

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
 Data File : VV019067.D
 Acq On : 22 Oct 2020 13:08
 Operator : SY/MD
 Sample : VSTD10064
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10064

Quant Time: Oct 22 13:29:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:09:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	321683	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	313879	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	167858	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	282088	103.27	ug/L	0.00
7) Chloroethane-d5	1.58	69	227820	105.31	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	533168	103.68	ug/L	0.00
21) 2-Butanone-d5	3.91	46	409555	218.32	ug/L	0.00
24) Chloroform-d	4.37	84	497389	102.15	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.05	65	338222	104.44	ug/L	0.00
32) Benzene-d6	5.07	84	960517	103.00	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	308250	103.35	ug/L	0.00
41) Toluene-d8	7.34	98	880193	105.30	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	164564	111.95	ug/L	0.00
47) 2-Hexanone-d5	8.11	63	298246	260.54	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.23	84	410330	114.91	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	345486	99.65	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	240592	86.389	ug/L 99
3) Chloromethane	1.25	50	301650	95.185	ug/L 99
5) Vinyl chloride	1.32	62	297117	96.632	ug/L 99
6) Bromomethane	1.53	94	174914	94.414	ug/L 99
8) Chloroethane	1.60	64	185885	100.033	ug/L 99
9) Trichlorofluoromethane	1.77	101	390252	95.604	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	206323	96.974	ug/L 99
12) 1,1-Dichloroethene	2.13	96	208914	97.449	ug/L 93
13) Acetone	2.20	43	255124	188.249	ug/L 99
14) Carbon disulfide	2.31	76	687781	94.715	ug/L 100
15) Methyl Acetate	2.45	43	282345	100.897	ug/L 99
16) Methylene chloride	2.52	84	239396	93.661	ug/L 98
17) trans-1,2-Dichloroethene	2.78	96	226067	96.221	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	750296	100.493	ug/L 99
19) 1,1-Dichloroethane	3.21	63	445287	96.677	ug/L 98
20) cis-1,2-Dichloroethene	3.94	96	243528	97.929	ug/L 100
22) 2-Butanone	4.00	43	383613	209.095	ug/L 95
23) Bromochloromethane	4.27	128	122206	94.905	ug/L 98
25) Chloroform	4.40	83	439416	95.426	ug/L 99
27) 1,2-Dichloroethane	5.15	62	376950	99.659	ug/L 99
29) Cyclohexane	4.70	56	393630	103.396	ug/L 99
30) 1,1,1-Trichloroethane	4.63	97	388374	98.598	ug/L 99
31) Carbon tetrachloride	4.86	117	335606	99.816	ug/L 99
33) Benzene	5.13	78	960258	99.019	ug/L 100
34) Trichloroethene	5.94	95	239997	87.617	ug/L 99
35) Methylcyclohexane	6.15	83	343980	100.227	ug/L 99
37) 1,2-Dichloropropane	6.20	63	261204	100.805	ug/L 99
38) Bromodichloromethane	6.53	83	332691	99.952	ug/L 100
39) cis-1,3-Dichloropropene	7.05	75	407038	103.944	ug/L 100
40) 4-Methyl-2-pentanone	7.24	43	767025	214.504	ug/L 99

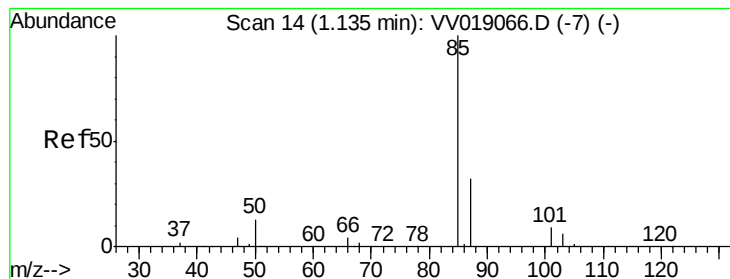
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102220\
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Quant Time: Oct 22 13:29:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 22 13:09:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	1012023	101.545	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	411336	108.637	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	230230	95.974	ug/L	99
46) Tetrachloroethene	8.00	164	182200	92.785	ug/L	98
48) 2-Hexanone	8.16	43	594619	210.465	ug/L	99
49) Dibromochloromethane	8.27	129	261783	102.382	ug/L	98
50) 1,2-Dibromoethane	8.37	107	245924	98.476	ug/L	97
51) Chlorobenzene	8.90	112	629792	96.956	ug/L	99
52) Ethylbenzene	9.03	91	1112139	103.010	ug/L	100
53) m,p-Xylene	9.16	106	410174	101.859	ug/L	97
54) o-xylene	9.56	106	399624	103.887	ug/L	97
55) Styrene	9.58	104	722966	106.670	ug/L	99
56) Isopropylbenzene	9.95	105	1051038	103.935	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	380574	112.770	ug/L	100
59) 1,2,3-Trichloropropane	10.29	75	310173	99.036	ug/L	100
61) Bromoform	9.75	173	192561	103.807	ug/L	99
62) 1,3-Dichlorobenzene	11.20	146	504444	96.505	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	521269	95.088	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	504495	96.023	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.45	75	91614	112.865	ug/L	96
67) 1,3,5-Trichlorobenzene	12.67	180	346932	99.058	ug/L	100
68) 1,2,4-trichlorobenzene	13.28	180	340450	105.137	ug/L	99
69) Naphthalene	13.52	128	1128818	120.411	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	338569	104.599	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 86.389 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

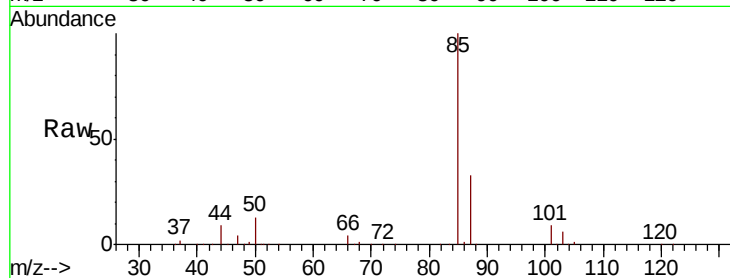
VSTD10064

Tot Ion: 85 Resp: 240592

Ion Ratio Lower Upper

85 100

87 32.7 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

250000

200000

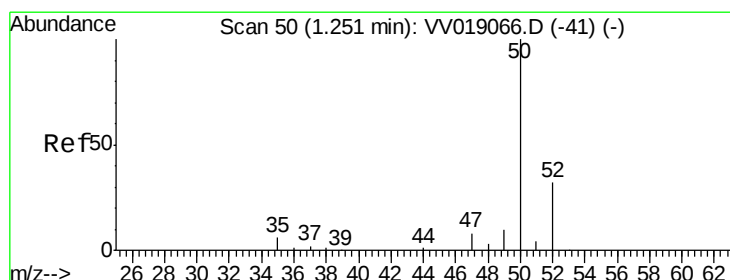
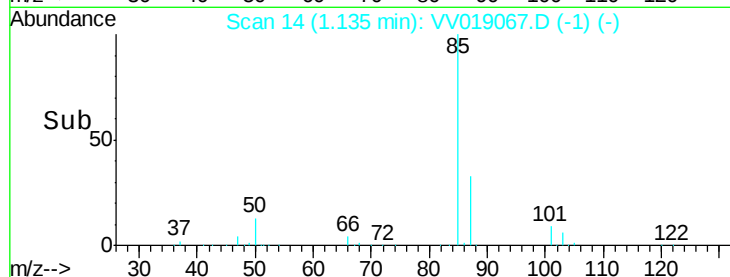
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 95.185 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019067.D

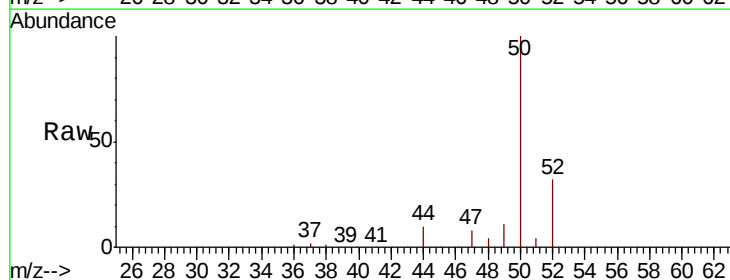
Acq: 22 Oct 2020 13:08

Tgt Ion: 50 Resp: 301650

Ion Ratio Lower Upper

50 100

52 32.1 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

1.25

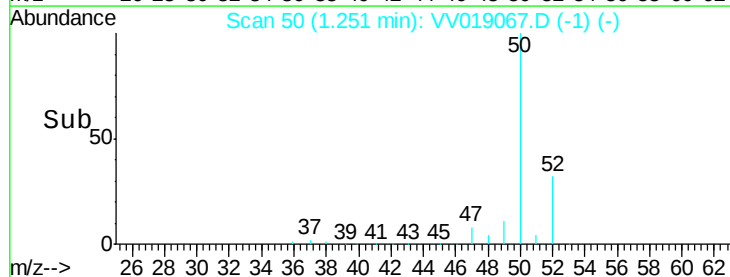
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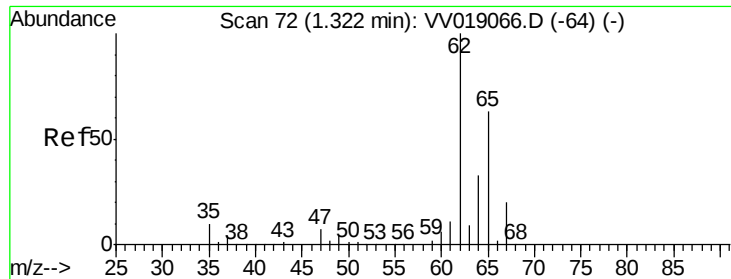
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100000

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Time-->





#5

Vinyl chloride

Concen: 96.632 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

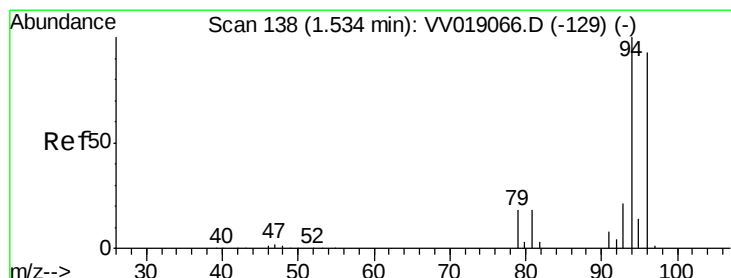
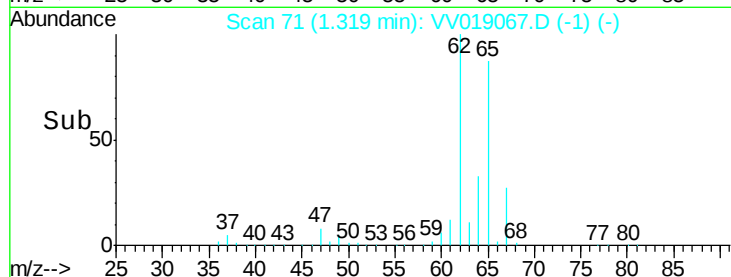
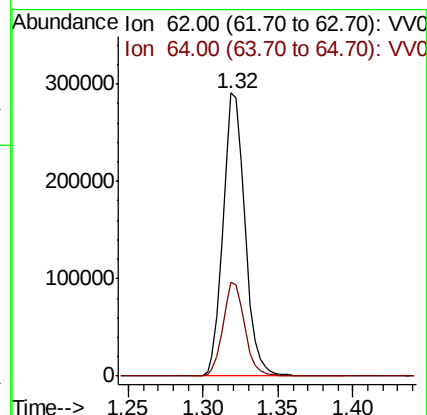
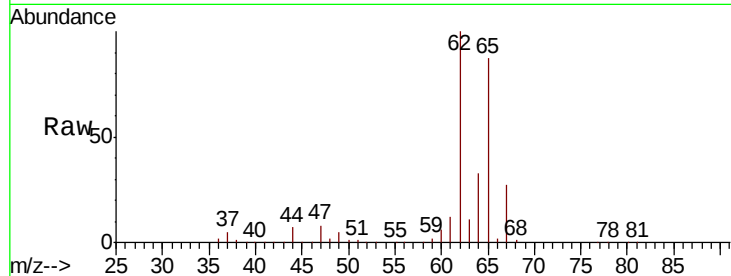
VSTD10064

Tot Ion: 62 Resp: 297117

Ion Ratio Lower Upper

62 100

64 33.1 22.9 42.5



#6

Bromomethane

Concen: 94.414 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019067.D

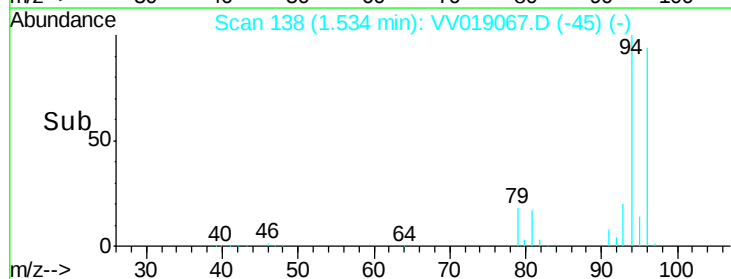
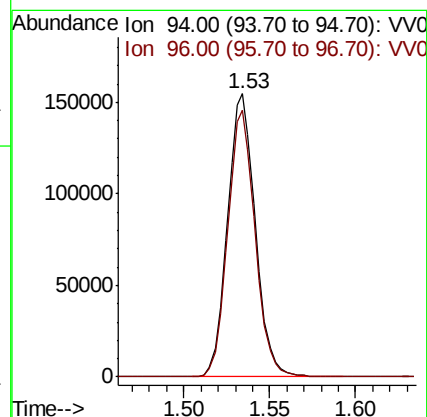
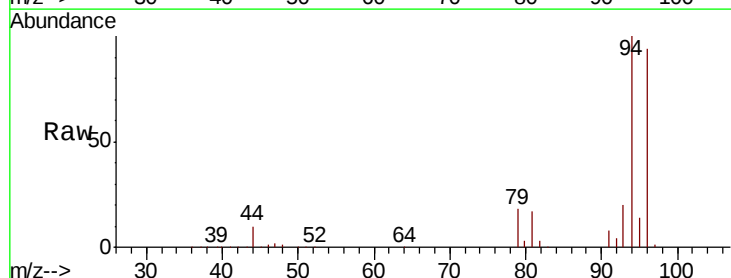
Acq: 22 Oct 2020 13:08

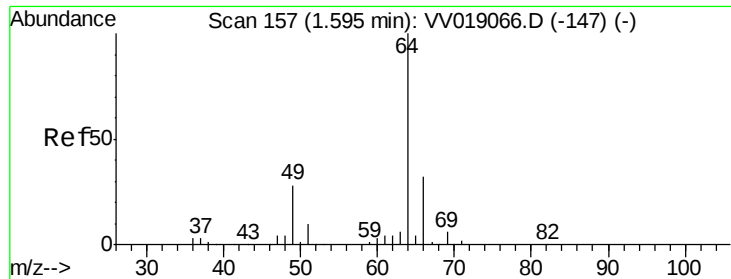
Tgt Ion: 94 Resp: 174914

Ion Ratio Lower Upper

94 100

96 94.0 65.3 121.3





#8

Chloroethane

Concen: 100.033 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

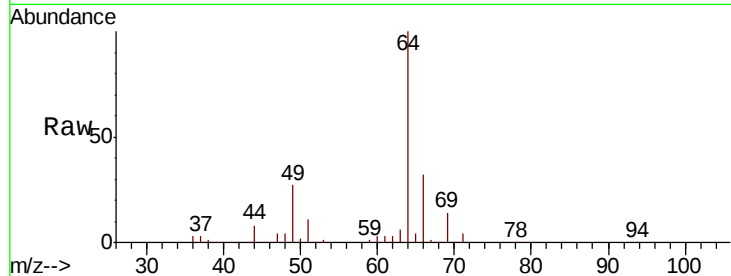
VSTD10064

Tot Ion: 64 Resp: 185885

Ion Ratio Lower Upper

64 100

66 31.7 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019066.D (-147) (-)

Ion 66.00 (65.70 to 66.70): VV019066.D (-147) (-)

1.60

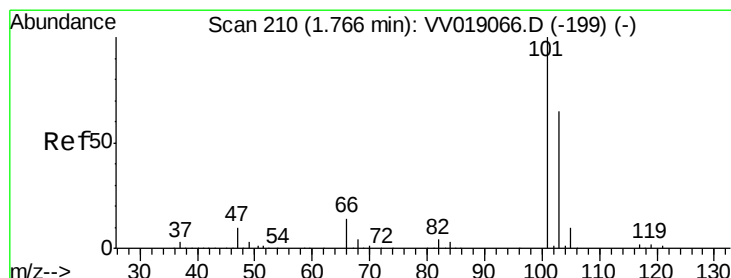
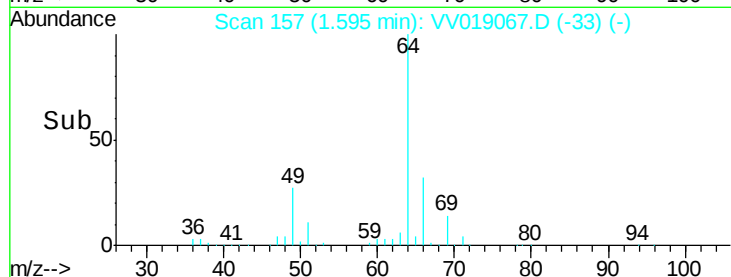
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 95.604 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019067.D

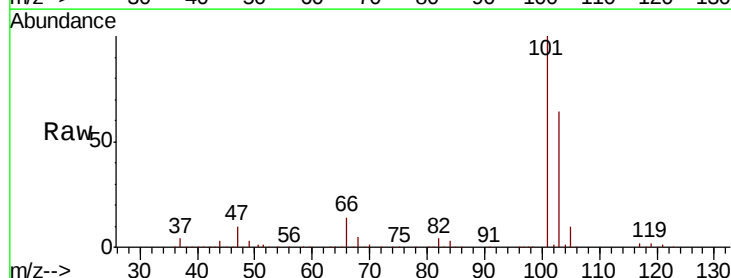
Acq: 22 Oct 2020 13:08

Tgt Ion: 101 Resp: 390252

Ion Ratio Lower Upper

101 100

103 64.4 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): VV019066.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV019066.D (-199) (-)

1.77

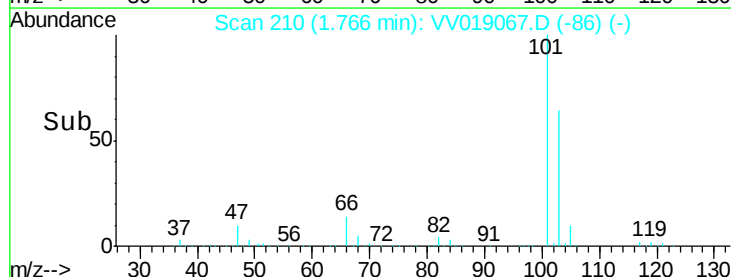
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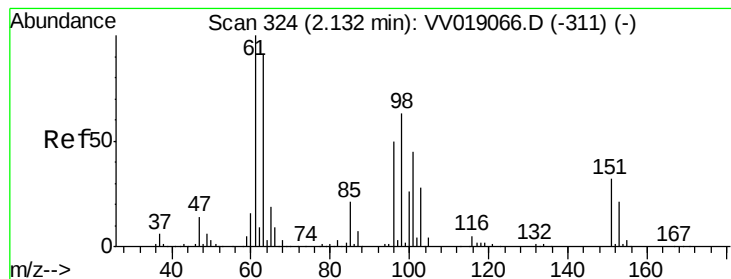
200000

100000

0

Time-->





#10

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

Concen: 96.974 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

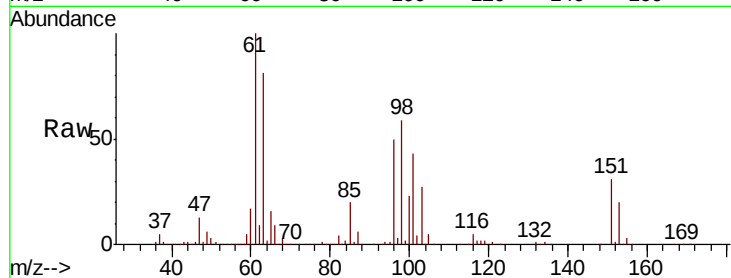
Tot Ion:101 Resp: 206323

Ion Ratio Lower Upper

101 100

85 45.2 36.9 55.3

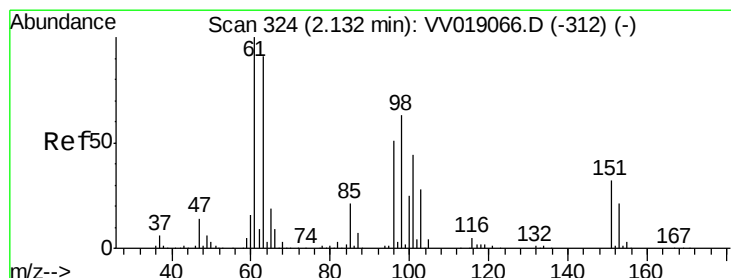
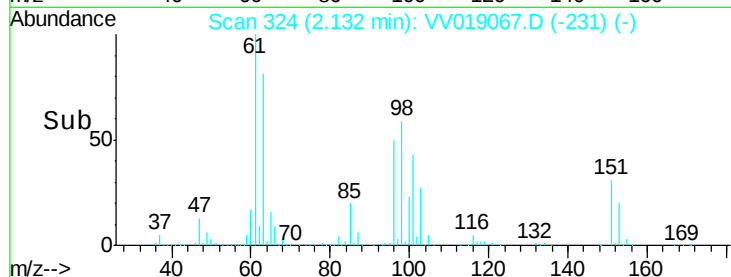
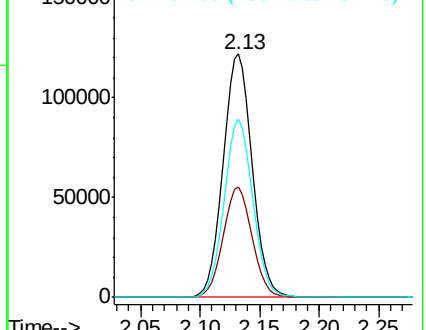
151 72.4 58.2 87.2



Abundance Ion 101.00 (100.70 to 101.70): VV019066.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV019066.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV019066.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 97.449 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

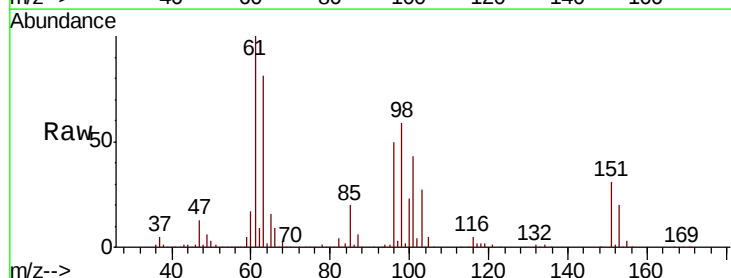
Tgt Ion: 96 Resp: 208914

Ion Ratio Lower Upper

96 100

61 198.6 138.7 257.7

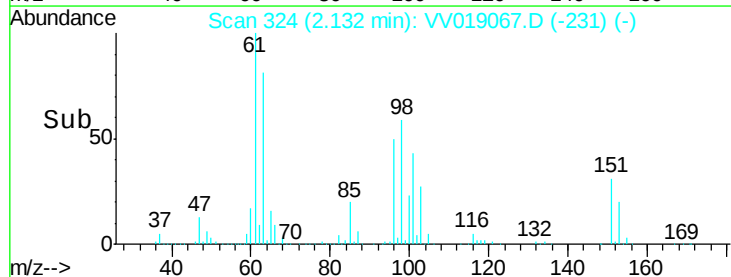
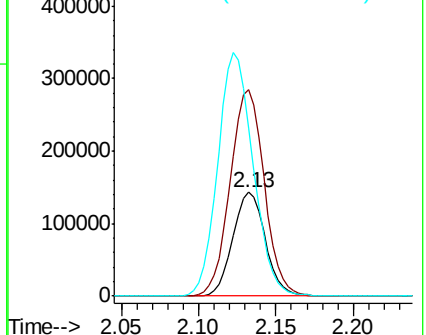
63 161.4 126.3 234.6

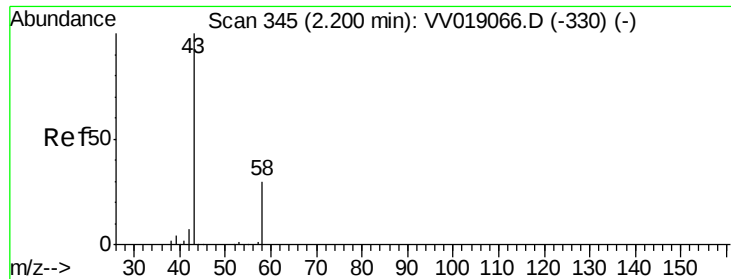


Abundance Ion 96.00 (95.70 to 96.70): VV019066.D (-312) (-)

Ion 61.00 (60.70 to 61.70): VV019066.D (-312) (-)

Ion 63.00 (62.70 to 63.70): VV019066.D (-312) (-)





#13

Acetone

Concen: 188.249 ug/L

RT: 2.20 min Scan# 345

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

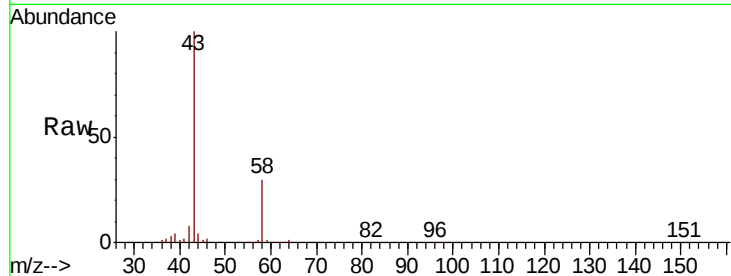
VSTD10064

Tot Ion: 43 Resp: 255124

Ion Ratio Lower Upper

43 100

58 29.3 0.0 60.2



Abundance Ion 43.00 (42.70 to 43.70): VV019066.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV019066.D (-330) (-)

2.20

100000

80000

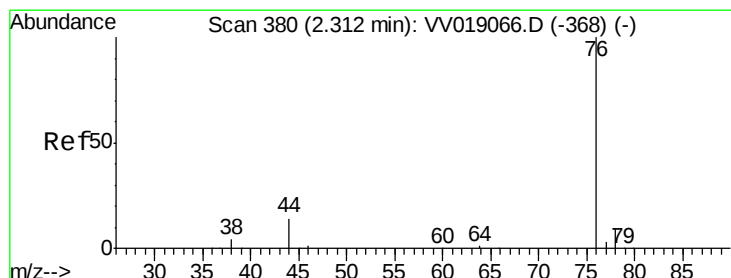
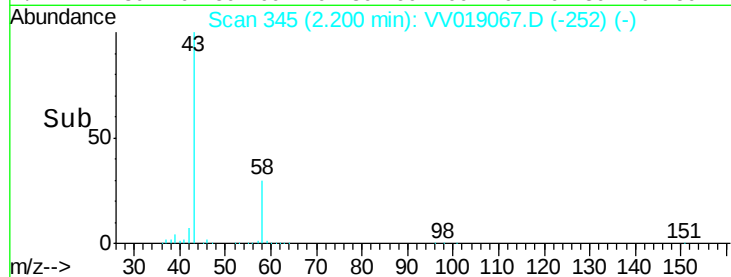
60000

40000

20000

0

Time-->



#14

Carbon disulfide

Concen: 94.715 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019067.D

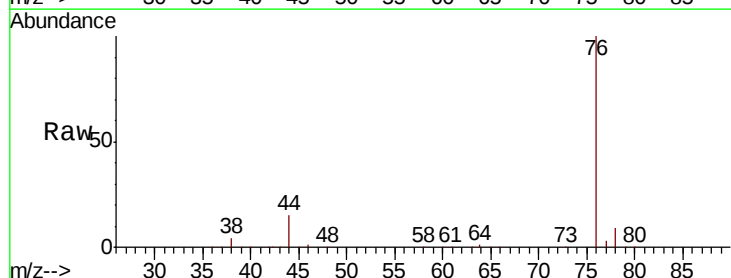
Acq: 22 Oct 2020 13:08

Tgt Ion: 76 Resp: 687781

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019066.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019066.D (-368) (-)

2.31

500000

400000

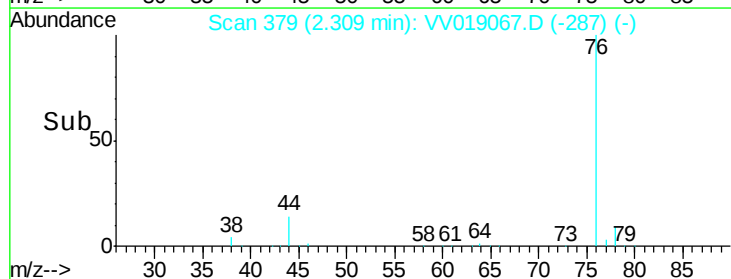
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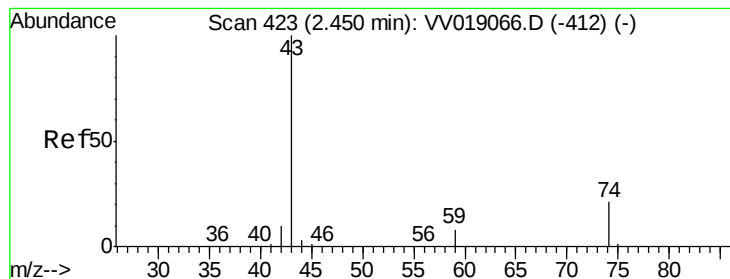
200000

100000

0

Time-->





#15

Methvl Acetate

Concen: 100.897 ug/L

RT: 2.45 min Scan# 423

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

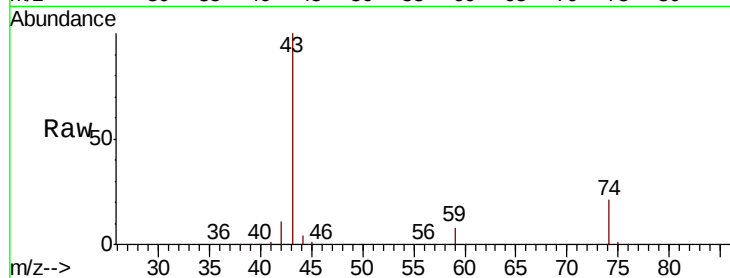
VSTD10064

Tot Ion: 43 Resp: 282345

Ion Ratio Lower Upper

43 100

74 20.8 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.45

150000

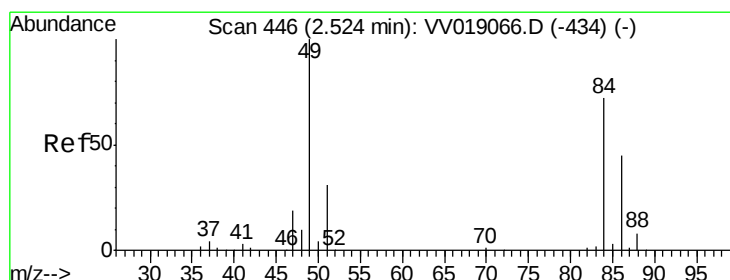
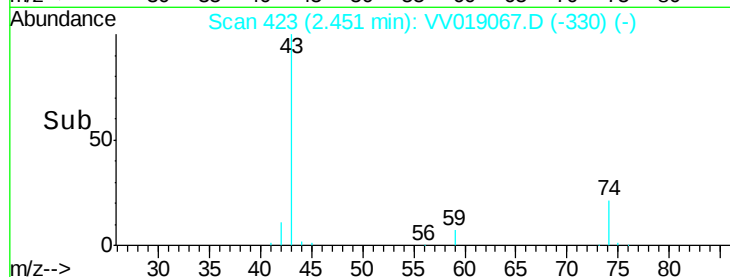
100000

50000

0

Time-->

2.40 2.50 2.60



#16

Methylene chloride

Concen: 93.661 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

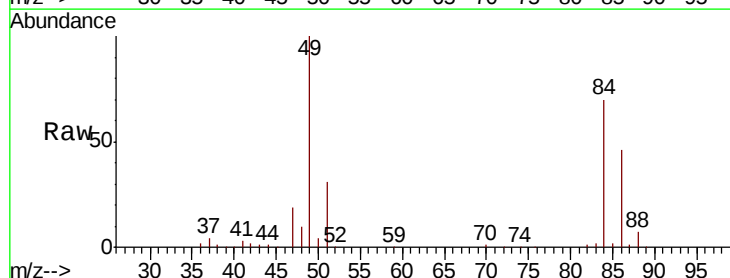
Tgt Ion: 84 Resp: 239396

Ion Ratio Lower Upper

84 100

86 64.7 44.2 82.2

49 141.9 98.0 182.0



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

2.52

250000

200000

150000

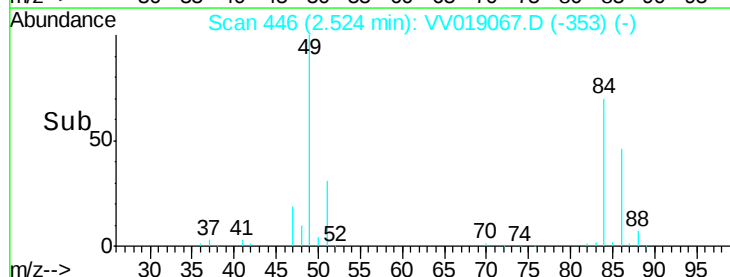
100000

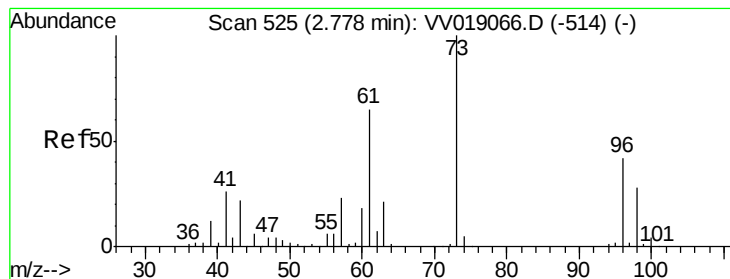
50000

0

Time-->

2.45 2.50 2.55 2.60





#17

trans-1,2-Dichloroethene

Concen: 96.221 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

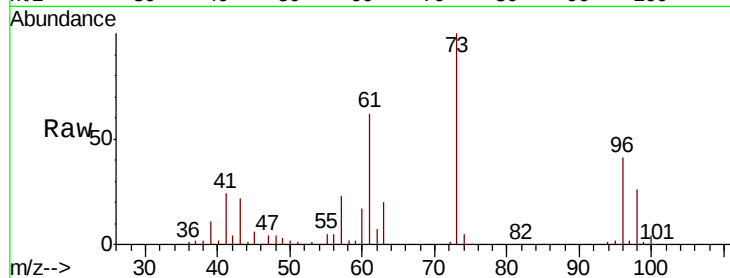
Tot Ion: 96 Resp: 226067

Ion Ratio Lower Upper

96 100

61 152.7 108.6 201.8

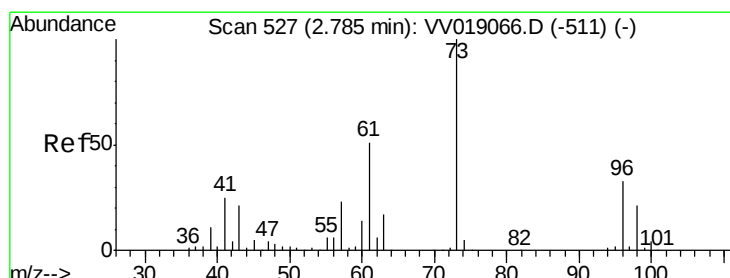
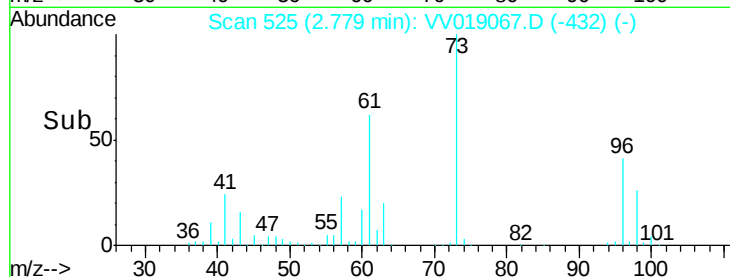
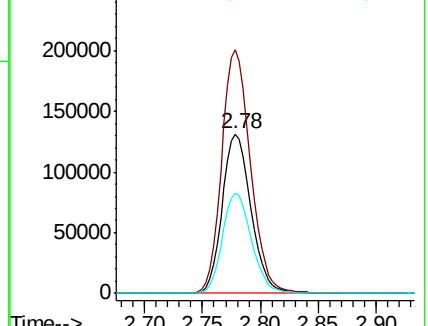
98 63.3 45.7 84.9



Abundance Ion 96.00 (95.70 to 96.70): VV019066.D (-514) (-)

Ion 61.00 (60.70 to 61.70): VV019066.D (-514) (-)

Ion 98.00 (97.70 to 98.70): VV019066.D (-514) (-)



#18

Methyl tert-butyl Ether

Concen: 100.493 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

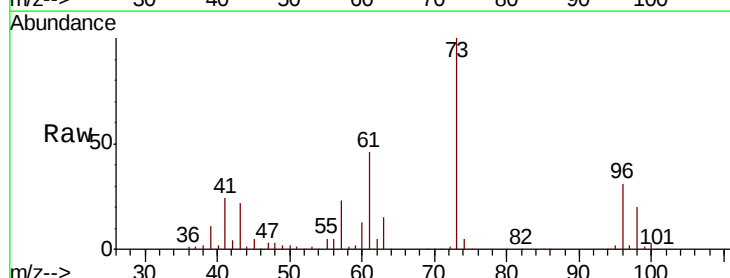
Tgt Ion: 73 Resp: 750296

Ion Ratio Lower Upper

73 100

43 21.8 17.2 25.8

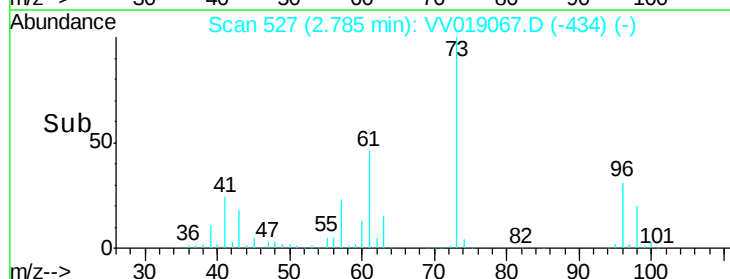
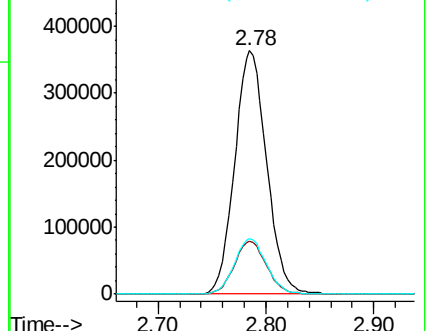
57 22.8 18.5 27.7

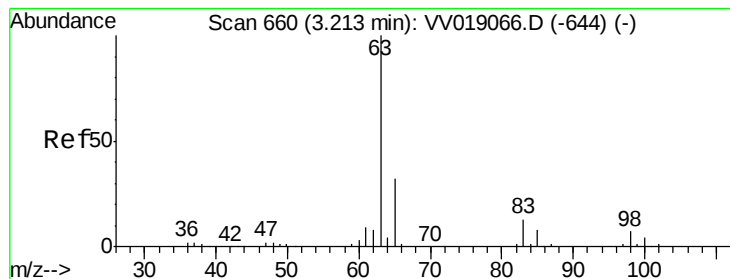


Abundance Ion 73.00 (72.70 to 73.70): VV019066.D (-511) (-)

Ion 43.00 (42.70 to 43.70): VV019066.D (-511) (-)

Ion 57.00 (56.70 to 57.70): VV019066.D (-511) (-)





#19

1,1-Dichloroethane

Concen: 96.677 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampled :

VSTD10064

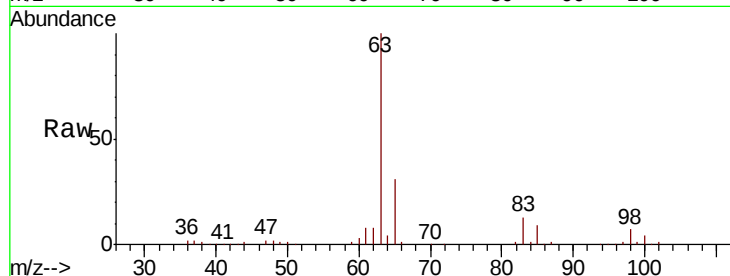
Tot Ion: 63 Resp: 445287

Ion Ratio Lower Upper

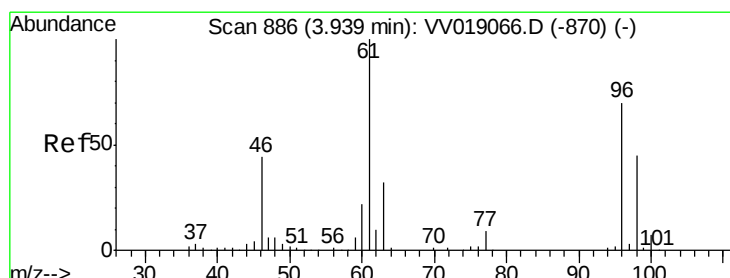
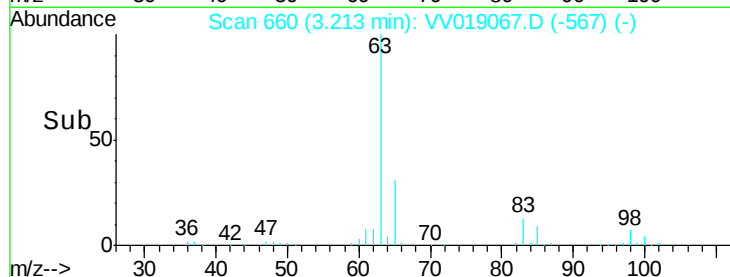
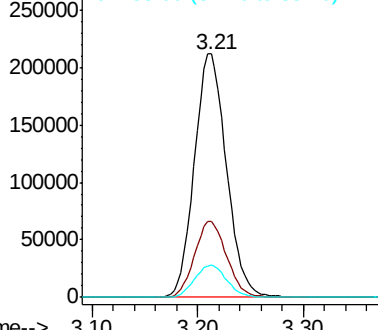
63 100

65 31.3 22.7 42.1

83 13.2 9.0 16.8



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: 97.929 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

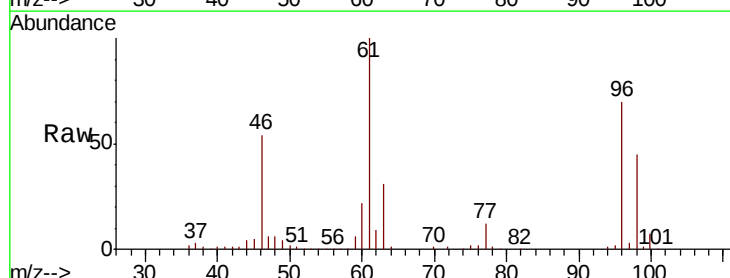
Tgt Ion: 96 Resp: 243528

Ion Ratio Lower Upper

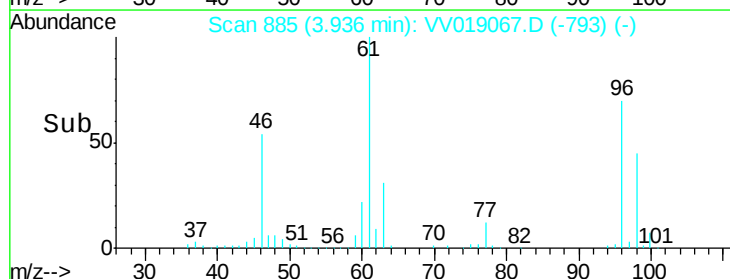
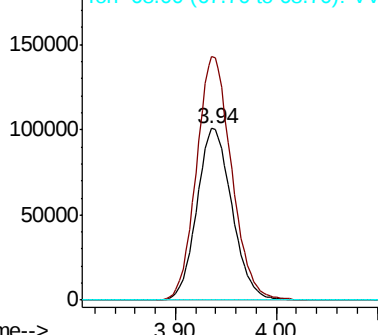
96 100

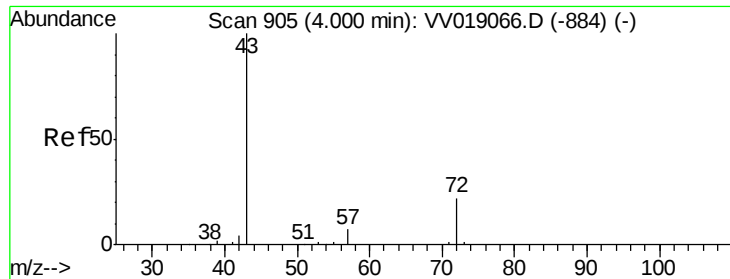
61 142.1 99.4 184.6

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: 209.095 ug/L

RT: 4.00 min Scan# 904

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

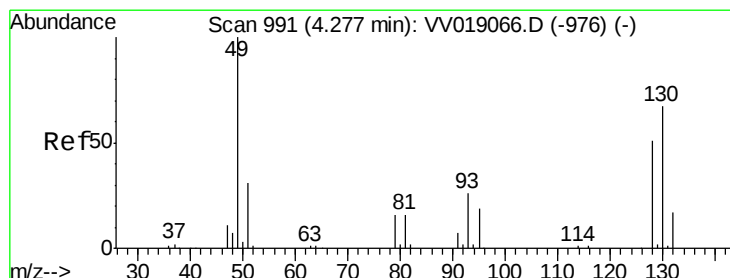
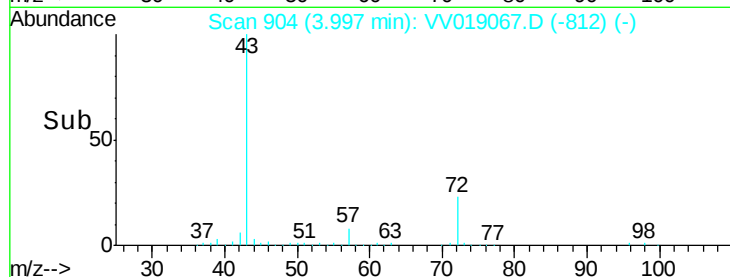
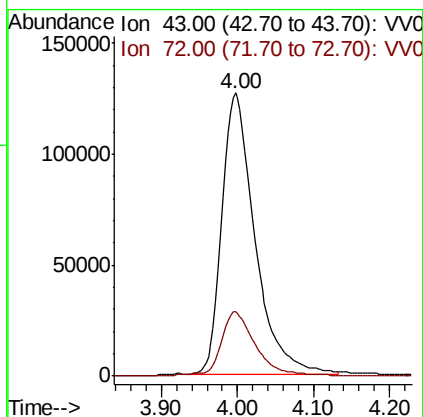
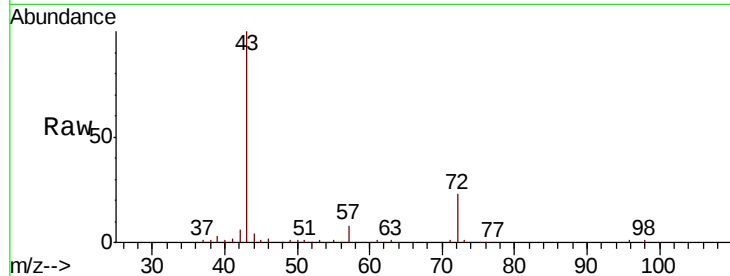
VSTD10064

Tot Ion: 43 Resp: 383613

Ion Ratio Lower Upper

43 100

72 24.2 10.8 32.4



#23

Bromochloromethane

Concen: 94.905 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Tgt Ion: 128 Resp: 122206

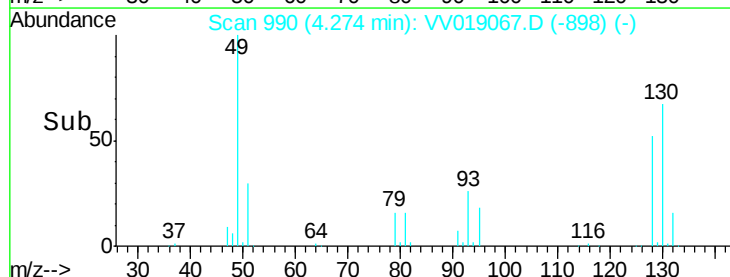
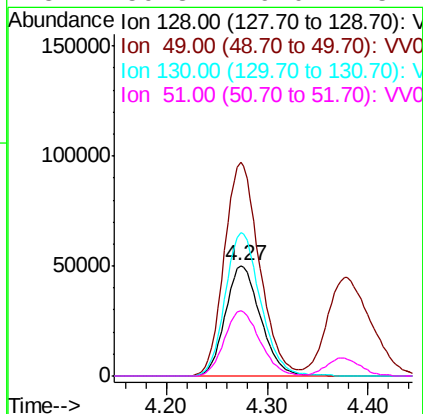
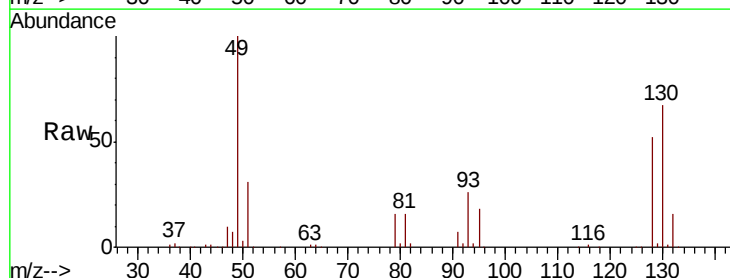
Ion Ratio Lower Upper

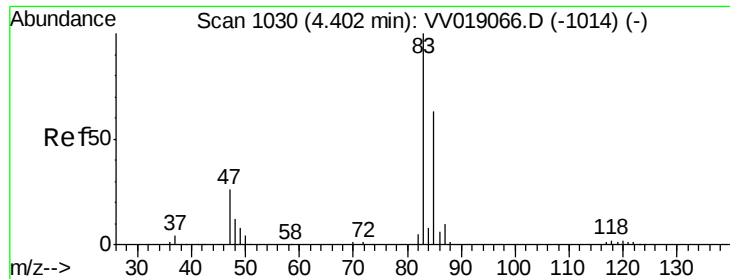
128 100

49 193.8 137.1 254.5

130 129.7 92.0 170.9

51 59.3 49.0 73.4

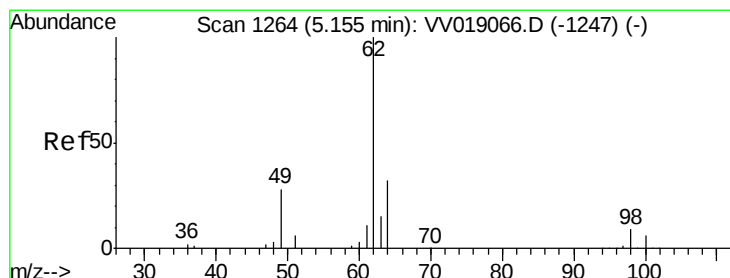
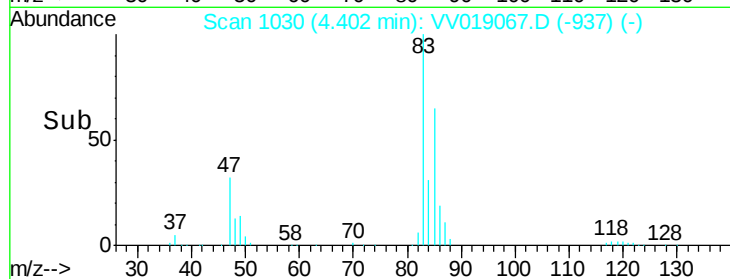
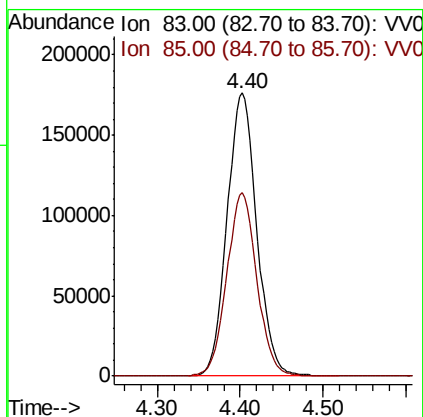
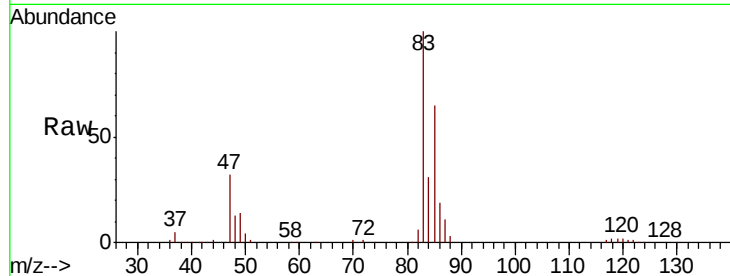




#25
Chloroform
Concen: 95.426 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

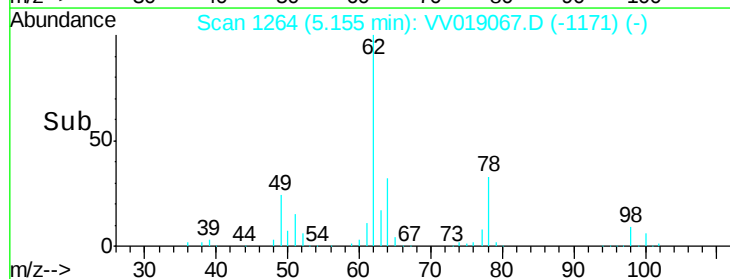
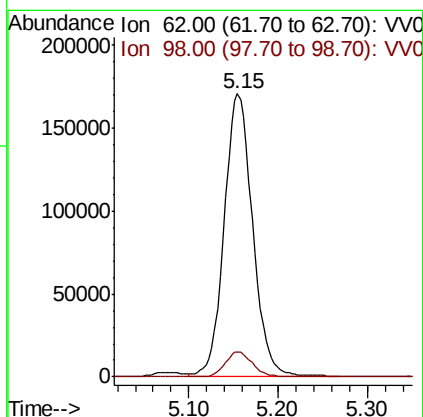
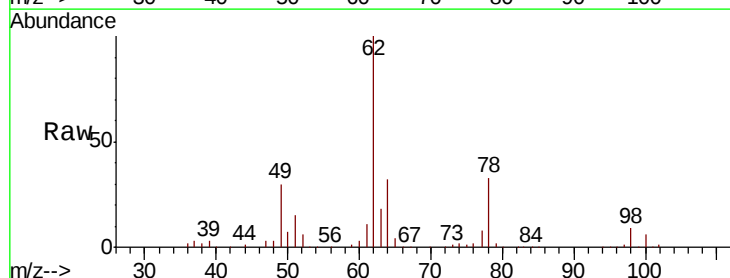
Instrument :
MSVOA_V
ClientSampleId :
VSTD10064

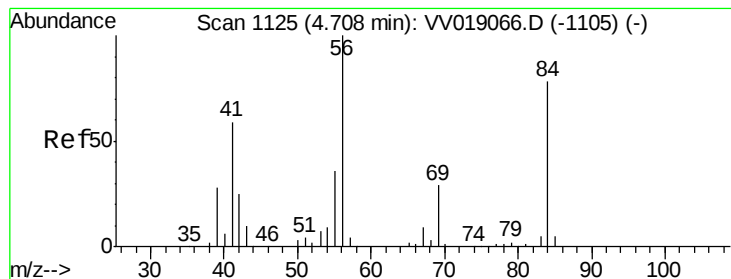
Tot Ion: 83 Resp: 439416
Ion Ratio Lower Upper
83 100
85 64.8 44.5 82.7



#27
1,2-Dichloroethane
Concen: 99.659 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

Tgt Ion: 62 Resp: 376950
Ion Ratio Lower Upper
62 100
98 8.9 6.9 10.3





#29

Cyclohexane

Concen: 103.396 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

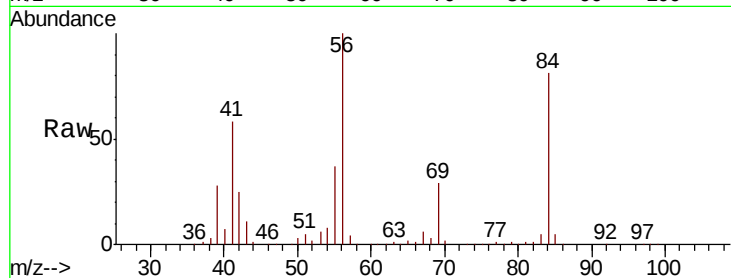
Tot Ion: 56 Resp: 393630

Ion Ratio Lower Upper

56 100

69 28.9 22.7 34.1

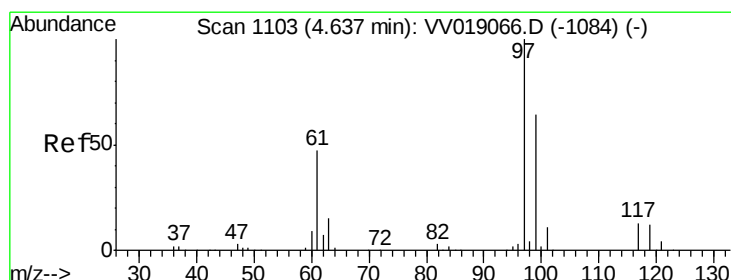
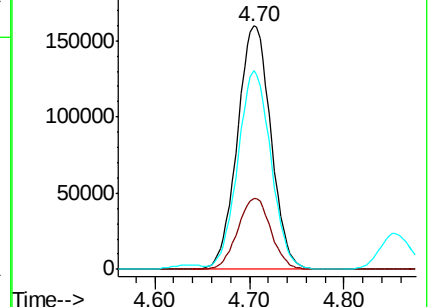
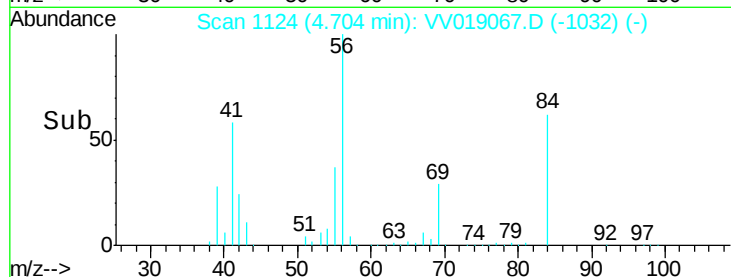
84 80.4 63.5 95.3



Abundance Ion 56.00 (55.70 to 56.70): VV019066.D (-1105) (-)

Ion 69.00 (68.70 to 69.70): VV019066.D (-1105) (-)

Ion 84.00 (83.70 to 84.70): VV019066.D (-1105) (-)



#30

1,1,1-Trichloroethane

Concen: 98.598 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

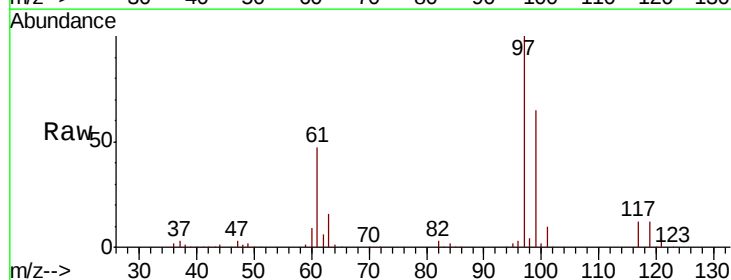
Tgt Ion: 97 Resp: 388374

Ion Ratio Lower Upper

97 100

99 64.1 50.5 75.7

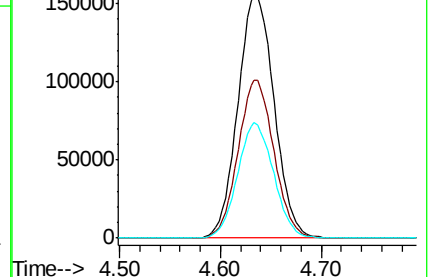
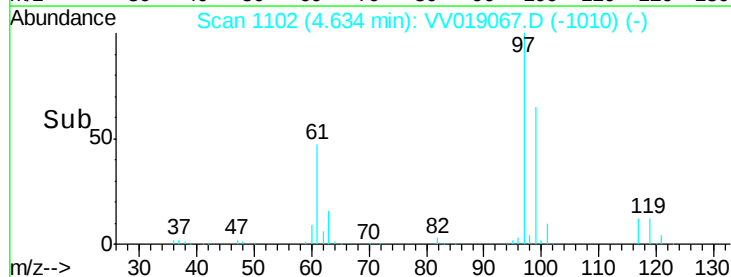
61 47.2 38.1 57.1

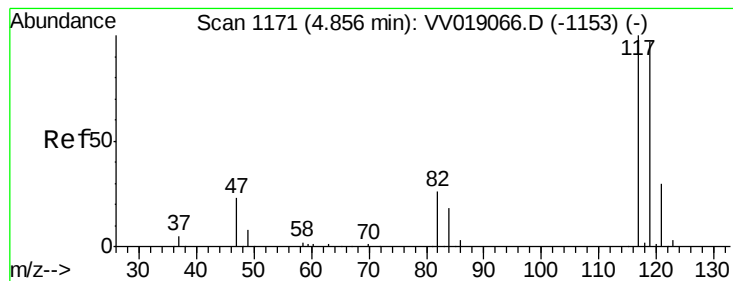


Abundance Ion 97.00 (96.70 to 97.70): VV019066.D (-1084) (-)

Ion 99.00 (98.70 to 99.70): VV019066.D (-1084) (-)

Ion 61.05 (60.75 to 61.75): VV019066.D (-1084) (-)





#31

Carbon tetrachloride

Concen: 99.816 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

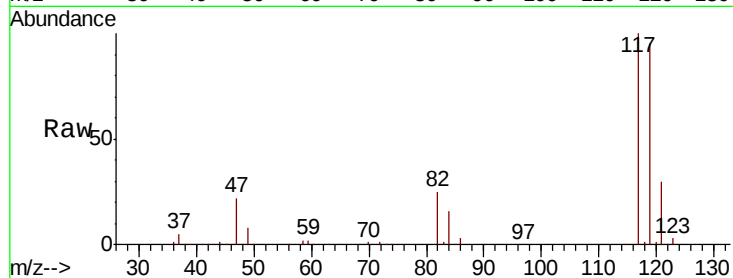
VSTD10064

Tot Ion:117 Resp: 335606

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

4.86

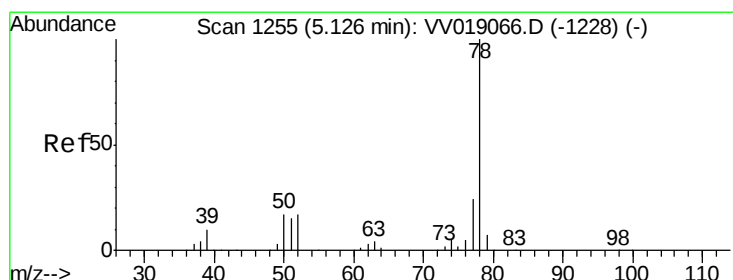
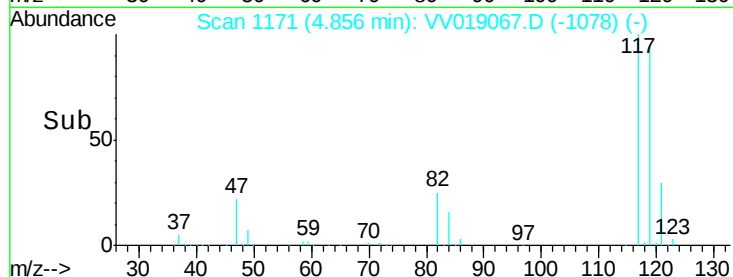
150000

100000

50000

0

Time-->



#33

Benzene

Concen: 99.019 ug/L

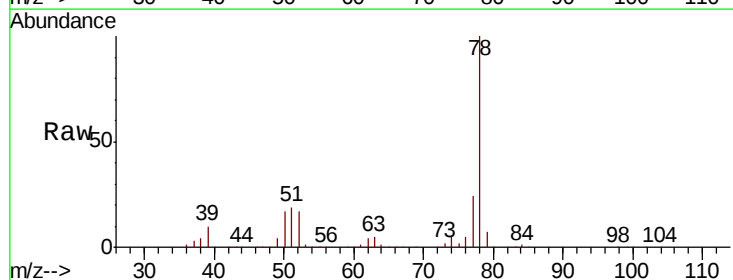
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Tgt Ion: 78 Resp: 960258



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.13

500000

400000

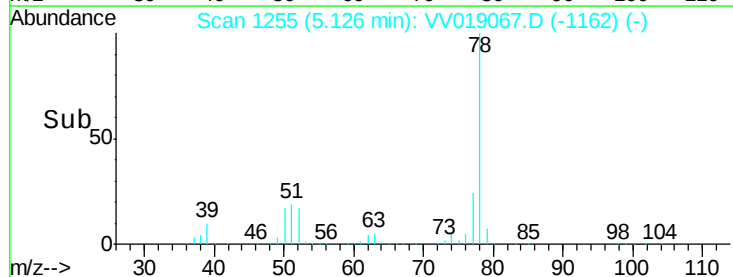
300000

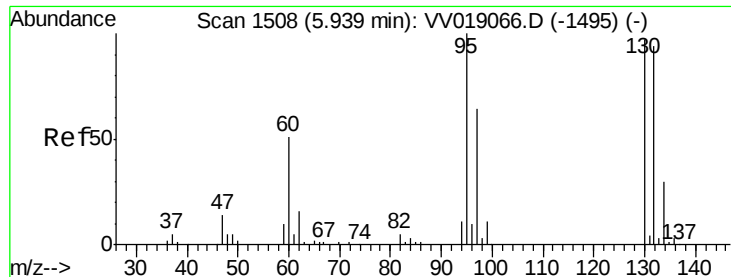
200000

100000

0

Time-->





#34

Trichloroethene

Concen: 87.617 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

Tot Ion: 95 Resp: 239997

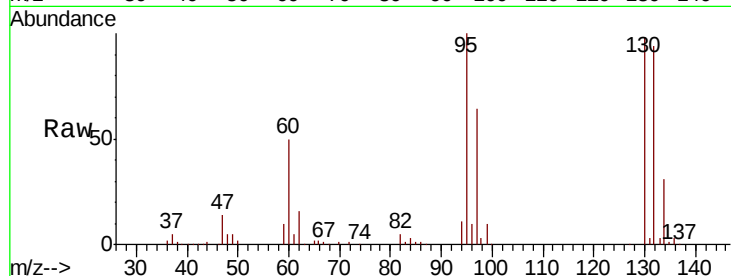
Ion Ratio Lower Upper

95 100

97 63.8 44.6 82.8

132 93.7 66.0 122.6

130 97.8 67.6 125.6

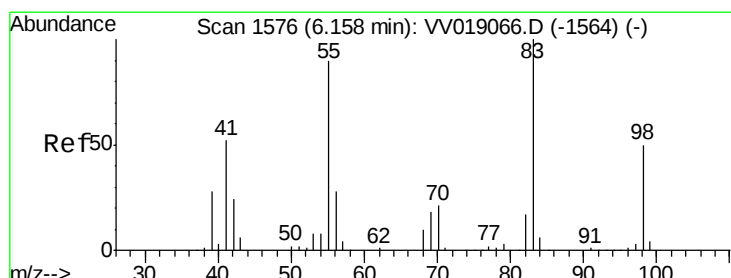
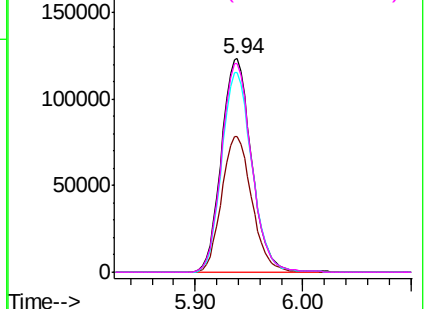
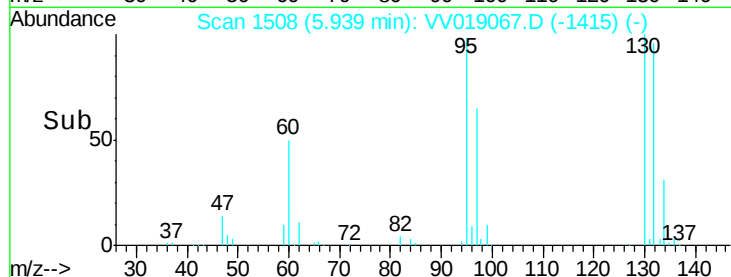


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 100.227 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

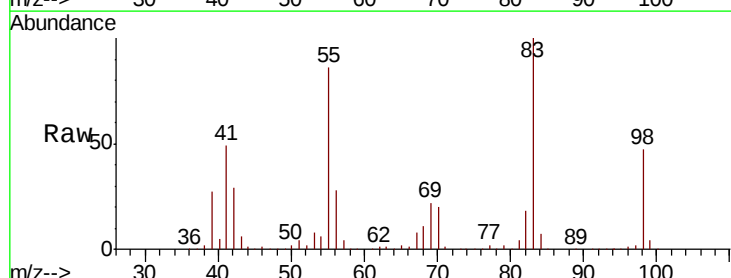
Tgt Ion: 83 Resp: 343980

Ion Ratio Lower Upper

83 100

55 84.1 68.1 102.1

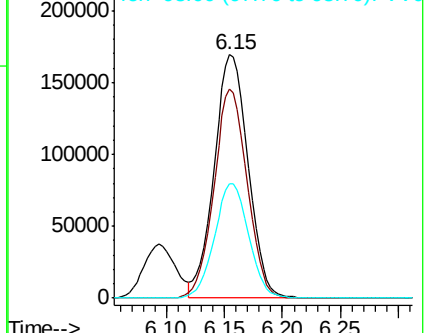
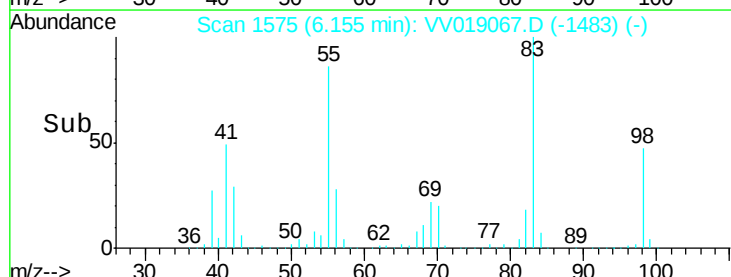
98 47.1 37.9 56.9

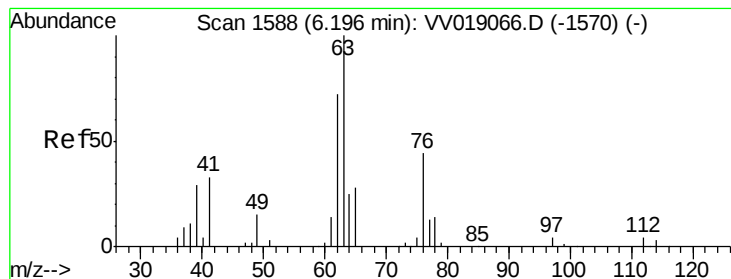


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 100.805 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampled :

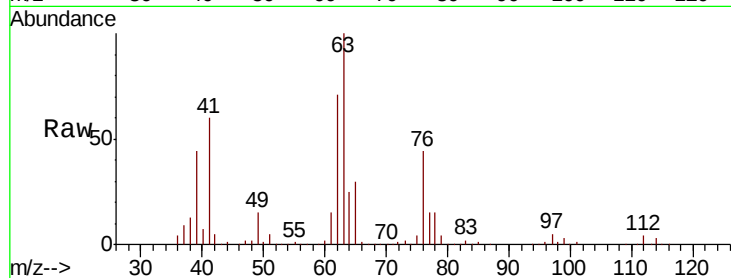
VSTD10064

Tot Ion: 63 Resp: 261204

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VV019066.D (-1570) (-)

Ion 112.00 (111.70 to 112.70): VV019066.D (-1570) (-)

6.20

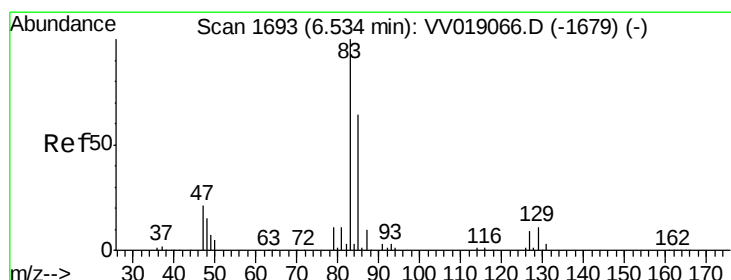
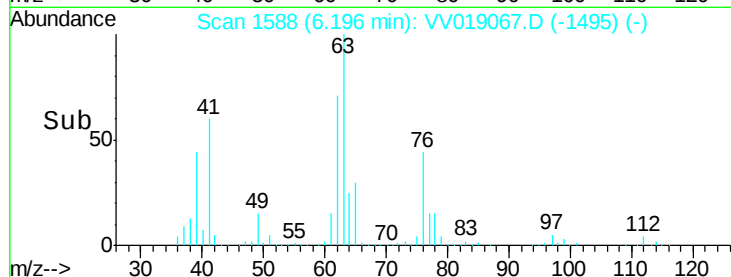
150000

100000

50000

0

Time-->



#38

Bromodichloromethane

Concen: 99.952 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

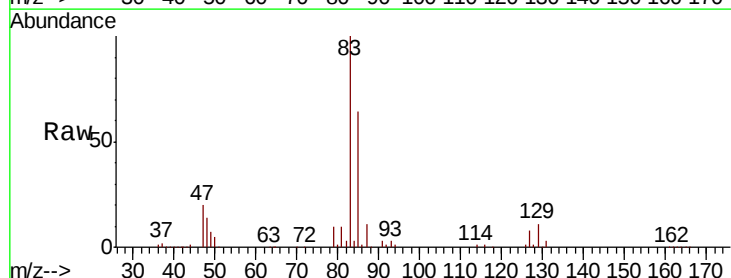
Tgt Ion: 83 Resp: 332691

Ion Ratio Lower Upper

83 100

85 64.4 44.9 83.3

127 8.3 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VV019066.D (-1679) (-)

Ion 85.00 (84.70 to 85.70): VV019066.D (-1679) (-)

Ion 127.00 (126.70 to 127.70): VV019066.D (-1679) (-)

6.53

250000

200000

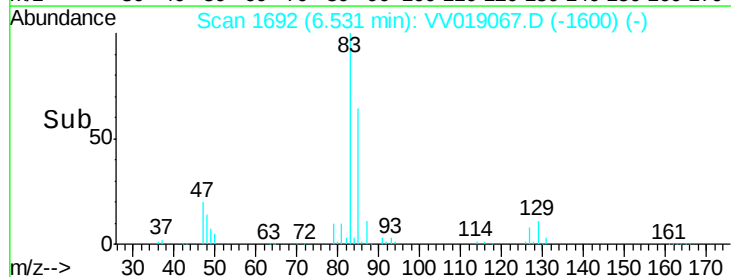
150000

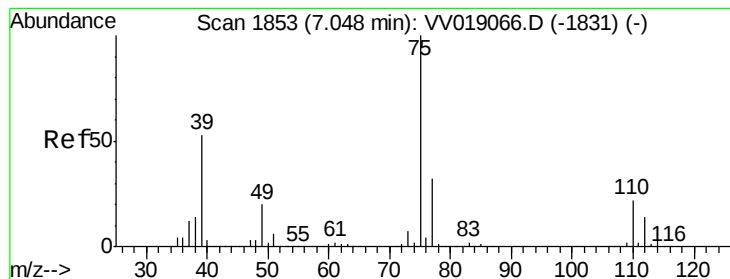
100000

50000

0

Time-->



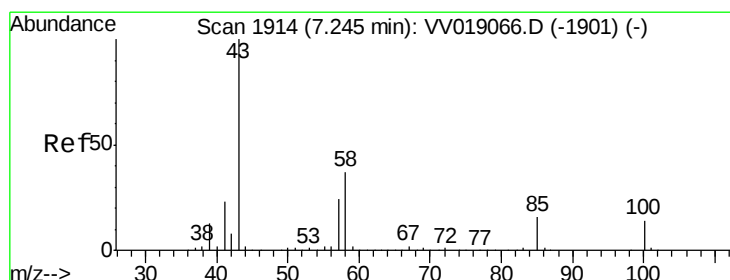
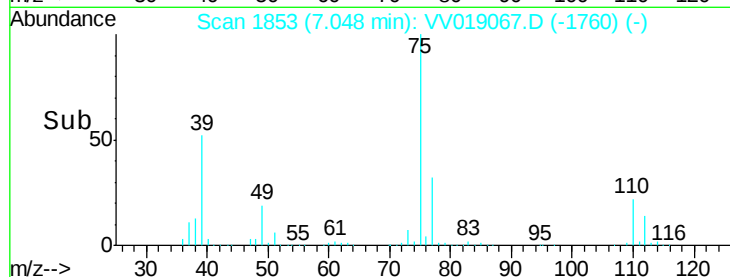
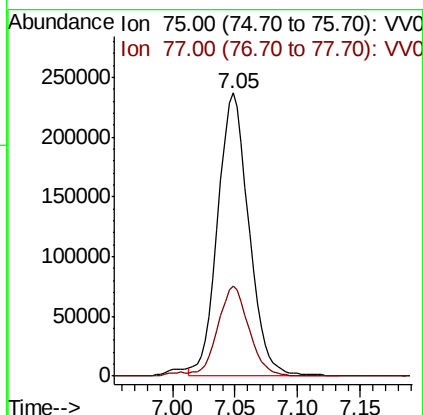
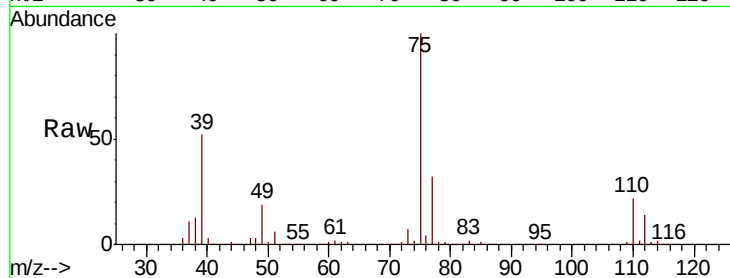


#39

cis-1,3-Dichloropropene
Concen: 103.944 ug/L
RT: 7.05 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD10064

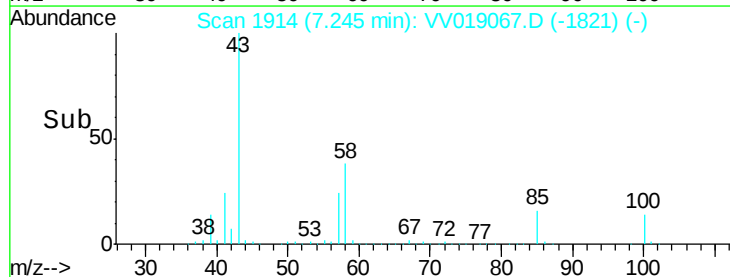
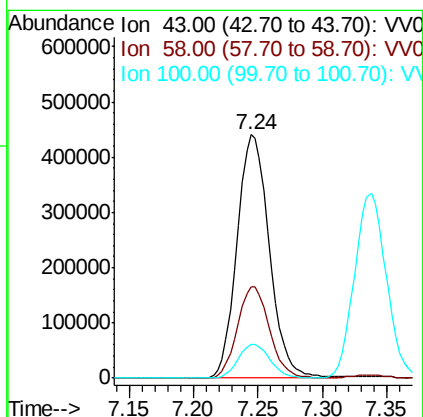
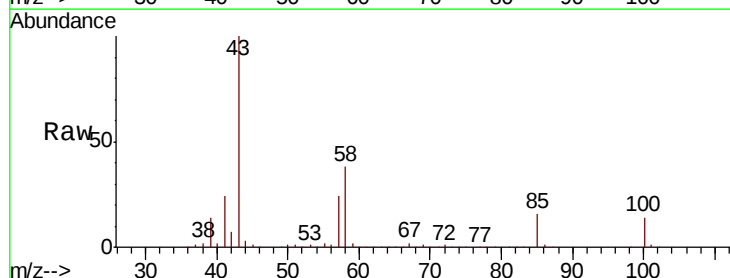
Tot Ion: 75 Resp: 407038
Ion Ratio Lower Upper
75 100
77 31.8 22.1 41.1

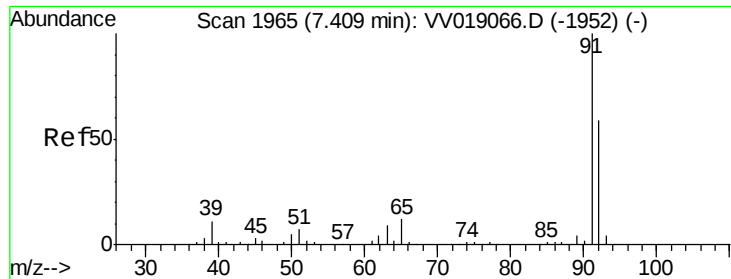


#40

4-Methyl-2-pentanone
Concen: 214.504 ug/L
RT: 7.24 min Scan# 1914
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

Tgt Ion: 43 Resp: 767025
Ion Ratio Lower Upper
43 100
58 37.5 29.6 44.4
100 13.9 10.9 16.3





#42

Toluene

Concen: 101.545 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

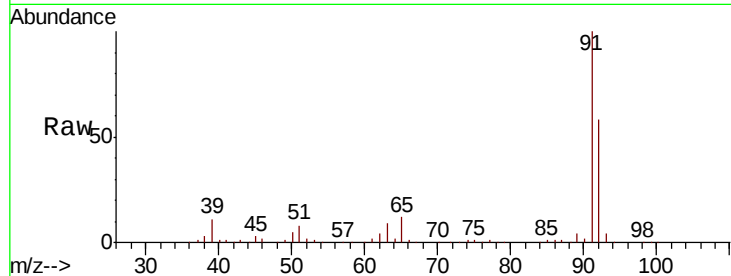
VSTD10064

Tot Ion: 91 Resp: 1012023

Ion Ratio Lower Upper

91 100

92 58.1 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VV019066.D (-1952) (-)

Ion 92.00 (91.70 to 92.70): VV019066.D (-1952) (-)

7.41

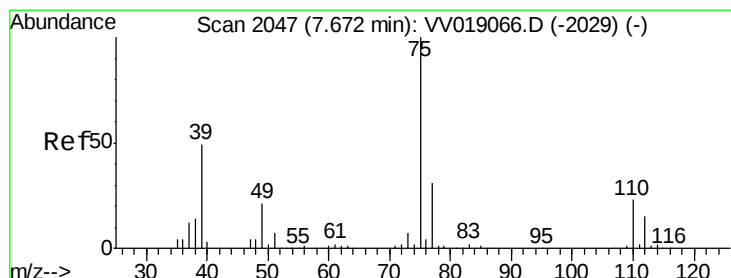
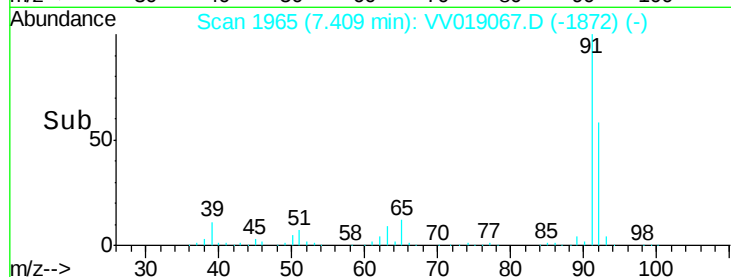
600000

400000

200000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 108.637 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV019067.D

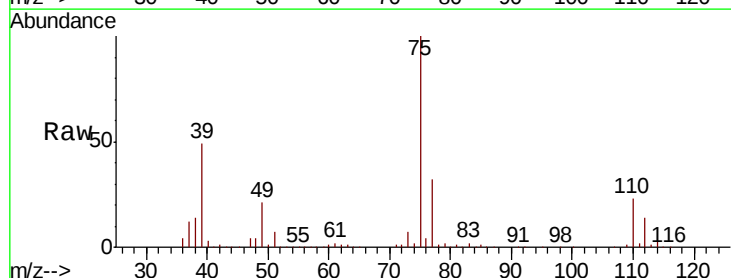
Acq: 22 Oct 2020 13:08

Tgt Ion: 75 Resp: 411336

Ion Ratio Lower Upper

75 100

77 31.6 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV019066.D (-2029) (-)

Ion 77.00 (76.70 to 77.70): VV019066.D (-2029) (-)

7.67

250000

200000

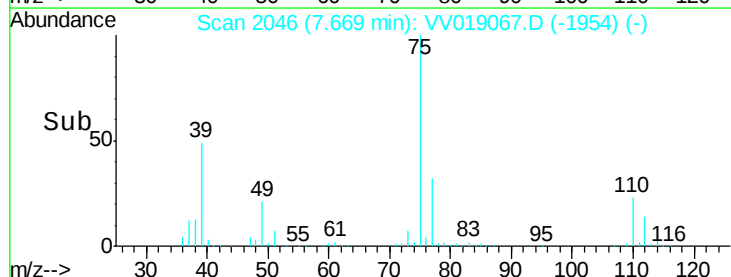
150000

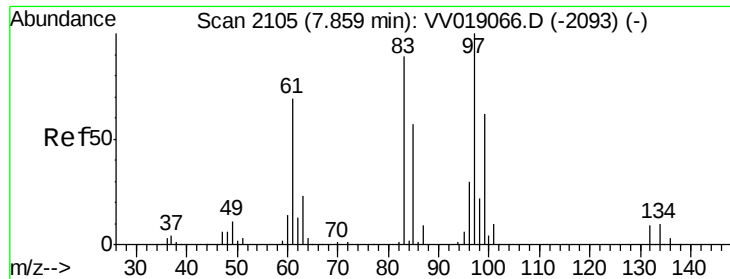
100000

50000

0

Time--> 7.60 7.70 7.80

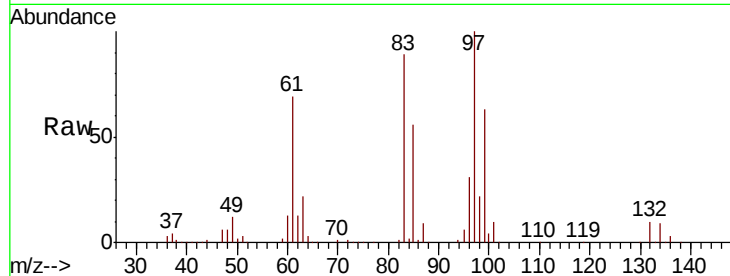




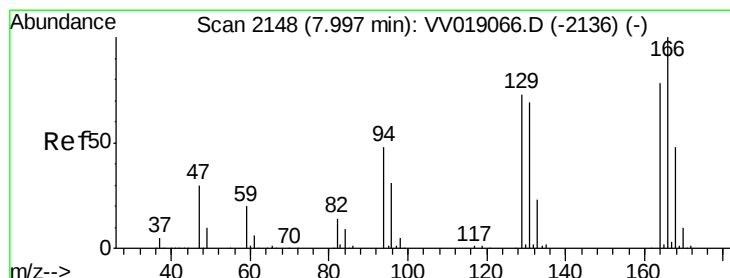
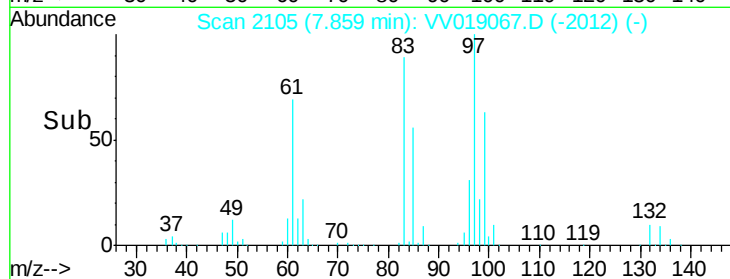
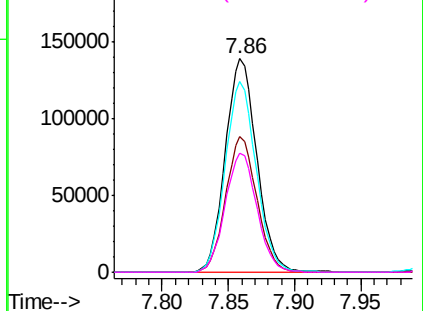
#45
1,1,2-Trichloroethane
Concen: 95.974 ug/L
RT: 7.86 min Scan# 2105
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD10064

Tot Ion:	97	Resp:	230230
Ion	Ratio	Lower	Upper
97	100		
99	63.3	43.5	80.9
83	89.0	62.2	115.4
85	55.7	39.9	74.1

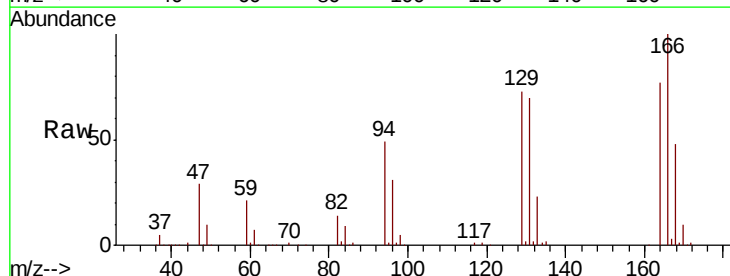


Abundance Ion 97.00 (96.70 to 97.70): VV019067.D (-2093) (-)

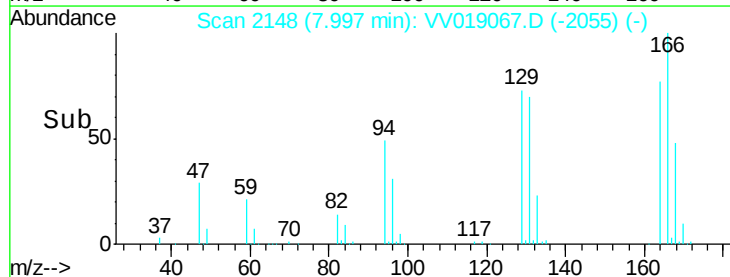
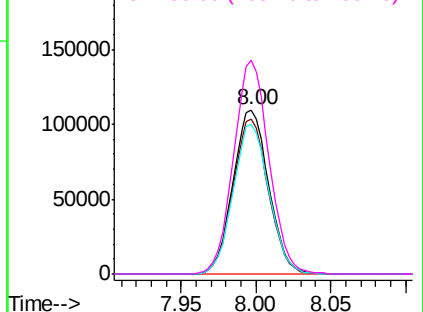


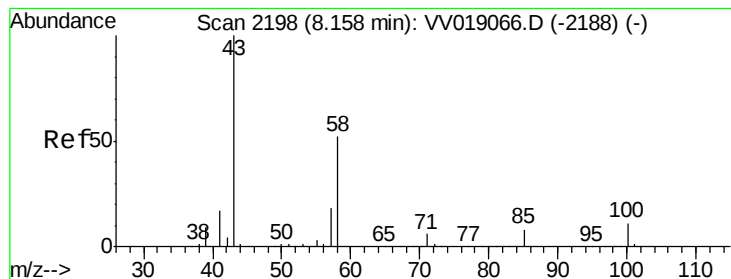
#46
Tetrachloroethene
Concen: 92.785 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV019067.D
Acq: 22 Oct 2020 13:08

Tgt Ion:	164	Resp:	182200
Ion	Ratio	Lower	Upper
164	100		
129	94.6	65.5	121.6
131	91.2	62.4	115.8
166	130.0	90.0	167.2



Abundance Ion 164.00 (163.70 to 164.70): VV019067.D (-2136) (-)





#48

2-Hexanone

Concen: 210.465 ug/L

RT: 8.16 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

Tot Ion: 43 Resp: 594619

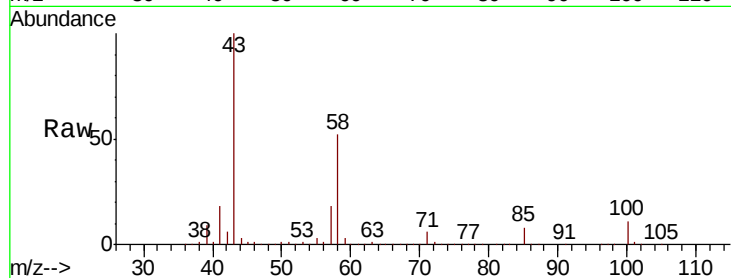
Ion Ratio Lower Upper

43 100

58 52.7 41.1 61.7

57 18.2 14.7 22.1

100 11.1 8.6 12.8

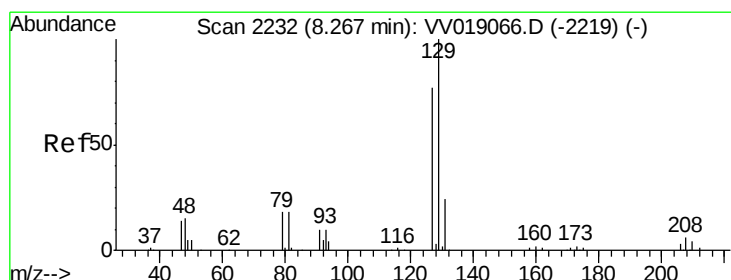
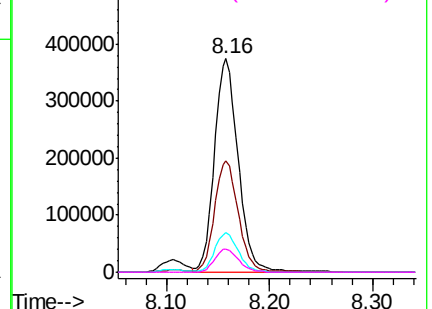
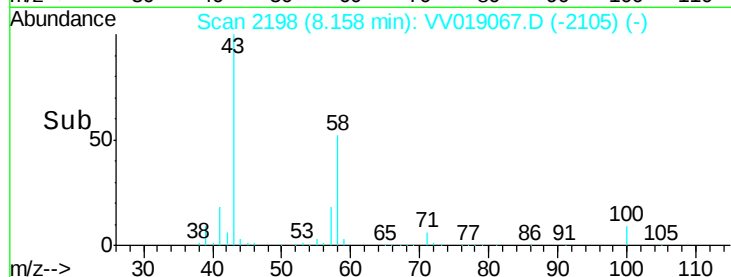


Abundance Ion 43.00 (42.70 to 43.70): VV019066.D (-2188) (-)

Ion 58.00 (57.70 to 58.70): VV019066.D (-2188) (-)

Ion 57.00 (56.70 to 57.70): VV019066.D (-2188) (-)

Ion 100.00 (99.70 to 100.70): VV019066.D (-2188) (-)



#49

Dibromochloromethane

Concen: 102.382 ug/L

RT: 8.27 min Scan# 2232

Delta R.T. 0.00 min

Lab File: VV019067.D

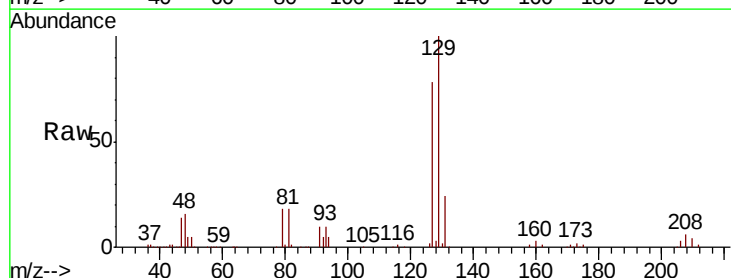
Acq: 22 Oct 2020 13:08

Tgt Ion: 129 Resp: 261783

Ion Ratio Lower Upper

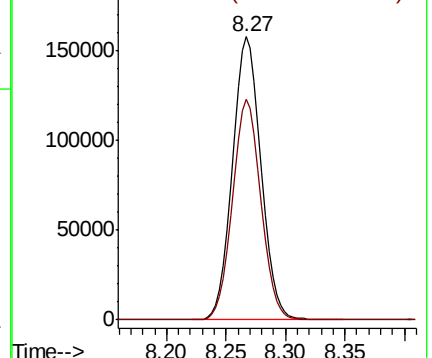
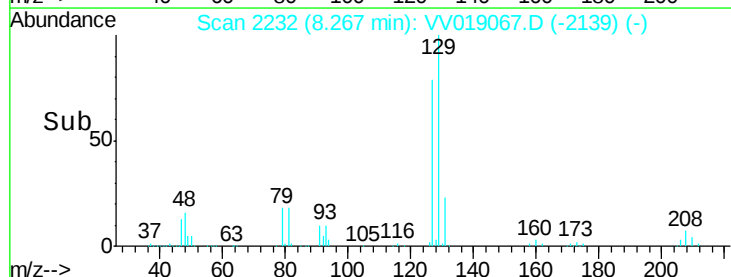
129 100

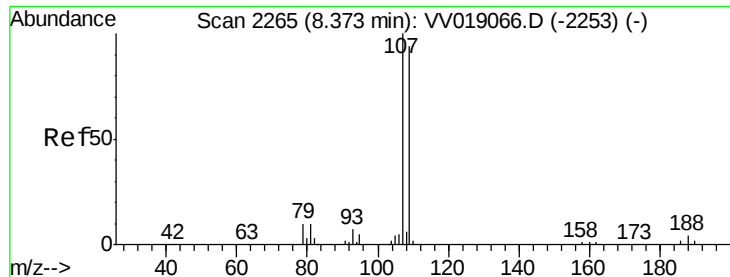
127 78.0 53.7 99.7



Abundance Ion 129.00 (128.70 to 129.70): VV019066.D (-2219) (-)

Ion 127.00 (126.70 to 127.70): VV019066.D (-2219) (-)

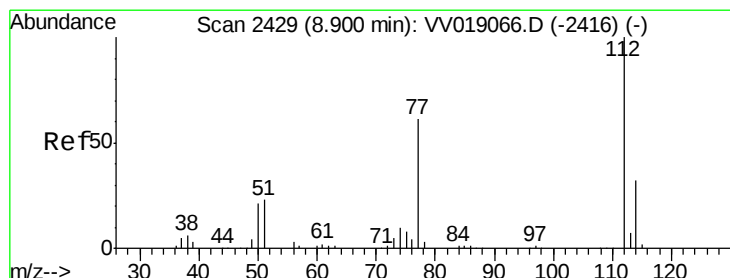
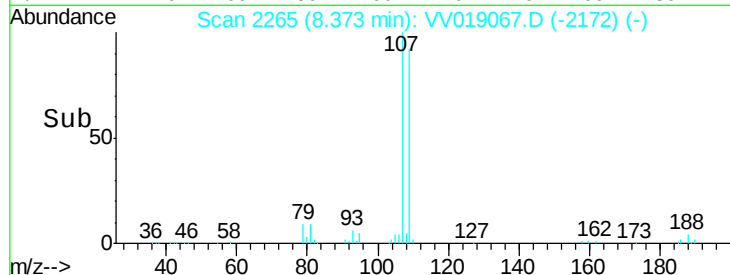
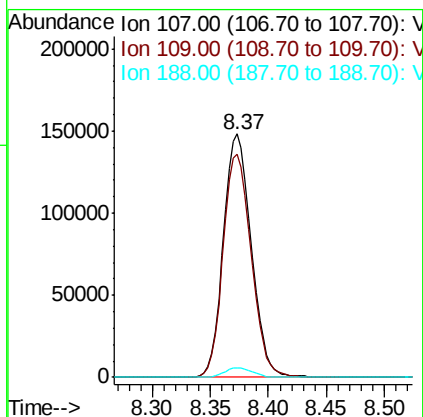
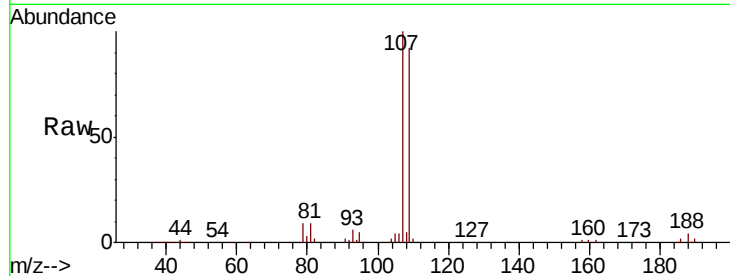




#50
 1,2-Dibromoethane
 Concen: 98.476 ug/L
 RT: 8.37 min Scan# 2265
 Delta R.T. 0.00 min
 Lab File: VV019067.D
 Acq: 22 Oct 2020 13:08

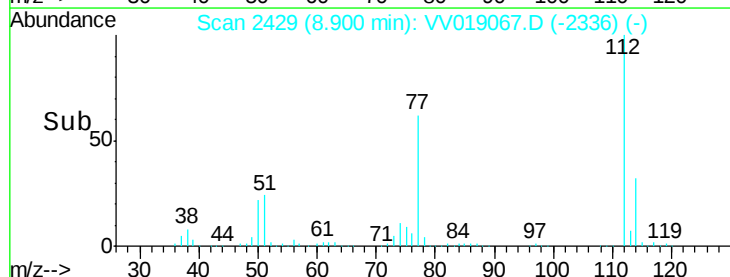
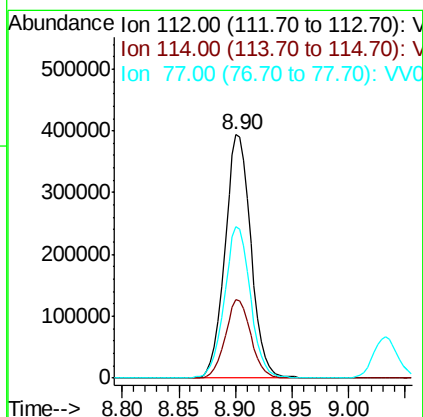
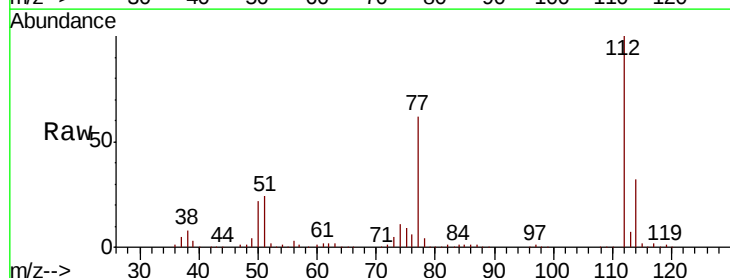
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10064

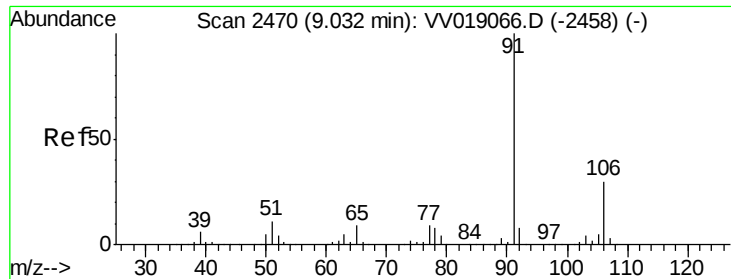
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.9	66.1	122.7
188	3.9	3.2	4.8



#51
 Chlorobenzene
 Concen: 96.956 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019067.D
 Acq: 22 Oct 2020 13:08

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.2	41.2
77	62.5	49.1	73.7





#52

Ethylbenzene

Concen: 103.010 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

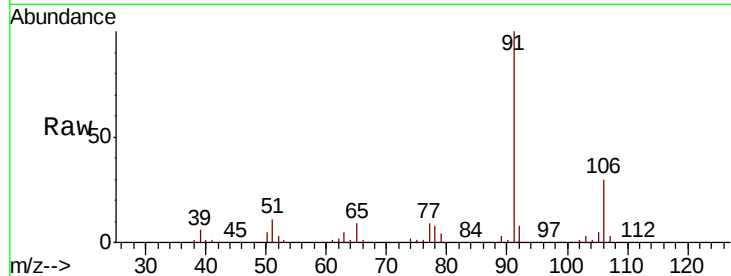
VSTD10064

Tot Ion: 91 Resp: 1112139

Ion Ratio Lower Upper

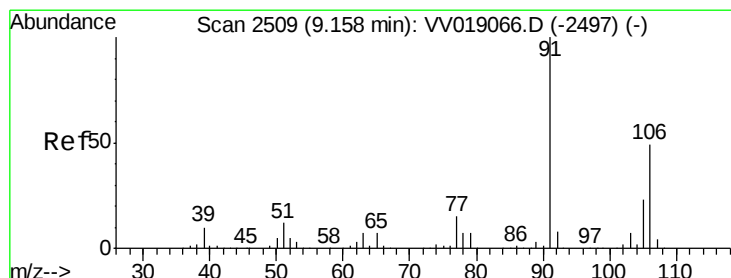
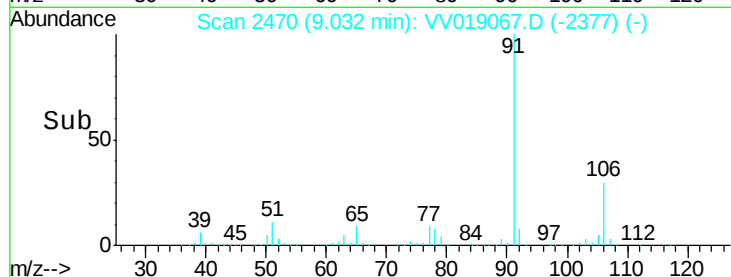
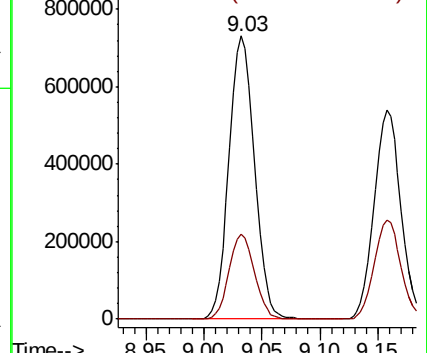
91 100

106 30.0 20.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VV019067.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV019067.D (-2458) (-)



#53

m,p-Xylene

Concen: 101.859 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019067.D

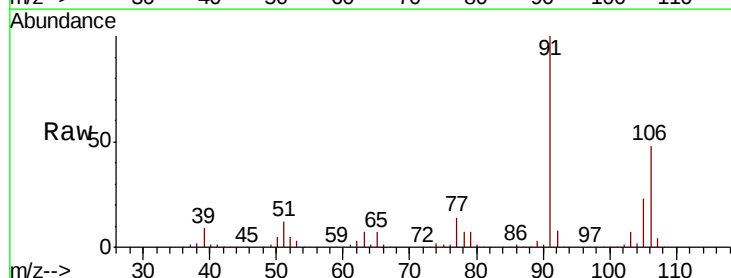
Acq: 22 Oct 2020 13:08

Tgt Ion: 106 Resp: 410174

Ion Ratio Lower Upper

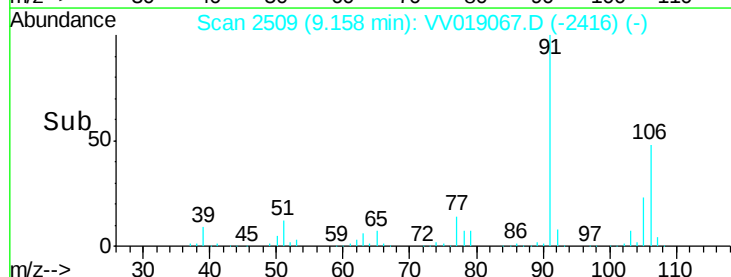
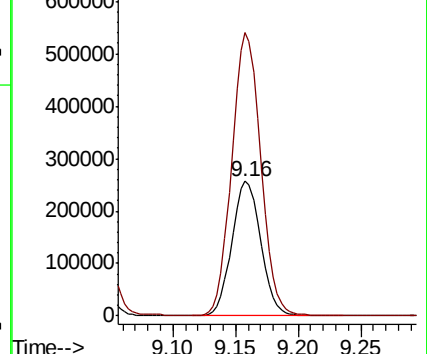
106 100

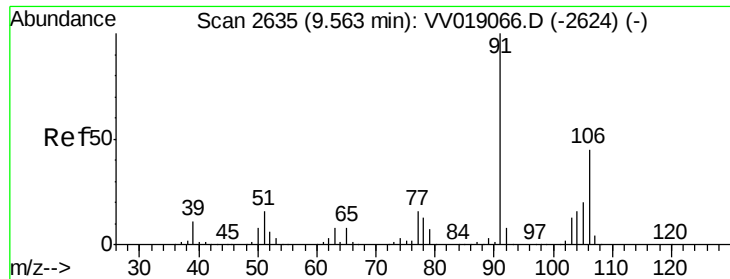
91 210.1 143.4 266.2



Abundance Ion 106.00 (105.70 to 106.70): VV019067.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV019067.D (-2497) (-)





#54

o-xylene

Concen: 103.887 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

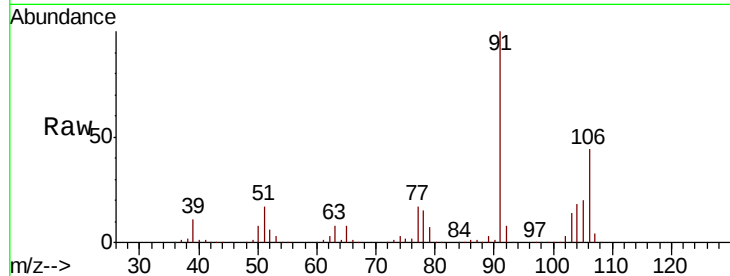
Instrument :
MSVOA_V
ClientSampleId :
VSTD10064

Tot Ion:106 Resp: 399624

Ion Ratio Lower Upper

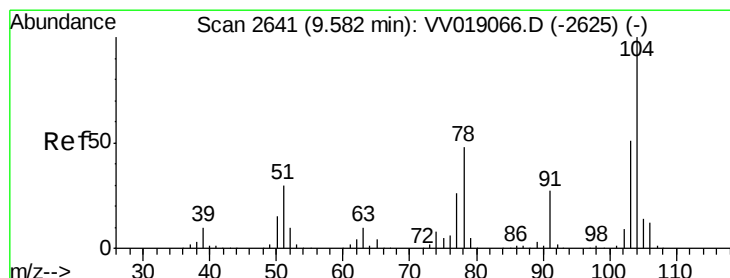
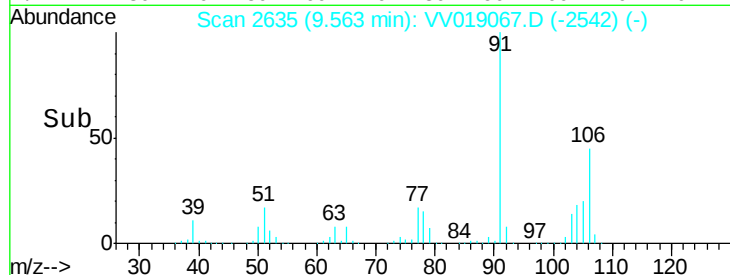
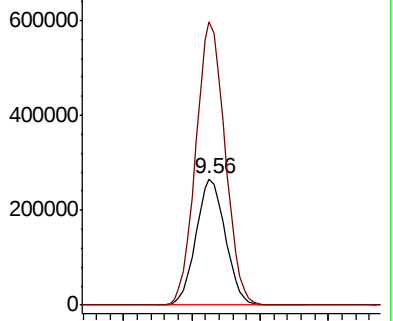
106 100

91 224.7 154.3 286.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 106.670 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV019067.D

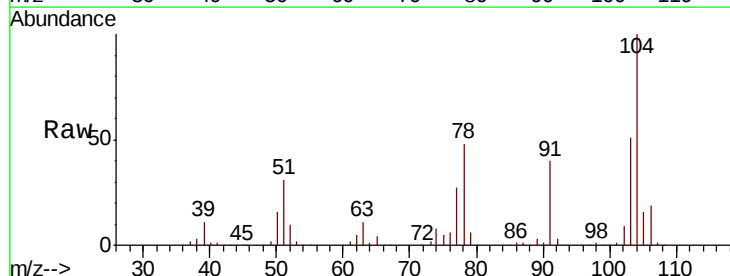
Acq: 22 Oct 2020 13:08

Tgt Ion:104 Resp: 722966

Ion Ratio Lower Upper

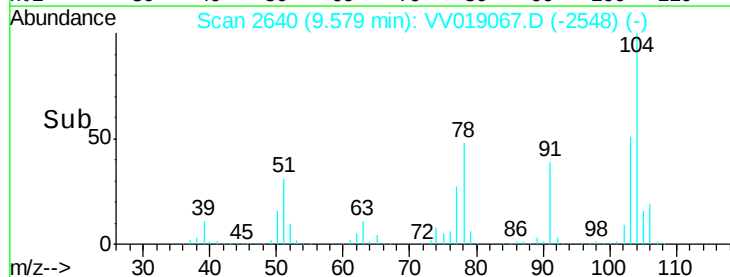
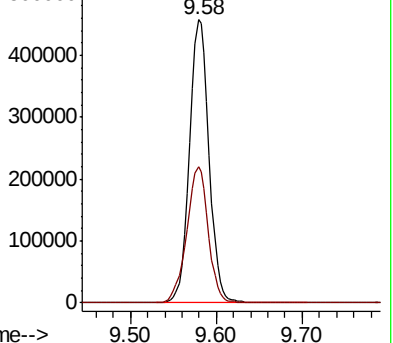
104 100

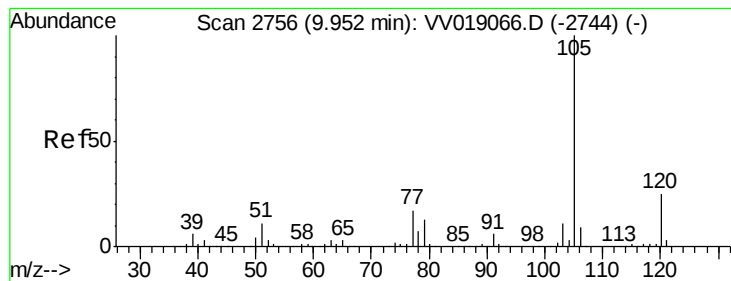
78 48.1 33.2 61.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 103.935 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

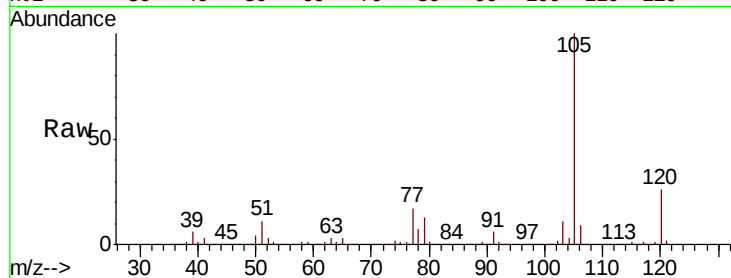
Tot Ion:105 Resp: 1051038

Ion Ratio Lower Upper

105 100

120 25.9 20.6 31.0

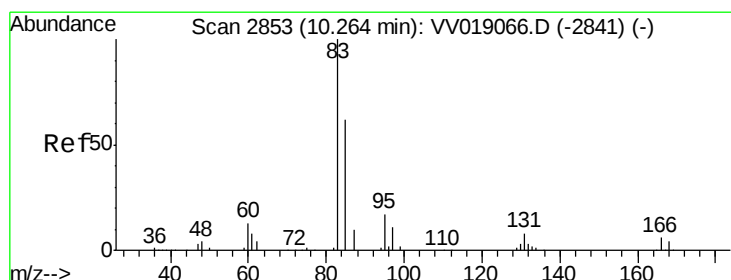
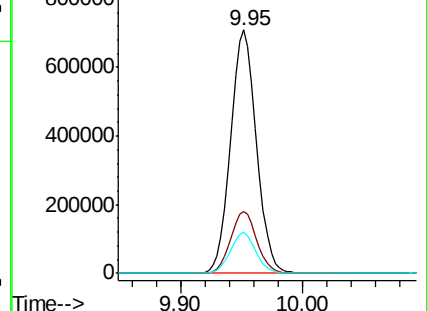
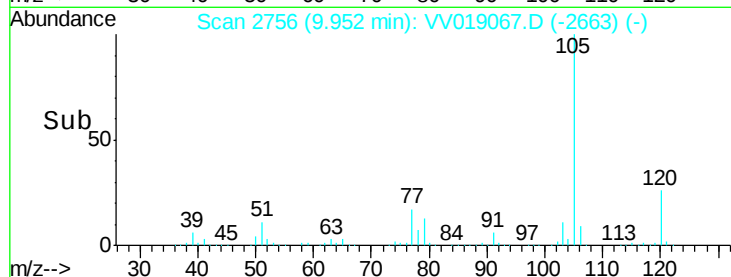
77 16.7 13.4 20.0



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: 112.770 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

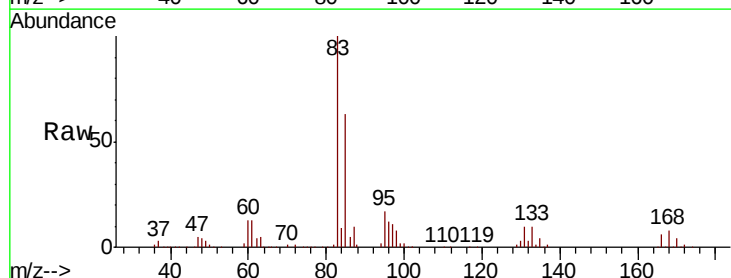
Tgt Ion: 83 Resp: 380574

Ion Ratio Lower Upper

83 100

85 63.2 44.2 82.2

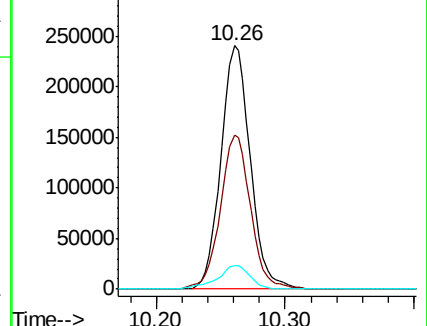
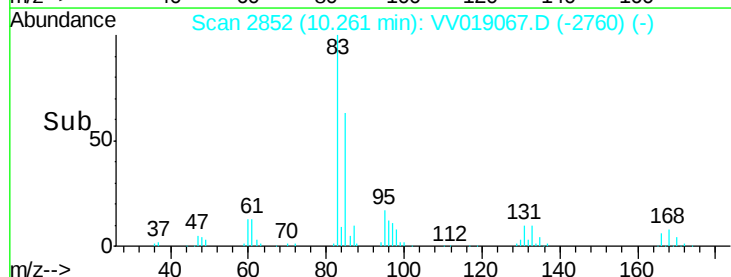
131 9.6 7.4 11.2

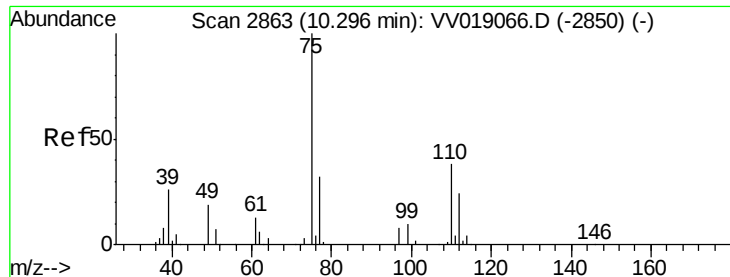


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 99.036 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

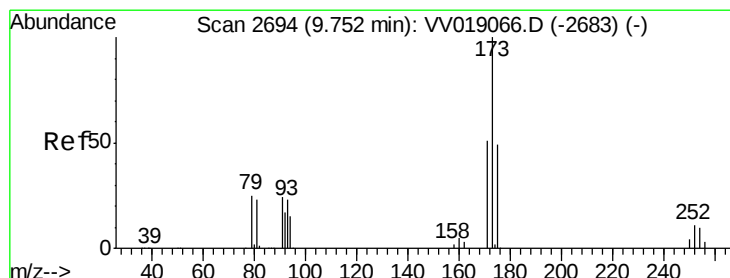
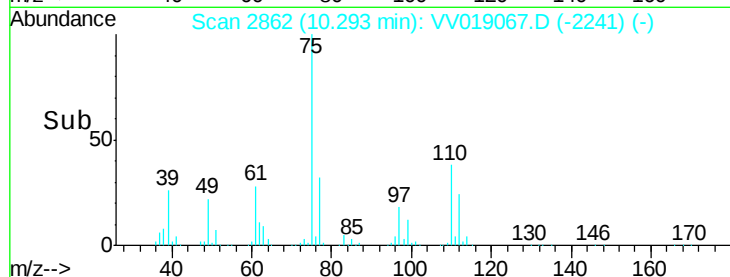
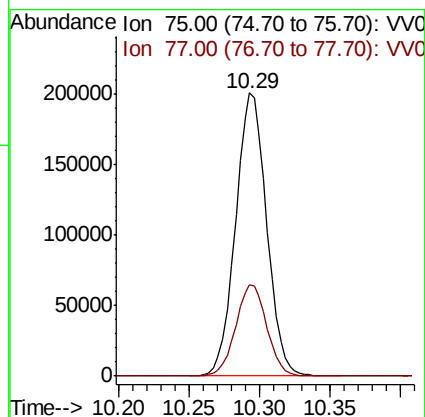
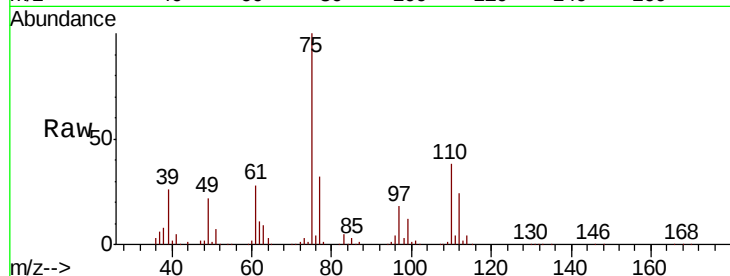
VSTD10064

Tot Ion: 75 Resp: 310173

Ion Ratio Lower Upper

75 100

77 32.4 25.9 38.9



#61

Bromoform

Concen: 103.807 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

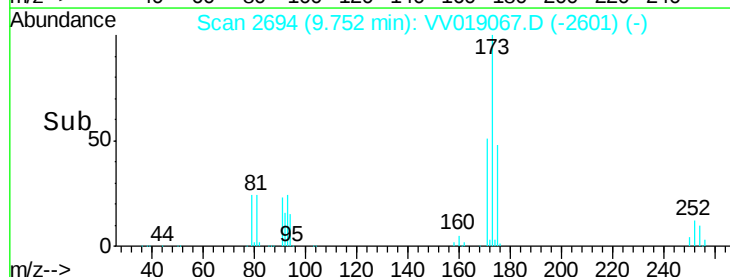
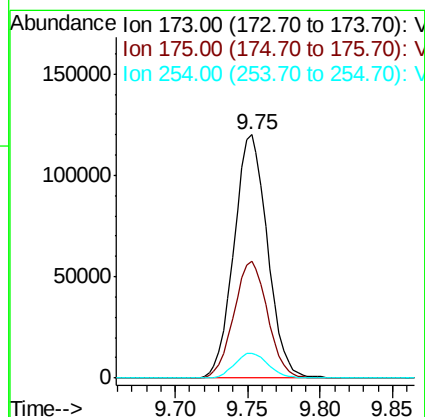
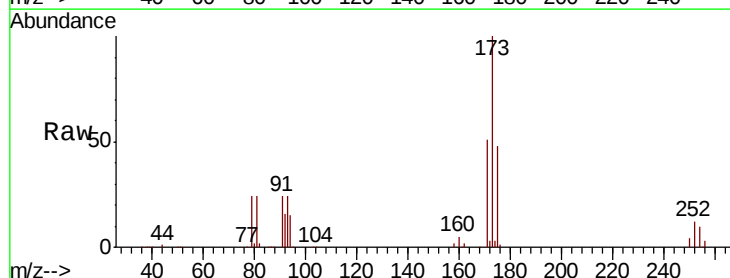
Tgt Ion: 173 Resp: 192561

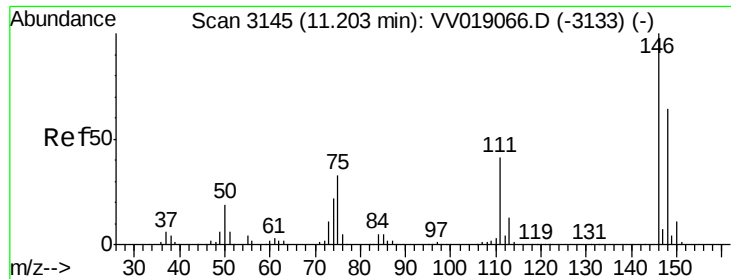
Ion Ratio Lower Upper

173 100

175 48.4 38.3 57.5

254 10.3 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 96.505 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

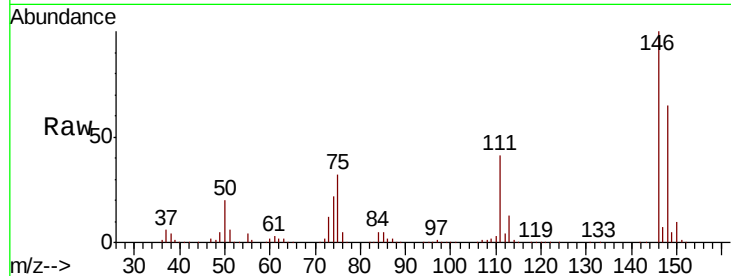
Tot Ion:146 Resp: 504444

Ion Ratio Lower Upper

146 100

111 40.7 28.8 53.4

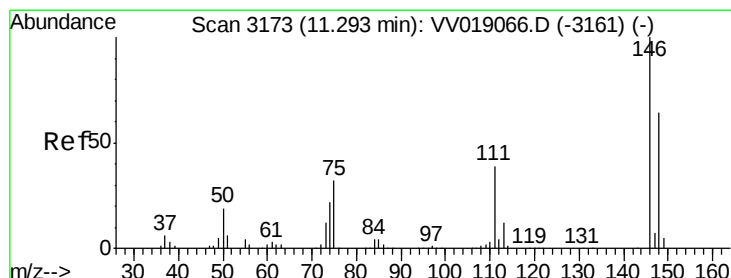
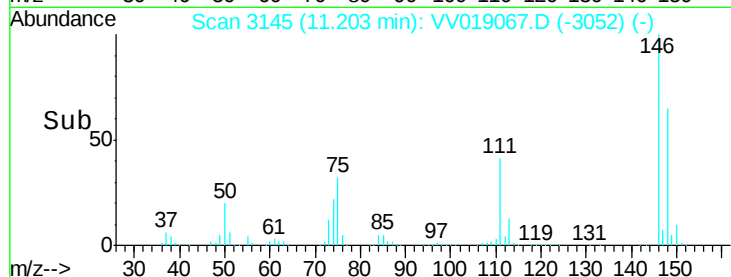
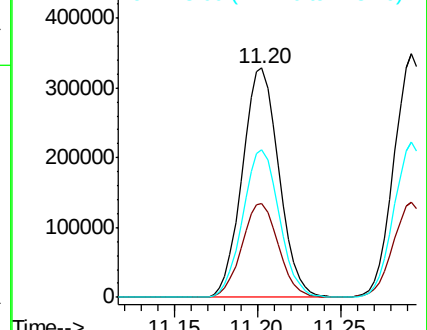
148 64.6 44.5 82.7



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: 95.088 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

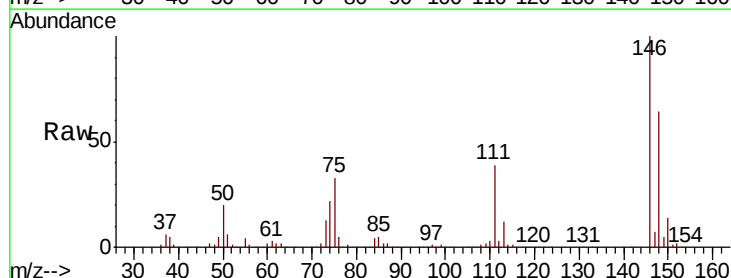
Tgt Ion:146 Resp: 521269

Ion Ratio Lower Upper

146 100

111 38.9 27.8 51.6

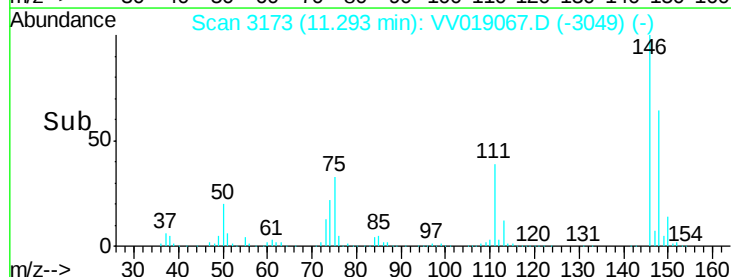
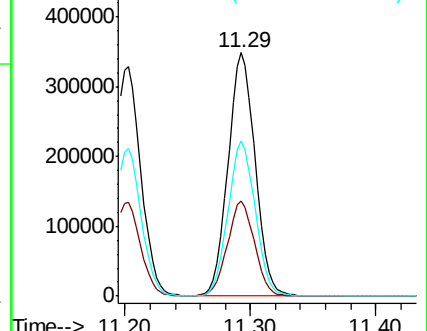
148 63.6 45.1 83.9

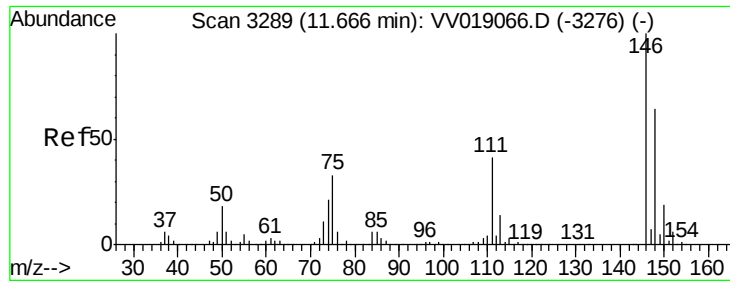


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 96.023 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

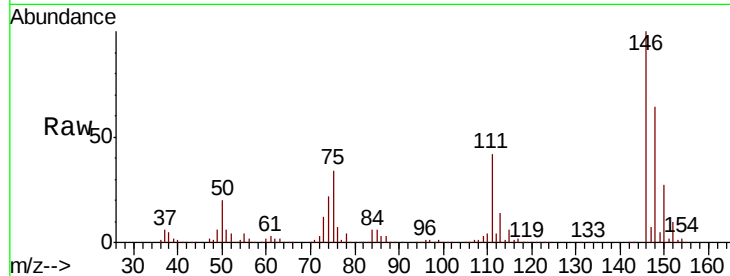
Tot Ion:146 Resp: 504495

Ion Ratio Lower Upper

146 100

111 42.0 33.3 49.9

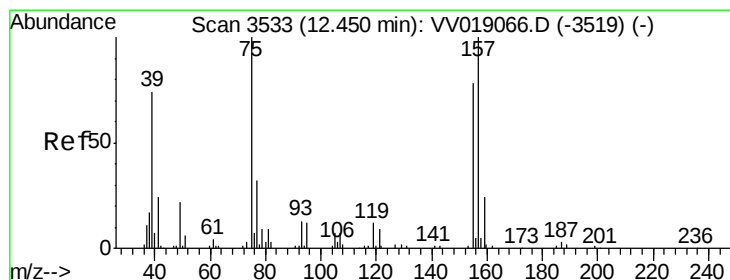
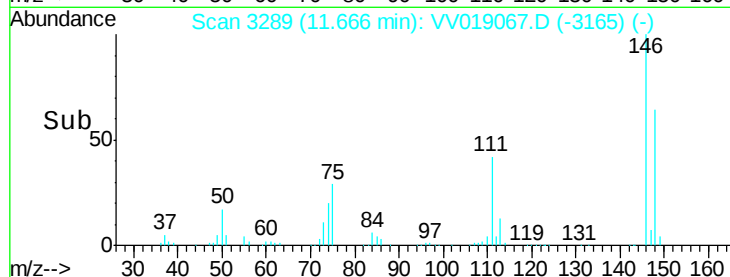
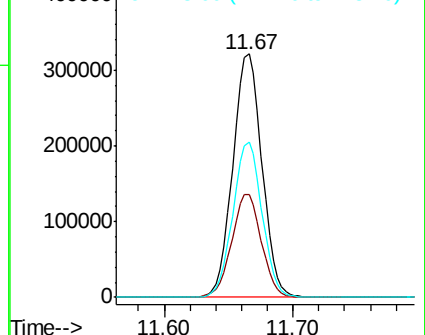
148 63.6 51.1 76.7



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: 112.865 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

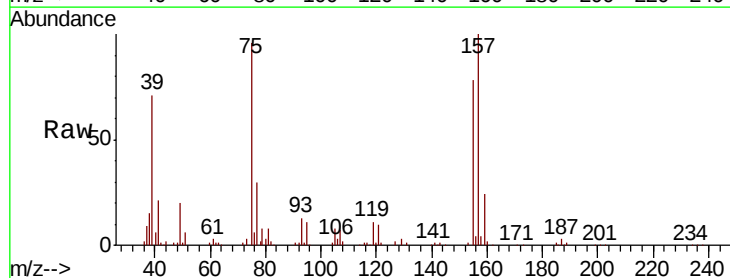
Tgt Ion: 75 Resp: 91614

Ion Ratio Lower Upper

75 100

155 81.3 62.2 93.4

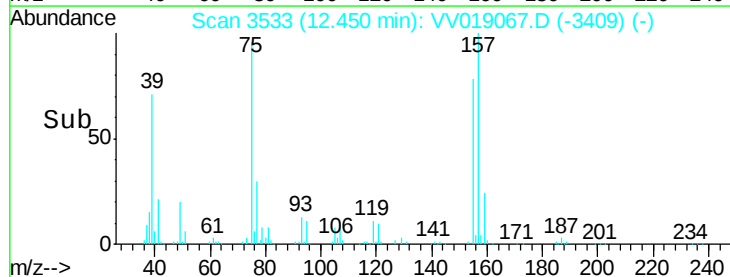
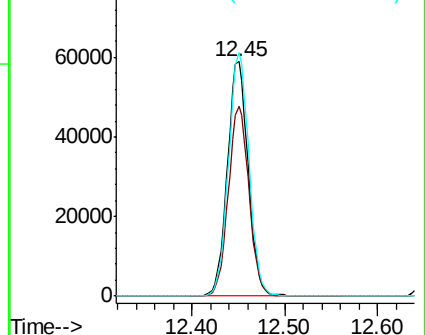
157 104.0 79.9 119.9

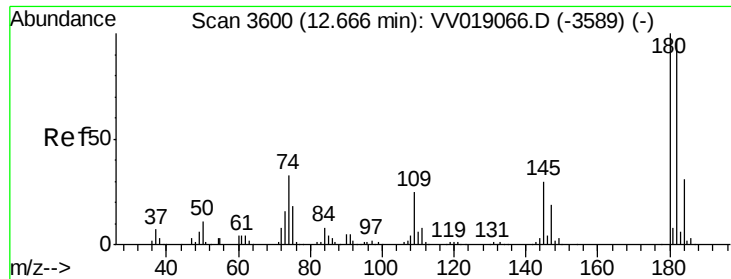


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

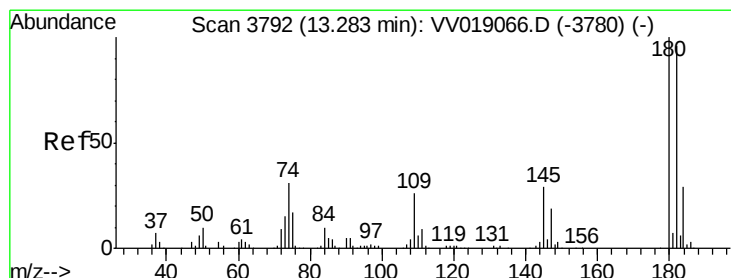
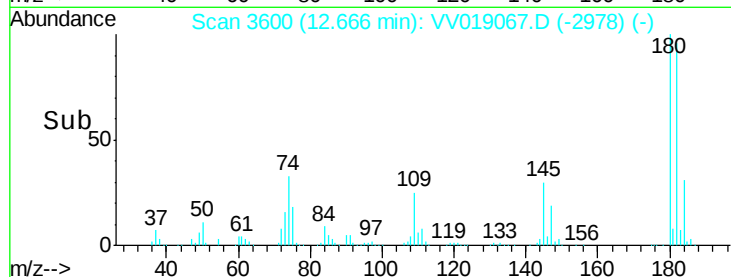
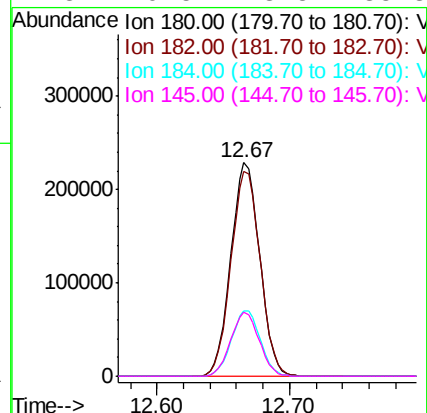
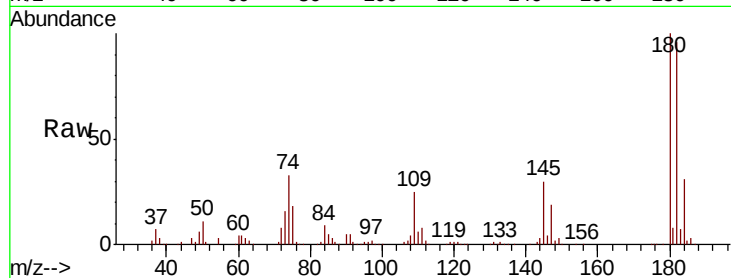




#67
 1,3,5-Trichlorobenzene
 Concen: 99.058 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019067.D
 Acq: 22 Oct 2020 13:08

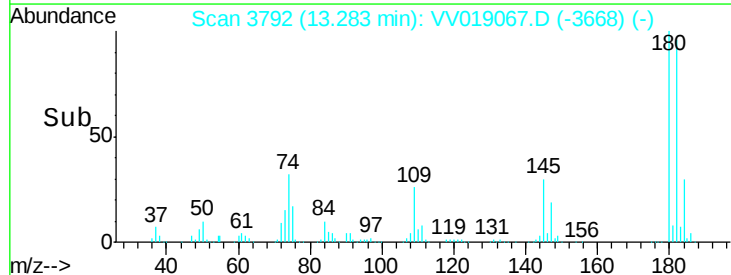
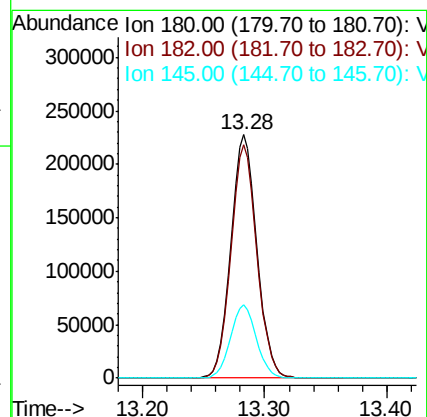
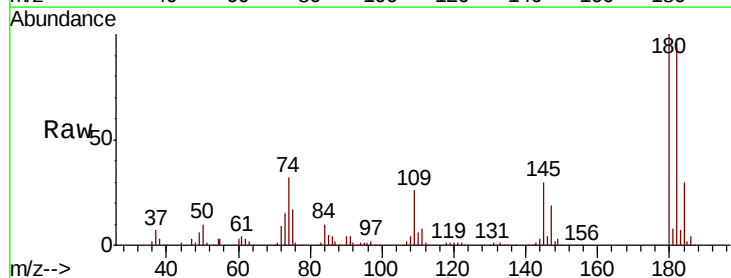
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10064

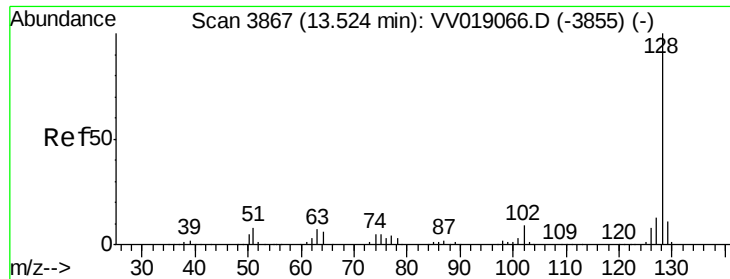
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.4	116.0
184	30.5	24.7	37.1
145	29.5	23.5	35.3



#68
 1,2,4-trichlorobenzene
 Concen: 105.137 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019067.D
 Acq: 22 Oct 2020 13:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.4	116.2
145	29.9	23.7	35.5





#69

Naphthalene

Concen: 120.411 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10064

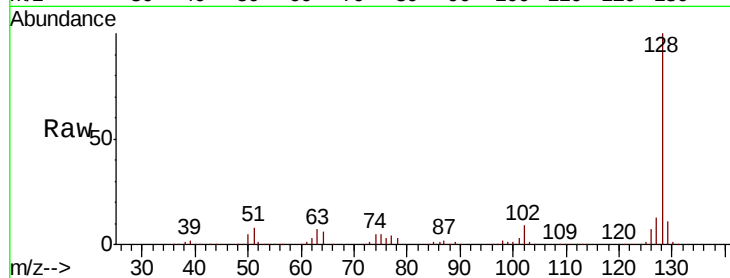
Tot Ion:128 Resp: 1128818

Ion Ratio Lower Upper

128 100

127 13.2 10.6 15.8

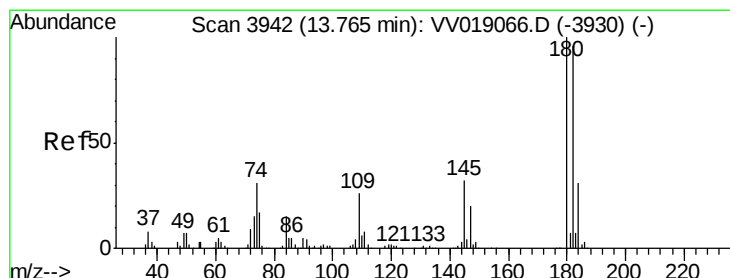
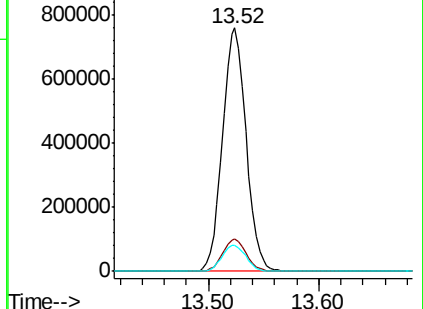
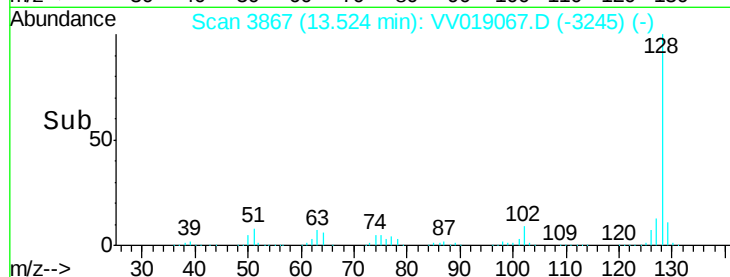
129 11.0 8.7 13.1



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: 104.599 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019067.D

Acq: 22 Oct 2020 13:08

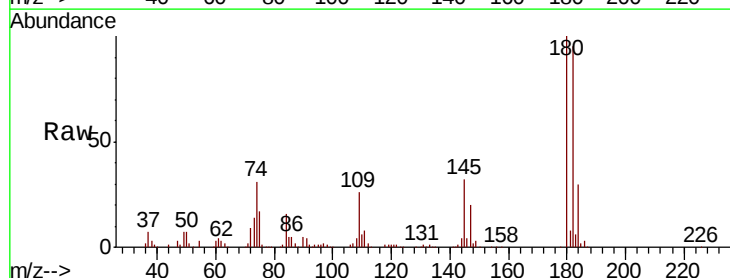
Tgt Ion:180 Resp: 338569

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

145 31.7 25.6 38.4



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

