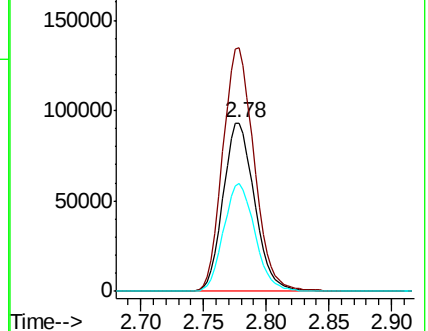
98 64.0 45.9 85.3



Abundance Ion 96.00 (95.70 to 96.70): VV019149.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019149.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019149.D (-432) (-)



#18

Methyl tert-butyl Ether

Concen: 99.552 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

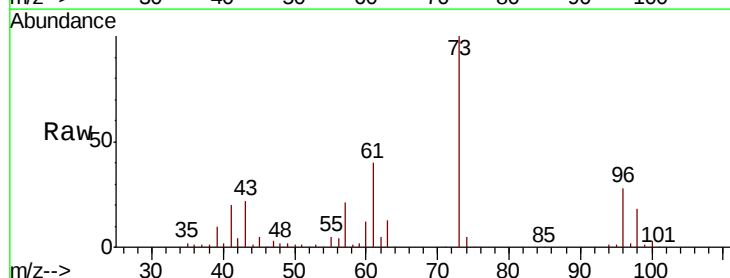
Tgt Ion: 73 Resp: 551165

Ion Ratio Lower Upper

73 100

43 21.5 17.9 26.9

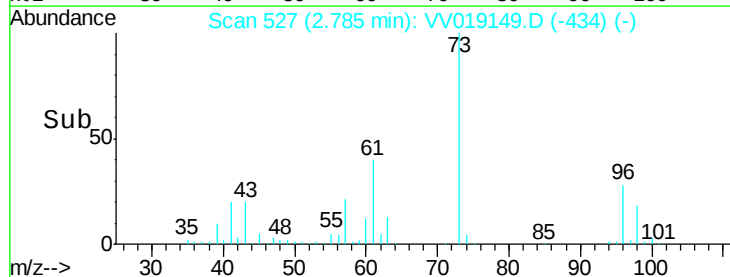
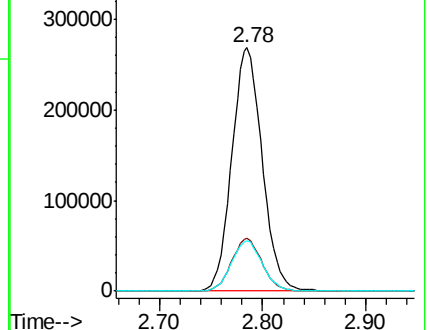
57 21.1 17.1 25.7

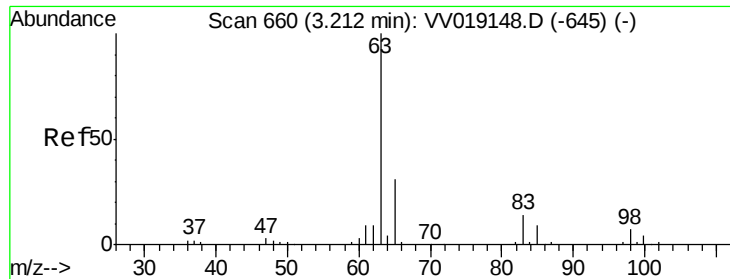


Abundance Ion 73.00 (72.70 to 73.70): VV019149.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019149.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019149.D (-434) (-)

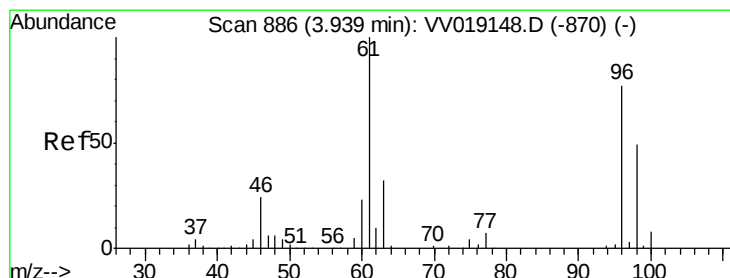
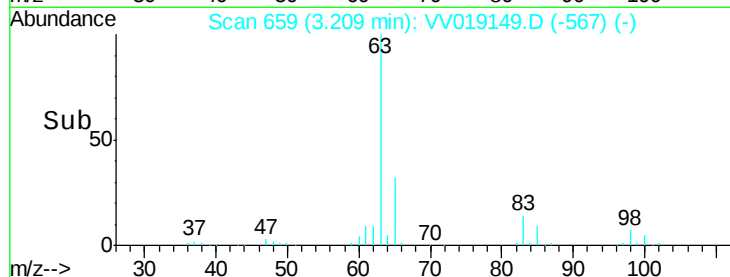
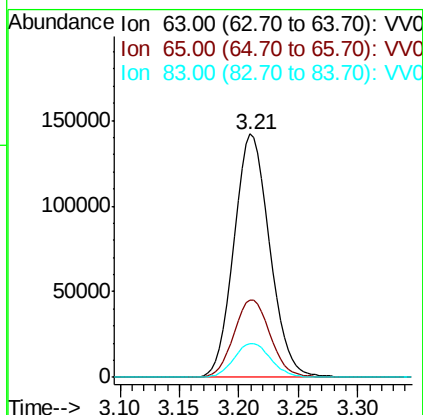
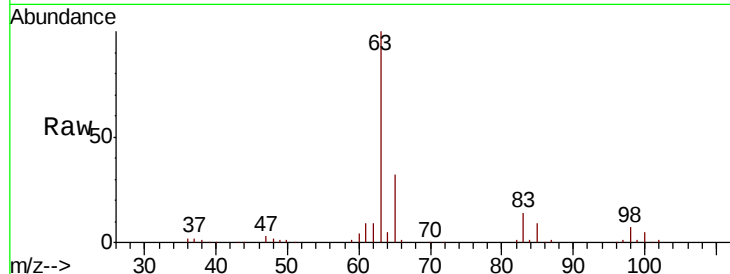




#19
 1,1-Dichloroethane
 Concen: 87.435 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. -0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

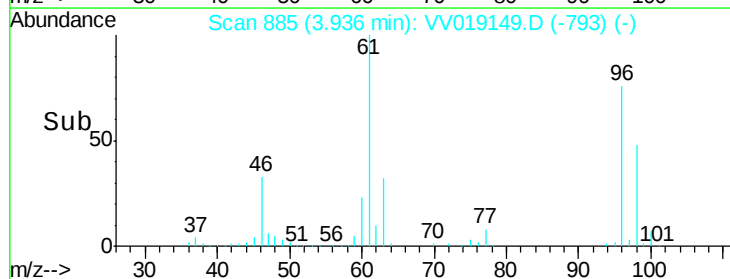
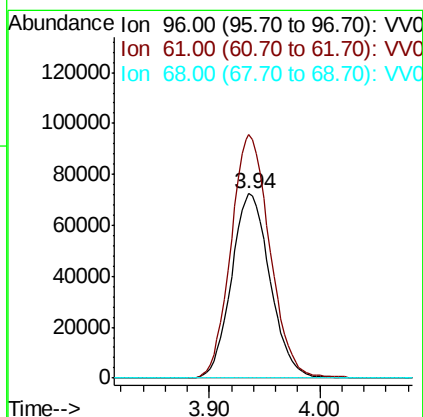
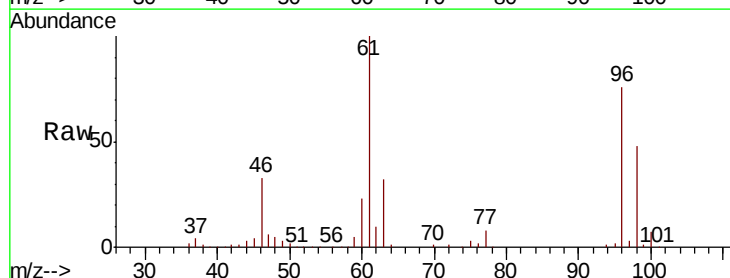
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

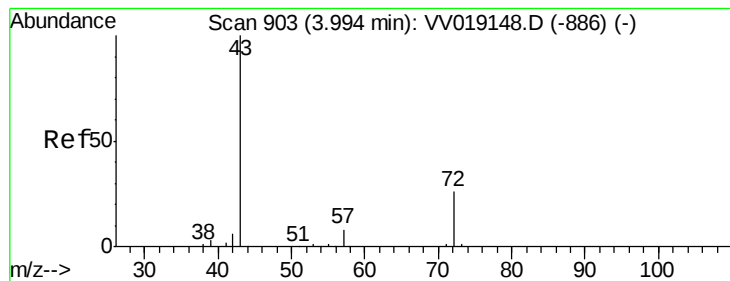
Tot Ion: 63 Resp: 296647
 Ion Ratio Lower Upper
 63 100
 65 32.0 22.0 40.8
 83 14.1 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 95.910 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

Tgt Ion: 96 Resp: 175530
 Ion Ratio Lower Upper
 96 100
 61 132.0 90.7 168.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 183.484 ug/L

RT: 3.99 min Scan# 902

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

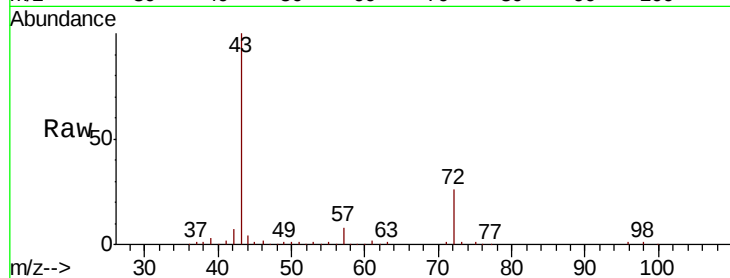
VSTD10065

Tot Ion: 43 Resp: 247320

Ion Ratio Lower Upper

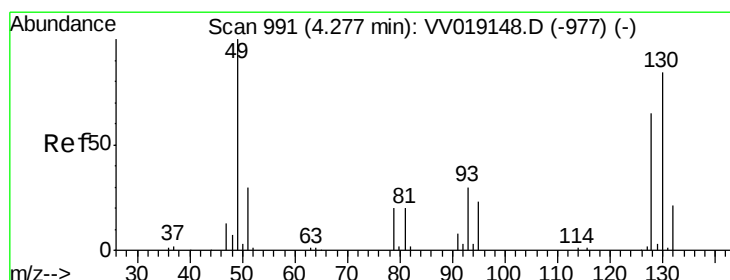
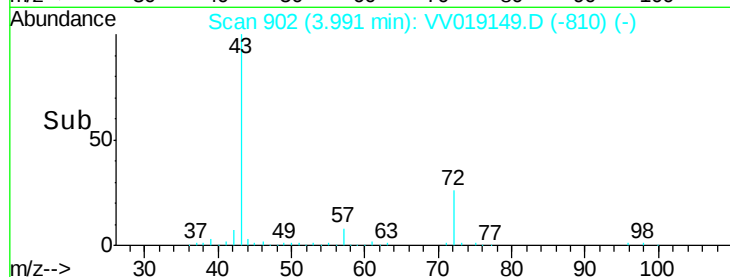
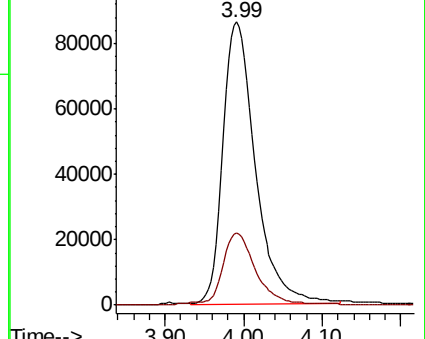
43 100

72 25.0 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV019148.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV019148.D (-886) (-)



#23

Bromochloromethane

Concen: 100.265 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Tgt Ion: 128 Resp: 93950

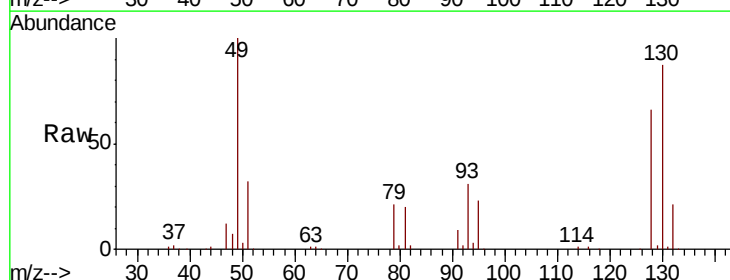
Ion Ratio Lower Upper

128 100

49 151.4 108.5 201.5

130 131.6 90.4 167.8

51 48.6 36.9 55.3

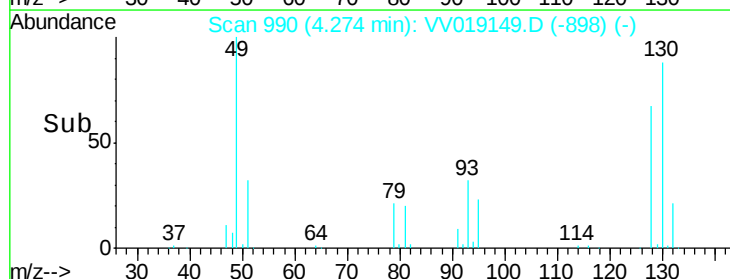
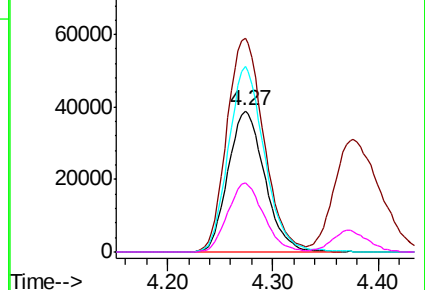


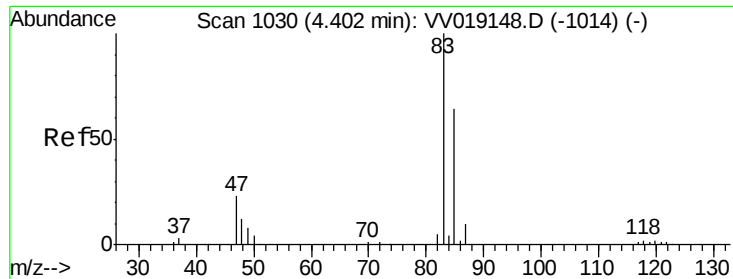
Abundance Ion 128.00 (127.70 to 128.70): VV019148.D (-977) (-)

Ion 49.00 (48.70 to 49.70): VV019148.D (-977) (-)

Ion 130.00 (129.70 to 130.70): VV019148.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VV019148.D (-977) (-)

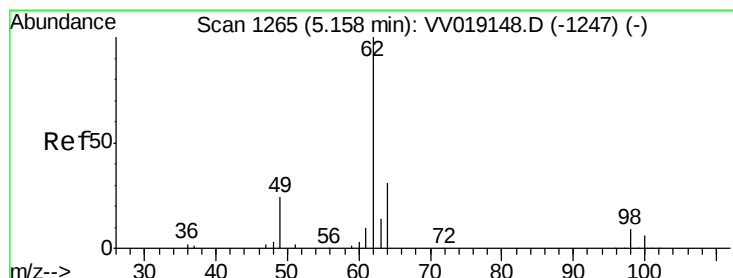
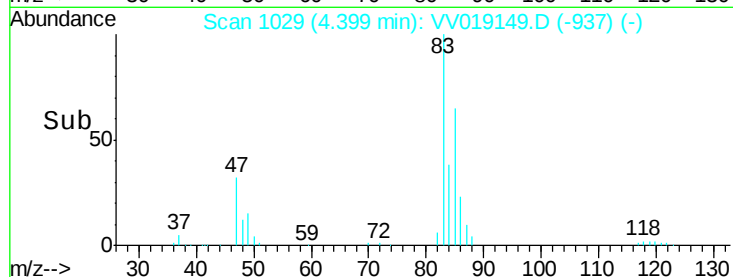
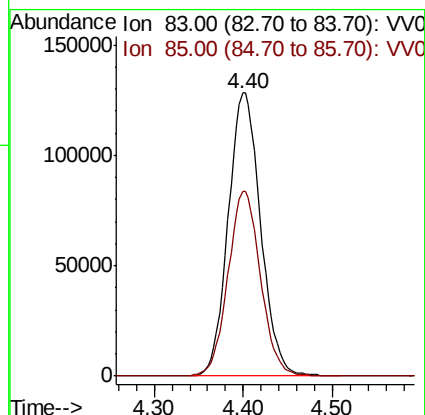
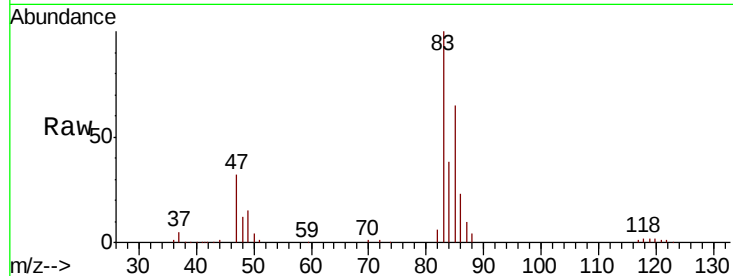




#25
Chloroform
Concen: 95.077 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

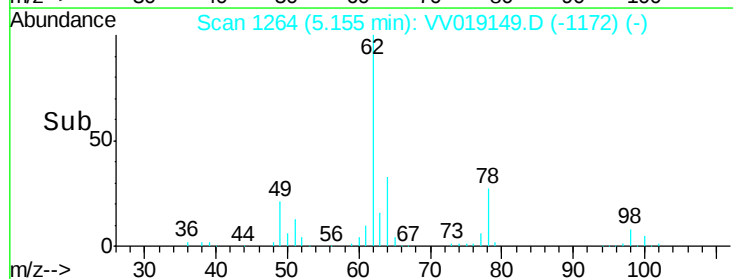
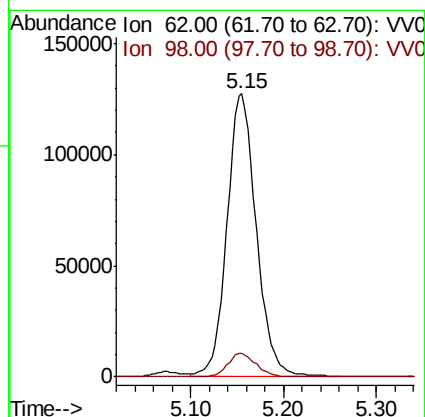
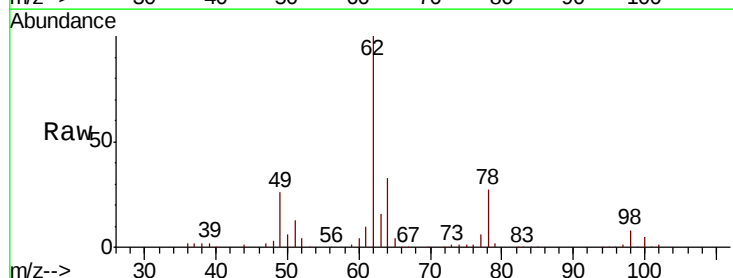
Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

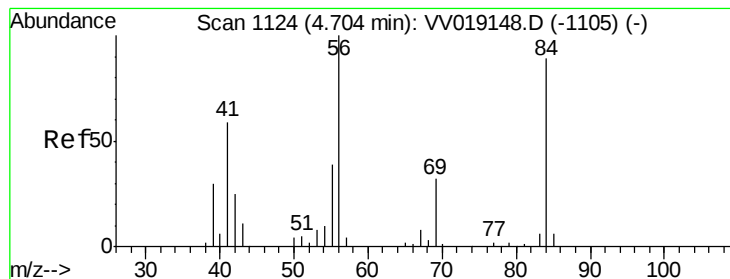
Tot Ion: 83 Resp: 322954
Ion Ratio Lower Upper
83 100
85 65.4 45.1 83.9



#27
1,2-Dichloroethane
Concen: 98.764 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

Tgt Ion: 62 Resp: 278858
Ion Ratio Lower Upper
62 100
98 8.4 6.8 10.2





#29

Cyclohexane

Concen: 96.819 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

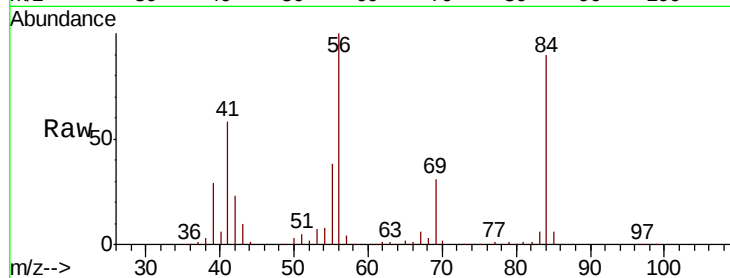
Tot Ion: 56 Resp: 267870

Ion Ratio Lower Upper

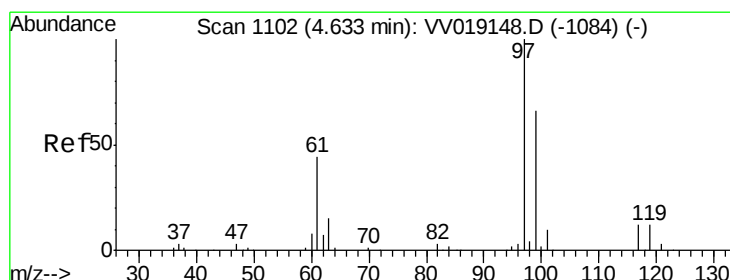
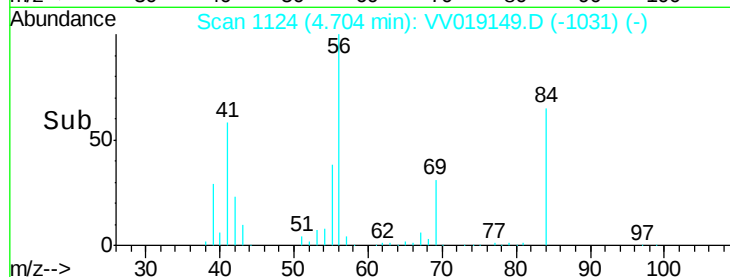
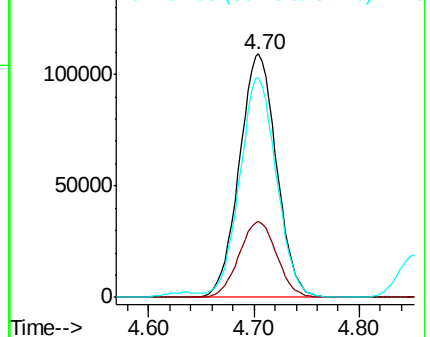
56 100

69 31.5 25.0 37.4

84 89.5 71.5 107.3



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: 103.524 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

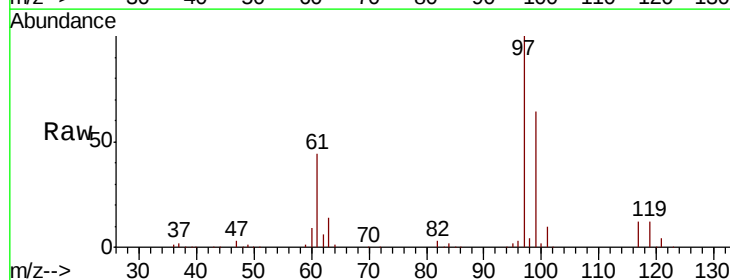
Tgt Ion: 97 Resp: 309882

Ion Ratio Lower Upper

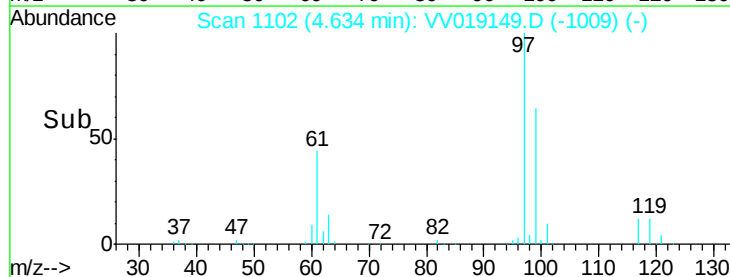
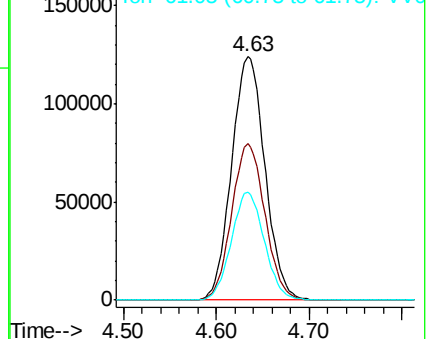
97 100

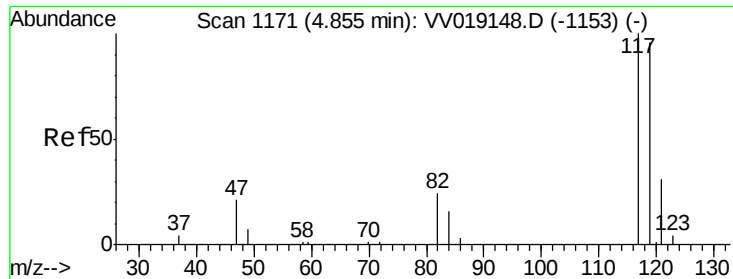
99 64.0 51.3 76.9

61 43.9 34.6 52.0



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: 107.236 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

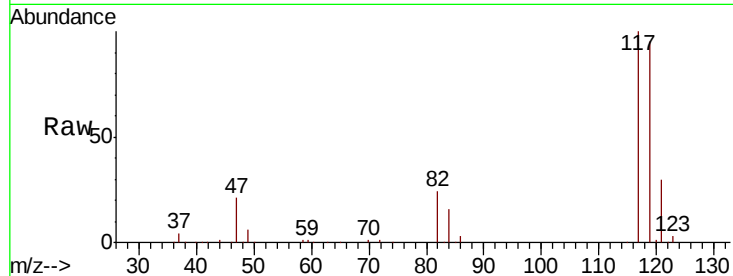
VSTD10065

Tot Ion:117 Resp: 281699

Ion Ratio Lower Upper

117 100

119 95.8 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.85

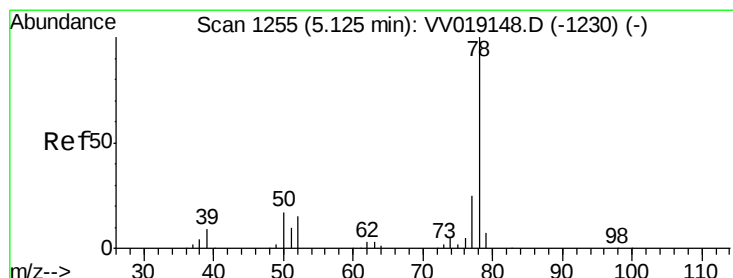
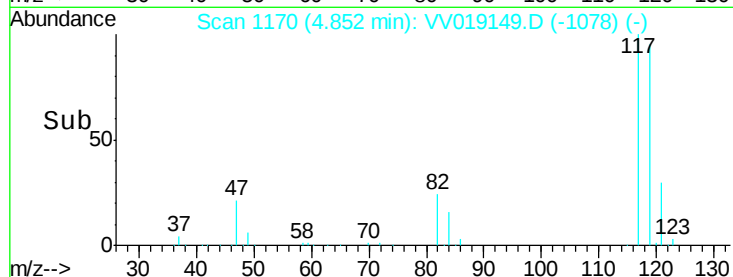
100000

50000

0

Time-->

4.80 4.90 5.00



#33

Benzene

Concen: 92.923 ug/L

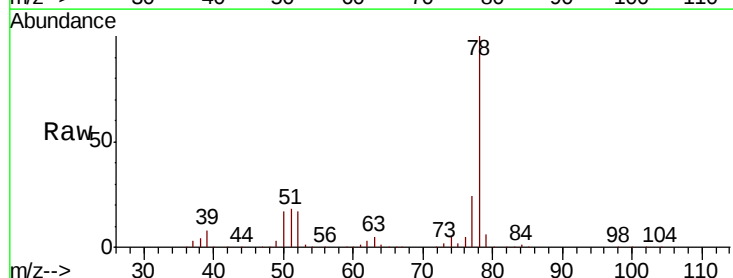
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Tgt Ion: 78 Resp: 662891



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.12

300000

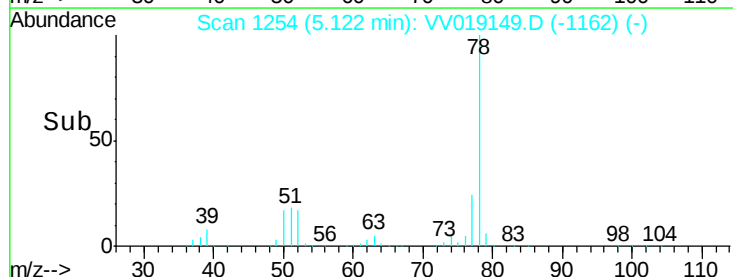
200000

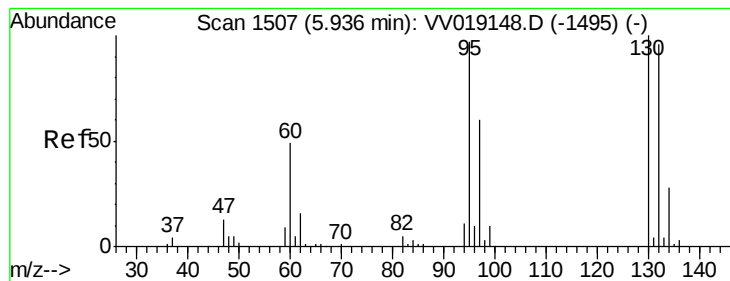
100000

0

Time-->

5.00 5.10 5.20





#34

Trichloroethene

Concen: 95.986 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

Tot Ion: 95 Resp: 176096

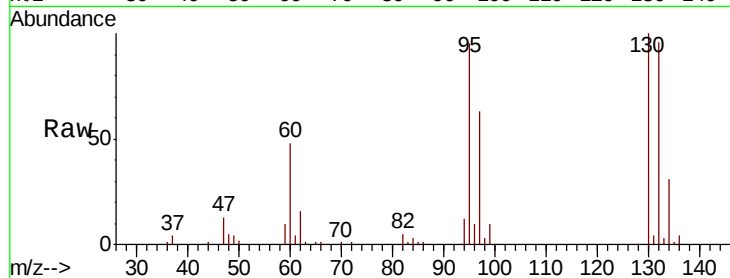
Ion Ratio Lower Upper

95 100

97 65.6 43.4 80.6

132 101.2 69.7 129.4

130 104.9 72.4 134.5

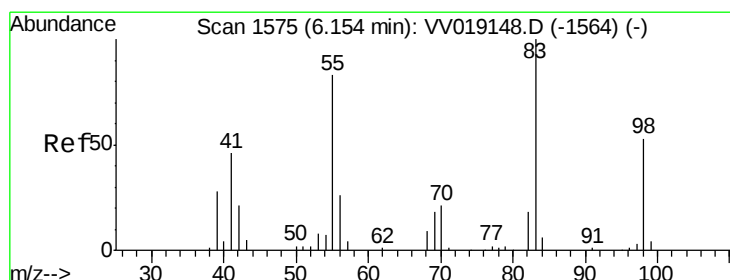
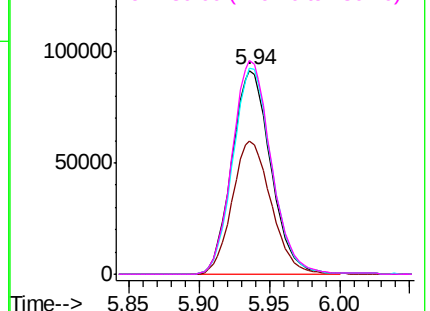
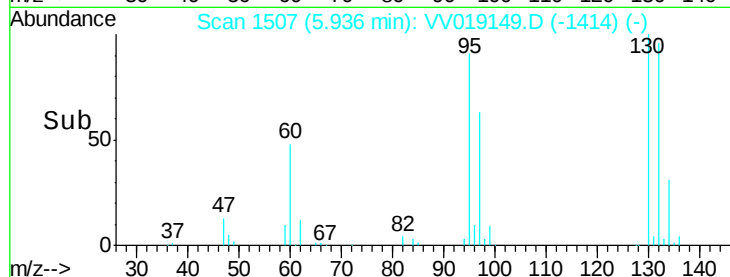


Abundance Ion 95.00 (94.70 to 95.70): VV019149.D (-1414) (-)

Ion 97.00 (96.70 to 97.70): VV019149.D (-1414) (-)

Ion 132.00 (131.70 to 132.70): VV019149.D (-1414) (-)

Ion 130.00 (129.70 to 130.70): VV019149.D (-1414) (-)



#35

Methylcyclohexane

Concen: 102.816 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

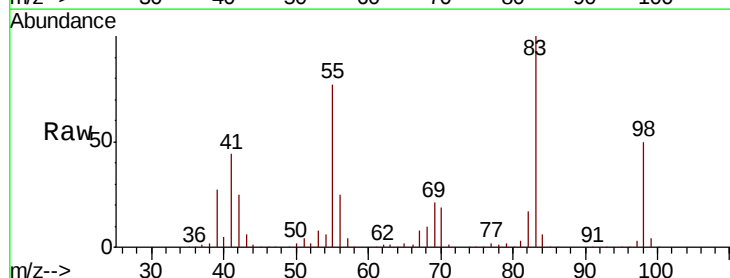
Tgt Ion: 83 Resp: 257407

Ion Ratio Lower Upper

83 100

55 77.5 62.2 93.4

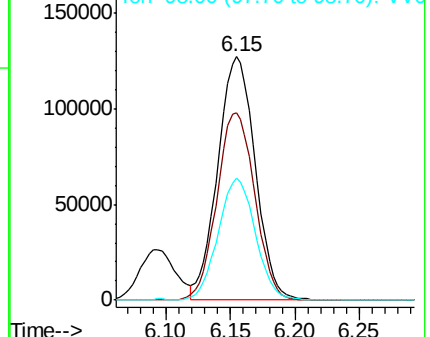
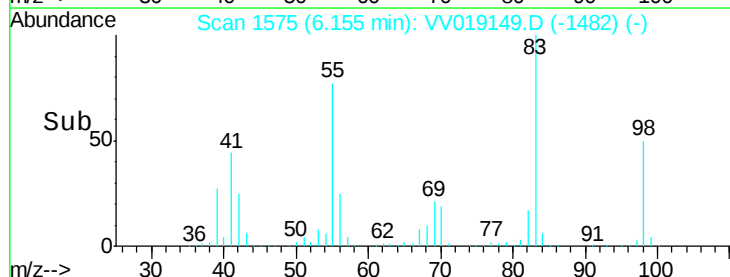
98 49.8 39.4 59.2

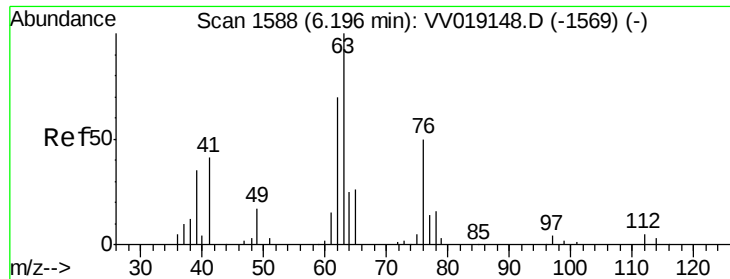


Abundance Ion 83.00 (82.70 to 83.70): VV019149.D (-1482) (-)

Ion 55.00 (54.70 to 55.70): VV019149.D (-1482) (-)

Ion 98.00 (97.70 to 98.70): VV019149.D (-1482) (-)

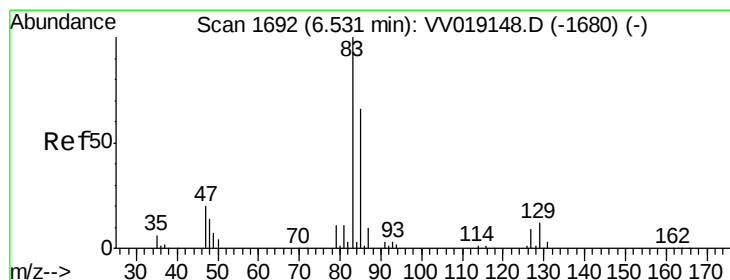
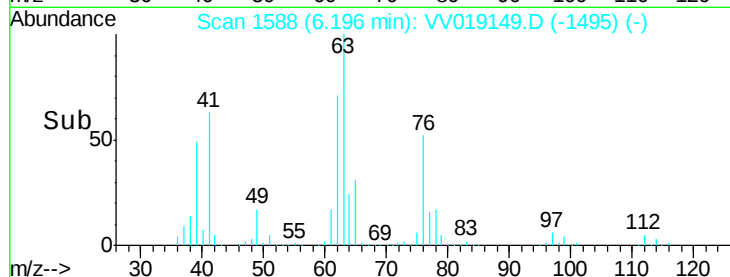
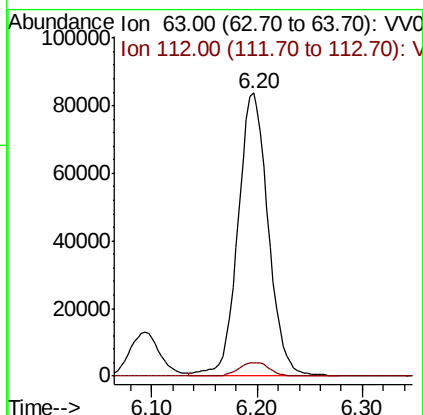
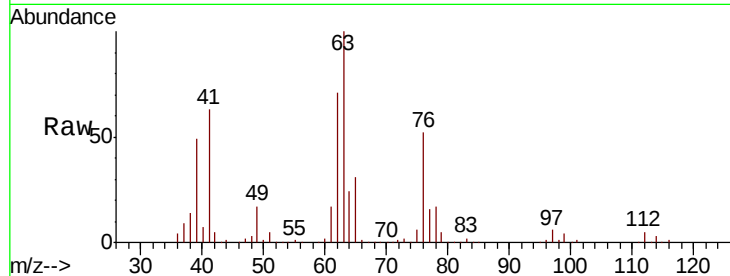




#37
 1,2-Dichloropropane
 Concen: 85.498 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

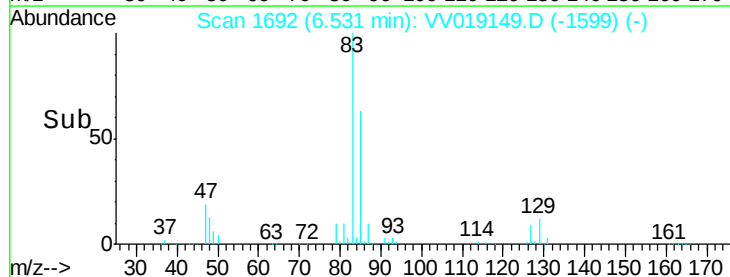
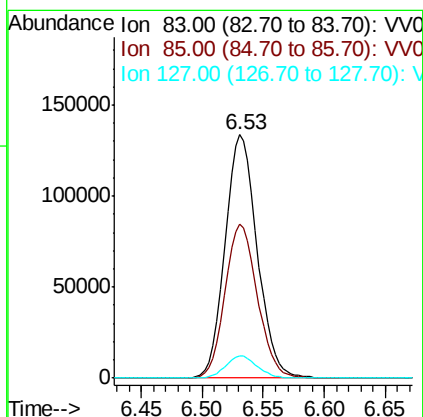
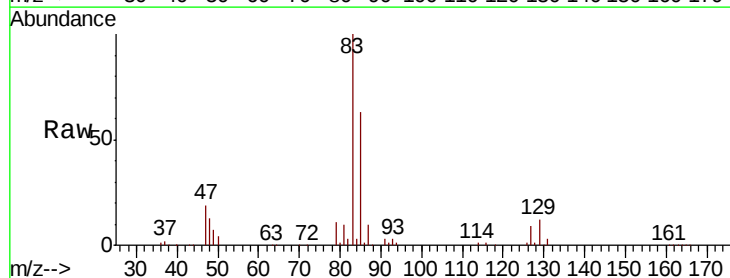
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

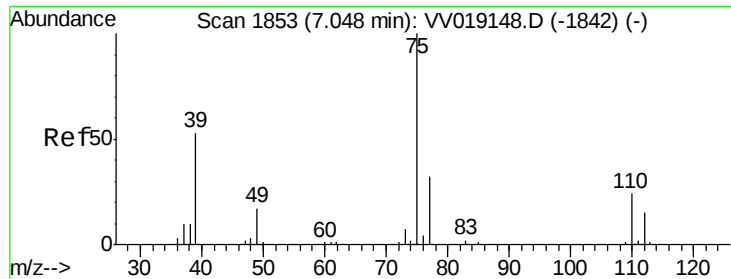
Tot Ion: 63 Resp: 165595
 Ion Ratio Lower Upper
 63 100
 112 5.0 3.8 5.8



#38
 Bromodichloromethane
 Concen: 97.843 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

Tgt Ion: 83 Resp: 246666
 Ion Ratio Lower Upper
 83 100
 85 63.0 45.9 85.3
 127 9.1 6.9 10.3

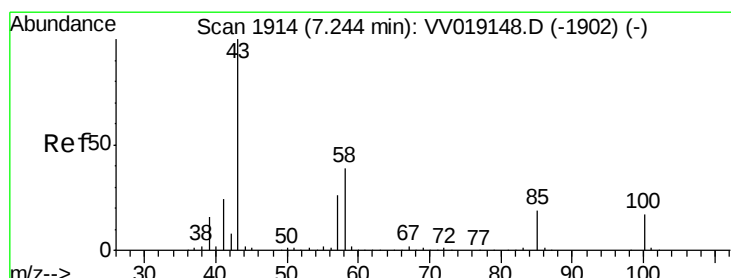
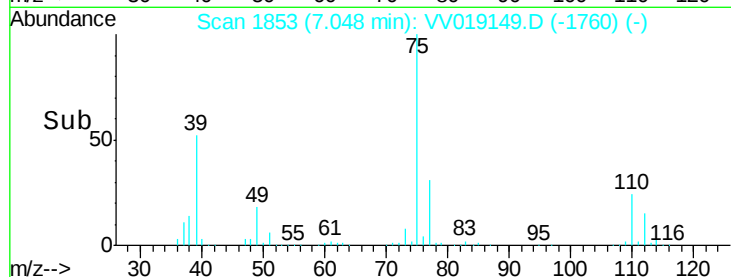
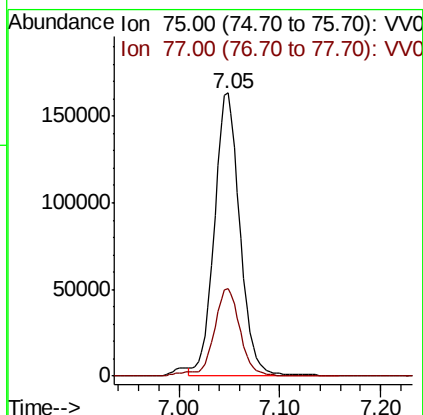
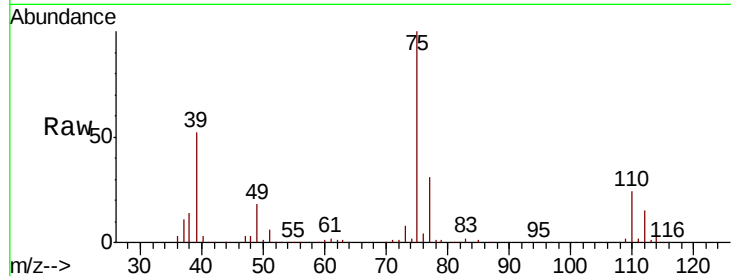




#39
 cis-1,3-Dichloropropene
 Concen: 98.107 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

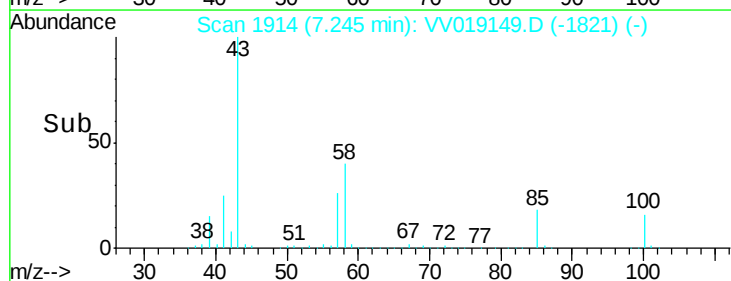
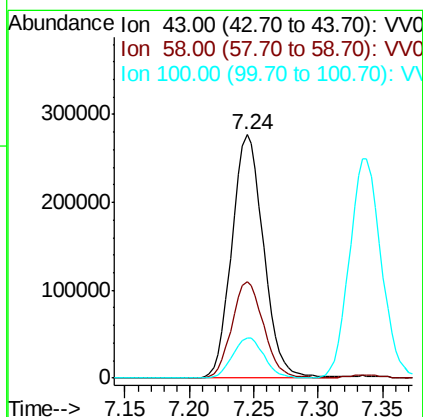
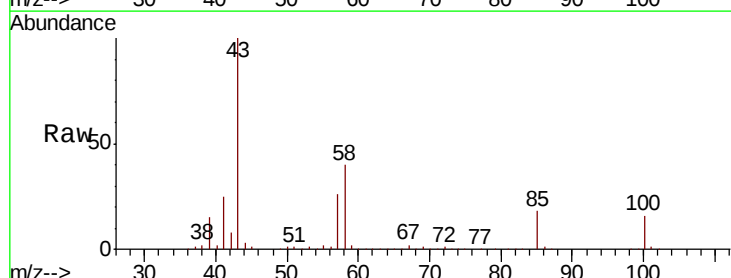
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

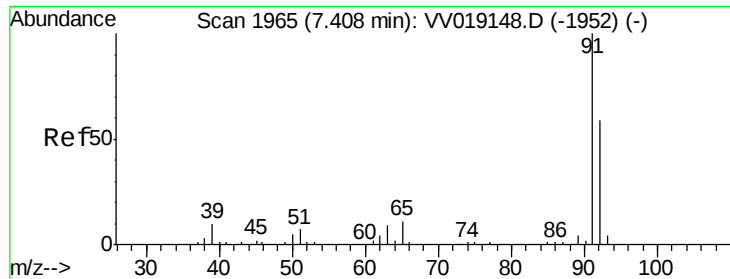
Tot Ion: 75 Resp: 286541
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 182.220 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

Tgt Ion: 43 Resp: 474939
 Ion Ratio Lower Upper
 43 100
 58 39.6 31.0 46.4
 100 16.4 13.2 19.8





#42

Toluene

Concen: 99.467 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

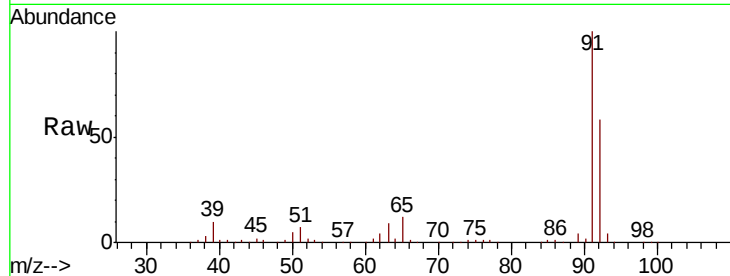
VSTD10065

Tot Ion: 91 Resp: 738931

Ion Ratio Lower Upper

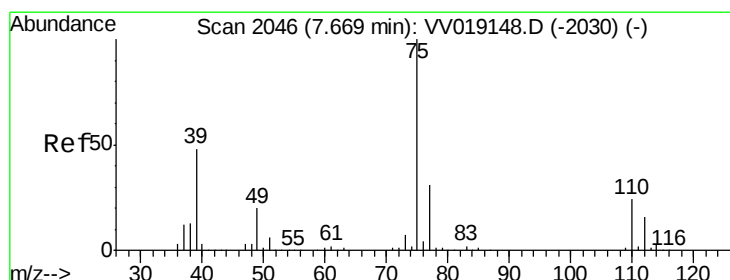
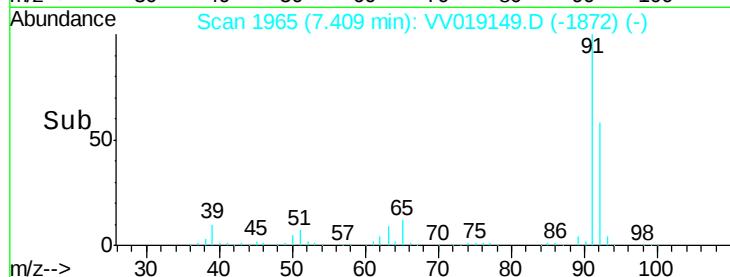
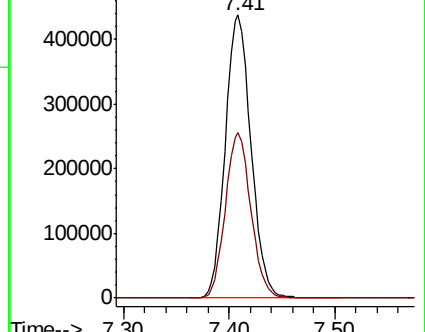
91 100

92 58.5 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 101.867 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019149.D

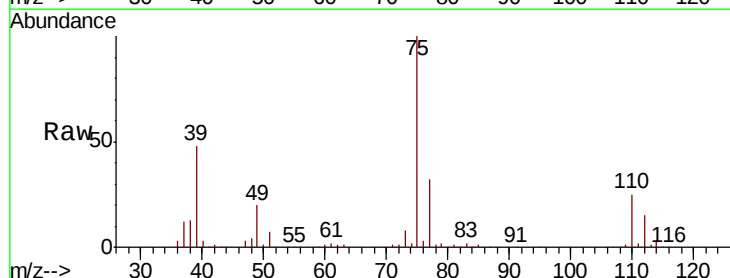
Acq: 29 Oct 2020 15:16

Tgt Ion: 75 Resp: 296605

Ion Ratio Lower Upper

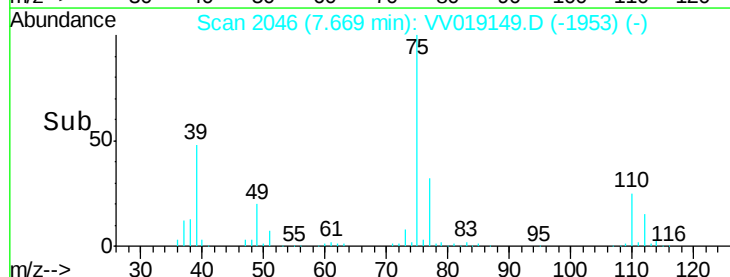
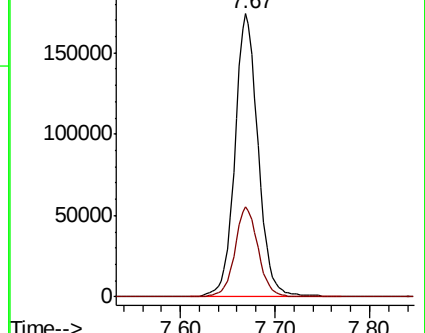
75 100

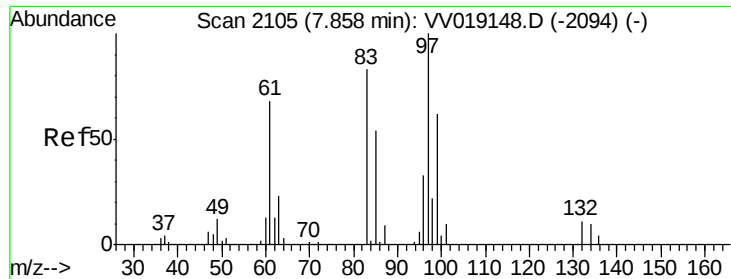
77 31.7 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

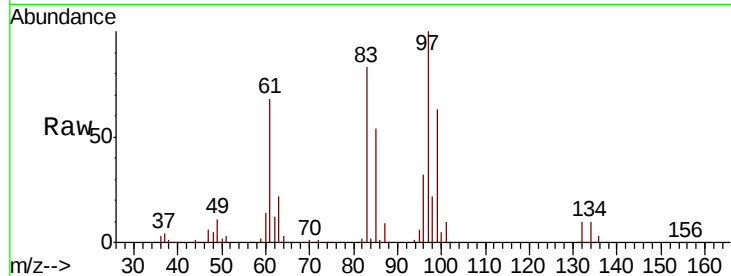




#45
 1,1,2-Trichloroethane
 Concen: 92.959 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

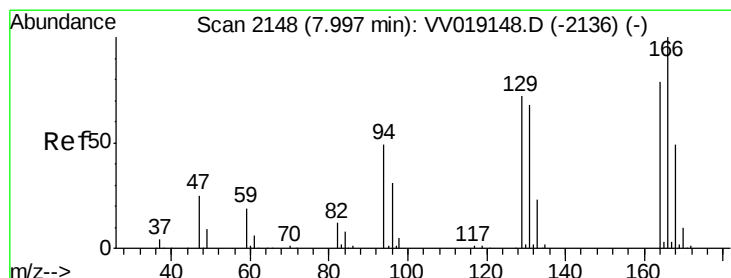
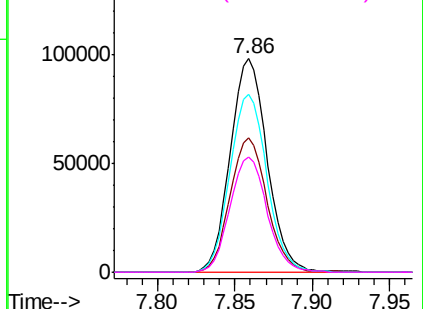
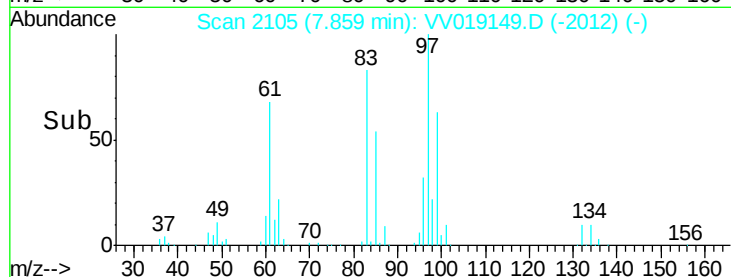
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

Tot Ion:	97	Resp:	162914
Ion	Ratio	Lower	Upper
97	100		
99	62.8	43.1	80.1
83	83.4	58.3	108.3
85	53.9	37.8	70.2



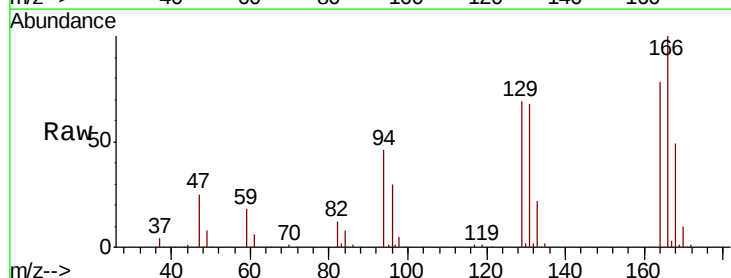
Abundance

Ion 97.00 (96.70 to 97.70): VV019149.D (-2012) (-)



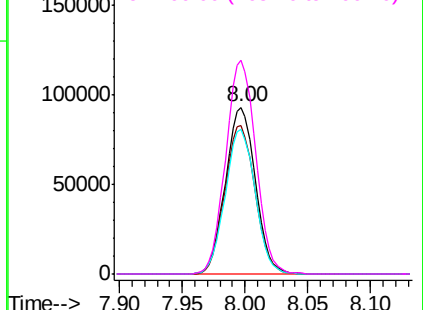
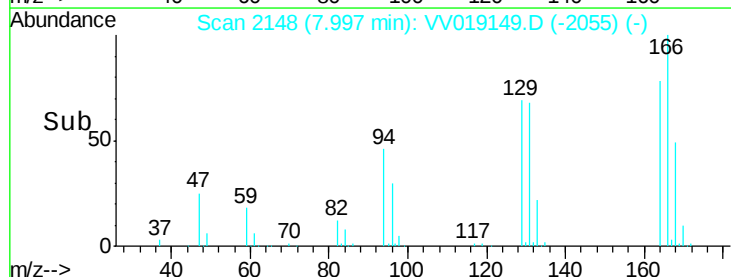
#46
 Tetrachloroethene
 Concen: 107.377 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

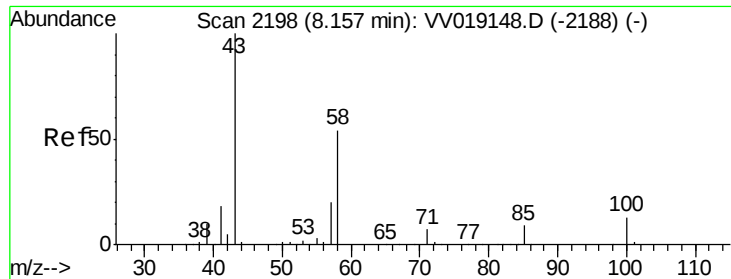
Tgt Ion:	164	Resp:	154330
Ion	Ratio	Lower	Upper
164	100		
129	88.8	63.2	117.4
131	86.6	60.3	112.1
166	128.1	88.3	163.9



Abundance

Ion 164.00 (163.70 to 164.70): VV019149.D (-2055) (-)

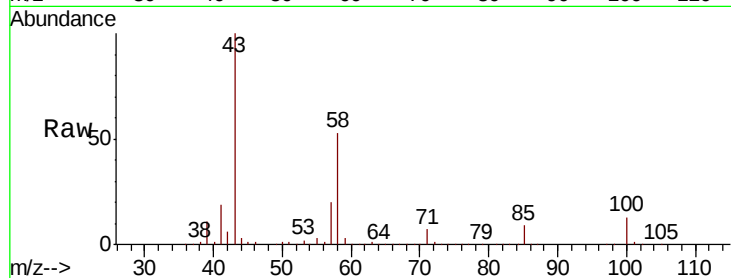




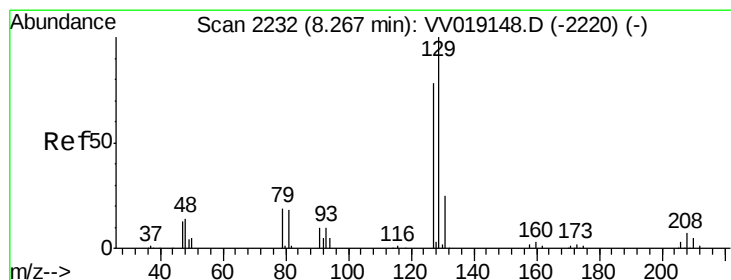
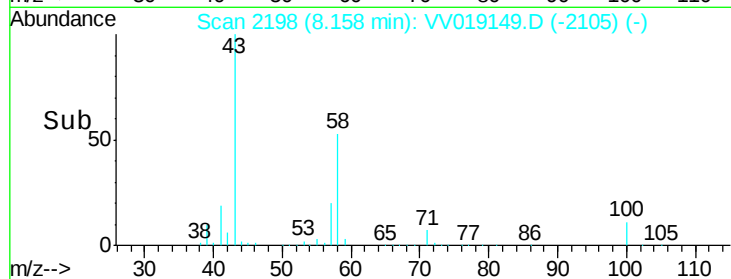
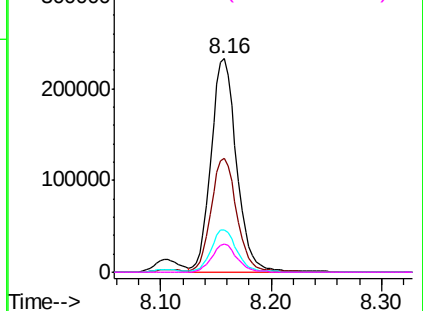
#48
2-Hexanone
Concen: 185.025 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. 0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

Tot Ion: 43 Resp: 372151
Ion Ratio Lower Upper
43 100
58 53.5 43.6 65.4
57 20.2 16.0 24.0
100 13.0 10.3 15.5

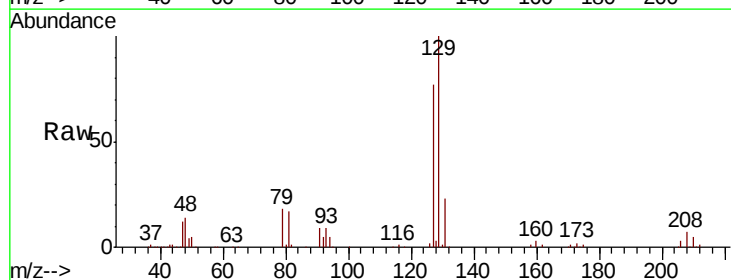


Abundance Ion 43.00 (42.70 to 43.70): VV019149.D (-2198) (-)
Ion 58.00 (57.70 to 58.70): VV019149.D (-2198) (-)
Ion 57.00 (56.70 to 57.70): VV019149.D (-2198) (-)
Ion 100.00 (99.70 to 100.70): VV019149.D (-2198) (-)

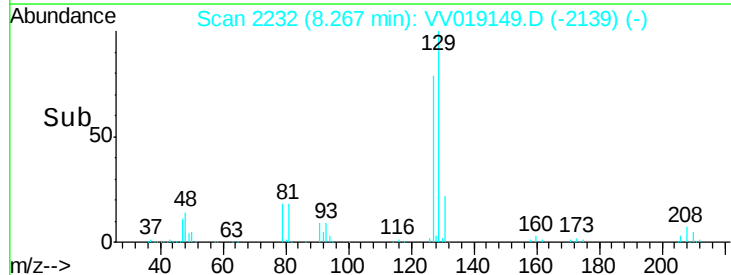
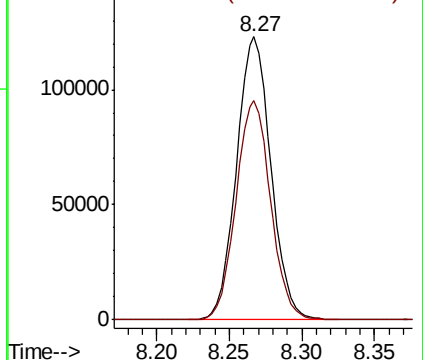


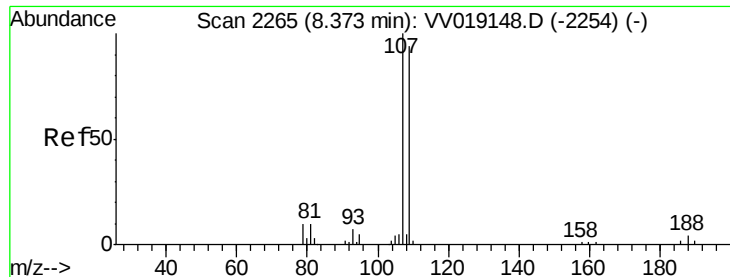
#49
Dibromochloromethane
Concen: 104.333 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

Tgt Ion: 129 Resp: 202601
Ion Ratio Lower Upper
129 100
127 77.4 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): VV019149.D (-2232) (-)
Ion 127.00 (126.70 to 127.70): VV019149.D (-2232) (-)

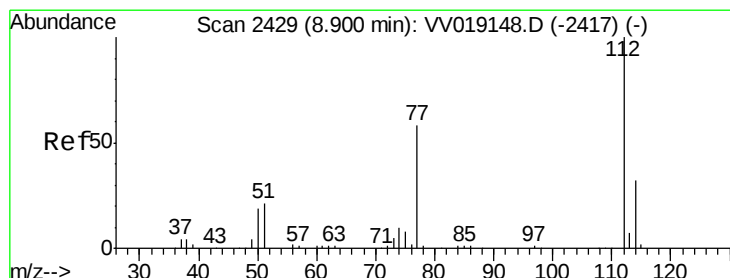
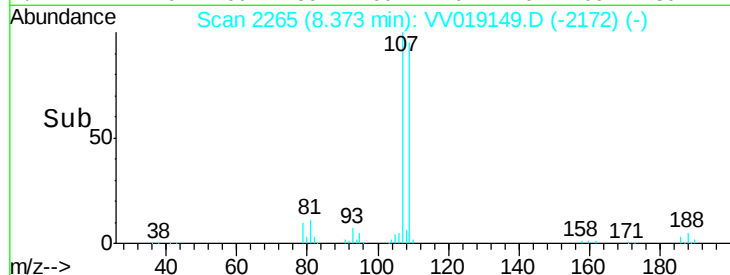
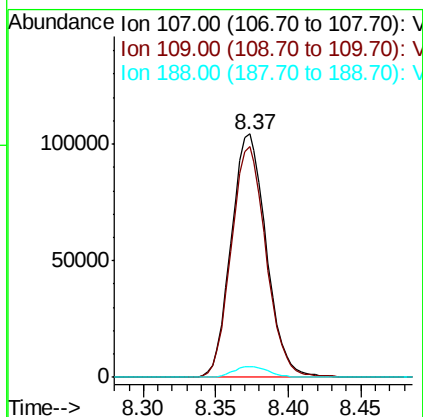
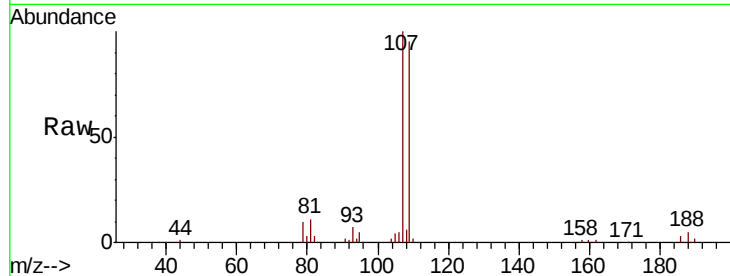




#50
1,2-Dibromoethane
Concen: 96.026 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

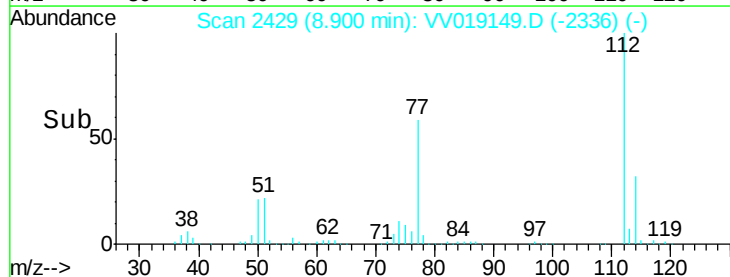
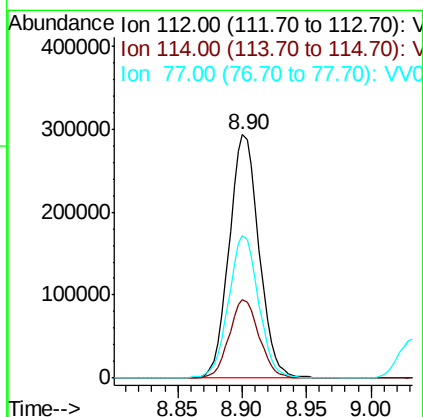
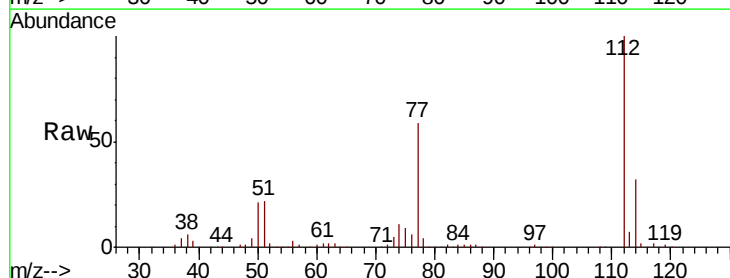
Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

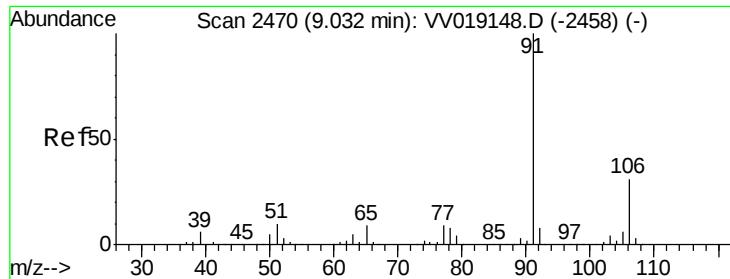
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.7	65.7	121.9
188	4.6	3.4	5.2



#51
Chlorobenzene
Concen: 98.626 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. 0.00 min
Lab File: VV019149.D
Acq: 29 Oct 2020 15:16

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	22.3	41.5
77	58.6	46.7	70.1





#52

Ethylbenzene

Concen: 103.284 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

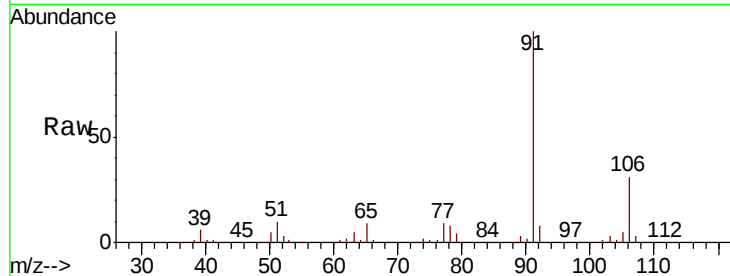
VSTD10065

Tot Ion: 91 Resp: 830155

Ion Ratio Lower Upper

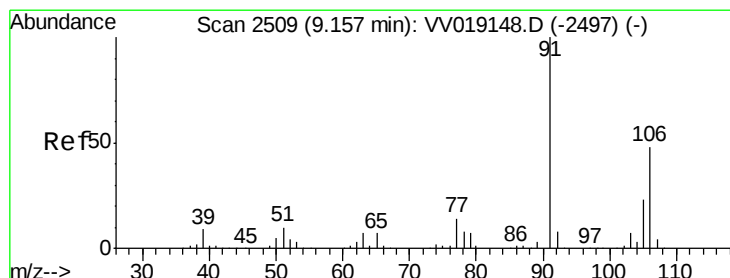
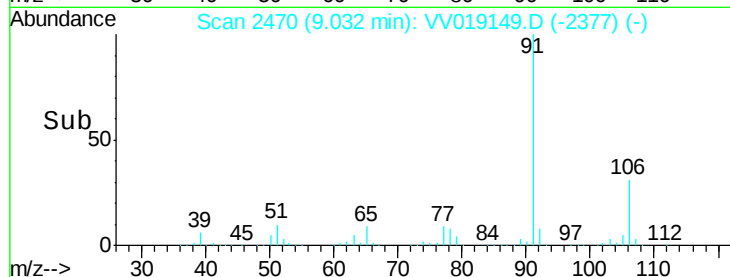
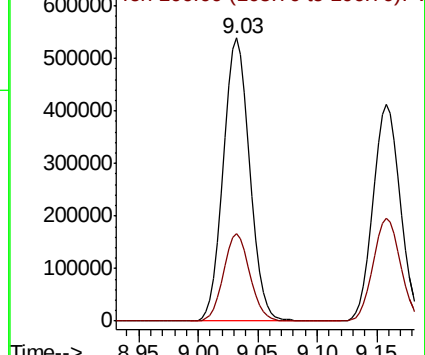
91 100

106 30.8 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 105.804 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019149.D

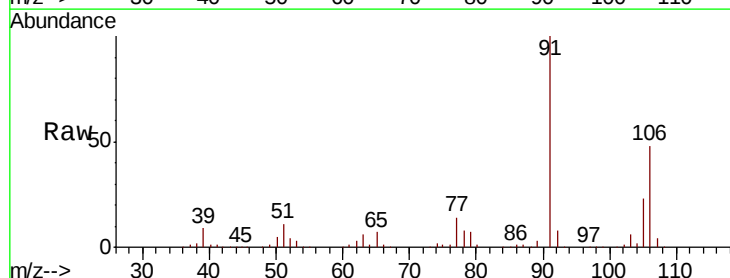
Acq: 29 Oct 2020 15:16

Tgt Ion: 106 Resp: 313573

Ion Ratio Lower Upper

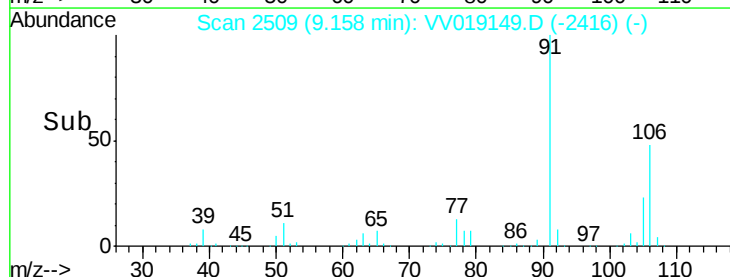
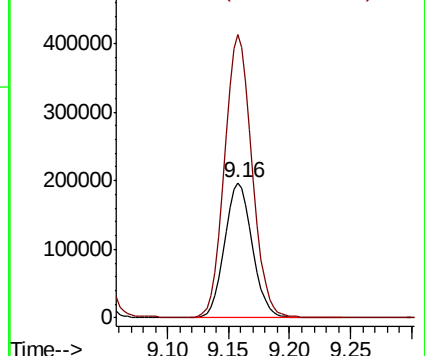
106 100

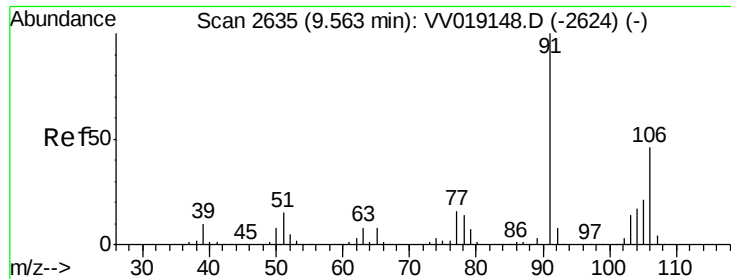
91 209.5 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#54

o-xylene

Concen: 106.896 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

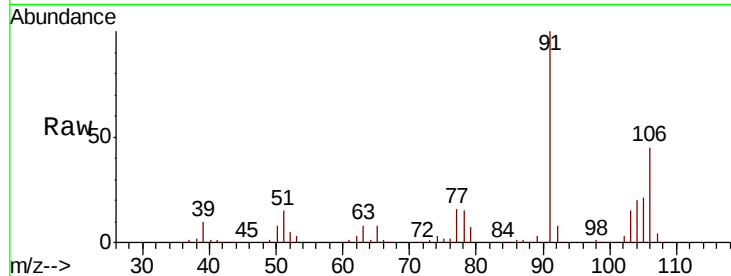
VSTD10065

Tot Ion:106 Resp: 304970

Ion Ratio Lower Upper

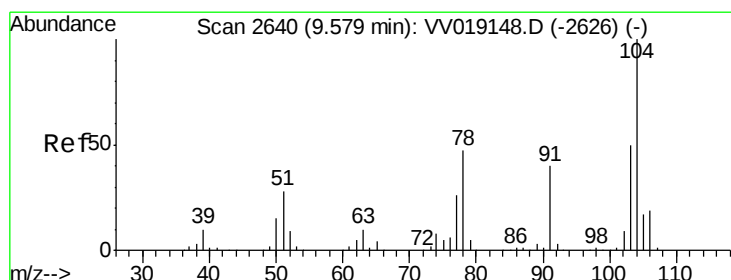
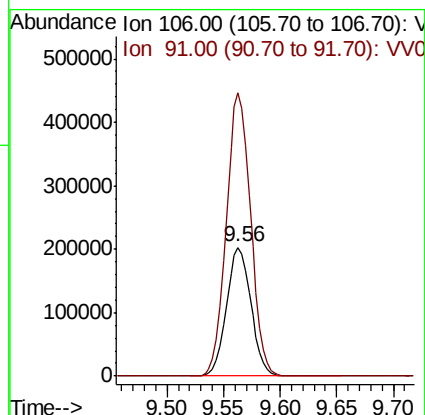
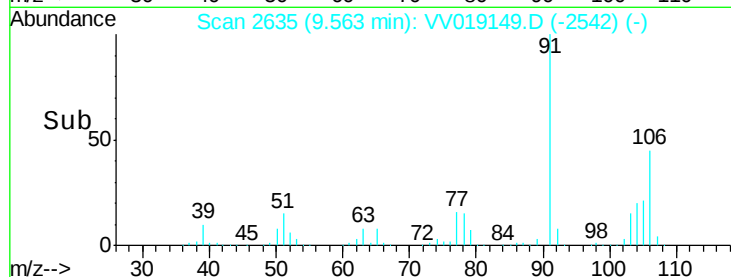
106 100

91 220.2 153.4 285.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 107.372 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019149.D

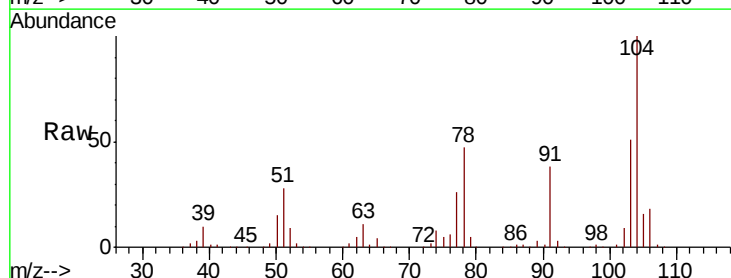
Acq: 29 Oct 2020 15:16

Tgt Ion:104 Resp: 543080

Ion Ratio Lower Upper

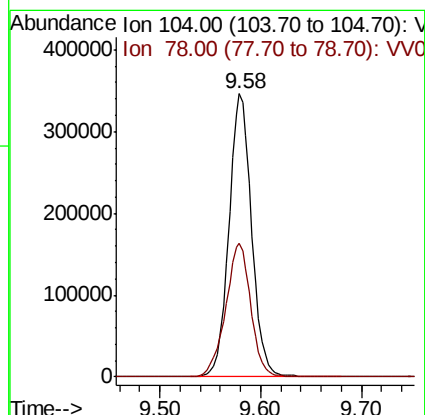
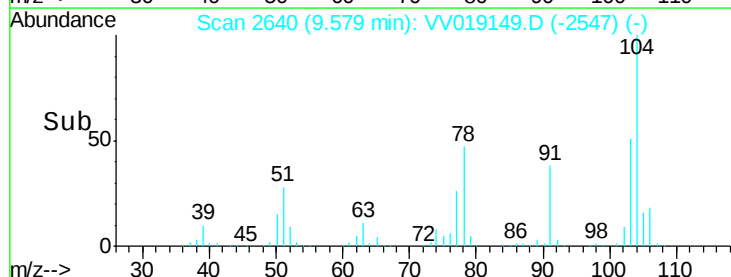
104 100

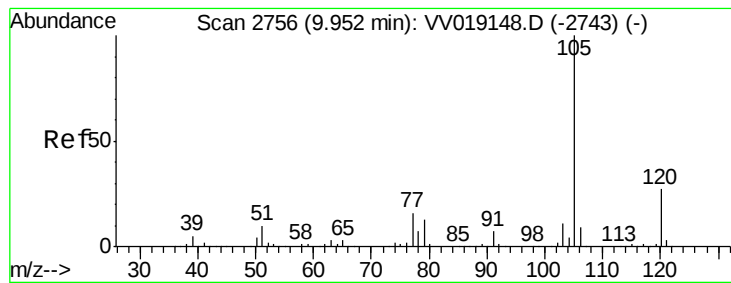
78 47.2 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 109.684 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

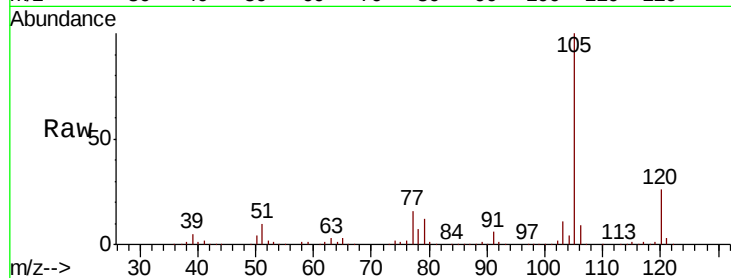
Tot Ion:105 Resp: 826941

Ion Ratio Lower Upper

105 100

120 26.1 21.3 31.9

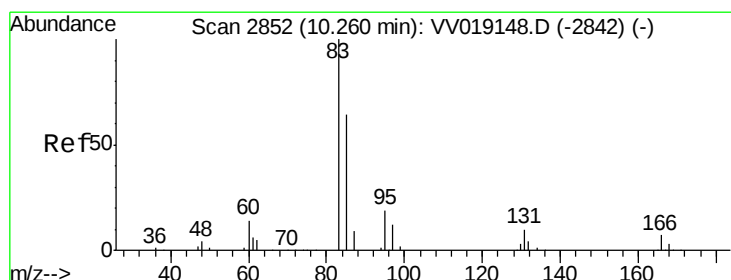
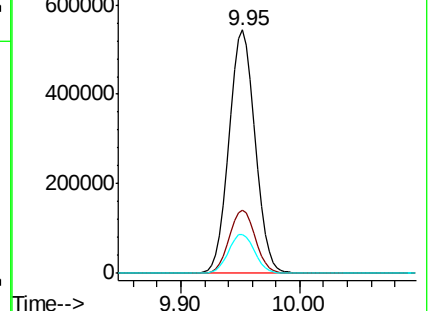
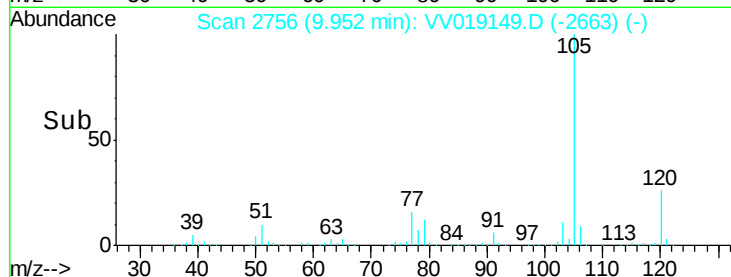
77 16.3 13.0 19.4



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: 88.480 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

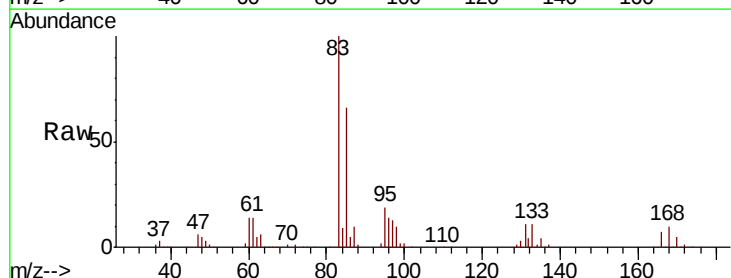
Tgt Ion: 83 Resp: 250761

Ion Ratio Lower Upper

83 100

85 65.6 45.8 85.0

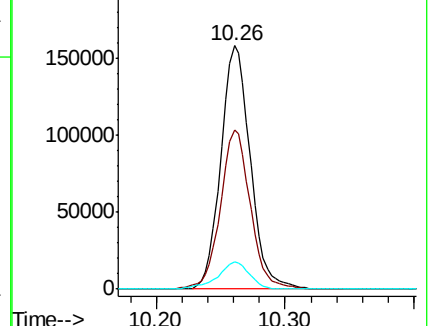
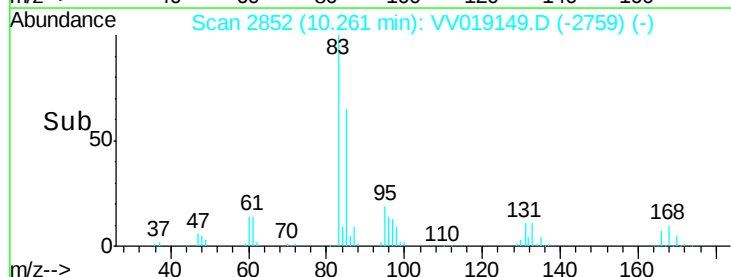
131 11.1 8.9 13.3

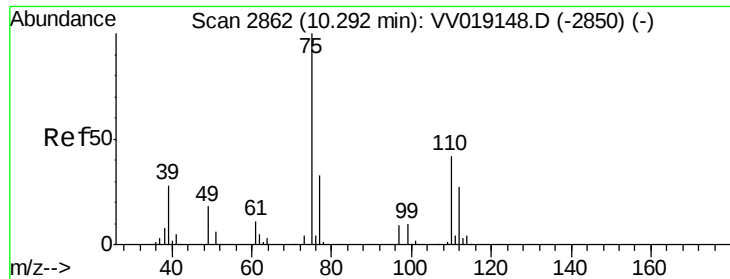


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 92.251 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

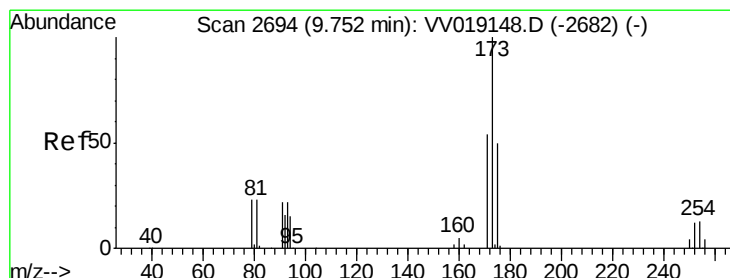
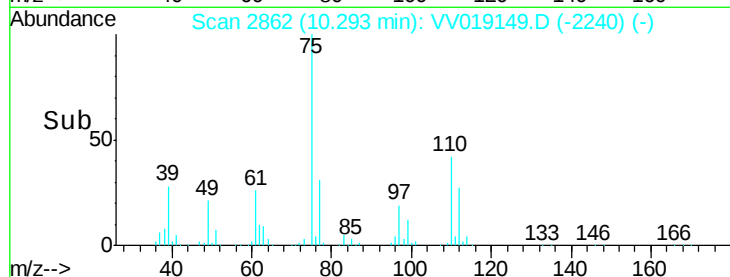
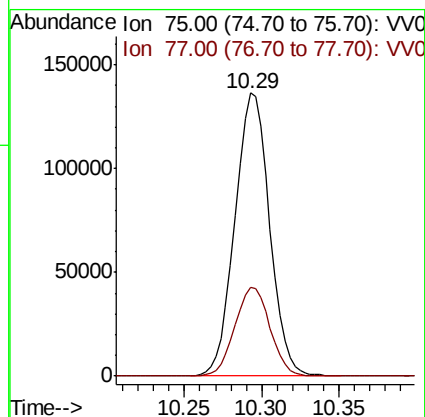
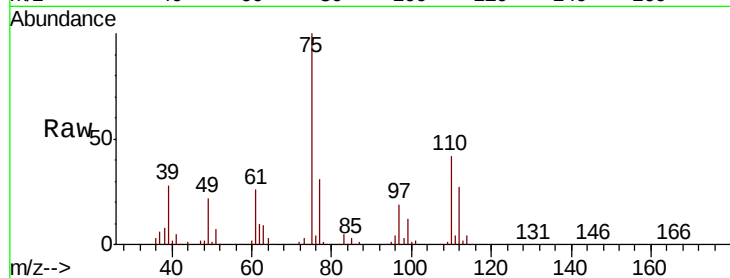
VSTD10065

Tot Ion: 75 Resp: 212106

Ion Ratio Lower Upper

75 100

77 31.9 26.2 39.4



#61

Bromoform

Concen: 107.024 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

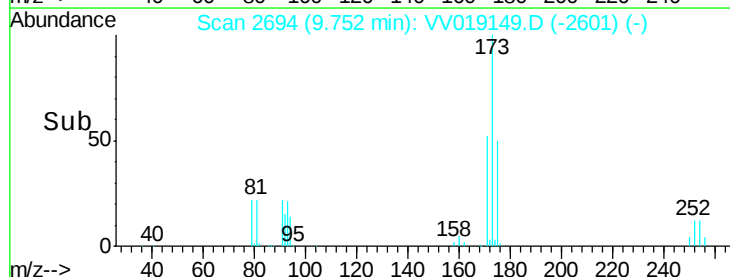
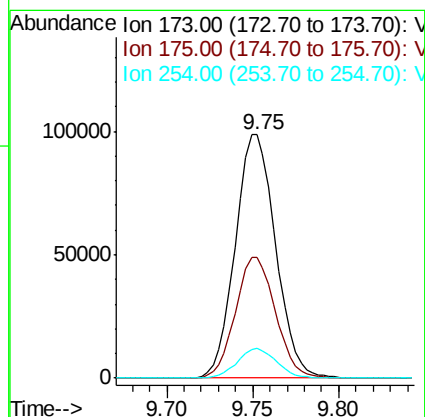
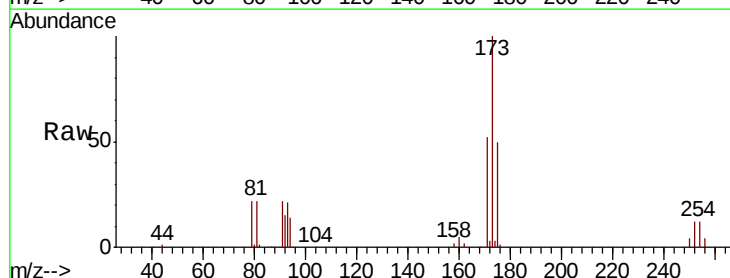
Tgt Ion: 173 Resp: 160780

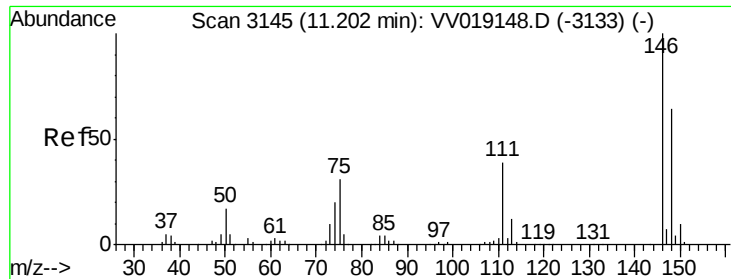
Ion Ratio Lower Upper

173 100

175 49.2 39.8 59.6

254 11.8 9.7 14.5





#62

1,3-Dichlorobenzene

Concen: 102.053 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

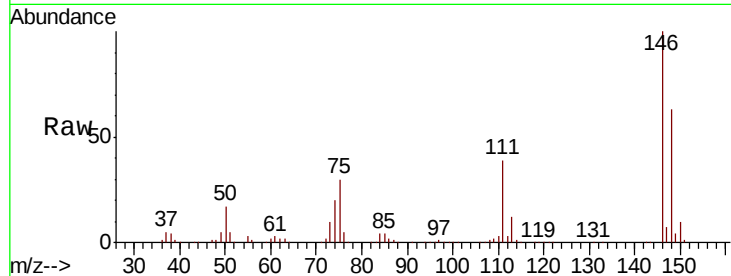
Tot Ion:146 Resp: 406276

Ion Ratio Lower Upper

146 100

111 38.5 27.1 50.3

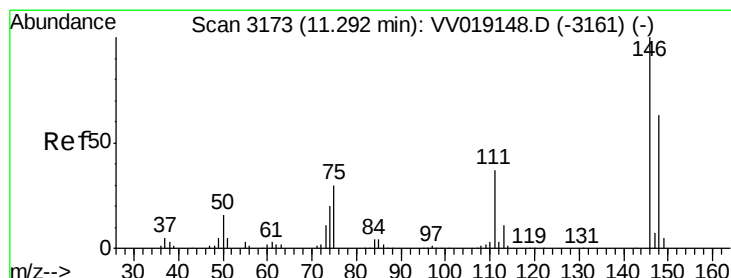
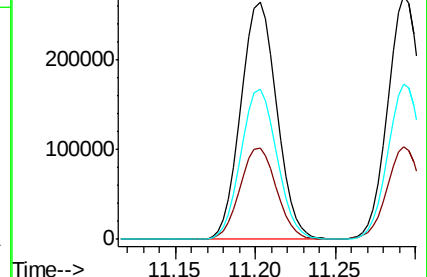
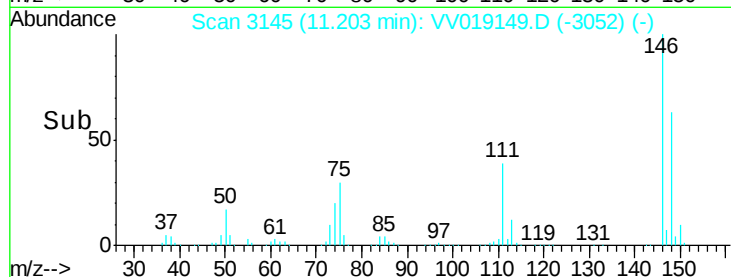
148 63.3 44.7 83.1



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



#63

1,4-Dichlorobenzene

Concen: 98.823 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

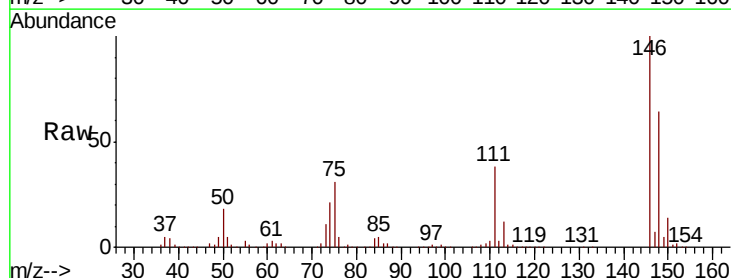
Tgt Ion:146 Resp: 411212

Ion Ratio Lower Upper

146 100

111 38.0 25.8 48.0

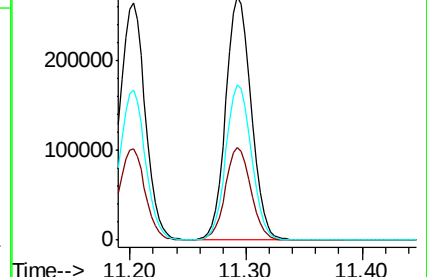
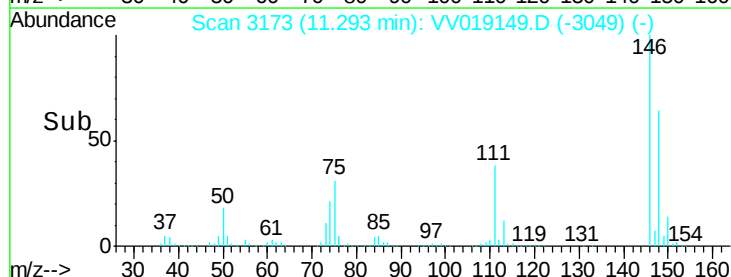
148 63.7 44.0 81.6

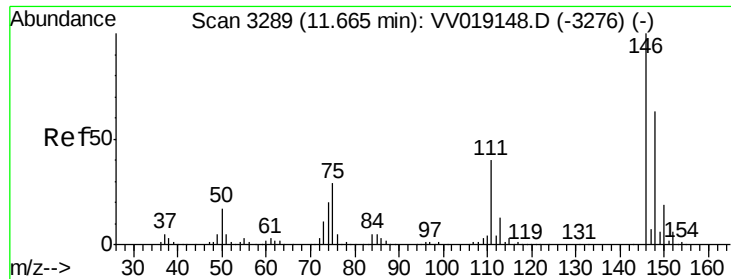


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 99.604 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

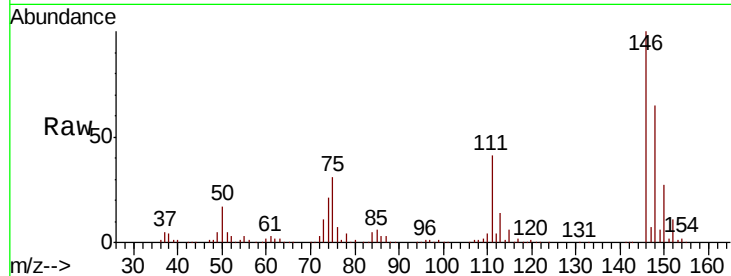
Tot Ion:146 Resp: 399483

Ion Ratio Lower Upper

146 100

111 40.9 32.2 48.4

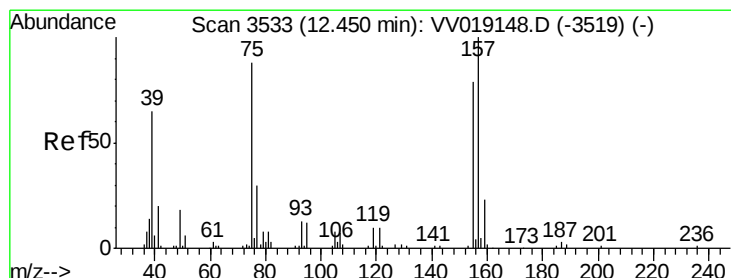
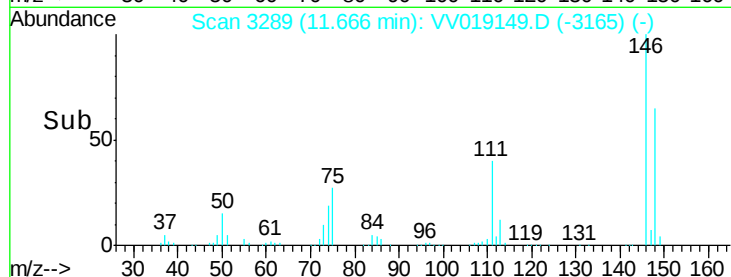
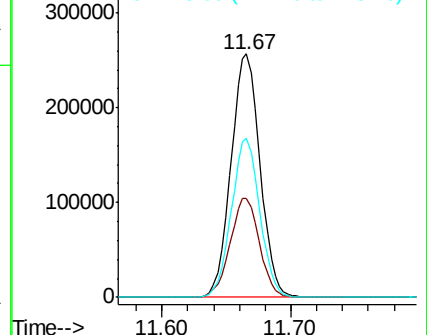
148 65.2 50.8 76.2



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: 98.954 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

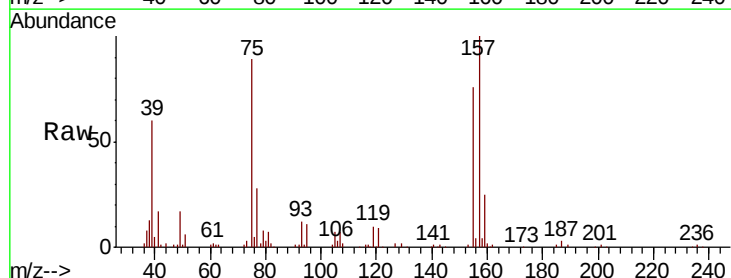
Tgt Ion: 75 Resp: 69080

Ion Ratio Lower Upper

75 100

155 85.6 71.1 106.7

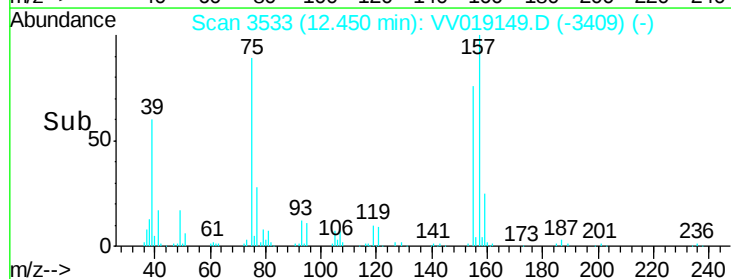
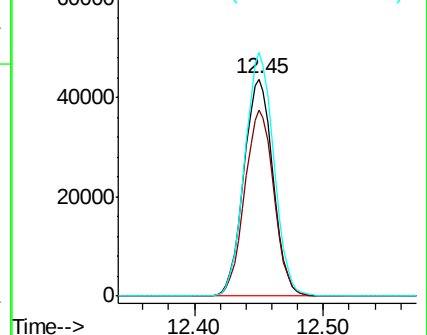
157 112.0 90.5 135.7

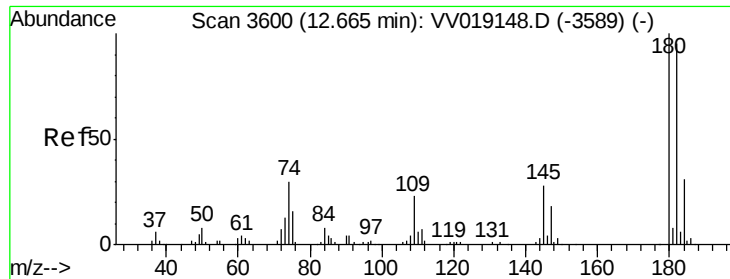


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

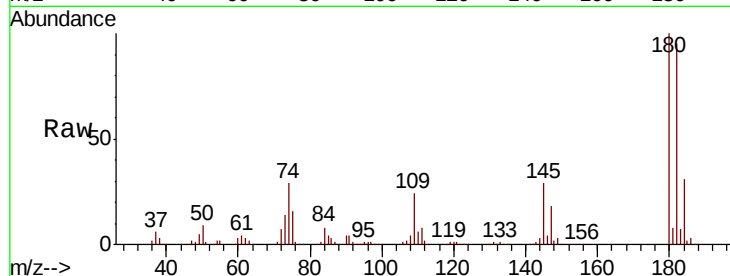




#67
 1,3,5-Trichlorobenzene
 Concen: 108.397 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
184	30.6	24.5	36.7
145	28.8	22.7	34.1



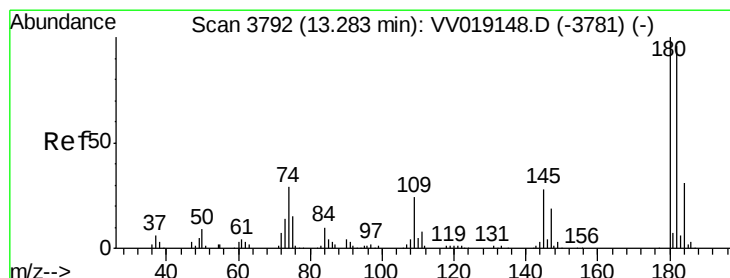
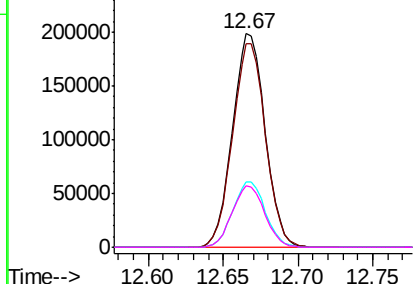
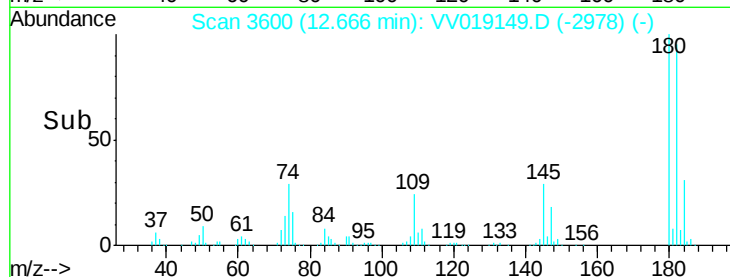
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

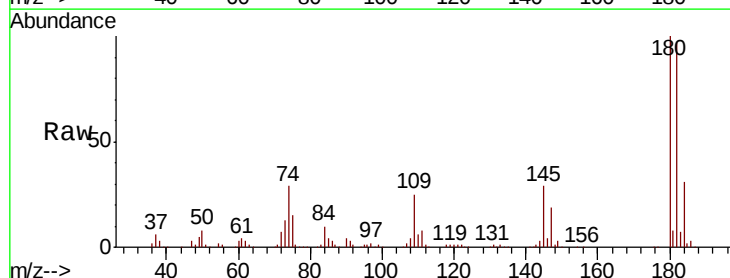
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 111.962 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019149.D
 Acq: 29 Oct 2020 15:16

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
145	28.7	22.6	34.0

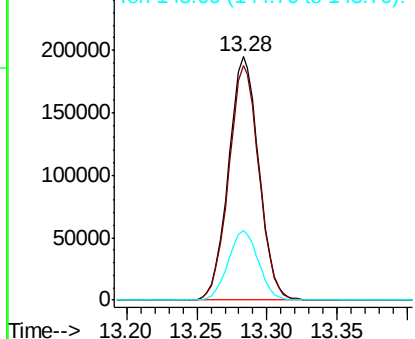
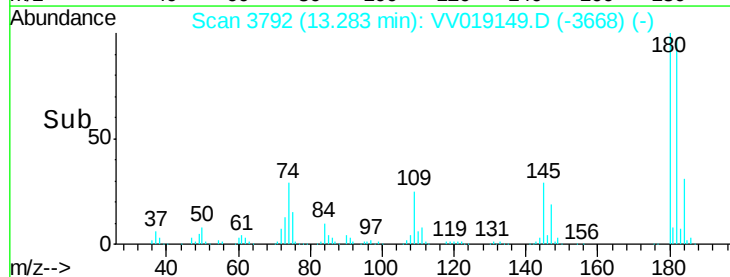


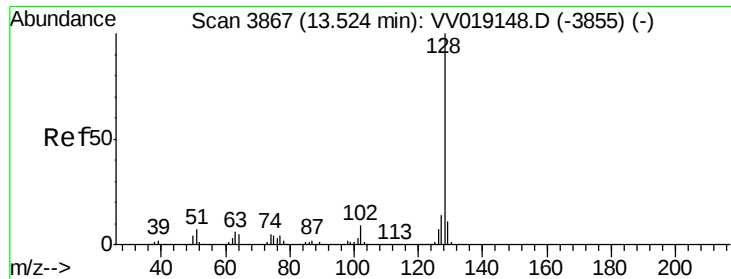
Abundance

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: 112.274 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

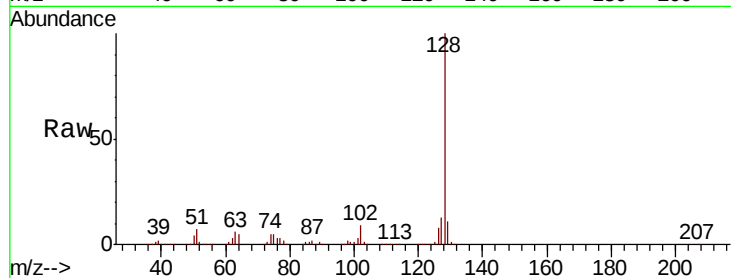
Tot Ion:128 Resp: 882372

Ion Ratio Lower Upper

128 100

127 13.4 10.8 16.2

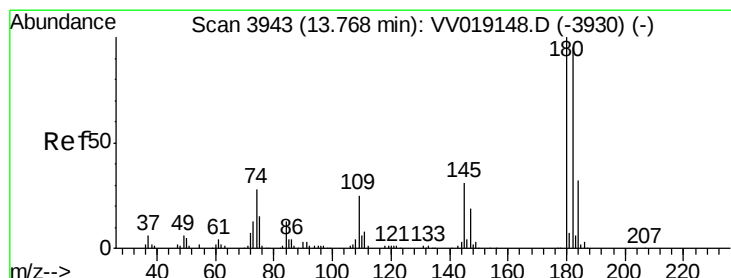
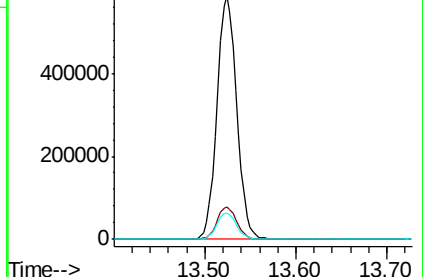
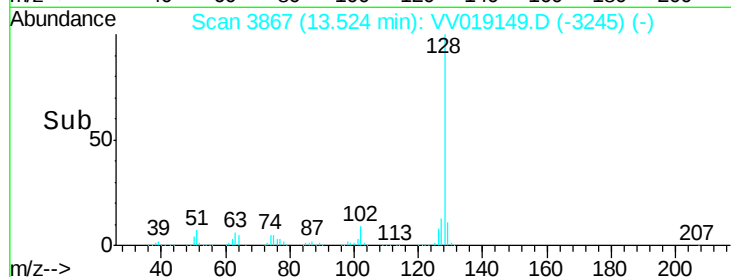
129 10.9 8.6 13.0



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: 109.719 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VV019149.D

Acq: 29 Oct 2020 15:16

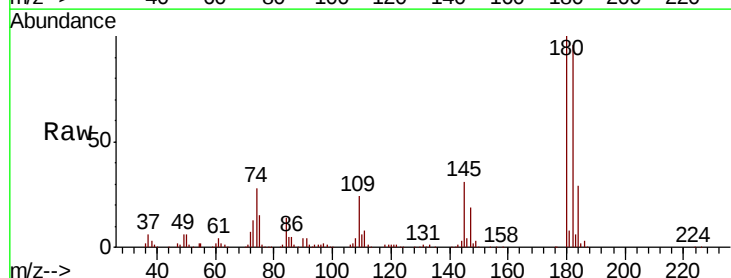
Tgt Ion:180 Resp: 288298

Ion Ratio Lower Upper

180 100

182 95.9 76.2 114.4

145 30.8 25.1 37.7



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

