

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070920\
 Data File : VV017428.D
 Acq On : 10 Jul 2020 04:02
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

Quant Time: Jul 10 05:16:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM070820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 10 05:13:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	277999	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	264363	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	144732	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64213	44.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	88.74%
7) Chloroethane-d5	1.58	69	45391	44.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.30%
11) 1,1-Dichloroethene-d2	2.13	63	152291	46.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.94%
21) 2-Butanone-d5	3.90	46	97922	99.06	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.06%
24) Chloroform-d	4.38	84	159532	47.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.32%
26) 1,2-Dichloroethane-d4	5.06	65	115275	50.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.34%
32) Benzene-d6	5.08	84	270504	47.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.74%
36) 1,2-Dichloropropane-d6	6.09	67	79064	48.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.16%
41) Toluene-d8	7.34	98	261018	47.54	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	95.08%
43) trans-1,3-Dichloropropene-	7.64	79	45410	47.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.88%
47) 2-Hexanone-d5	8.11	63	71308	105.66	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.66%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	109419	47.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.78%
64) 1,2-Dichlorobenzene-d4	11.65	152	113168	46.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.54%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	140046	46.911	ug/L 99
3) Chloromethane	1.25	50	96789	46.051	ug/L 97
5) Vinyl chloride	1.32	62	98490	46.362	ug/L 99
6) Bromomethane	1.53	94	50624	46.948	ug/L 96
8) Chloroethane	1.60	64	51743	46.943	ug/L 97
9) Trichlorofluoromethane	1.76	101	191087	48.047	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	86476	46.842	ug/L 100
12) 1,1-Dichloroethene	2.14	96	78066	46.753	ug/L 87
13) Acetone	2.19	43	86626	64.377	ug/L 99
14) Carbon disulfide	2.31	76	225865	44.443	ug/L 99
15) Methyl Acetate	2.44	43	81057	45.381	ug/L 98
16) Methylene chloride	2.52	84	89741	46.163	ug/L 98
17) trans-1,2-Dichloroethene	2.78	96	83290	45.870	ug/L 99
18) Methyl tert-butyl Ether	2.78	73	295413	48.766	ug/L 98
19) 1,1-Dichloroethane	3.21	63	159827	47.869	ug/L 98
20) cis-1,2-Dichloroethene	3.94	96	91381	46.969	ug/L 96
22) 2-Butanone	3.98	43	115675	87.944	ug/L 93

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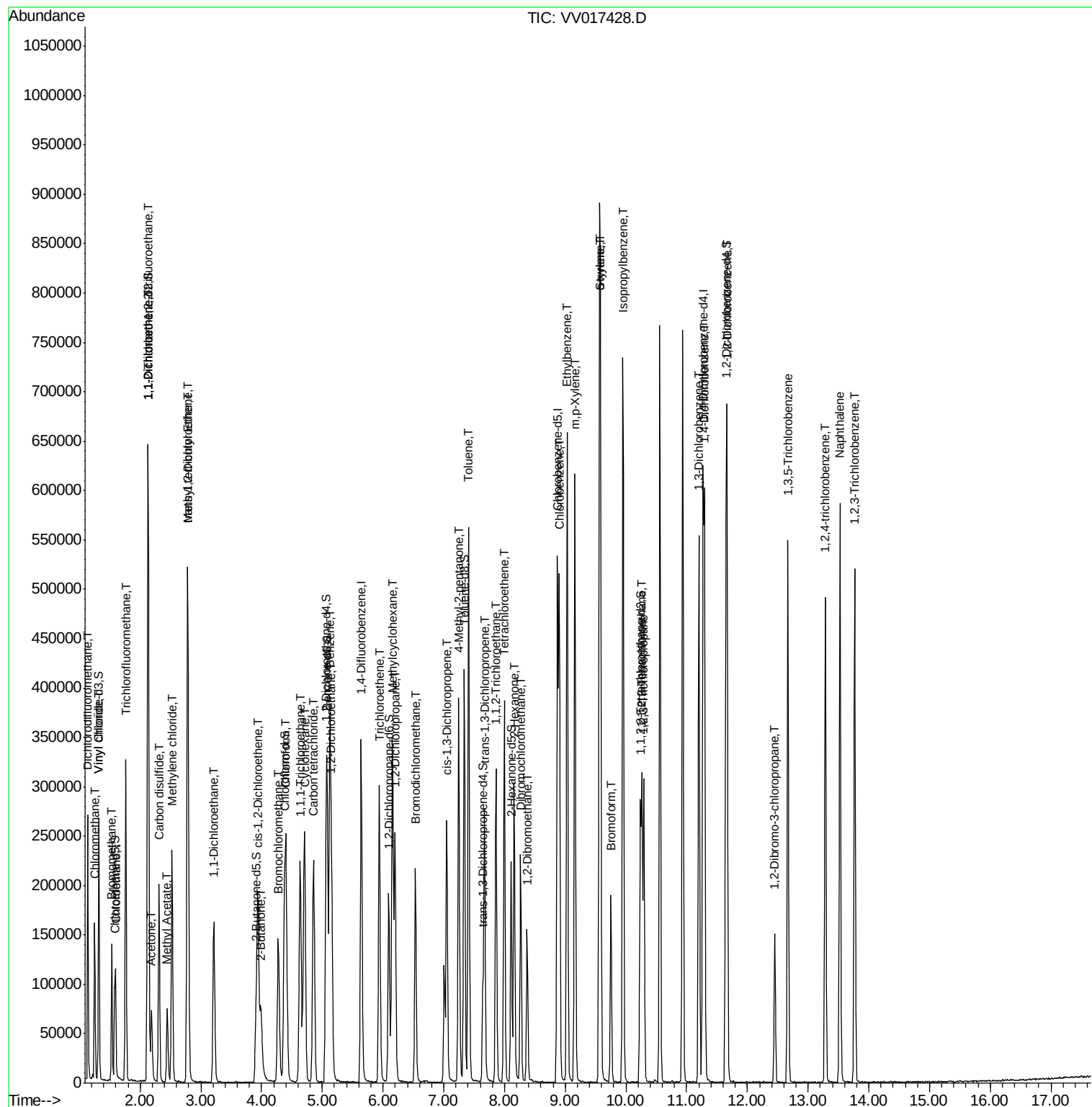
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.28	128	51142	47.242	ug/L	97
25) Chloroform	4.40	83	180431	48.145	ug/L	100
27) 1,2-Dichloroethane	5.15	62	162485	49.326	ug/L	98
29) Cyclohexane	4.71	56	131830	47.819	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	182302	50.147	ug/L	100
31) Carbon tetrachloride	4.86	117	164932	49.567	ug/L	100
33) Benzene	5.13	78	340075	48.665	ug/L	100
34) Trichloroethene	5.94	95	97274	46.885	ug/L	94
35) Methylcyclohexane	6.16	83	143380	47.193	ug/L	100
37) 1,2-Dichloropropane	6.20	63	84978	49.718	ug/L	99
38) Bromodichloromethane	6.53	83	138375	49.719	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	138254	47.465	ug/L	100
40) 4-Methyl-2-pentanone	7.24	43	234324	99.147	ug/L	99
42) Toluene	7.41	91	380945	48.772	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	144913	48.101	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	88899	47.937	ug/L	96
46) Tetrachloroethene	8.00	164	82183	47.175	ug/L	95
48) 2-Hexanone	8.16	43	180903	94.554	ug/L	98
49) Dibromochloromethane	8.27	129	112047	48.433	ug/L	98
50) 1,2-Dibromoethane	8.37	107	94579	47.649	ug/L	100
51) Chlorobenzene	8.90	112	255366	48.247	ug/L	100
52) Ethylbenzene	9.03	91	437122	48.928	ug/L	99
53) m,p-Xylene	9.16	106	163944	49.015	ug/L	99
54) o-xylene	9.57	106	164027	51.055	ug/L	97
55) Styrene	9.58	104	280194	50.209	ug/L	97
56) Isopropylbenzene	9.95	105	448936	50.228	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	128225	47.084	ug/L	100
59) 1,2,3-Trichloropropane	10.30	75	114474	48.332	ug/L	99
61) Bromoform	9.75	173	82465	47.369	ug/L	97
62) 1,3-Dichlorobenzene	11.20	146	211934	46.928	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	211181	46.073	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	217560	48.325	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	35503	48.464	ug/L	97
67) 1,3,5-Trichlorobenzene	12.67	180	162620	47.802	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	143514	48.107	ug/L	99
69) Naphthalene	13.52	128	436690	52.418	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	149955	49.417	ug/L	99

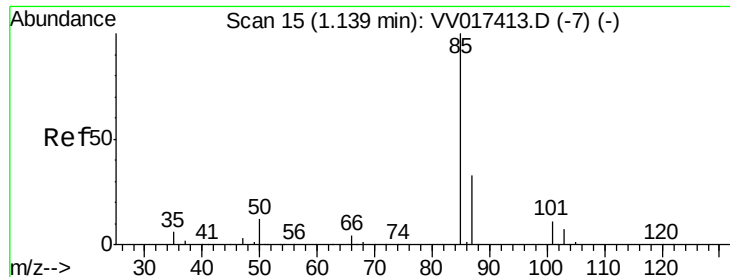
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.911 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

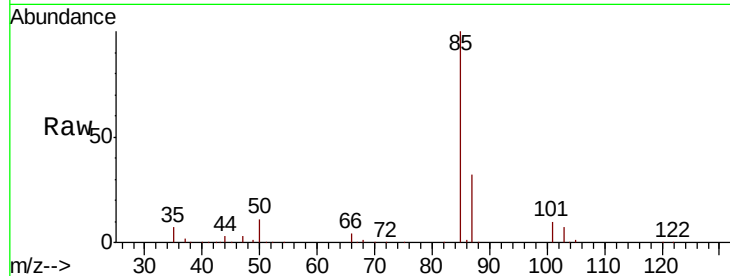
VSTD05079

Tot Ion: 85 Resp: 140046

Ion Ratio Lower Upper

85 100

87 32.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV017413.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV017413.D (-7) (-)

1.14

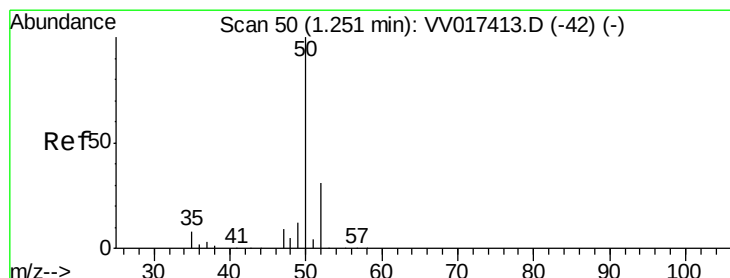
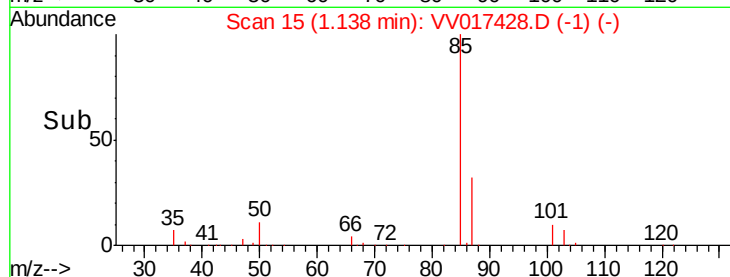
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 46.051 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV017428.D

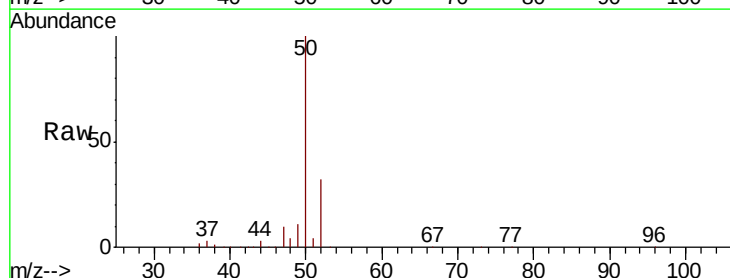
Acq: 10 Jul 2020 04:02

Tgt Ion: 50 Resp: 96789

Ion Ratio Lower Upper

50 100

52 31.8 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VV017413.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV017413.D (-42) (-)

1.25

100000

80000

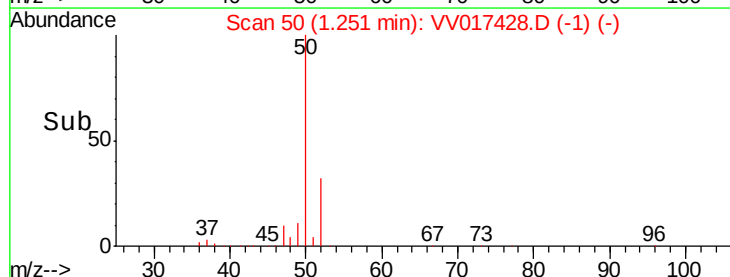
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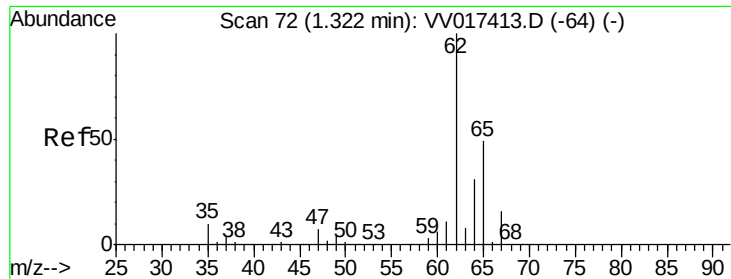
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 46.362 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

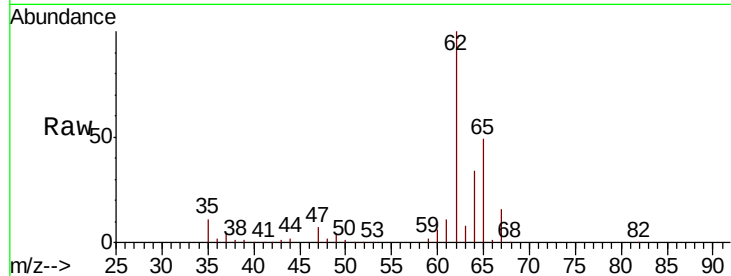
VSTD05079

Tot Ion: 62 Resp: 98490

Ion Ratio Lower Upper

62 100

64 33.9 24.1 44.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

100000

80000

60000

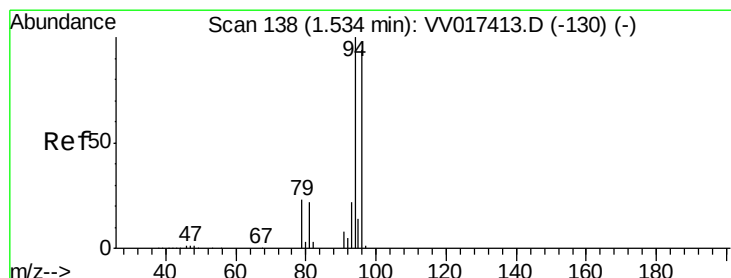
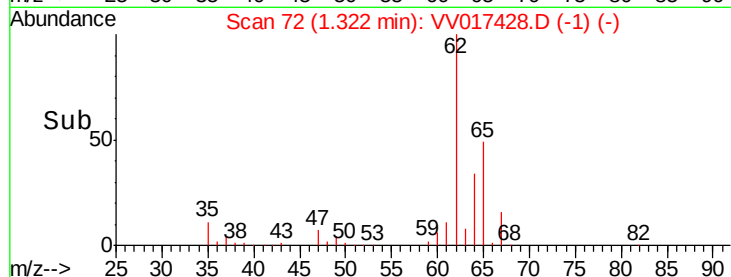
40000

20000

0

1.30 1.32 1.34 1.36 1.38 1.40

Time-->



#6

Bromomethane

Concen: 46.948 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV017428.D

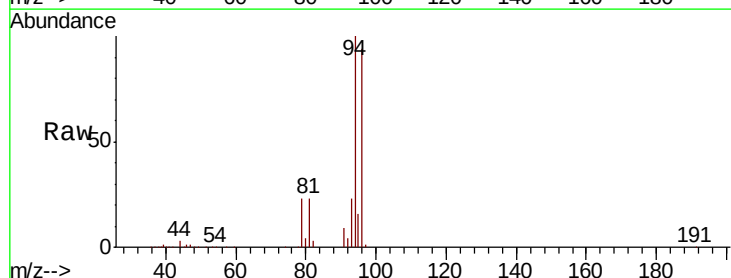
Acq: 10 Jul 2020 04:02

Tgt Ion: 94 Resp: 50624

Ion Ratio Lower Upper

94 100

96 94.3 69.0 128.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

50000

40000

30000

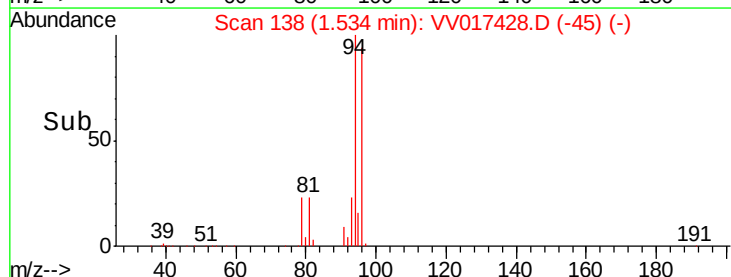
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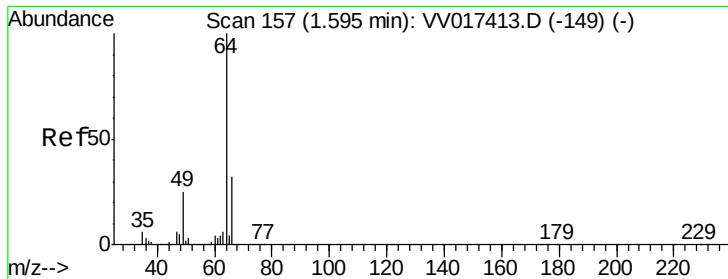
10000

0

1.50 1.52 1.54 1.56 1.58 1.60

Time-->





#8

Chloroethane

Concen: 46.943 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

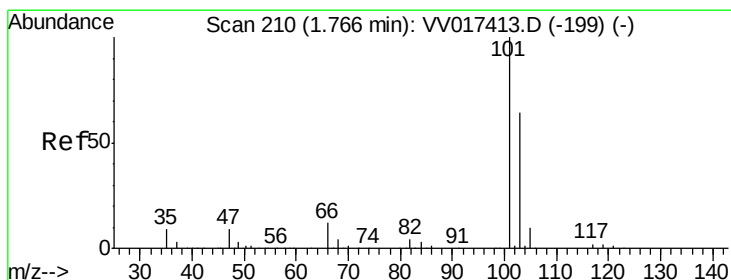
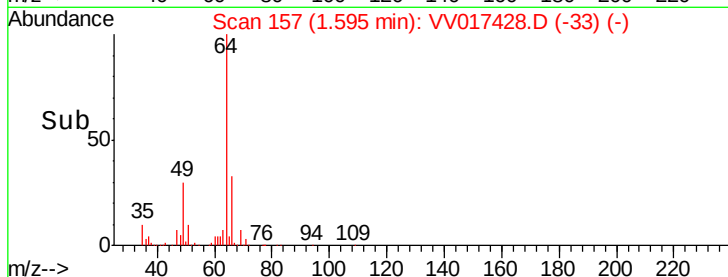
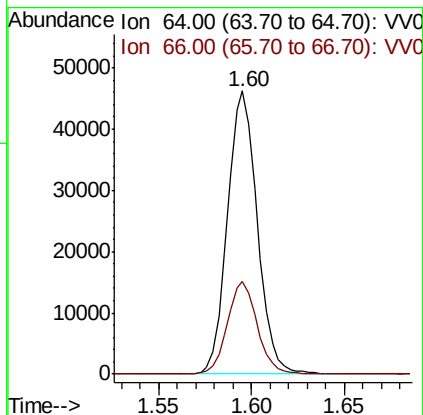
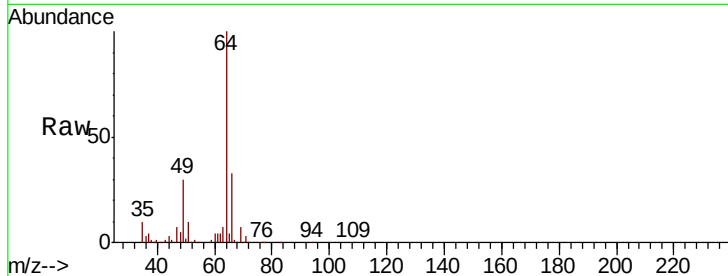
VSTD05079

Tot Ion: 64 Resp: 51743

Ion Ratio Lower Upper

64 100

66 33.0 21.8 40.4



#9

Trichlorofluoromethane

Concen: 48.047 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV017428.D

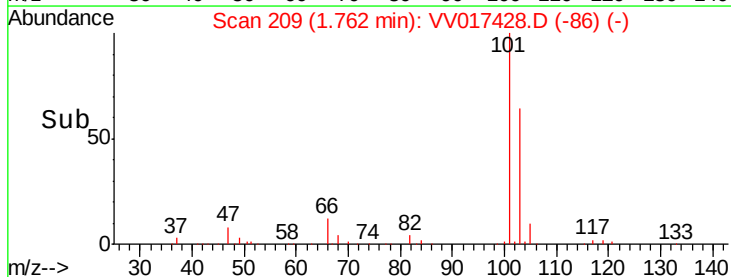
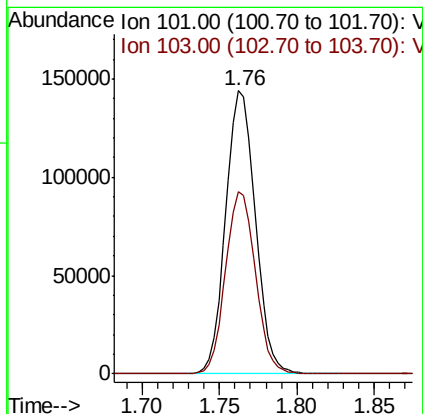
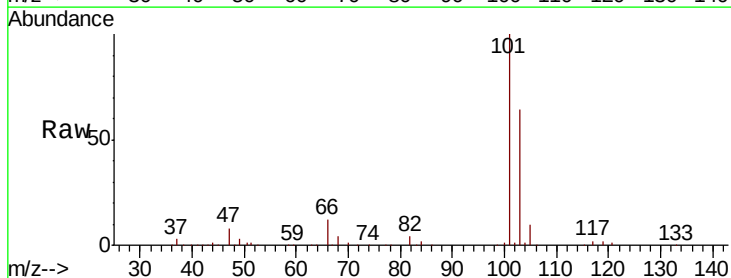
Acq: 10 Jul 2020 04:02

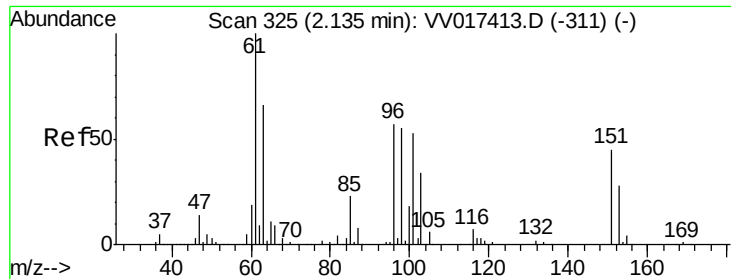
Tgt Ion: 101 Resp: 191087

Ion Ratio Lower Upper

101 100

103 64.9 51.9 77.9





#10

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

Concen: 46.842 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

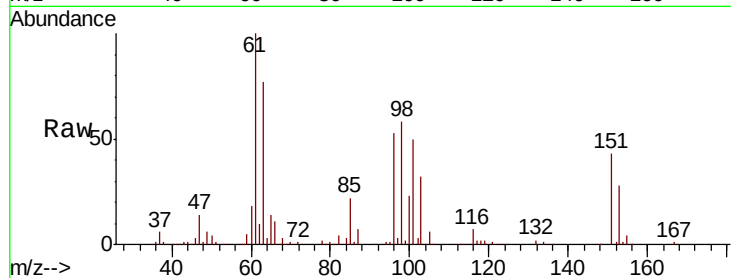
Tot Ion:101 Resp: 86476

Ion Ratio Lower Upper

101 100

85 44.4 36.2 54.4

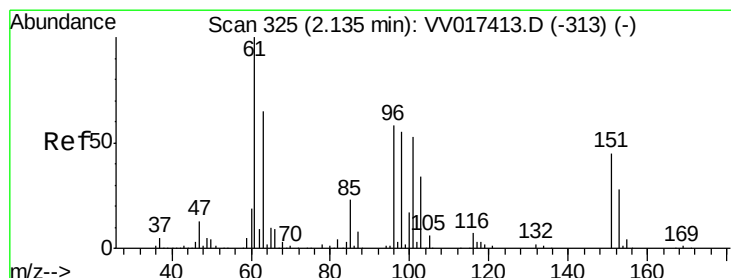
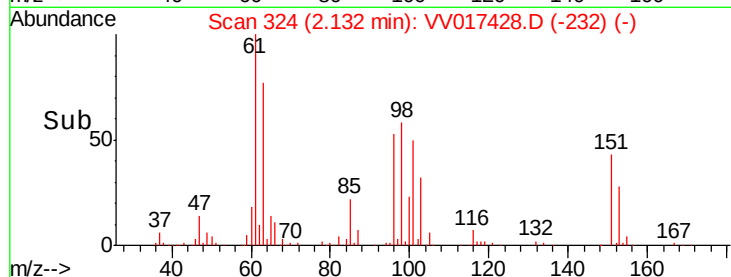
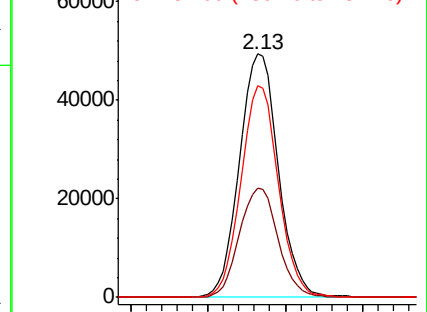
151 83.5 66.8 100.2



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: 46.753 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

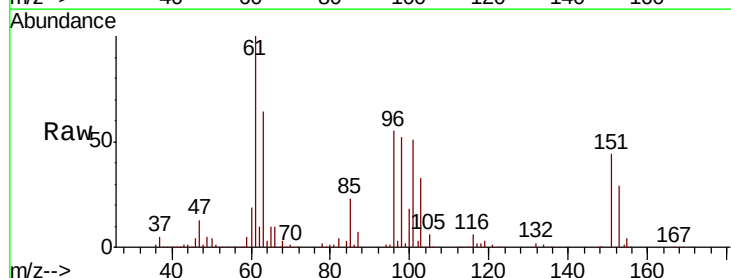
Tgt Ion: 96 Resp: 78066

Ion Ratio Lower Upper

96 100

61 182.9 132.7 246.4

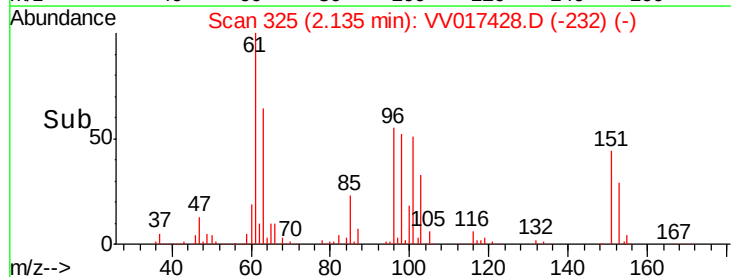
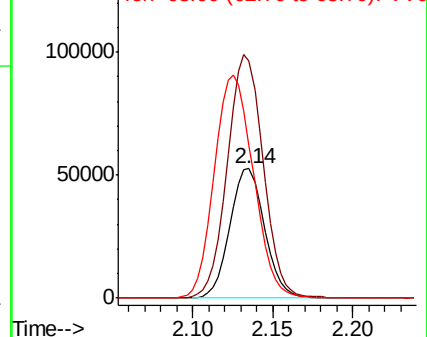
63 117.5 103.3 191.8

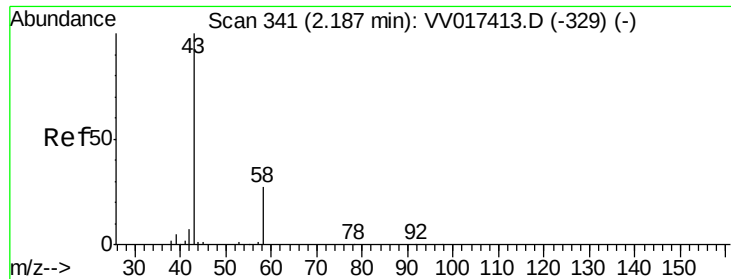


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 64.377 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

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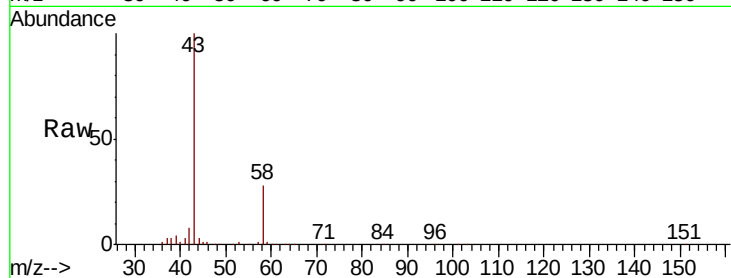
VSTD05079

Tot Ion: 43 Resp: 86626

Ion Ratio Lower Upper

43 100

58 27.6 0.0 56.0



Abundance Ion 43.00 (42.70 to 43.70): VV017413.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV017413.D (-329) (-)

2.19

50000

40000

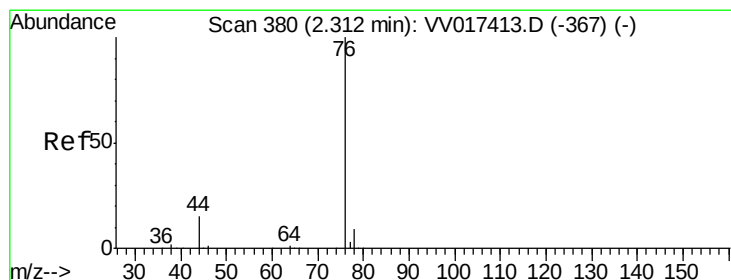
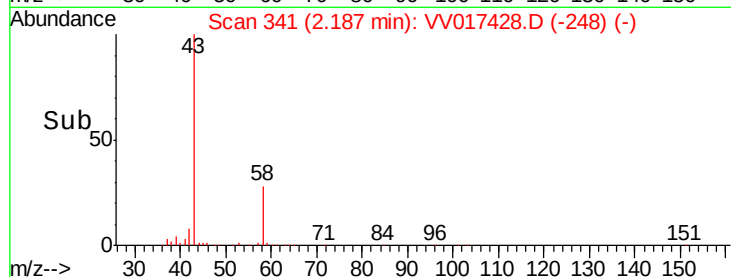
30000

20000

10000

0

Time-->



#14

Carbon disulfide

Concen: 44.443 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV017428.D

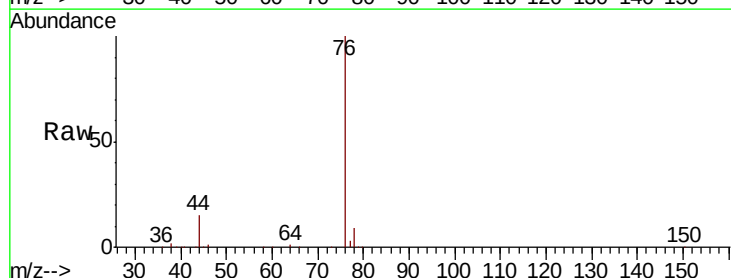
Acq: 10 Jul 2020 04:02

Tgt Ion: 76 Resp: 225865

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV017413.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VV017413.D (-367) (-)

2.31

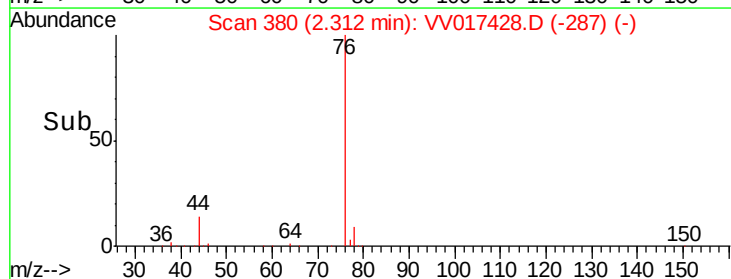
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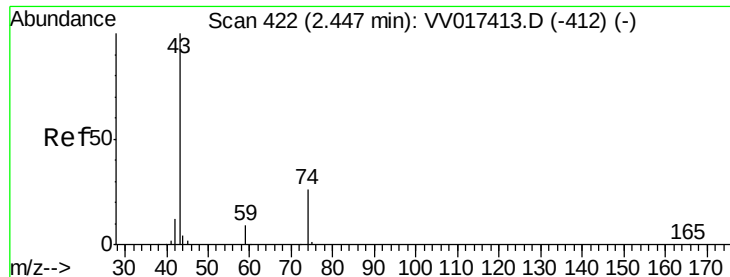
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50000

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Time-->

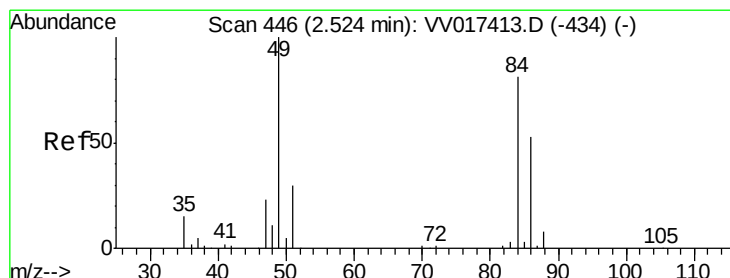
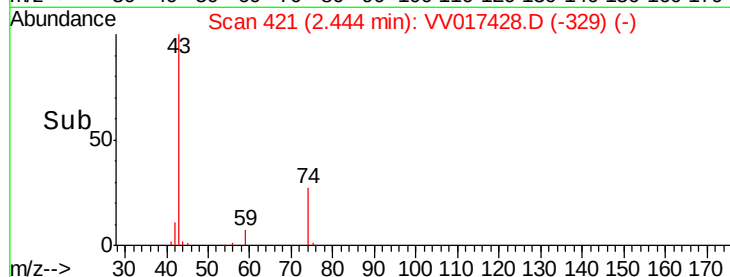
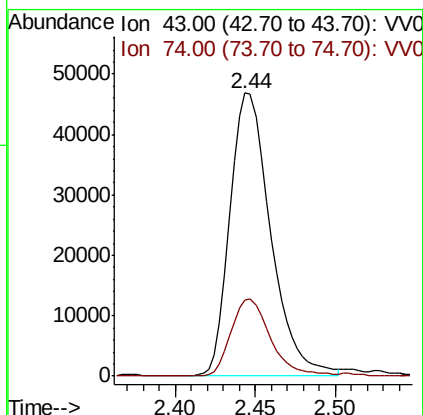
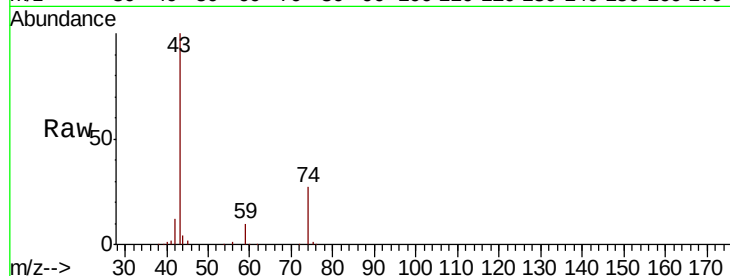




#15
Methvl Acetate
Concen: 45.381 ug/L
RT: 2.44 min Scan# 421
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

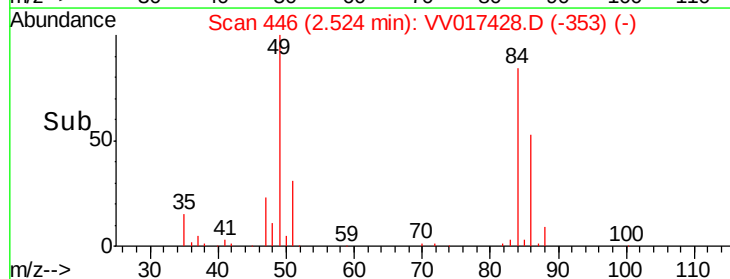
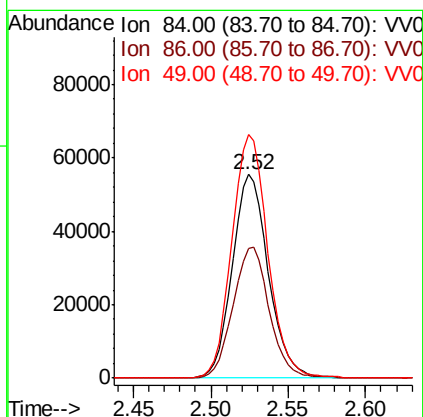
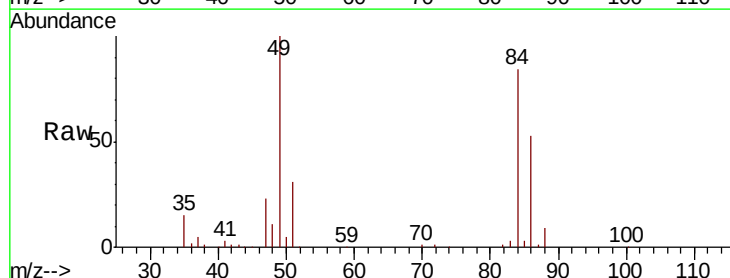
Instrument :
MSVOA_V
ClientSampleId :
VSTD05079

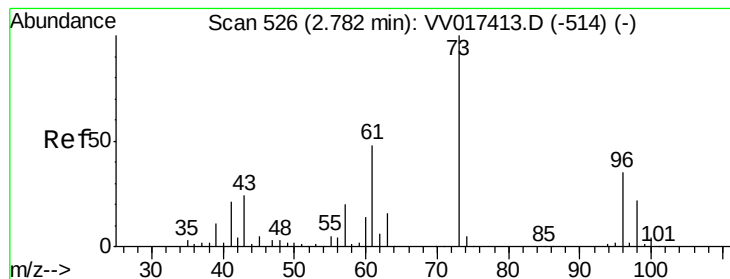
Tot Ion: 43 Resp: 81057
Ion Ratio Lower Upper
43 100
74 26.5 20.2 30.4



#16
Methylene chloride
Concen: 46.163 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

Tgt Ion: 84 Resp: 89741
Ion Ratio Lower Upper
84 100
86 63.9 46.5 86.5
49 119.6 85.3 158.5





#17

trans-1,2-Dichloroethene

Concen: 45.870 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

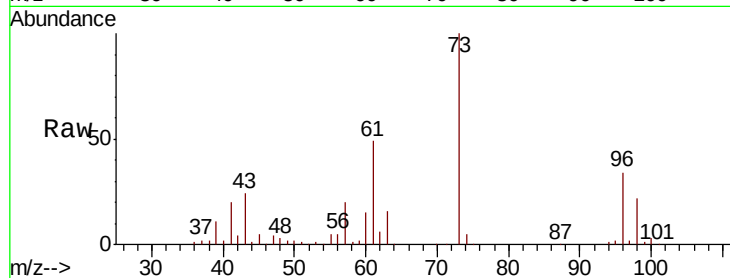
Tot Ion: 96 Resp: 83290

Ion Ratio Lower Upper

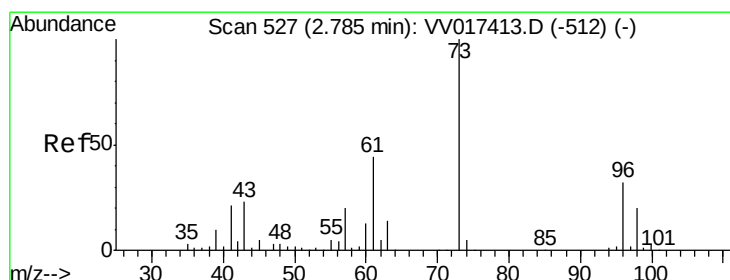
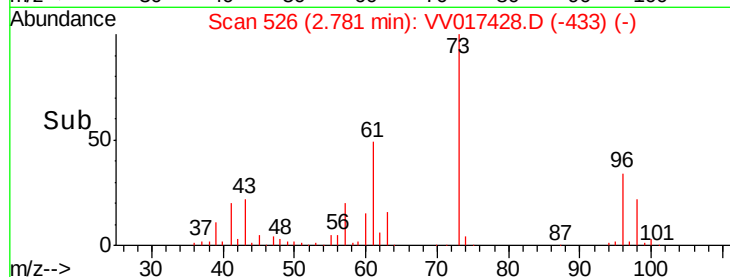
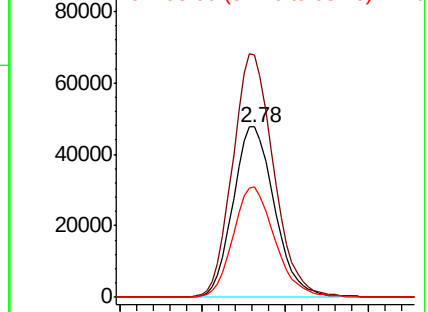
96 100

61 142.4 99.0 184.0

98 64.5 44.4 82.5



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



#18

Methyl tert-butyl Ether

Concen: 48.766 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

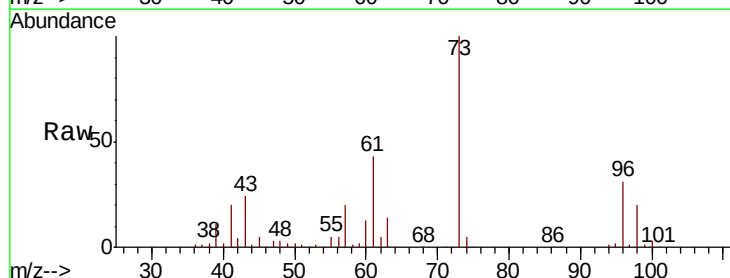
Tgt Ion: 73 Resp: 295413

Ion Ratio Lower Upper

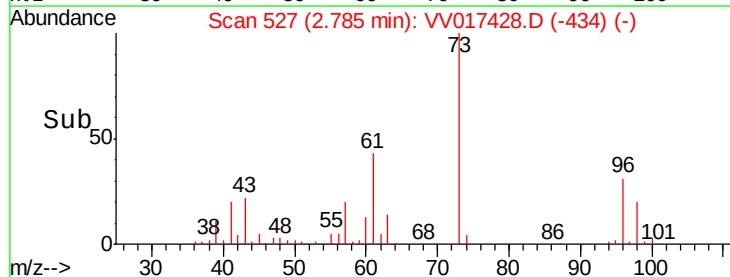
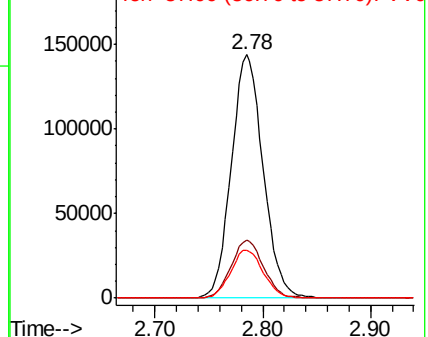
73 100

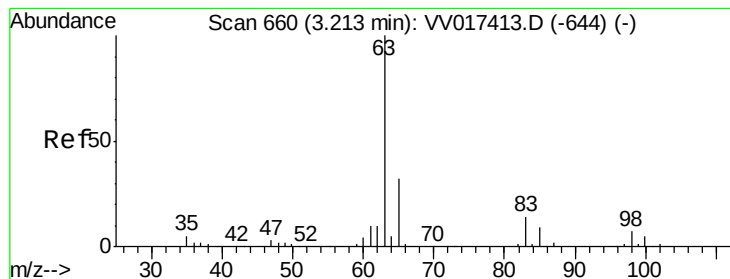
43 24.6 18.2 27.2

57 20.3 16.2 24.4



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





#19

1,1-Dichloroethane

Concen: 47.869 ug/L

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

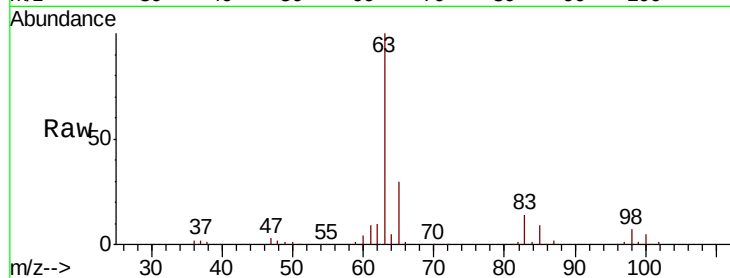
Tot Ion: 63 Resp: 159827

Ion Ratio Lower Upper

63 100

65 30.0 22.1 41.1

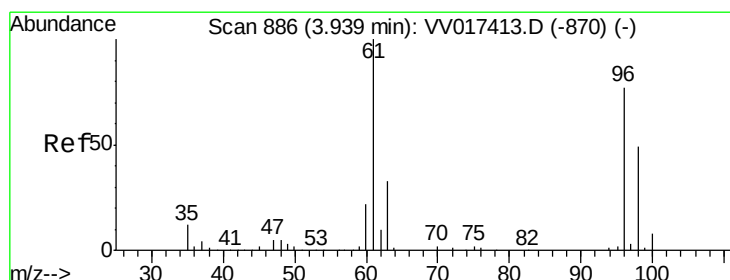
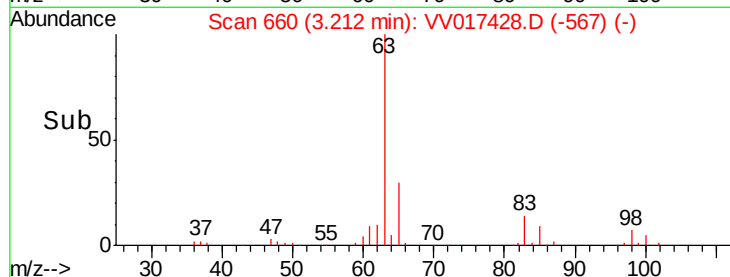
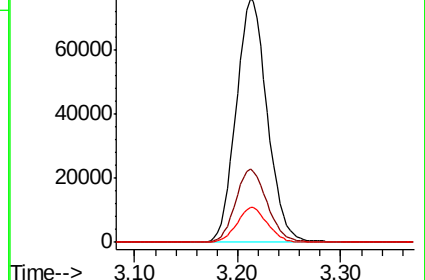
83 14.2 10.1 18.9



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: 46.969 ug/L

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

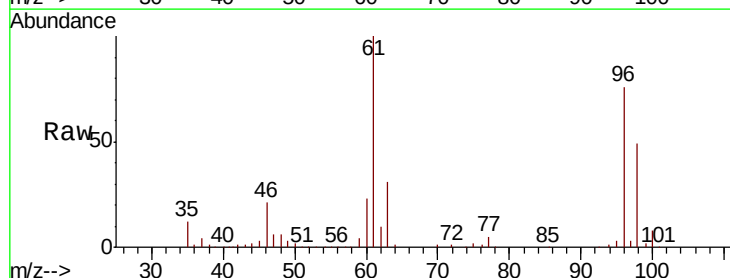
Tgt Ion: 96 Resp: 91381

Ion Ratio Lower Upper

96 100

61 131.7 88.9 165.1

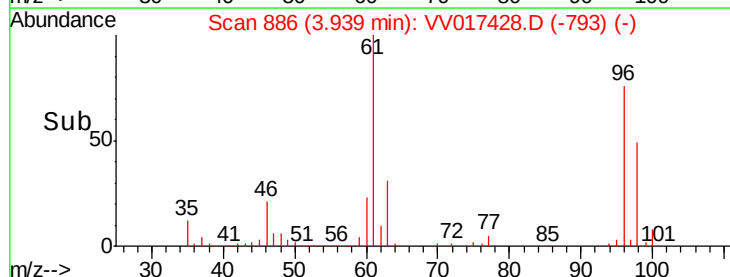
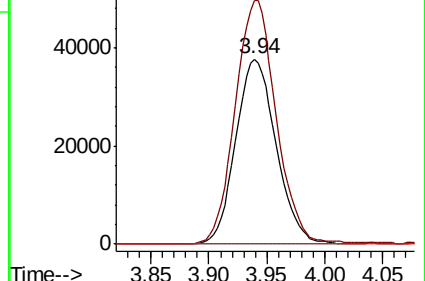
68 0.0 0.0 0.0

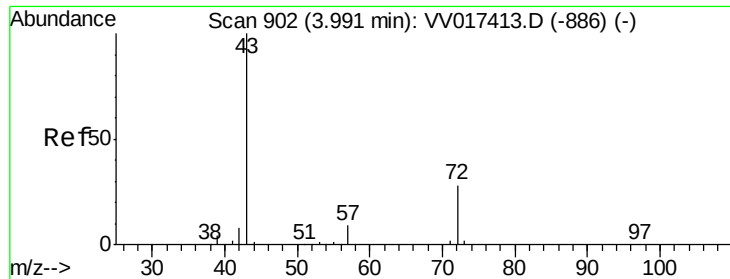


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 87.944 ug/L

RT: 3.98 min Scan# 900

Delta R.T. -0.01 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

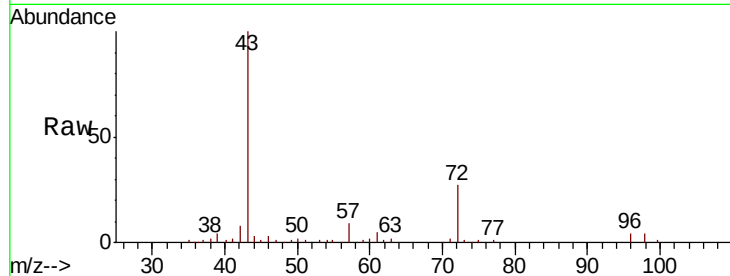
VSTD05079

Tot Ion: 43 Resp: 115675

Ion Ratio Lower Upper

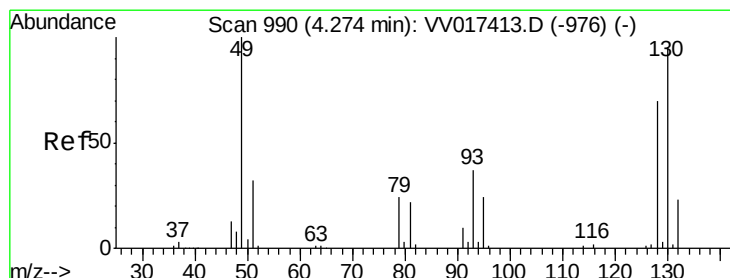
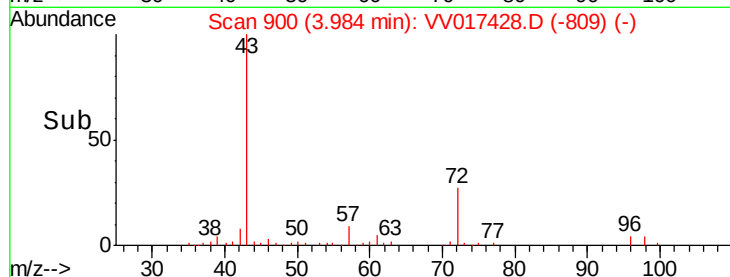
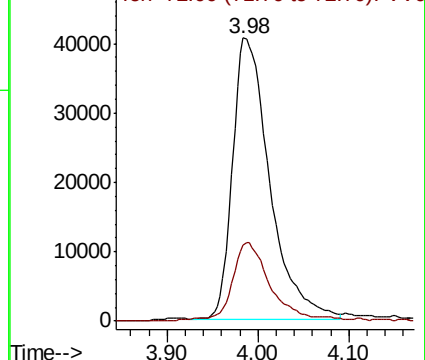
43 100

72 27.2 11.9 35.5



Abundance Ion 43.00 (42.70 to 43.70): VV017413.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV017413.D (-886) (-)



#23

Bromochloromethane

Concen: 47.242 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Tgt Ion:128 Resp: 51142

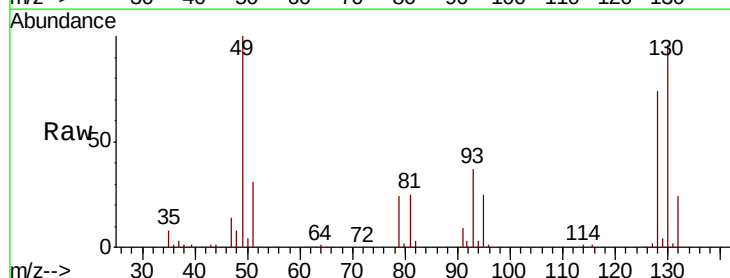
Ion Ratio Lower Upper

128 100

49 135.2 96.7 179.5

130 130.4 88.3 164.1

51 41.4 36.1 54.1

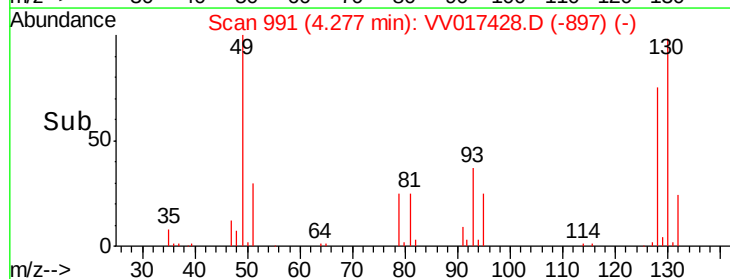
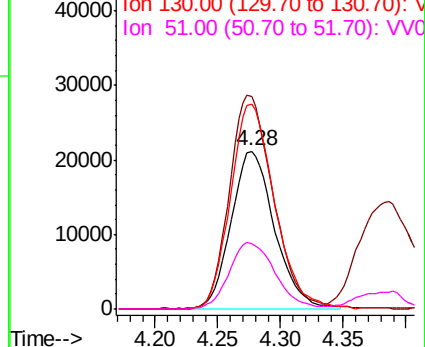


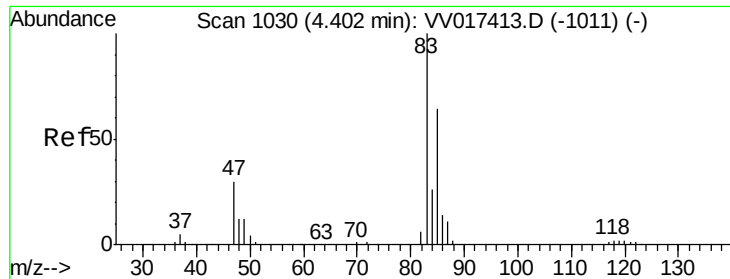
Abundance Ion 128.00 (127.70 to 128.70): VV017413.D (-976) (-)

Ion 49.00 (48.70 to 49.70): VV017413.D (-976) (-)

Ion 130.00 (129.70 to 130.70): VV017413.D (-976) (-)

Ion 51.00 (50.70 to 51.70): VV017413.D (-976) (-)

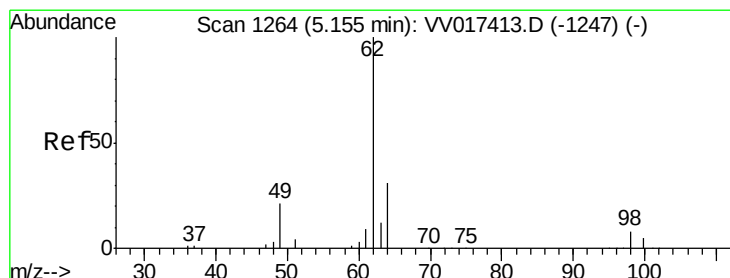
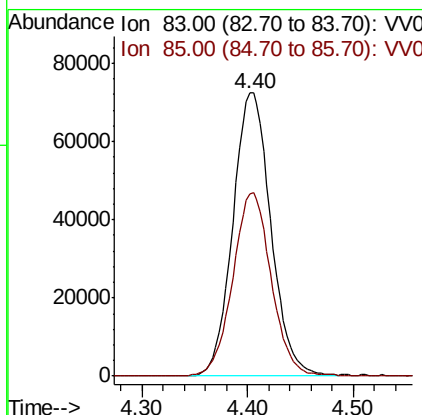
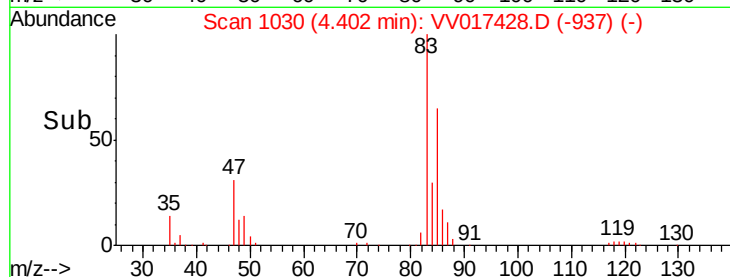
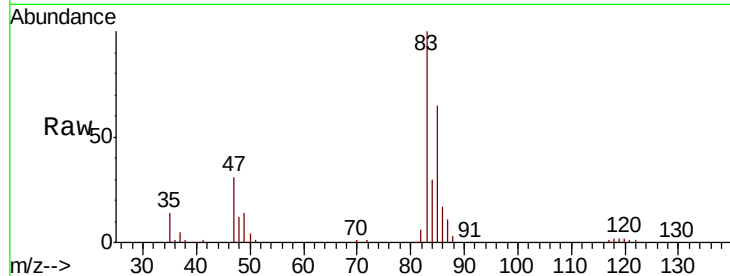




#25
Chloroform
Concen: 48.145 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

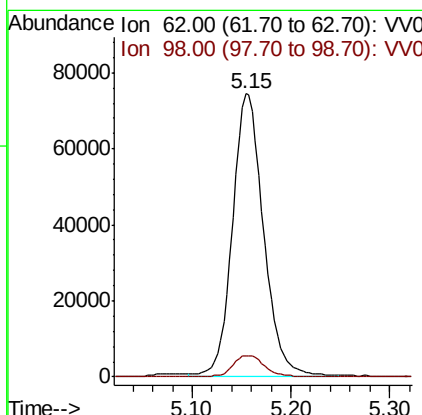
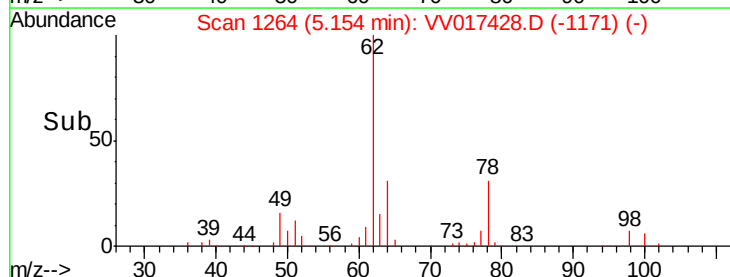
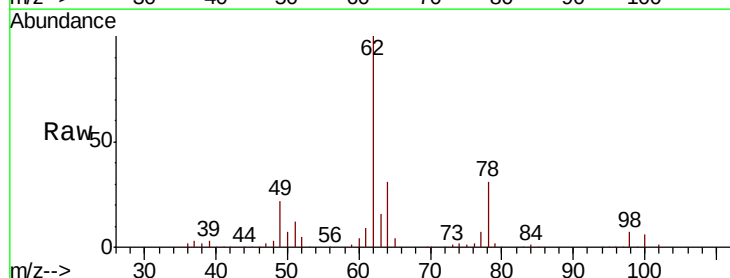
Instrument :
MSVOA_V
ClientSampleId :
VSTD05079

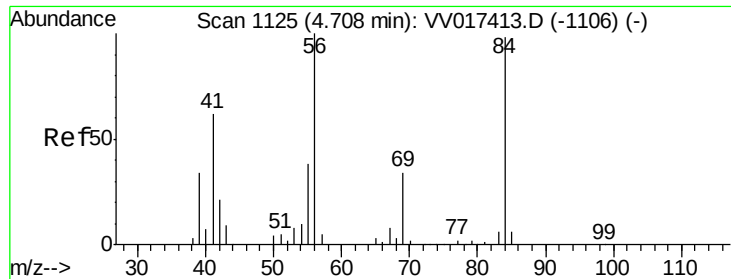
Tot Ion: 83 Resp: 180431
Ion Ratio Lower Upper
83 100
85 64.6 45.1 83.9



#27
1,2-Dichloroethane
Concen: 49.326 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

Tgt Ion: 62 Resp: 162485
Ion Ratio Lower Upper
62 100
98 7.4 6.4 9.6

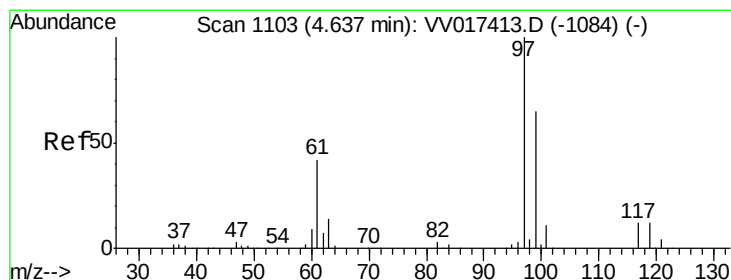
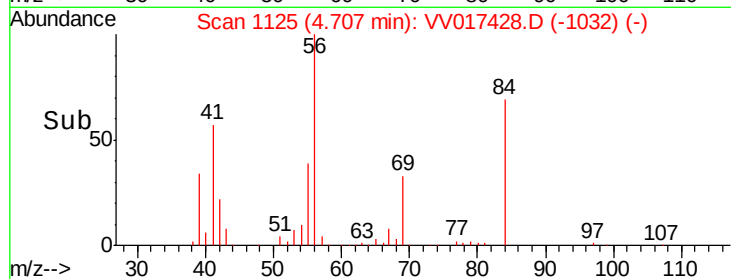
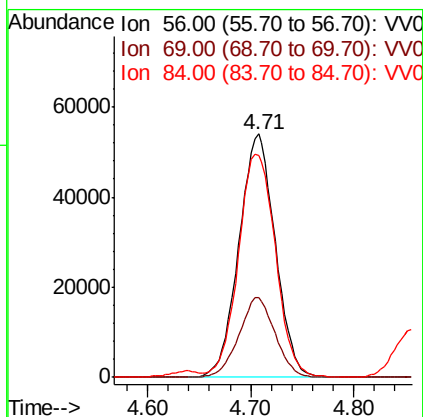
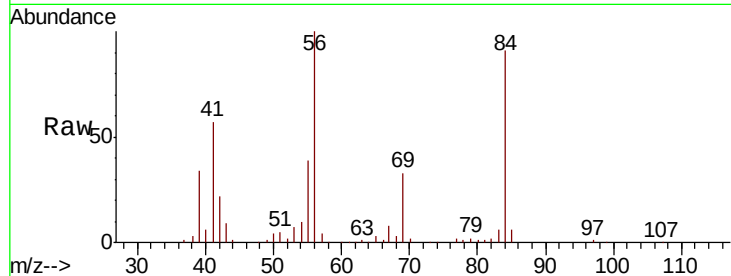




#29
Cyclohexane
Concen: 47.819 ug/L
RT: 4.71 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

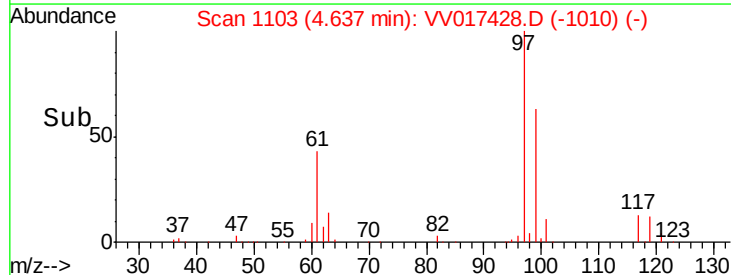
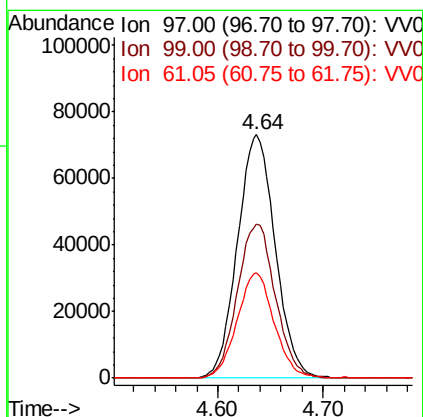
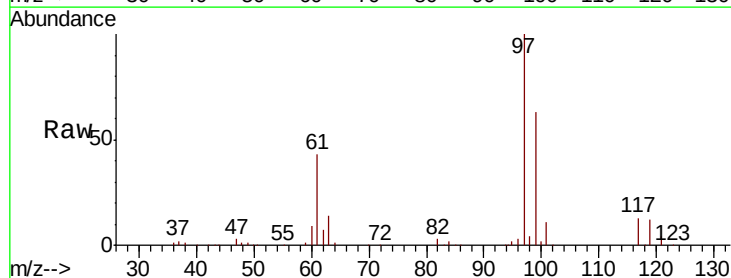
Instrument :
MSVOA_V
ClientSampleId :
VSTD05079

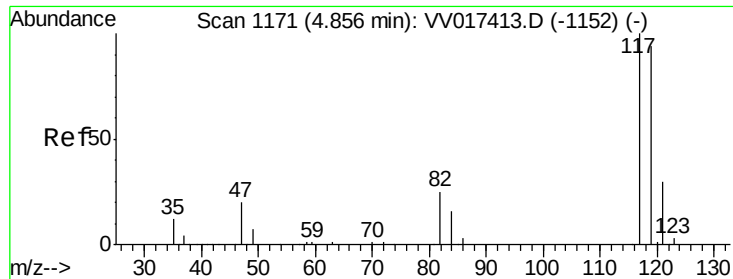
Tot Ion: 56 Resp: 131830
Ion Ratio Lower Upper
56 100
69 32.6 27.0 40.4
84 94.4 77.4 116.0



#30
1,1,1-Trichloroethane
Concen: 50.147 ug/L
RT: 4.64 min Scan# 1103
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

Tgt Ion: 97 Resp: 182302
Ion Ratio Lower Upper
97 100
99 63.6 51.3 76.9
61 42.4 34.1 51.1





#31

Carbon tetrachloride

Concen: 49.567 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

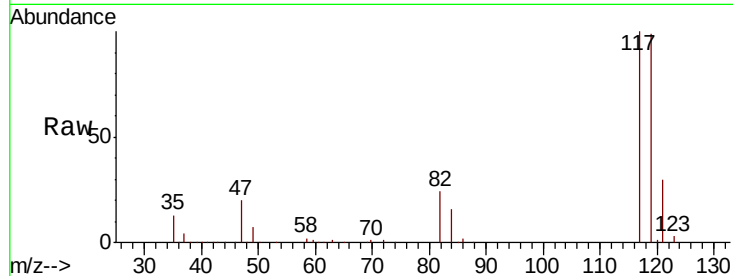
VSTD05079

Tot Ion:117 Resp: 164932

Ion Ratio Lower Upper

117 100

119 96.5 77.4 116.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.86

80000

60000

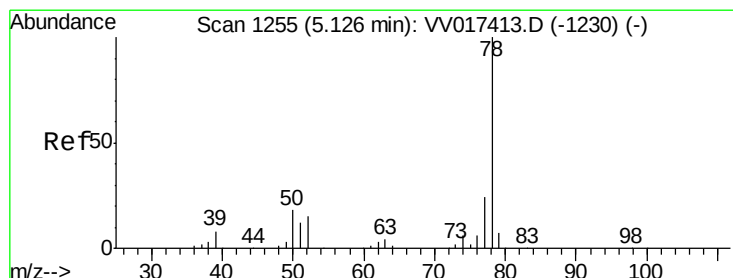
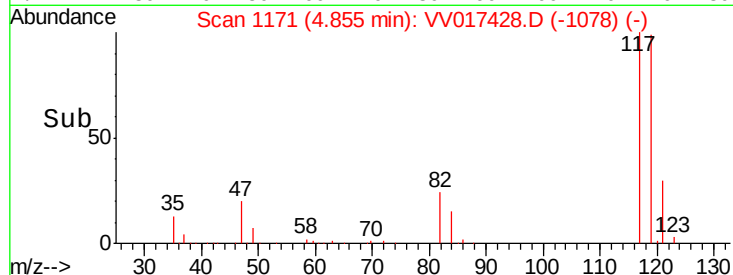
40000

20000

0

4.75 4.80 4.85 4.90 4.95

Time-->



#33

Benzene

Concen: 48.665 ug/L

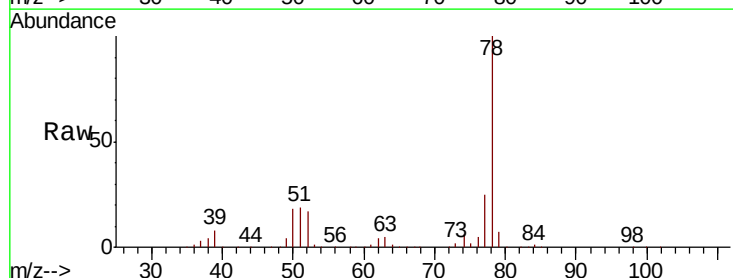
RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Tgt Ion: 78 Resp: 340075



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.13

150000

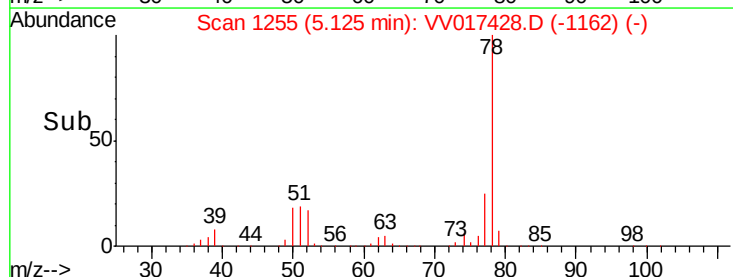
100000

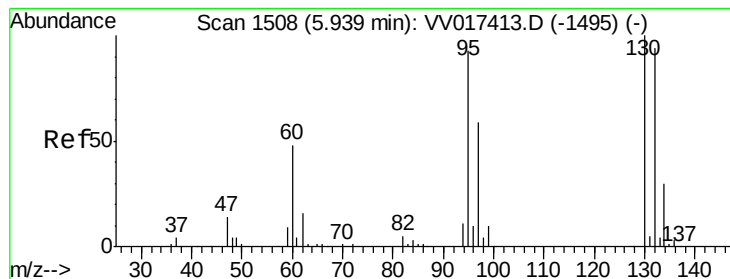
50000

0

5.00 5.10 5.20

Time-->





#34

Trichloroethene

Concen: 46.885 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

Tot Ion: 95 Resp: 97274

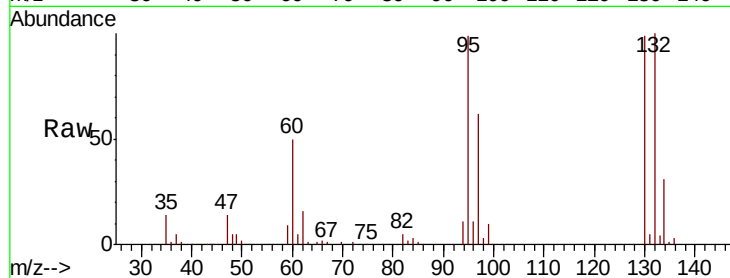
Ion Ratio Lower Upper

95 100

97 62.2 45.6 84.6

132 100.9 74.1 137.5

130 99.9 75.5 140.3

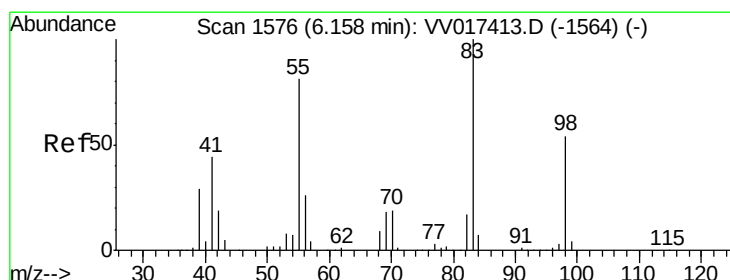
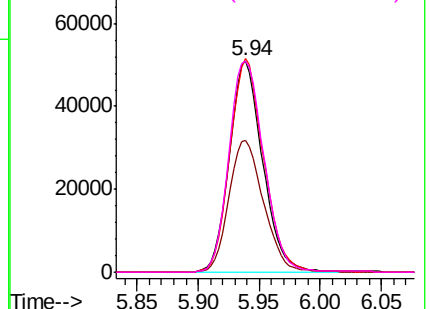
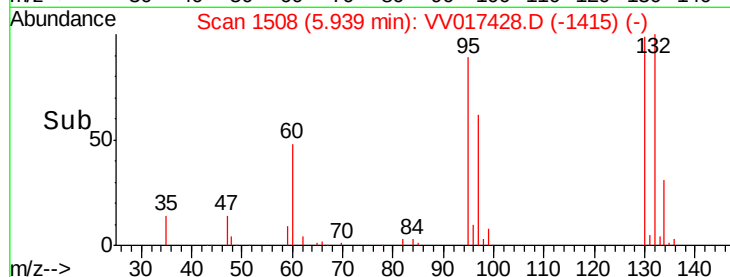


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 47.193 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

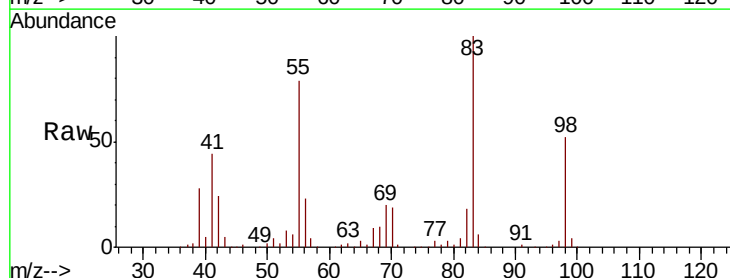
Tgt Ion: 83 Resp: 143380

Ion Ratio Lower Upper

83 100

55 76.6 61.0 91.6

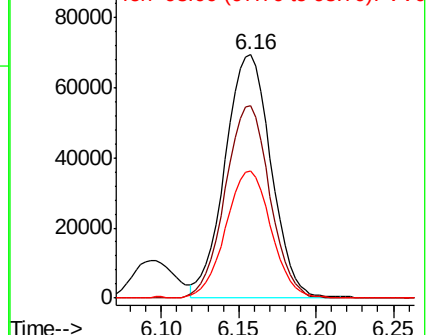
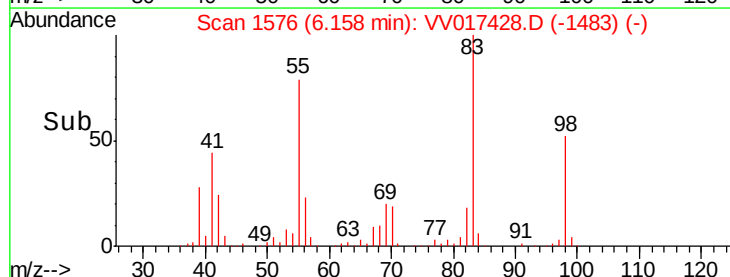
98 51.8 41.3 61.9

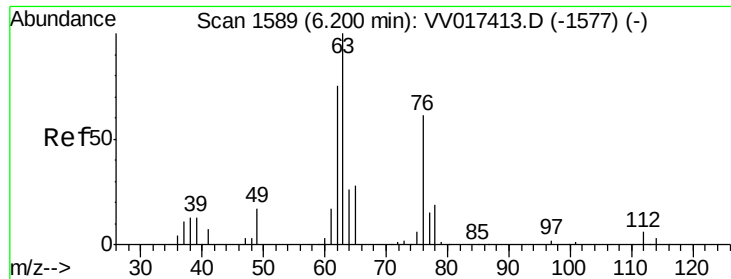


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

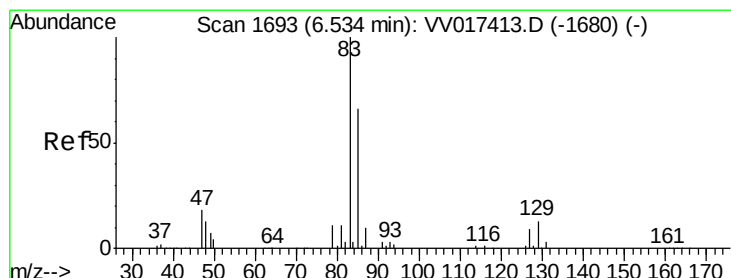
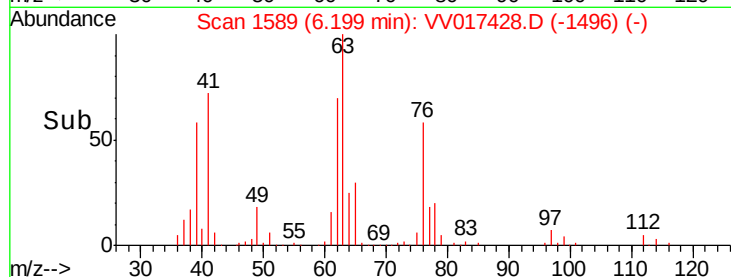
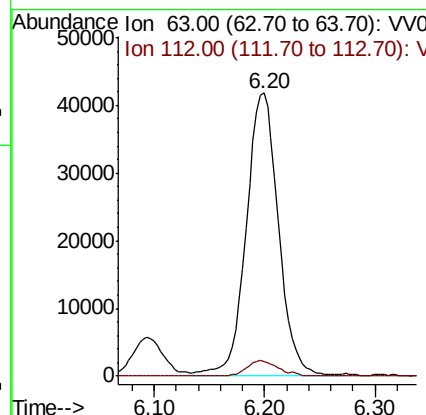
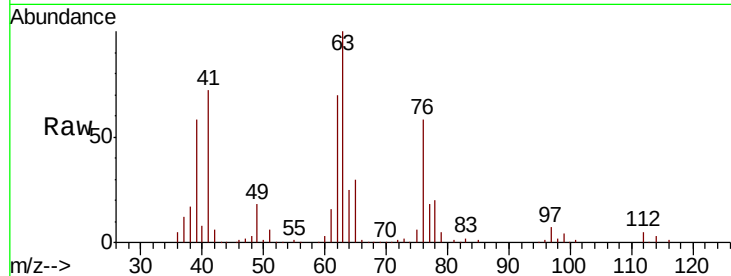




#37
 1,2-Dichloropropane
 Concen: 49.718 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

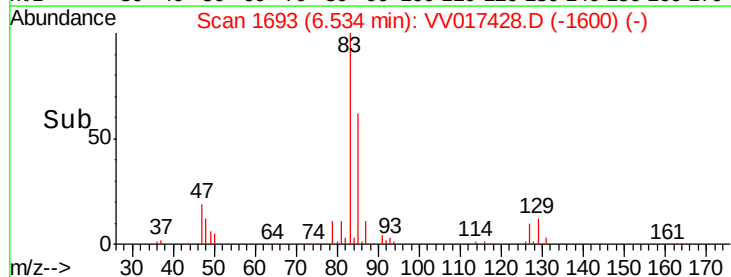
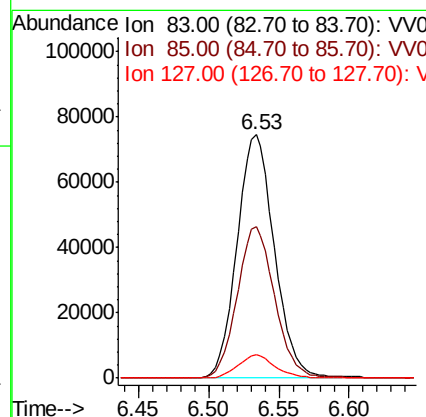
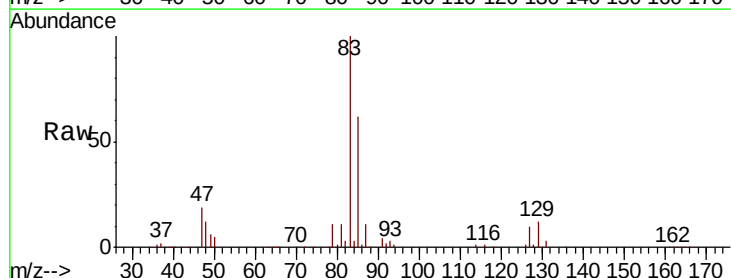
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

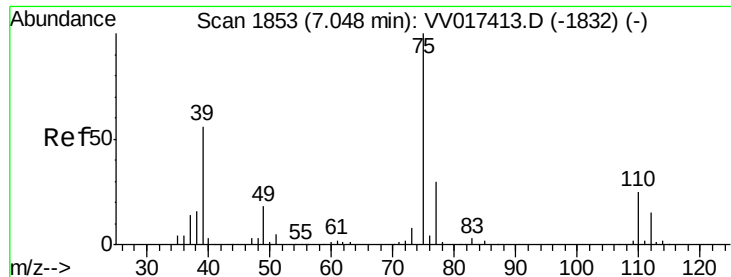
Tot Ion: 63 Resp: 84978
 Ion Ratio Lower Upper
 63 100
 112 5.0 4.4 6.6



#38
 Bromodichloromethane
 Concen: 49.719 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion: 83 Resp: 138375
 Ion Ratio Lower Upper
 83 100
 85 62.0 44.6 82.8
 127 9.7 7.4 11.2

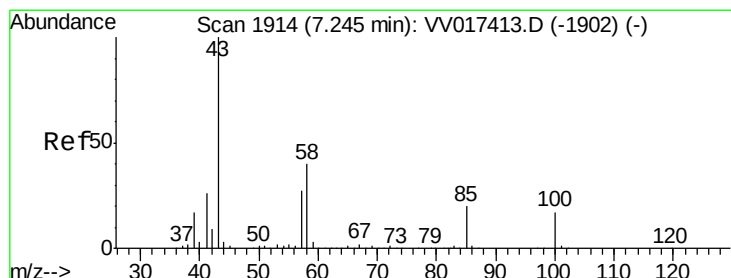
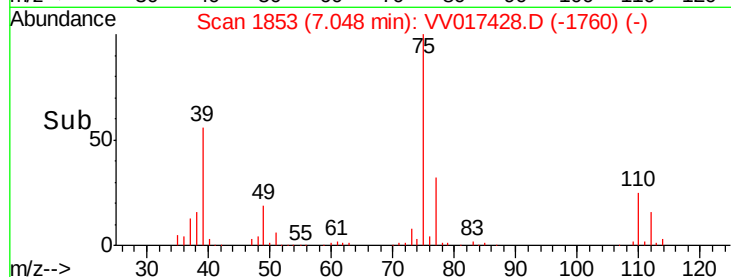
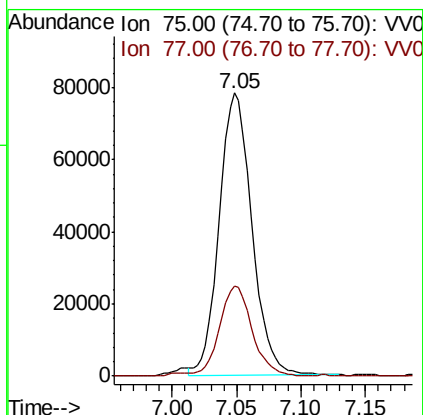
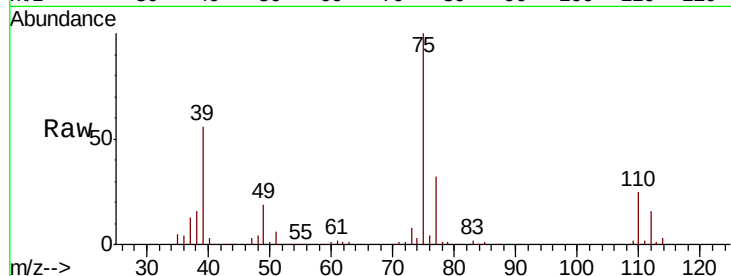




#39
 cis-1,3-Dichloropropene
 Concen: 47.465 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

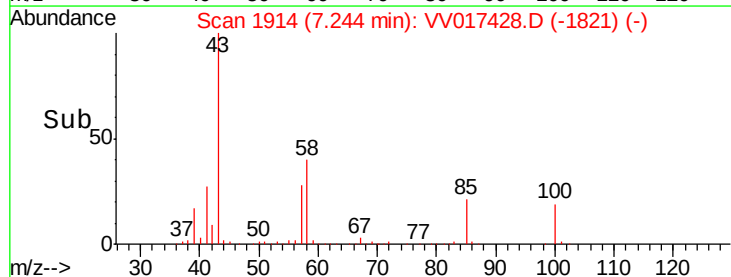
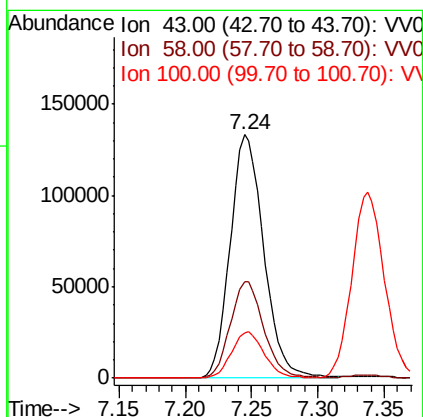
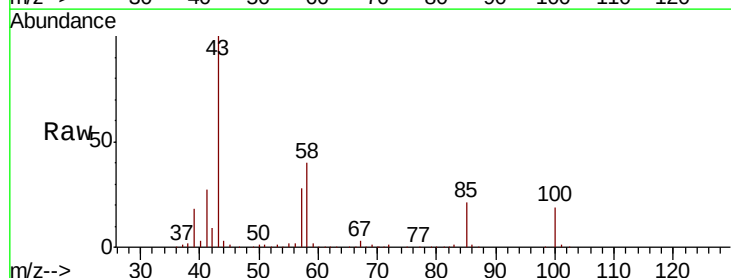
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

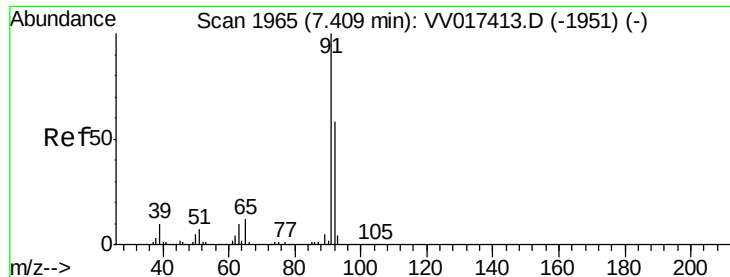
Tot Ion: 75 Resp: 138254
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 99.147 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion: 43 Resp: 234324
 Ion Ratio Lower Upper
 43 100
 58 39.7 32.2 48.4
 100 18.6 14.1 21.1





#42

Toluene

Concen: 48.772 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

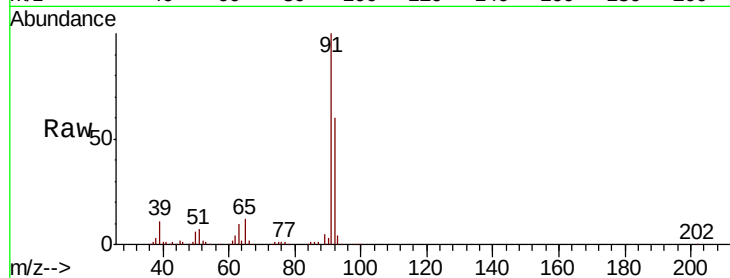
VSTD05079

Tot Ion: 91 Resp: 380945

Ion Ratio Lower Upper

91 100

92 59.7 40.8 75.8



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

250000

200000

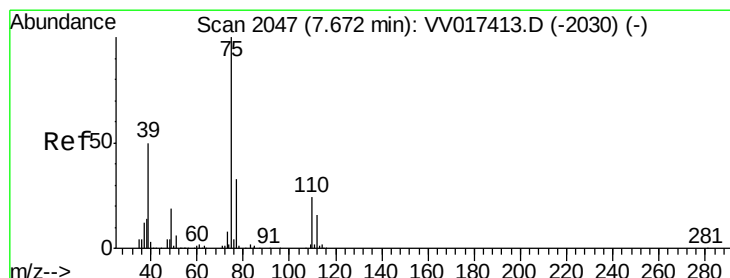
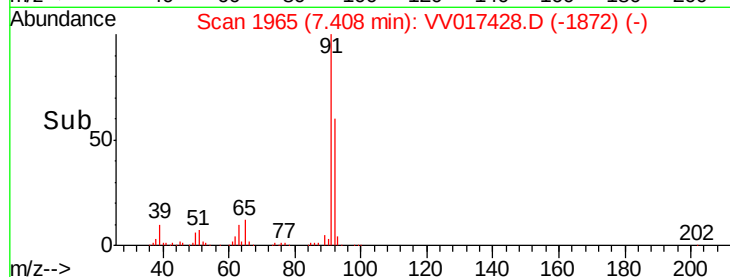
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 48.101 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.00 min

Lab File: VV017428.D

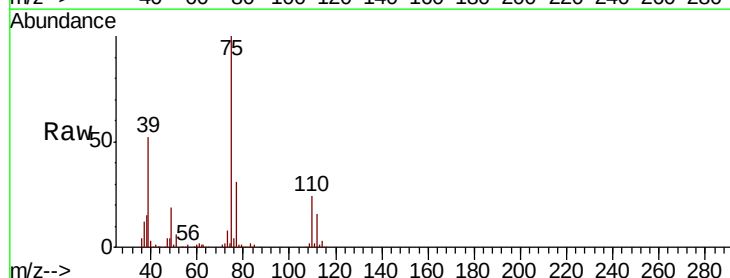
Acq: 10 Jul 2020 04:02

Tgt Ion: 75 Resp: 144913

Ion Ratio Lower Upper

75 100

77 31.3 21.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

100000

80000

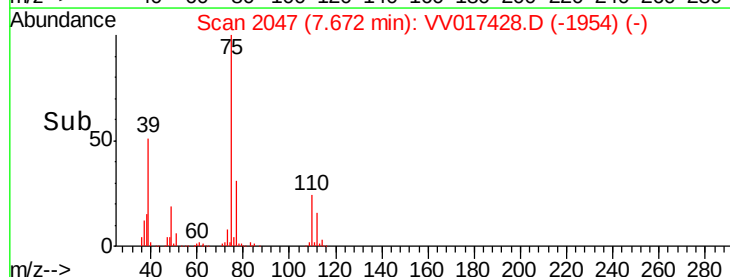
60000

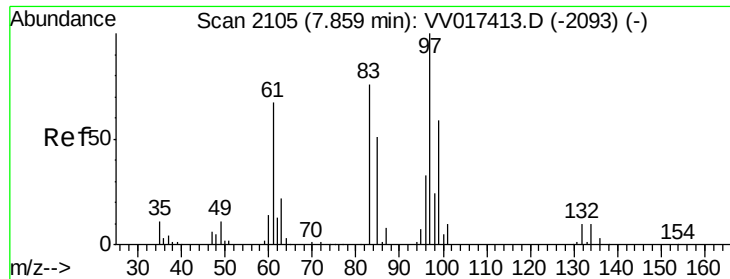
40000

20000

0

Time-->

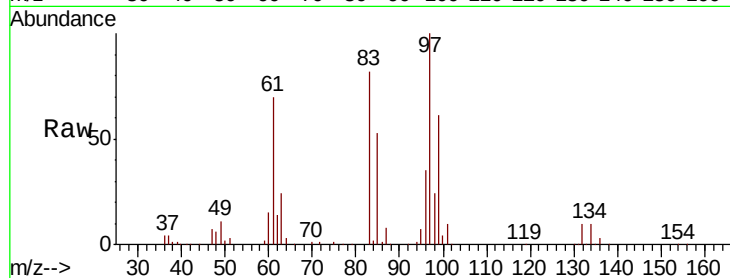




#45
 1,1,2-Trichloroethane
 Concen: 47.937 ug/L
 RT: 7.86 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

Tot Ion:	97	Resp:	88899
Ion	Ratio	Lower	Upper
97	100		
99	61.4	44.6	82.8
83	82.1	60.1	111.7
85	52.7	39.0	72.4



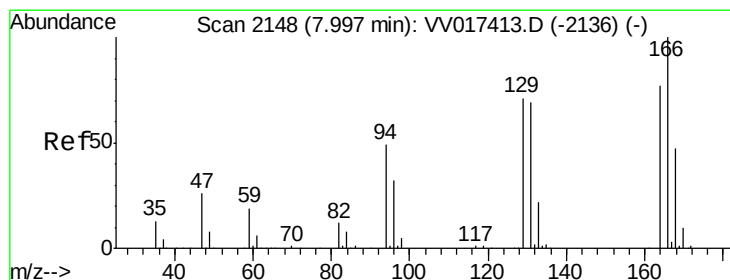
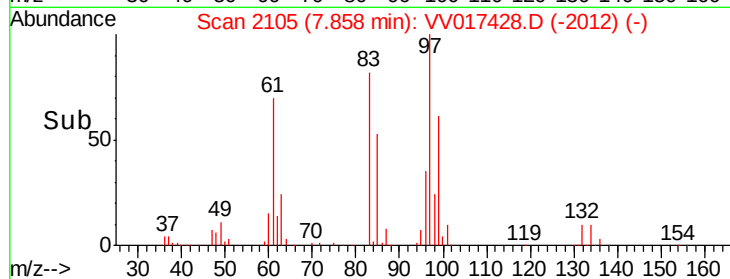
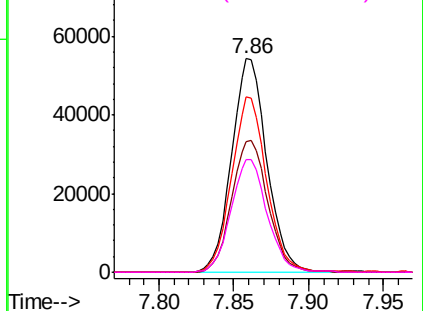
Abundance

Ion 97.00 (96.70 to 97.70): VV017428.D (-2093) (-)

Ion 99.00 (98.70 to 99.70): VV017428.D (-2093) (-)

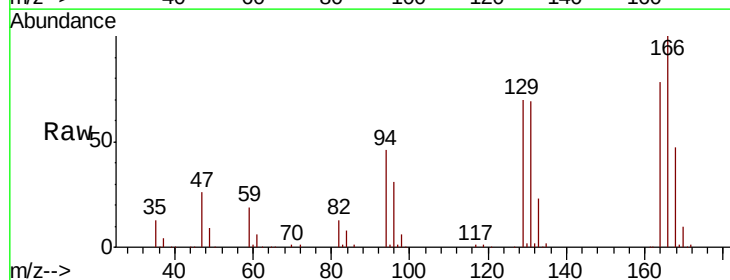
Ion 83.00 (82.70 to 83.70): VV017428.D (-2093) (-)

Ion 85.00 (84.70 to 85.70): VV017428.D (-2093) (-)



#46
 Tetrachloroethene
 Concen: 47.175 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion:	164	Resp:	82183
Ion	Ratio	Lower	Upper
164	100		
129	90.1	66.6	123.8
131	87.9	65.5	121.7
166	128.1	93.9	174.5



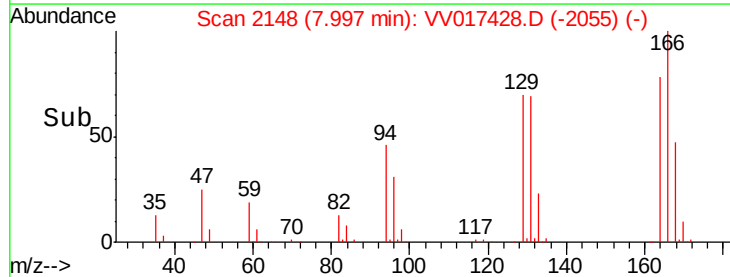
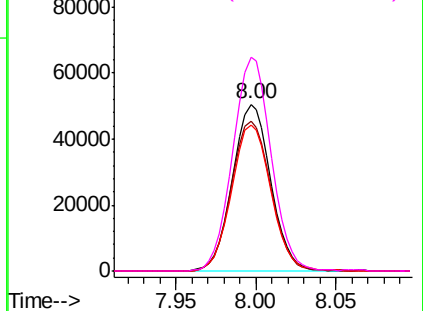
Abundance

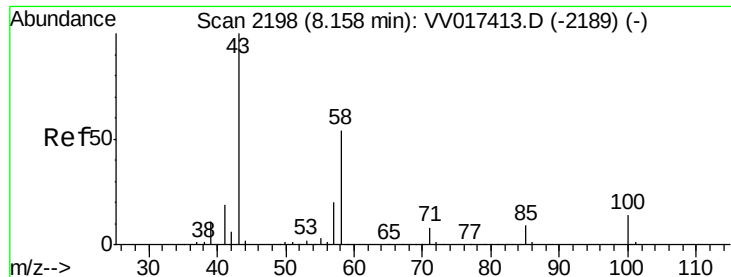
Ion 164.00 (163.70 to 164.70): VV017428.D (-2055) (-)

Ion 129.00 (128.70 to 129.70): VV017428.D (-2055) (-)

Ion 131.00 (130.70 to 131.70): VV017428.D (-2055) (-)

Ion 166.00 (165.70 to 166.70): VV017428.D (-2055) (-)

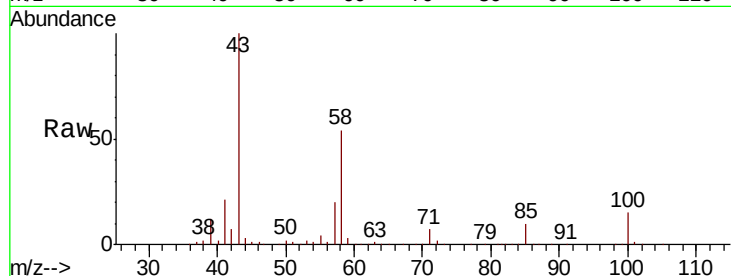




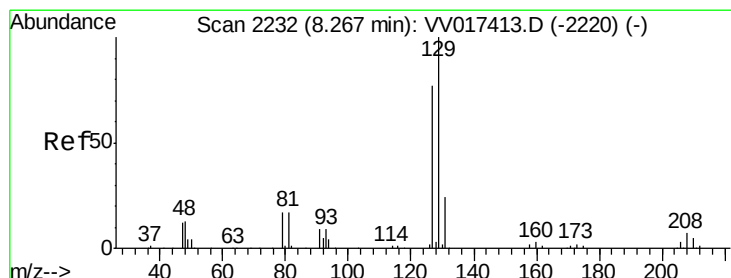
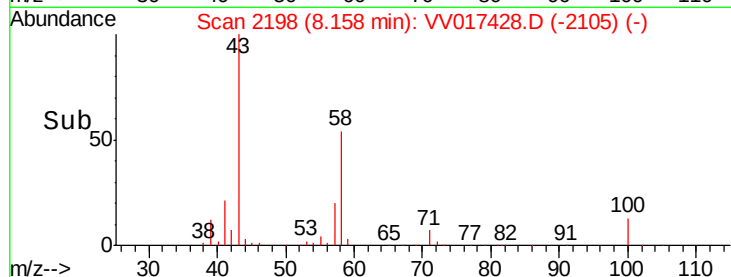
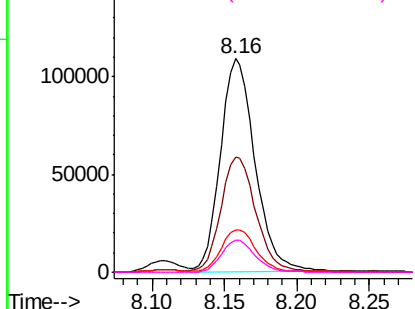
#48
2-Hexanone
Concen: 94.554 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

Instrument :
MSVOA_V
ClientSampleId :
VSTD05079

Tot Ion: 43 Resp: 180903
Ion Ratio Lower Upper
43 100
58 54.0 42.6 64.0
57 19.2 16.2 24.4
100 14.6 10.9 16.3

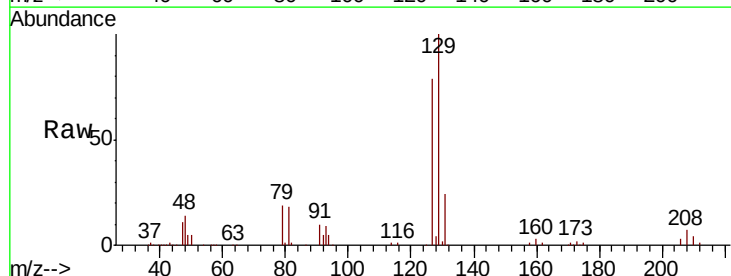


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

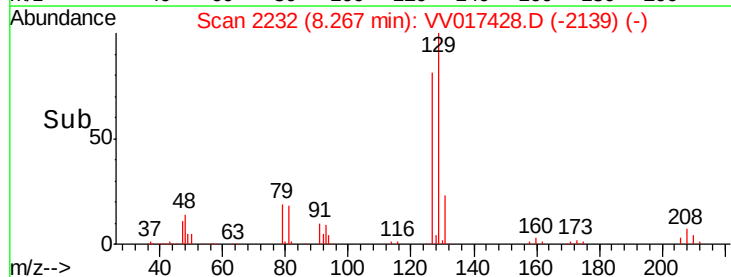
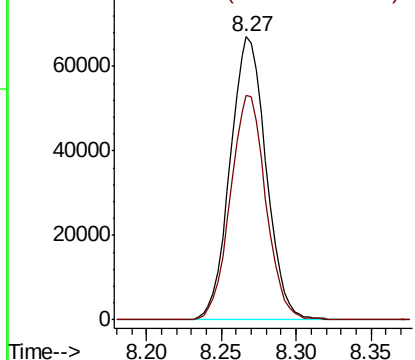


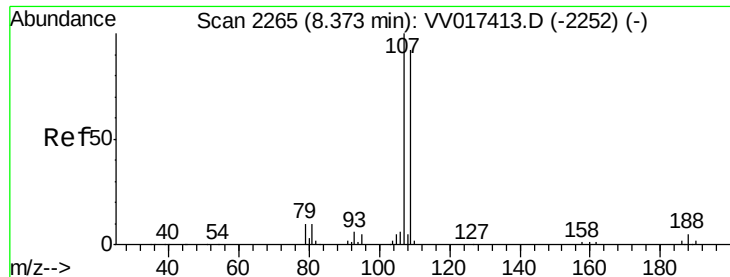
#49
Dibromochloromethane
Concen: 48.433 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV017428.D
Acq: 10 Jul 2020 04:02

Tgt Ion: 129 Resp: 112047
Ion Ratio Lower Upper
129 100
127 79.4 54.6 101.4



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

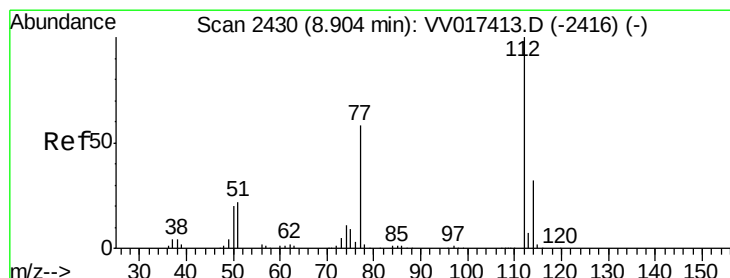
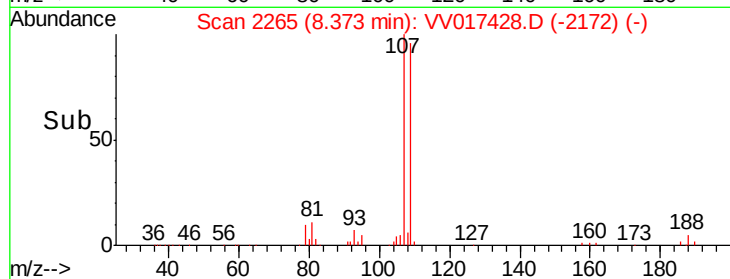
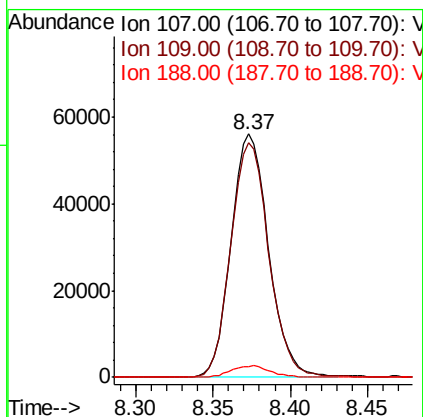
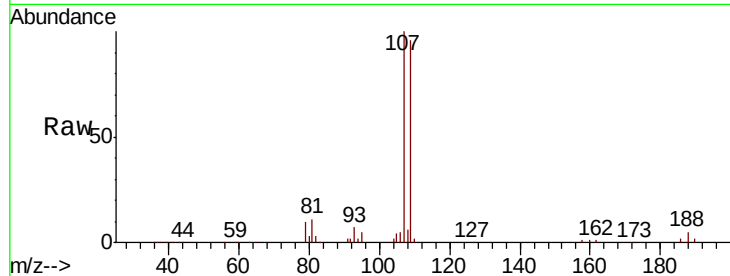




#50
 1,2-Dibromoethane
 Concen: 47.649 ug/L
 RT: 8.37 min Scan# 2265
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

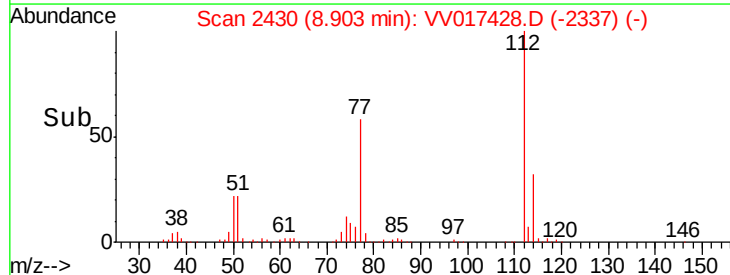
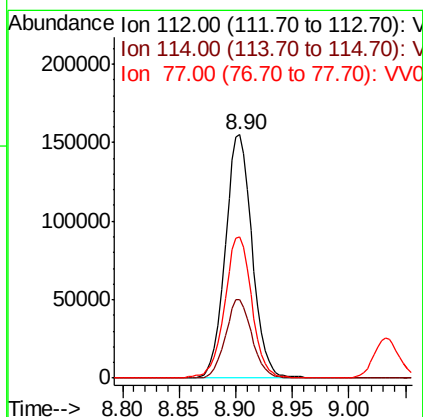
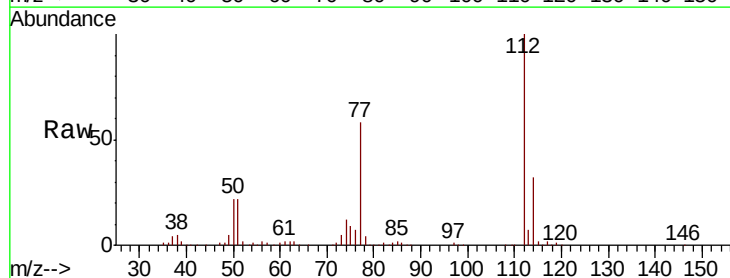
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

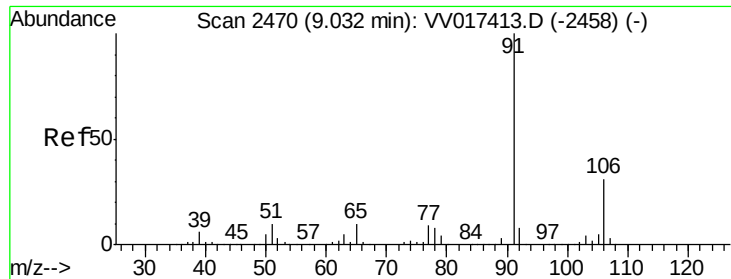
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.5	67.3	125.1
188	4.6	3.5	5.3



#51
 Chlorobenzene
 Concen: 48.247 ug/L
 RT: 8.90 min Scan# 2430
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.7	42.1
77	58.0	46.7	70.1





#52

Ethylbenzene

Concen: 48.928 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

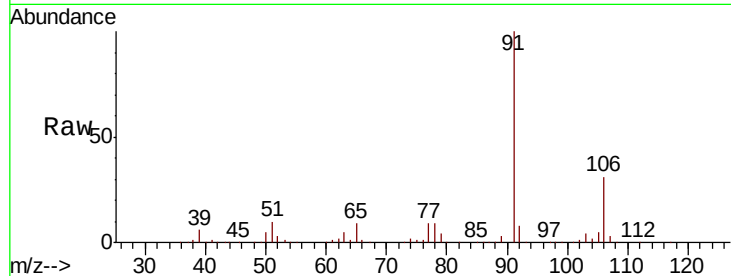
VSTD05079

Tot Ion: 91 Resp: 437122

Ion Ratio Lower Upper

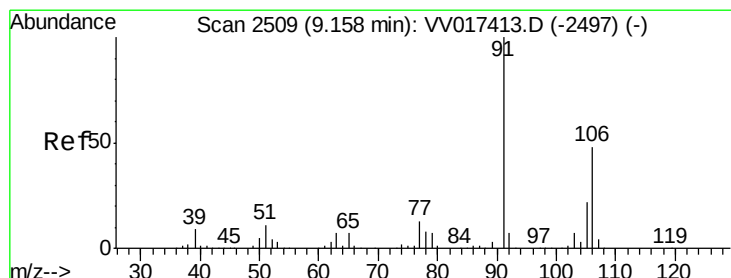
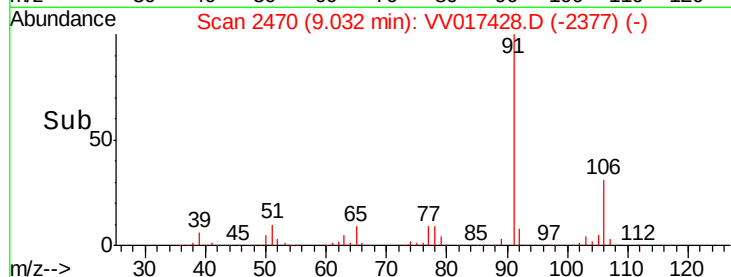
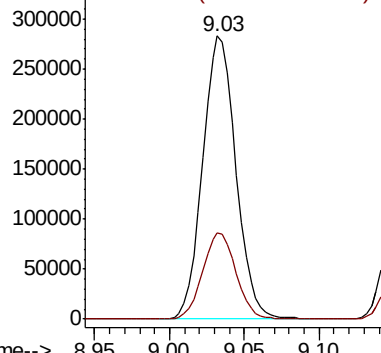
91 100

106 30.5 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 106.00 (105.70 to 106.70): V



#53

m,p-Xylene

Concen: 49.015 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017428.D

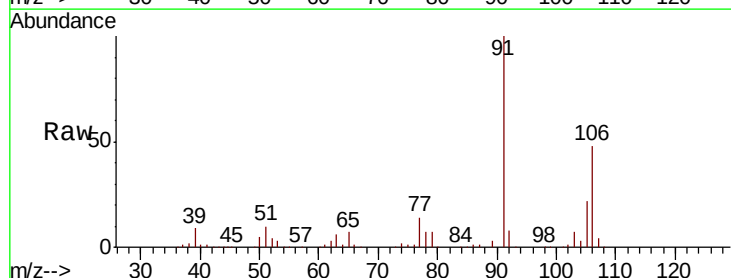
Acq: 10 Jul 2020 04:02

Tgt Ion: 106 Resp: 163944

Ion Ratio Lower Upper

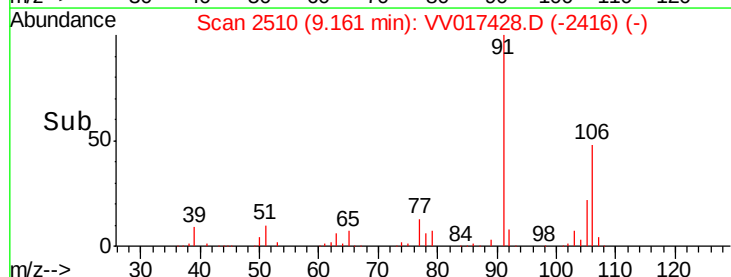
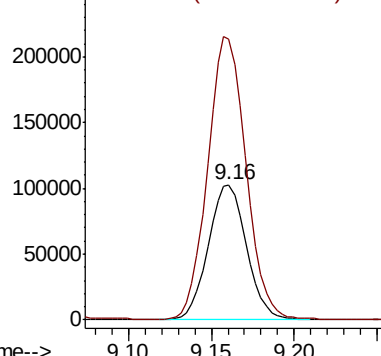
106 100

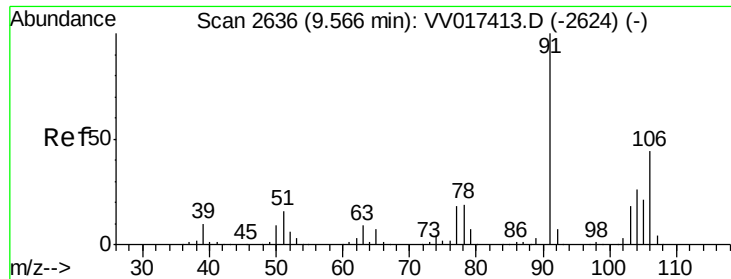
91 208.1 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#54

o-xylene

Concen: 51.055 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampled :

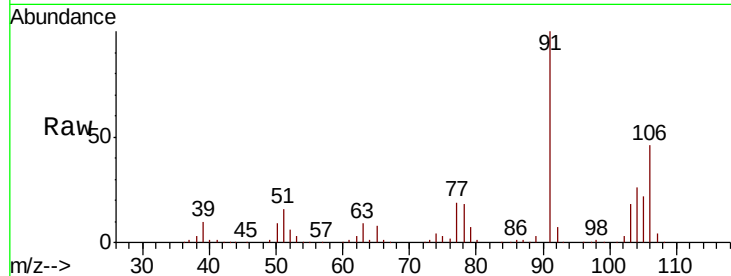
VSTD05079

Tot Ion:106 Resp: 164027

Ion Ratio Lower Upper

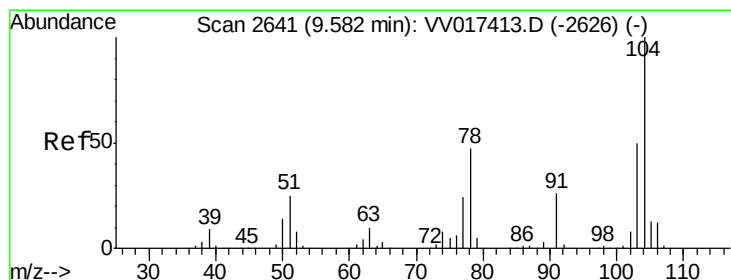
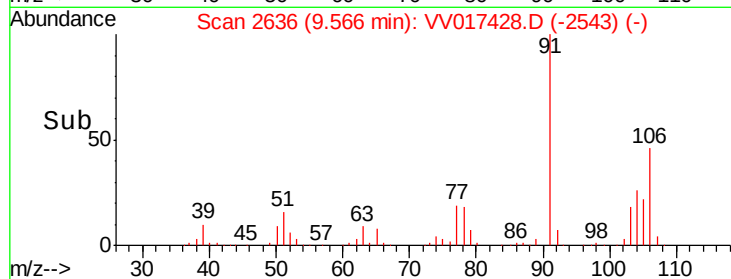
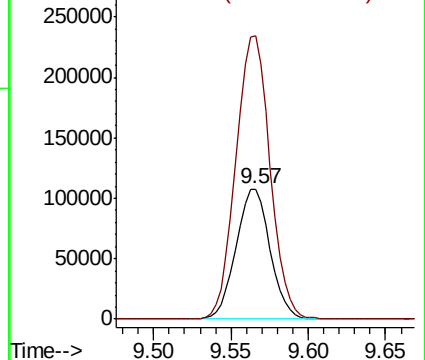
106 100

91 217.6 155.6 289.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 50.209 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV017428.D

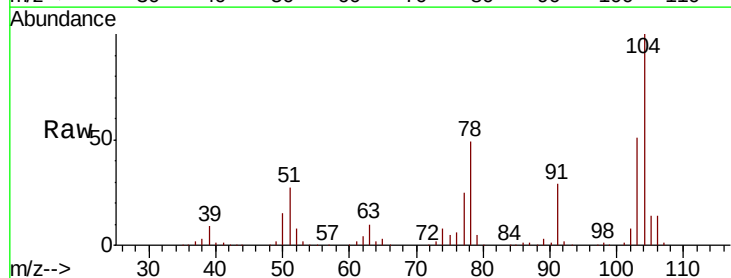
Acq: 10 Jul 2020 04:02

Tgt Ion:104 Resp: 280194

Ion Ratio Lower Upper

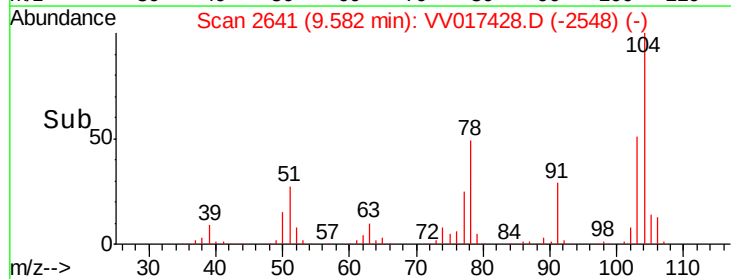
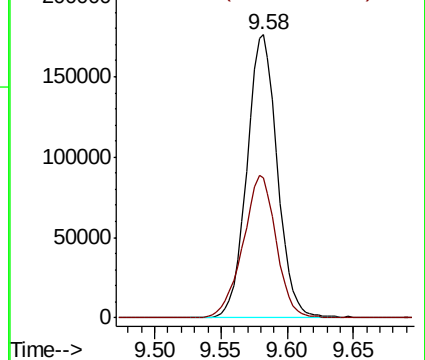
104 100

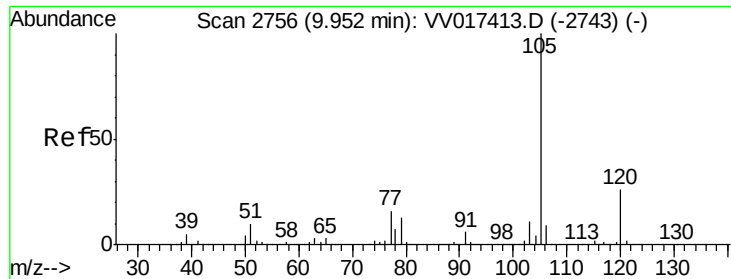
78 49.4 33.1 61.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 50.228 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

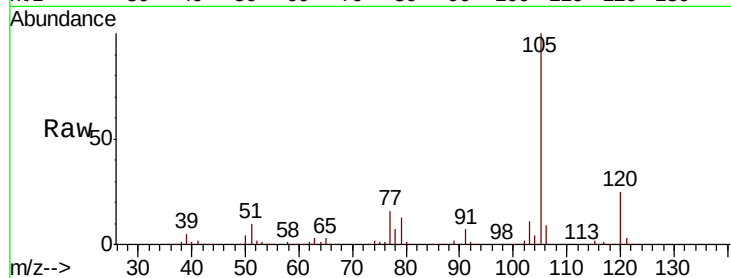
Tot Ion:105 Resp: 448936

Ion Ratio Lower Upper

105 100

120 25.7 21.1 31.7

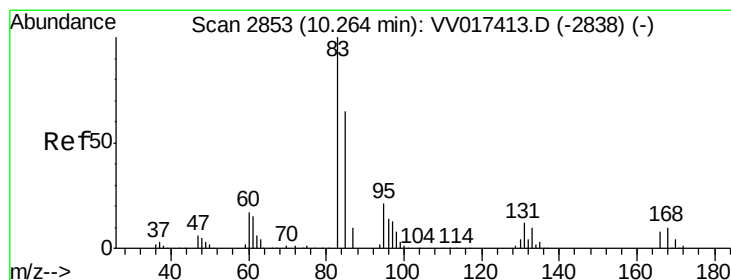
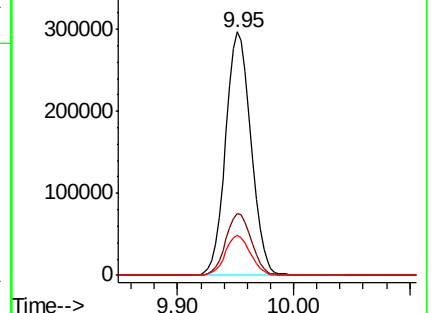
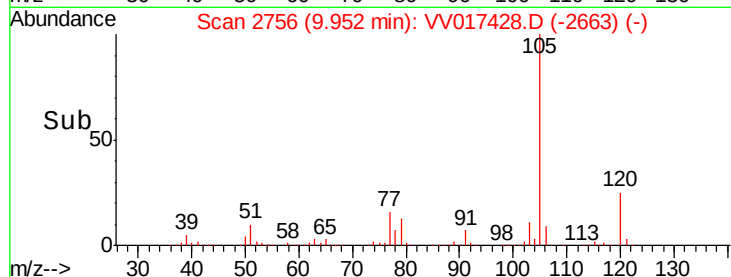
77 16.2 13.0 19.6



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: 47.084 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

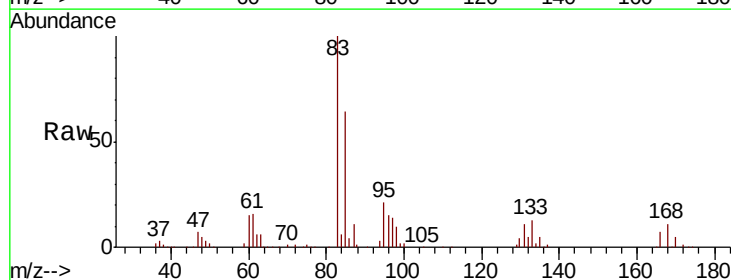
Tgt Ion: 83 Resp: 128225

Ion Ratio Lower Upper

83 100

85 64.5 44.9 83.5

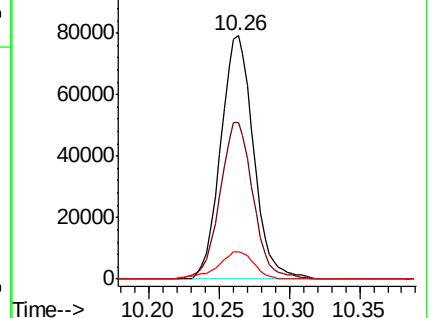
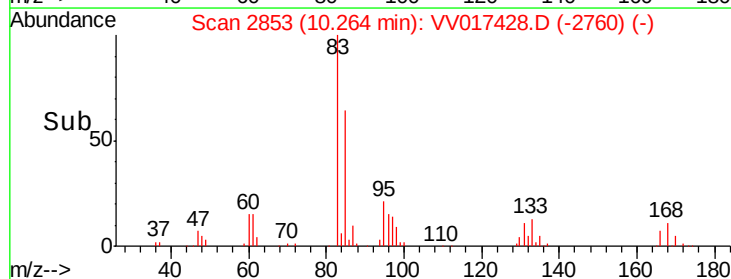
131 11.4 9.4 14.2

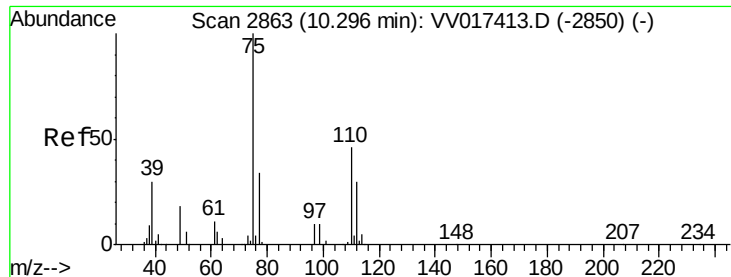


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 48.332 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

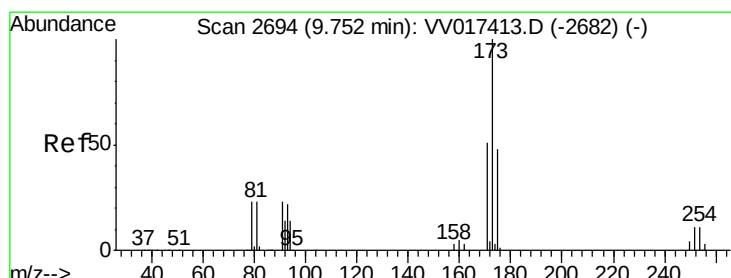
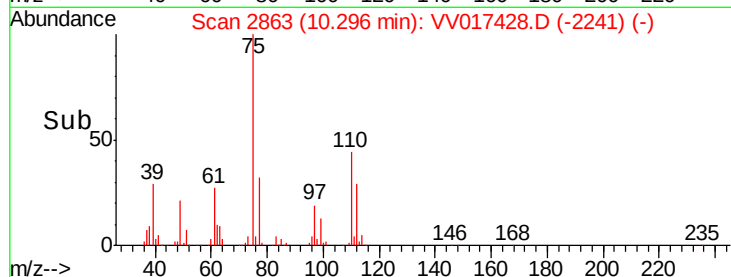
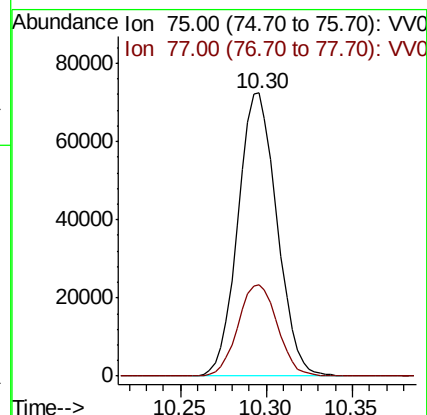
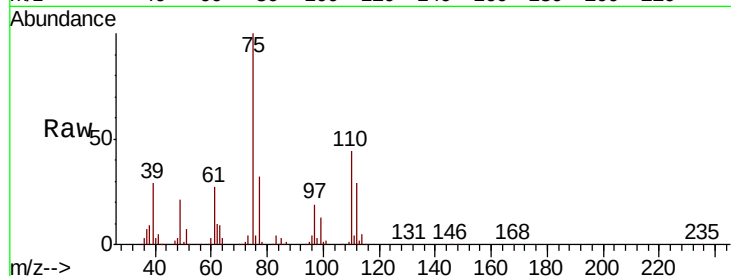
VSTD05079

Tot Ion: 75 Resp: 114474

Ion Ratio Lower Upper

75 100

77 32.8 26.5 39.7



#61

Bromoform

Concen: 47.369 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

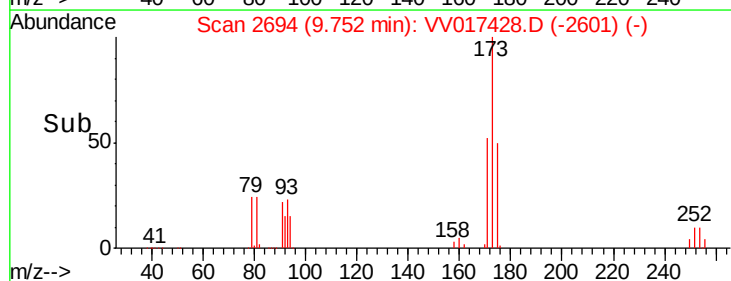
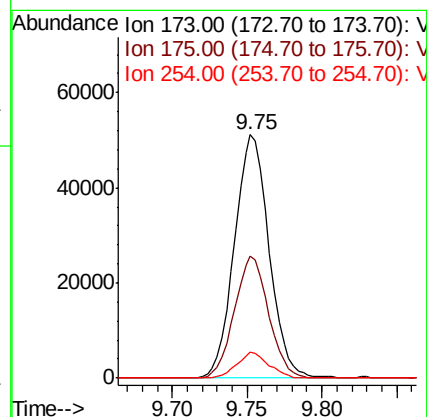
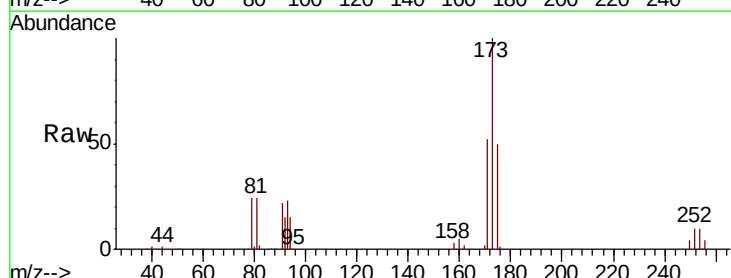
Tgt Ion: 173 Resp: 82465

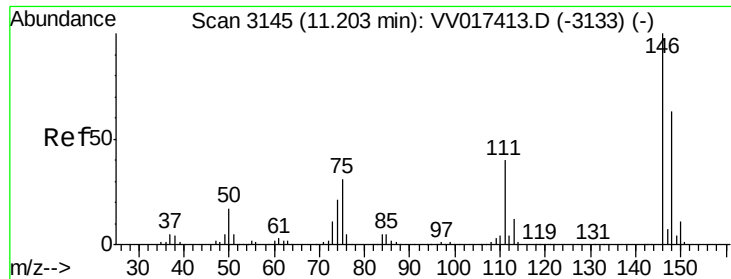
Ion Ratio Lower Upper

173 100

175 49.5 38.1 57.1

254 9.8 7.4 11.2

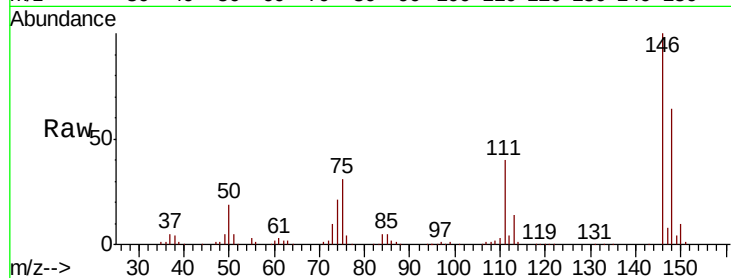




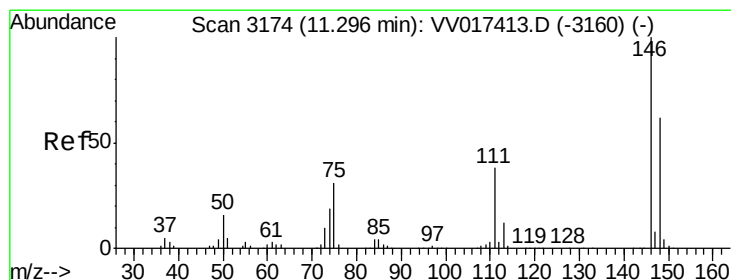
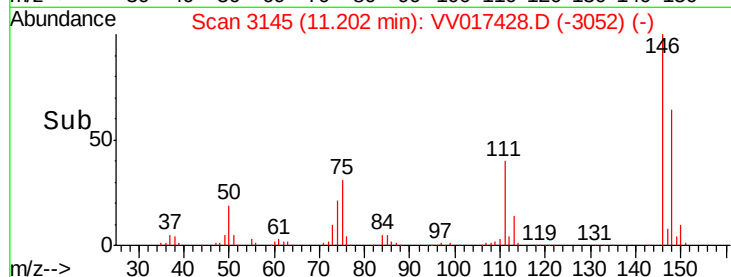
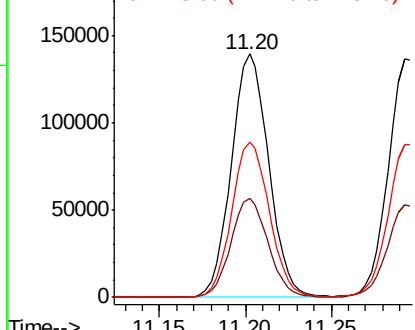
#62
 1,3-Dichlorobenzene
 Concen: 46.928 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

Tot Ion:146 Resp: 211934
 Ion Ratio Lower Upper
 146 100
 111 40.5 27.2 50.6
 148 64.0 44.7 82.9

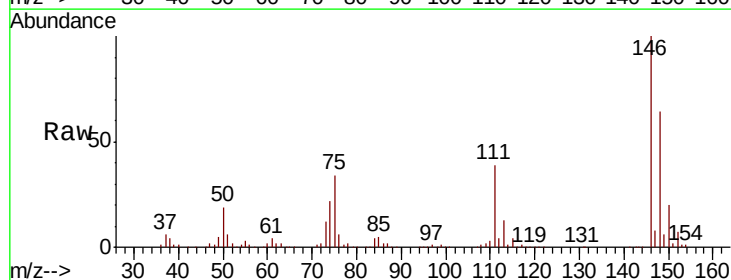


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

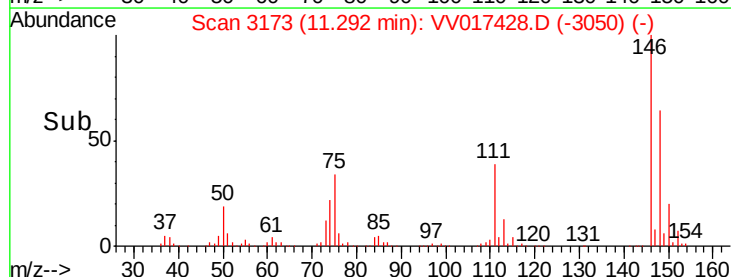
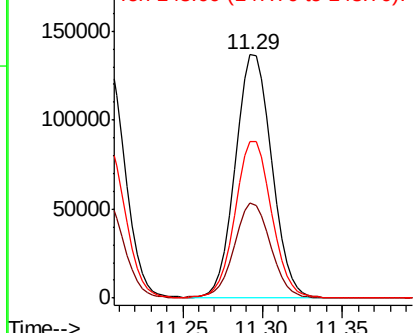


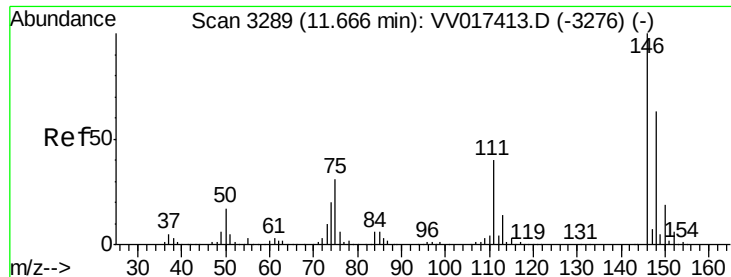
#63
 1,4-Dichlorobenzene
 Concen: 46.073 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion:146 Resp: 211181
 Ion Ratio Lower Upper
 146 100
 111 38.9 27.2 50.4
 148 64.1 45.4 84.4



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: 48.325 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD05079

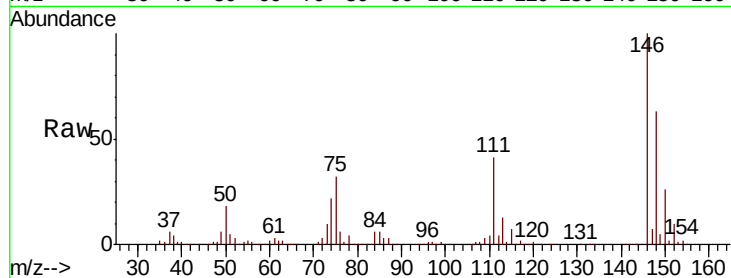
Tot Ion:146 Resp: 217560

Ion Ratio Lower Upper

146 100

111 41.2 33.5 50.3

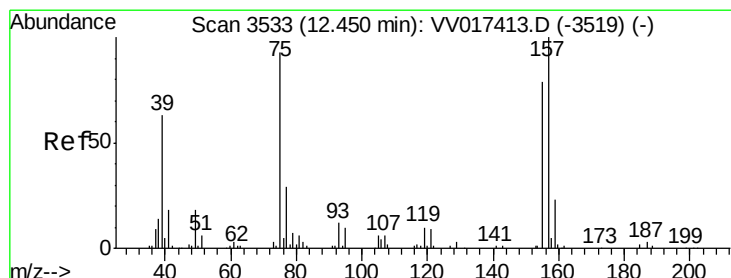
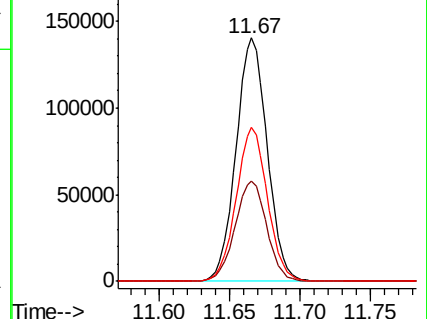
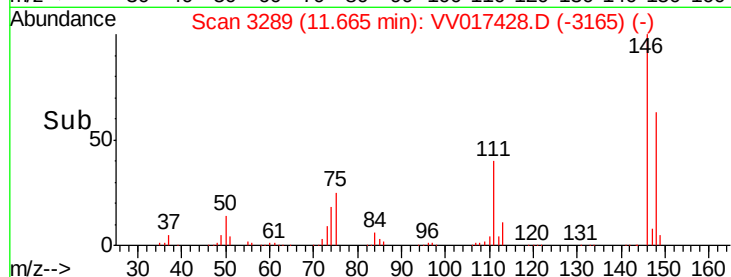
148 63.1 50.6 76.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 48.464 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

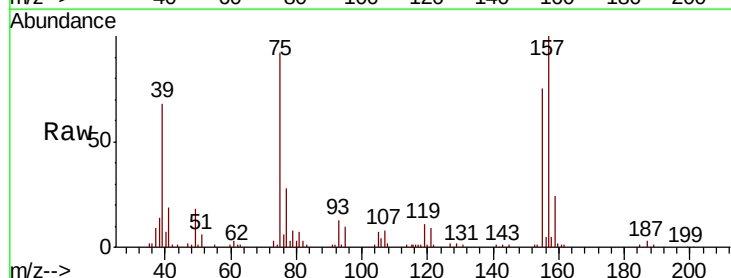
Tgt Ion: 75 Resp: 35503

Ion Ratio Lower Upper

75 100

155 81.9 63.4 95.2

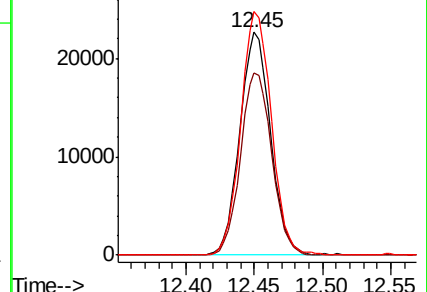
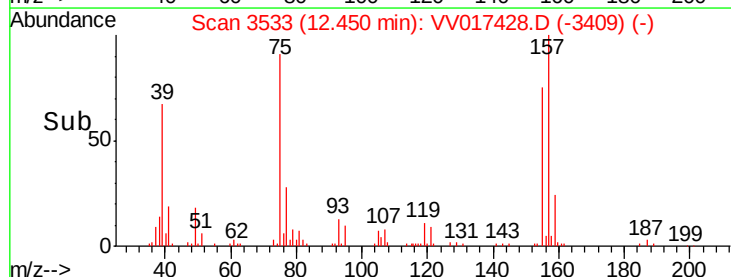
157 109.2 84.5 126.7

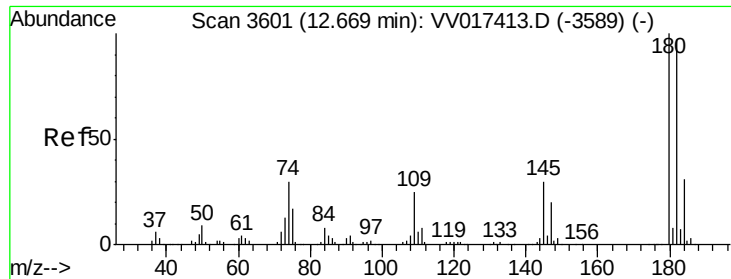


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

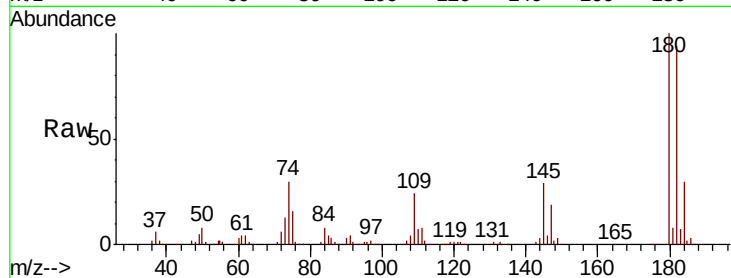




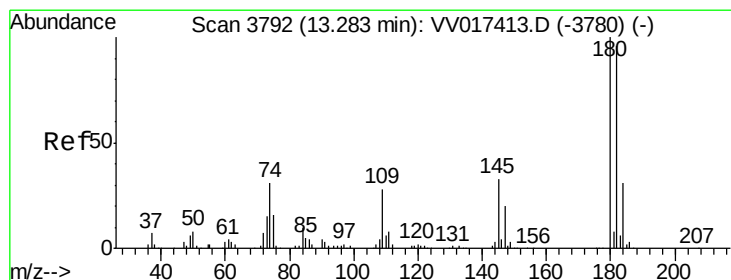
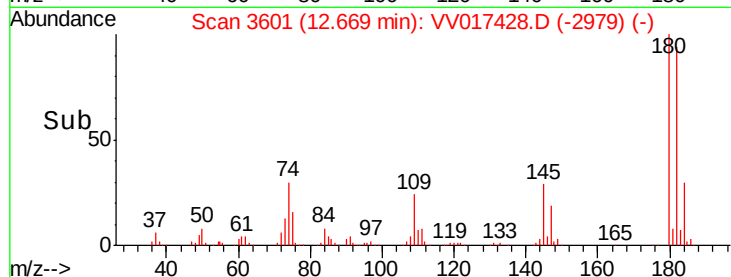
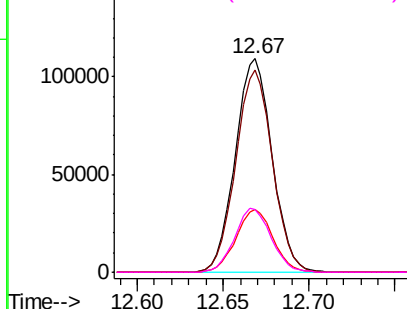
#67
 1,3,5-Trichlorobenzene
 Concen: 47.802 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05079

Tot Ion:180 Resp: 162620
 Ion Ratio Lower Upper
 180 100
 182 94.2 77.0 115.4
 184 29.6 24.0 36.0
 145 29.5 23.8 35.8

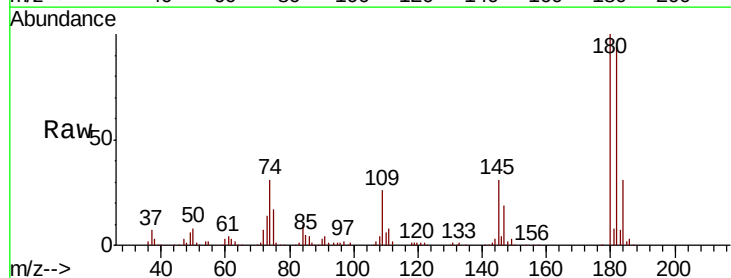


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

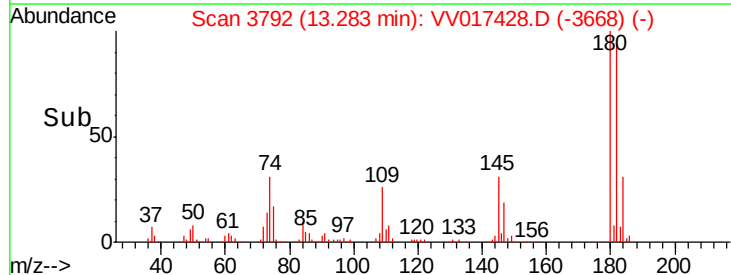
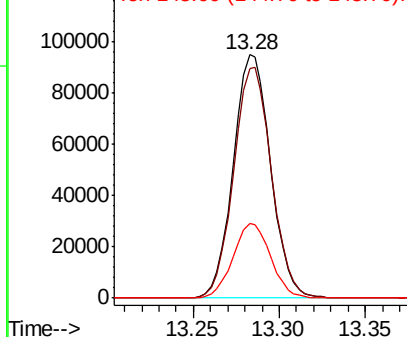


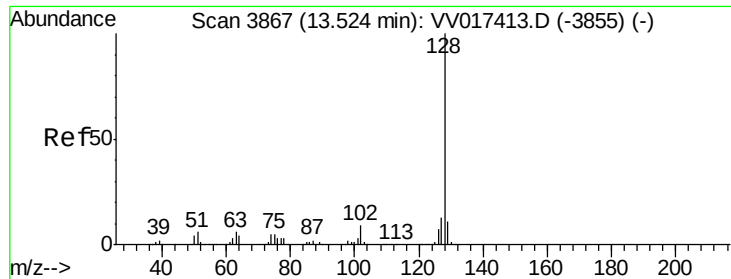
#68
 1,2,4-trichlorobenzene
 Concen: 48.107 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV017428.D
 Acq: 10 Jul 2020 04:02

Tgt Ion:180 Resp: 143514
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.0 114.0
 145 30.8 24.6 36.8



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: 52.418 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Instrument :

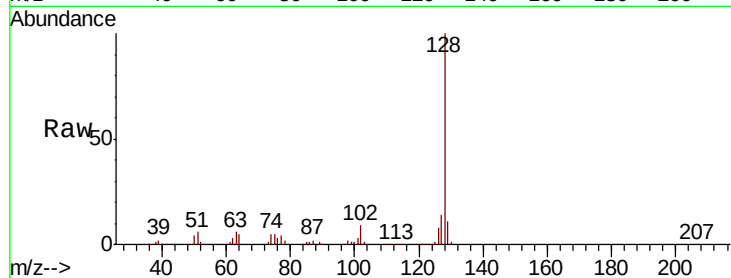
MSVOA_V

ClientSampleId :

VSTD05079

Tot Ion:128 Resp: 436690

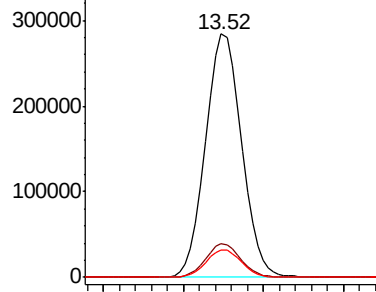
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.7	16.1
129	11.2	8.6	12.8



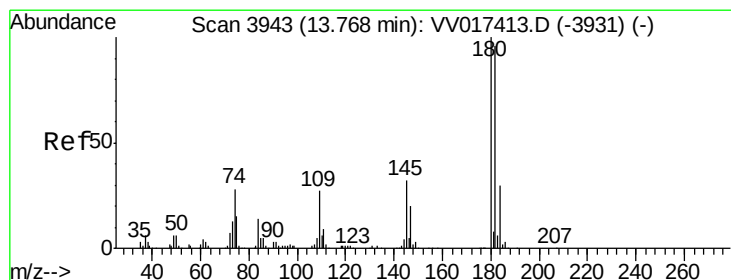
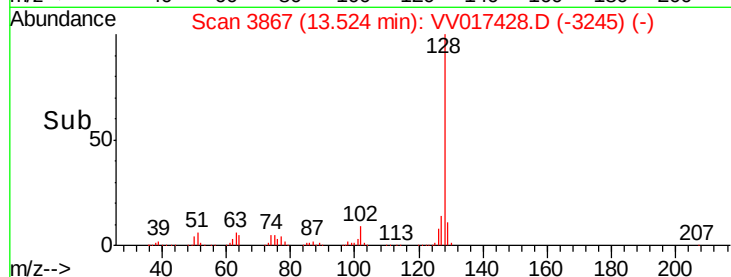
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 13.45 13.50 13.55 13.60



#70

1,2,3-Trichlorobenzene

Concen: 49.417 ug/L

RT: 13.77 min Scan# 3943

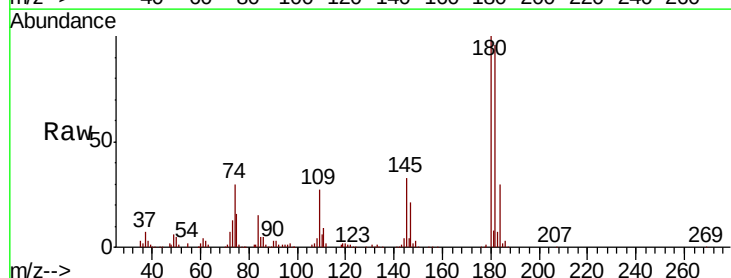
Delta R.T. -0.00 min

Lab File: VV017428.D

Acq: 10 Jul 2020 04:02

Tgt Ion:180 Resp: 149955

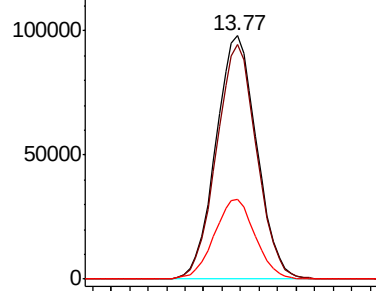
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.3	114.5
145	32.9	26.5	39.7



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



Time--> 13.70 13.75 13.80

