

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110220\
 Data File : VV019196.D
 Acq On : 02 Nov 2020 10:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

Quant Time: Nov 03 03:23:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Nov 02 11:18:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	259793	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	253702	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	143084	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	75412	36.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.06%
7) Chloroethane-d5	1.58	69	61152	38.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	76.26%
11) 1,1-Dichloroethene-d2	2.13	63	157336	40.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.12%
21) 2-Butanone-d5	3.90	46	102327	80.92	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.92%
24) Chloroform-d	4.37	84	162164	42.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.46%
26) 1,2-Dichloroethane-d4	5.05	65	111407	41.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.26%
32) Benzene-d6	5.07	84	297146	41.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	82.58%
36) 1,2-Dichloropropane-d6	6.09	67	89449	41.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	83.36%
41) Toluene-d8	7.33	98	289526	41.88	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	83.76%
43) trans-1,3-Dichloropropene-	7.64	79	53703	43.25	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.50%
47) 2-Hexanone-d5	8.10	63	75023	80.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.73%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	122556	42.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	84.72%
64) 1,2-Dichlorobenzene-d4	11.65	152	123328	41.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.04%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	108050	47.366	ug/L 99
3) Chloromethane	1.25	50	96972	46.812	ug/L 97
5) Vinyl chloride	1.32	62	98401	46.398	ug/L 98
6) Bromomethane	1.53	94	66359	46.711	ug/L 98
8) Chloroethane	1.60	64	63851	48.420	ug/L 99
9) Trichlorofluoromethane	1.77	101	163787	46.336	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	81474	47.894	ug/L 99
12) 1,1-Dichloroethene	2.14	96	77034	46.239	ug/L 86
13) Acetone	2.19	43	119475	101.702	ug/L 100
14) Carbon disulfide	2.31	76	245707	46.400	ug/L 100
15) Methyl Acetate	2.44	43	81157	42.868	ug/L 98
16) Methylene chloride	2.52	84	87452	46.228	ug/L 98
17) trans-1,2-Dichloroethene	2.78	96	83294	46.549	ug/L 96
18) Methyl tert-butyl Ether	2.78	73	279534	46.654	ug/L 100
19) 1,1-Dichloroethane	3.21	63	156087	46.821	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	90626	46.148	ug/L 97
22) 2-Butanone	3.99	43	126611	98.949	ug/L 100

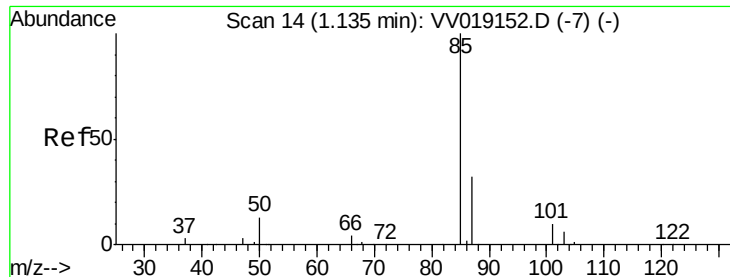
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110220\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	47866	45.422	ug/L	96
25) Chloroform	4.40	83	165336	45.895	ug/L	99
27) 1,2-Dichloroethane	5.15	62	142953	46.611	ug/L	100
29) Cyclohexane	4.70	56	136701	48.265	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	156818	45.614	ug/L	99
31) Carbon tetrachloride	4.85	117	140781	46.179	ug/L	98
33) Benzene	5.12	78	340320	46.525	ug/L	100
34) Trichloroethene	5.94	95	90975	45.400	ug/L	98
35) Methylcyclohexane	6.15	83	128728	47.585	ug/L	98
37) 1,2-Dichloropropane	6.19	63	87708	48.282	ug/L	100
38) Bromodichloromethane	6.53	83	125519	46.448	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	148607	49.527	ug/L	97
40) 4-Methyl-2-pentanone	7.24	43	221704	88.470	ug/L	100
42) Toluene	7.41	91	380208	47.414	ug/L	99
44) trans-1,3-Dichloropropene	7.67	75	152986	49.013	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	83724	45.955	ug/L	99
46) Tetrachloroethene	7.99	164	79848	46.664	ug/L	98
48) 2-Hexanone	8.15	43	179727	90.231	ug/L	99
49) Dibromochloromethane	8.26	129	103524	46.930	ug/L	98
50) 1,2-Dibromoethane	8.37	107	89271	45.926	ug/L	100
51) Chlorobenzene	8.90	112	245695	46.733	ug/L	99
52) Ethylbenzene	9.03	91	426010	48.213	ug/L	100
53) m,p-Xylene	9.16	106	160861	48.200	ug/L	100
54) o-xylene	9.56	106	153427	47.882	ug/L	99
55) Styrene	9.58	104	275263	48.469	ug/L	100
56) Isopropylbenzene	9.95	105	419195	48.680	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	125255	45.150	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	104224	43.888	ug/L	99
61) Bromoform	9.75	173	79663	45.135	ug/L	98
62) 1,3-Dichlorobenzene	11.20	146	210234	46.582	ug/L	99
63) 1,4-Dichlorobenzene	11.29	146	215272	45.896	ug/L	100
65) 1,2-Dichlorobenzene	11.67	146	206494	46.186	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	31019	40.548	ug/L	93
67) 1,3,5-Trichlorobenzene	12.67	180	153802	46.293	ug/L	100
68) 1,2,4-trichlorobenzene	13.28	180	143611	46.136	ug/L	99
69) Naphthalene	13.52	128	398543	45.712	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	140368	46.080	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 47.366 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

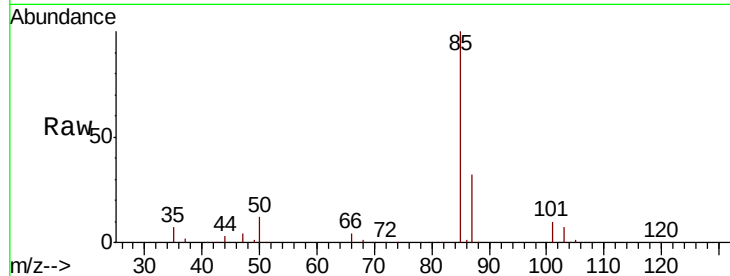
VSTD05083

Tot Ion: 85 Resp: 108050

Ion Ratio Lower Upper

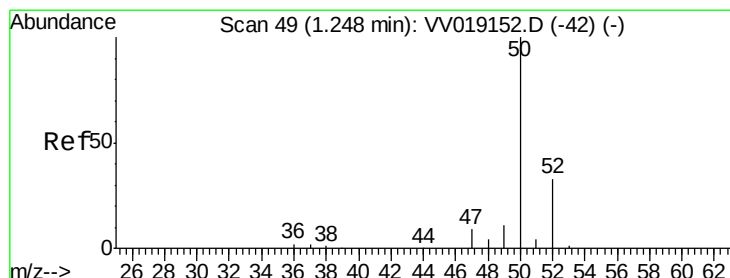
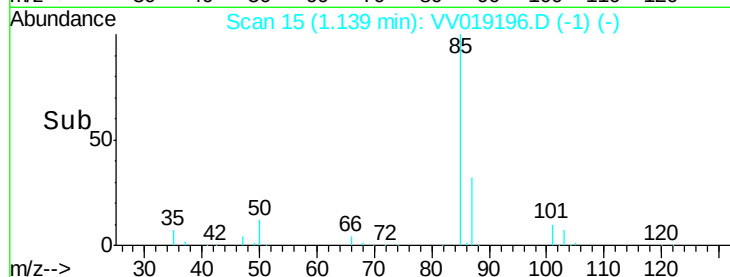
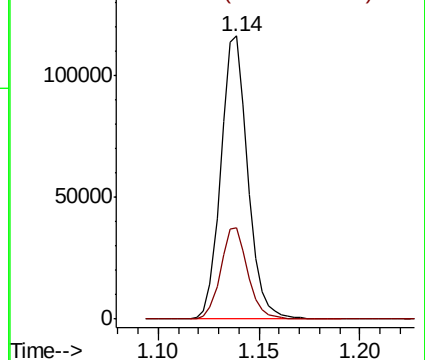
85 100

87 32.4 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 46.812 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV019196.D

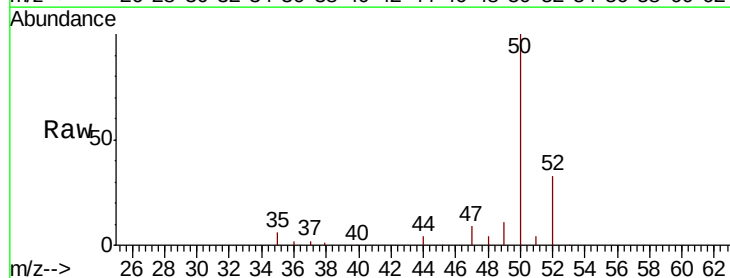
Acq: 02 Nov 2020 10:01

Tgt Ion: 50 Resp: 96972

Ion Ratio Lower Upper

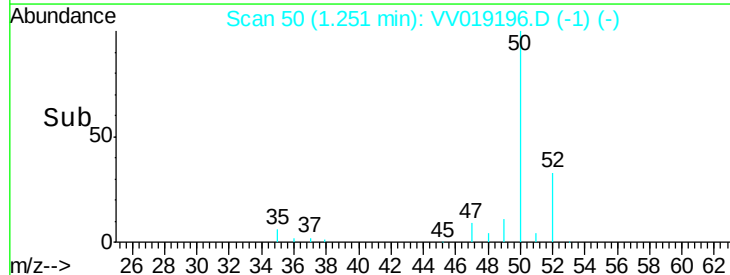
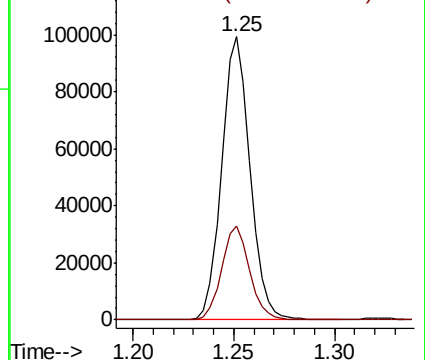
50 100

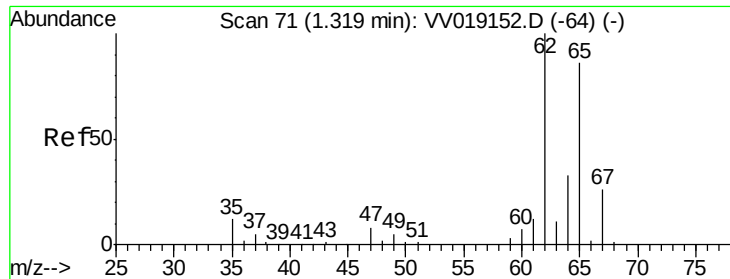
52 33.0 22.1 41.1



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 46.398 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

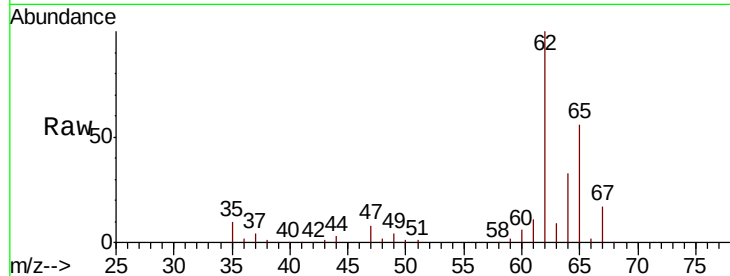
VSTD05083

Tot Ion: 62 Resp: 98401

Ion Ratio Lower Upper

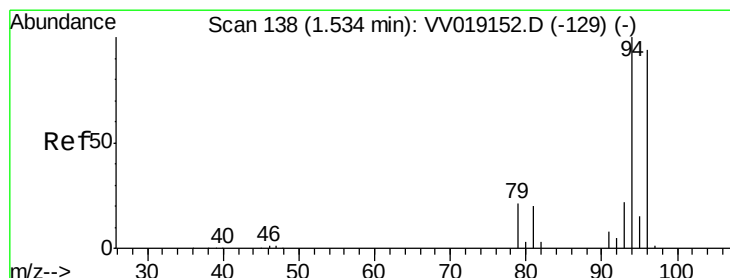
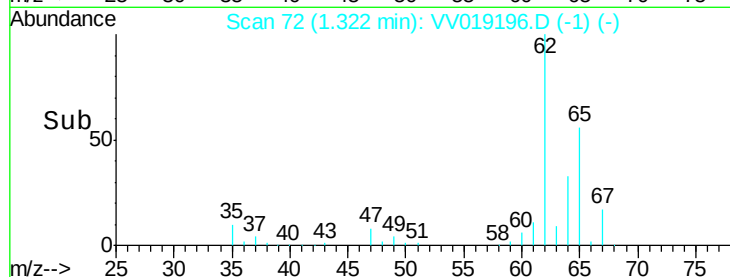
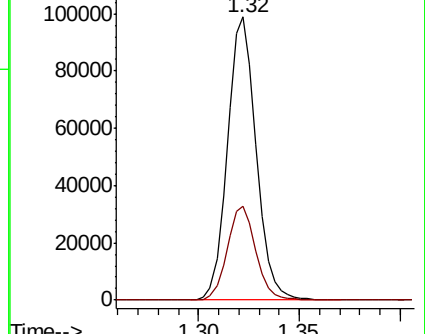
62 100

64 33.3 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 46.711 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019196.D

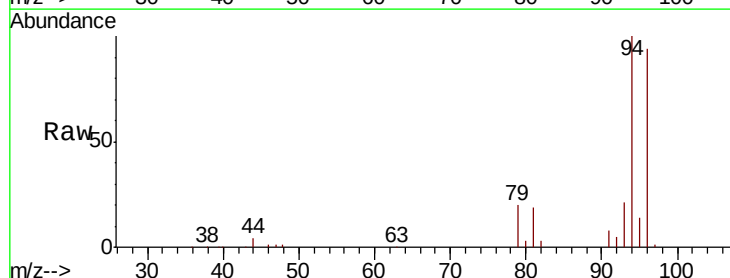
Acq: 02 Nov 2020 10:01

Tgt Ion: 94 Resp: 66359

Ion Ratio Lower Upper

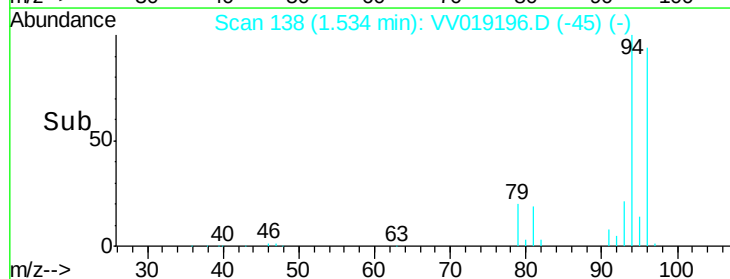
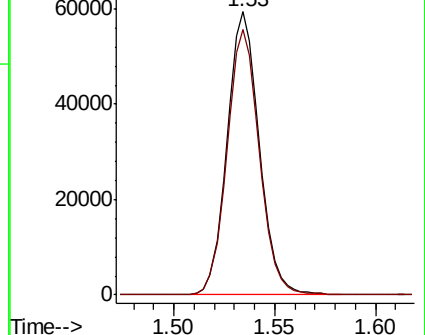
94 100

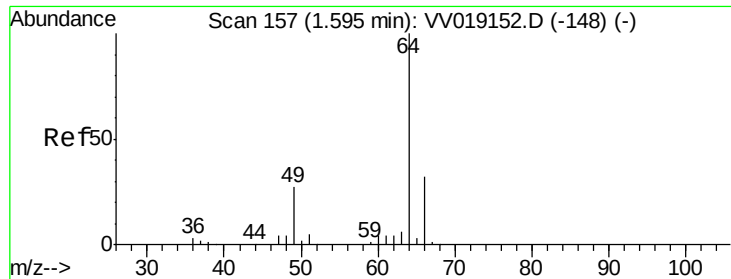
96 93.9 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 48.420 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

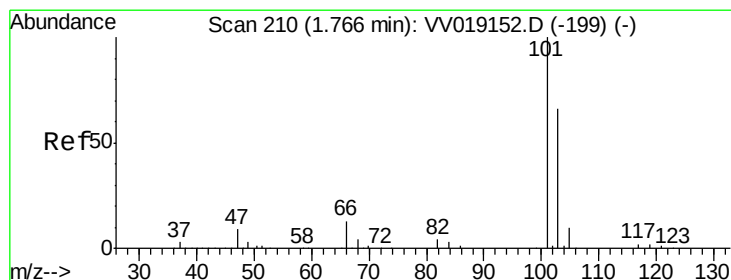
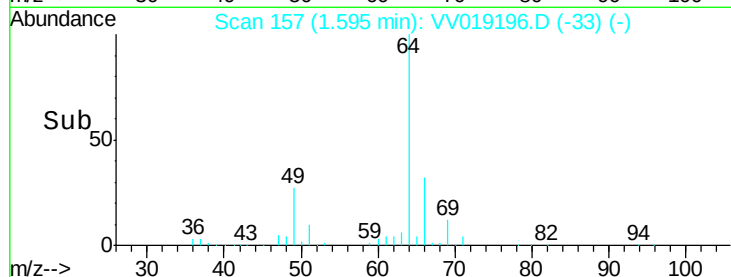
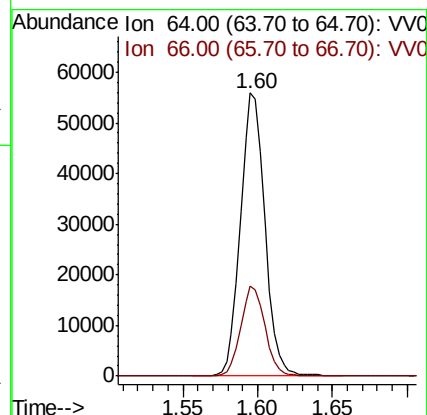
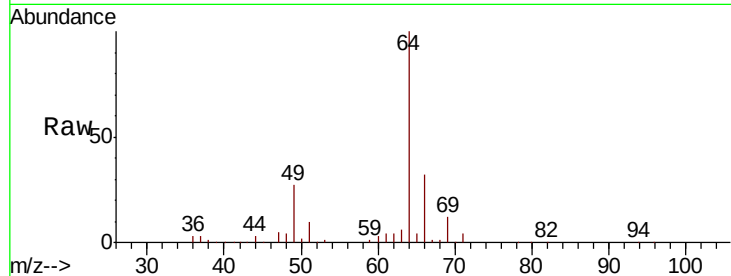
VSTD05083

Tot Ion: 64 Resp: 63851

Ion Ratio Lower Upper

64 100

66 31.7 22.0 40.8



#9

Trichlorofluoromethane

Concen: 46.336 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019196.D

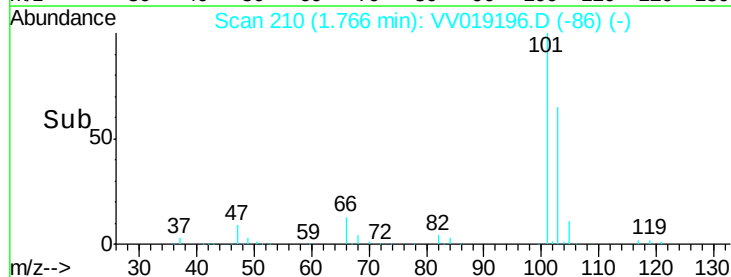
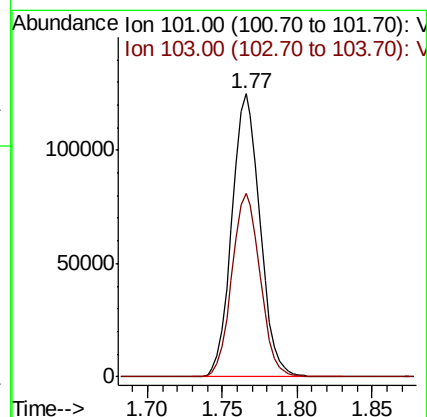
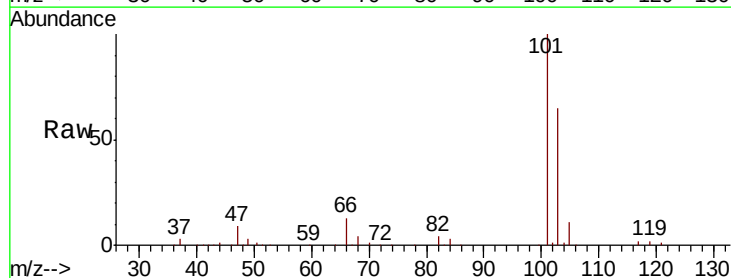
Acq: 02 Nov 2020 10:01

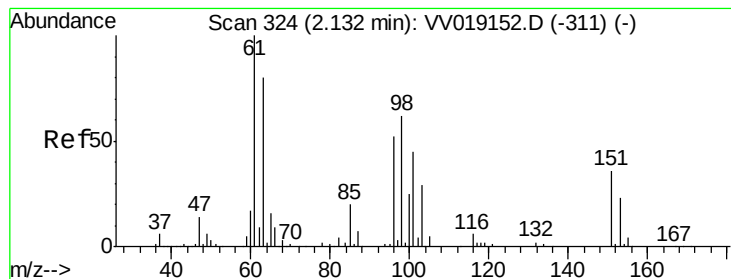
Tgt Ion: 101 Resp: 163787

Ion Ratio Lower Upper

101 100

103 65.2 51.9 77.9





#10

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

Concen: 47.894 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

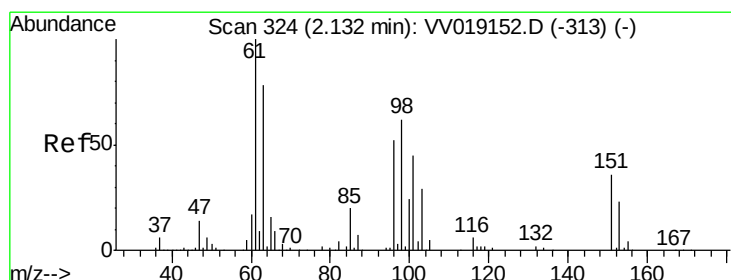
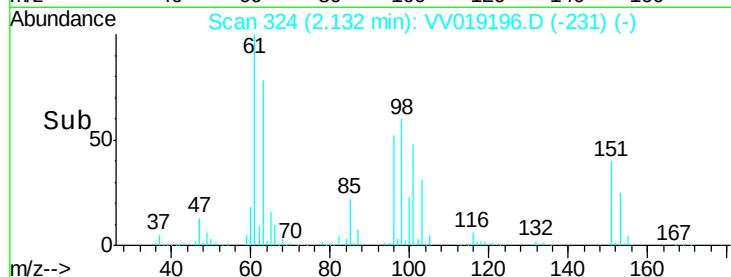
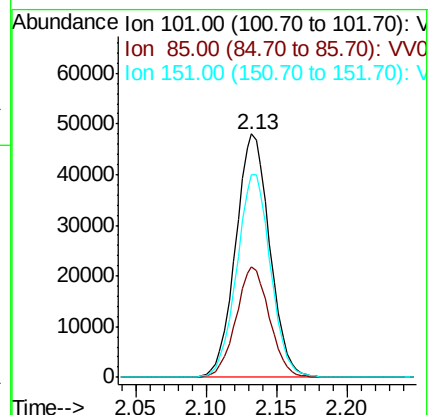
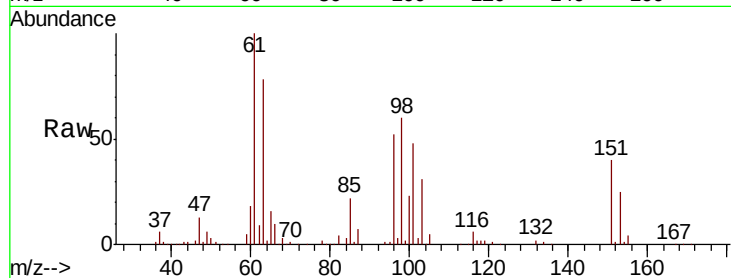
Tot Ion:101 Resp: 81474

Ion Ratio Lower Upper

101 100

85 44.3 36.1 54.1

151 82.6 65.0 97.4



#12

1,1-Dichloroethene

Concen: 46.239 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

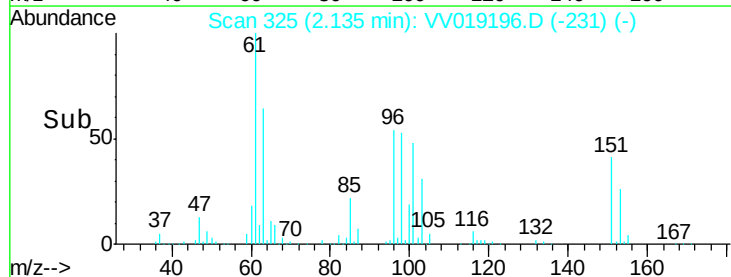
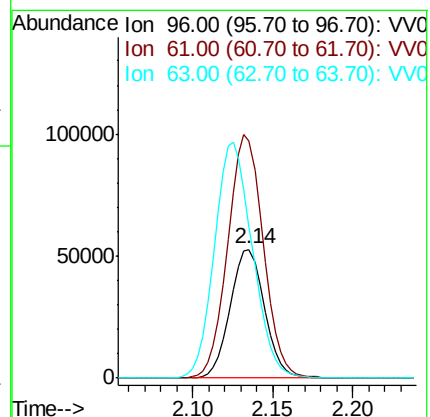
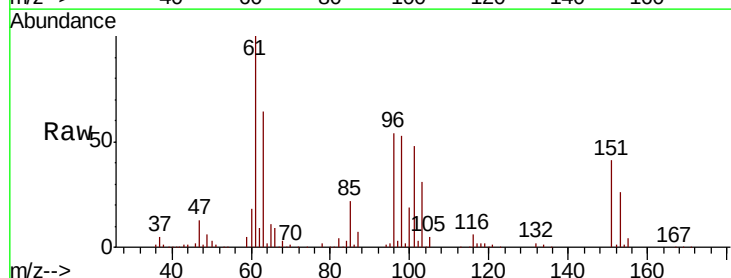
Tgt Ion: 96 Resp: 77034

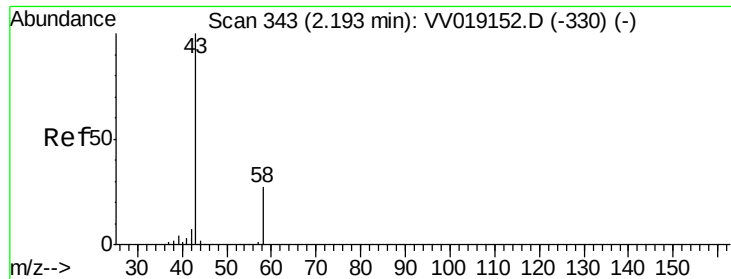
Ion Ratio Lower Upper

96 100

61 184.7 132.6 246.2

63 118.3 108.4 201.4





#13

Acetone

Concen: 101.702 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

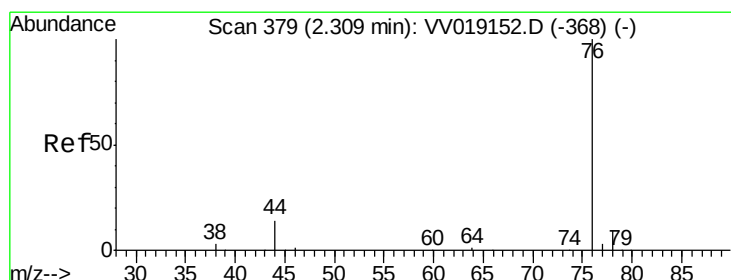
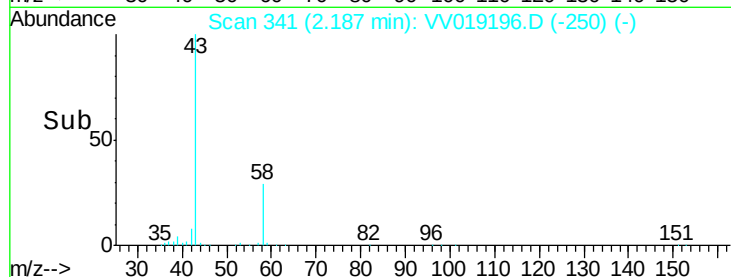
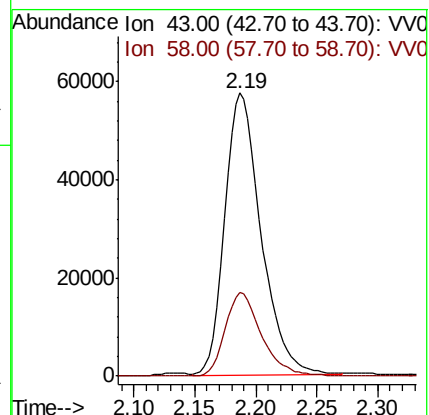
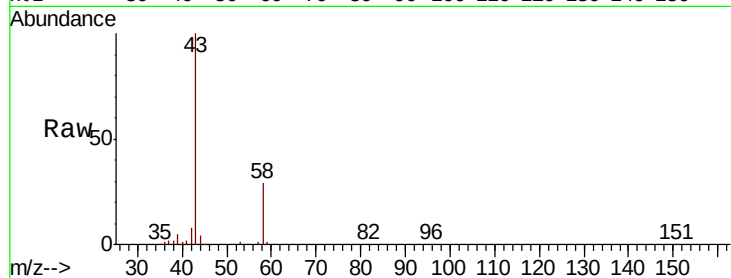
VSTD05083

Tot Ion: 43 Resp: 119475

Ion Ratio Lower Upper

43 100

58 29.7 0.0 59.4



#14

Carbon disulfide

Concen: 46.400 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019196.D

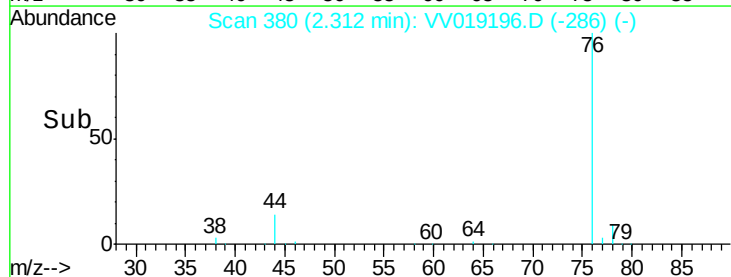
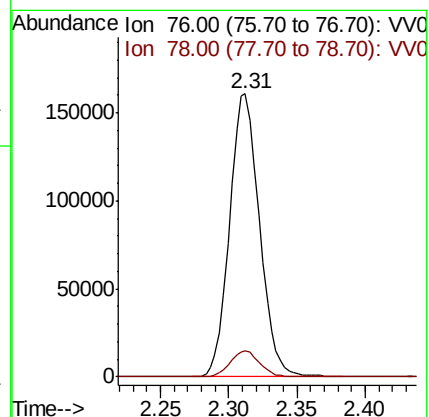
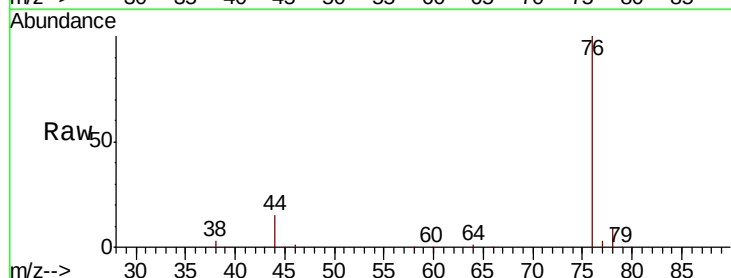
Acq: 02 Nov 2020 10:01

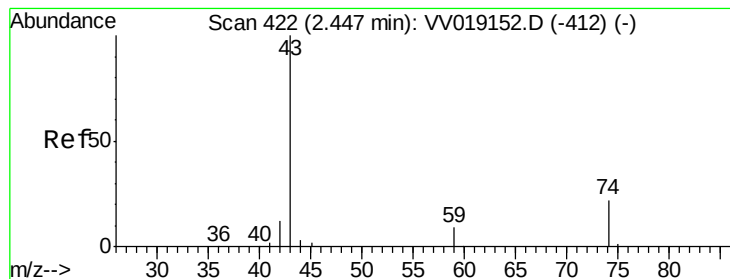
Tgt Ion: 76 Resp: 245707

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0





#15

Methvl Acetate

Concen: 42.868 ug/L

RT: 2.44 min Scan# 421

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

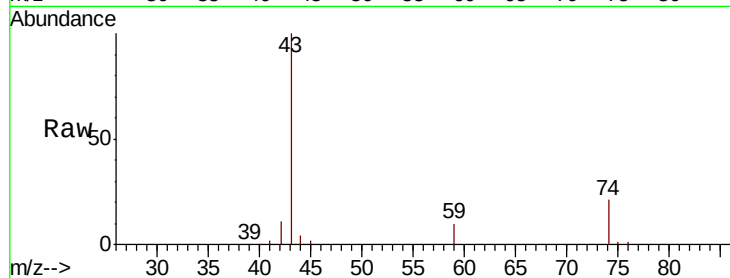
VSTD05083

Tot Ion: 43 Resp: 81157

Ion Ratio Lower Upper

43 100

74 22.2 18.4 27.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2.44

50000

40000

30000

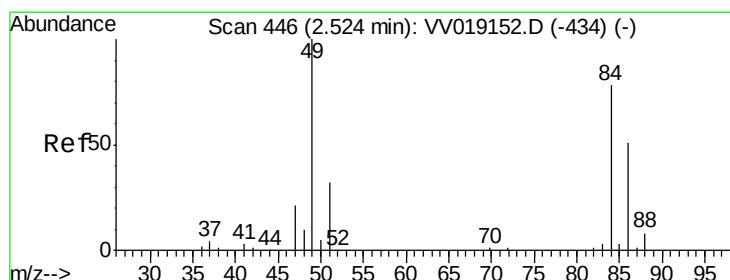
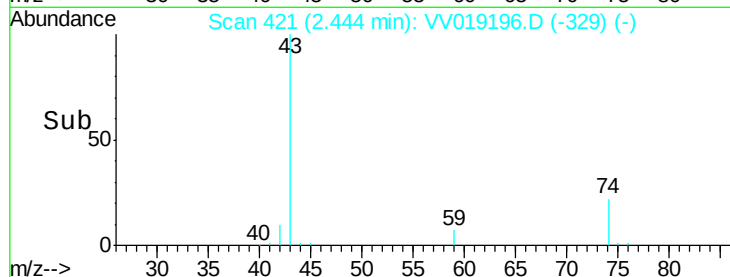
20000

10000

0

Time-->

2.40 2.45 2.50 2.55



#16

Methylene chloride

Concen: 46.228 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

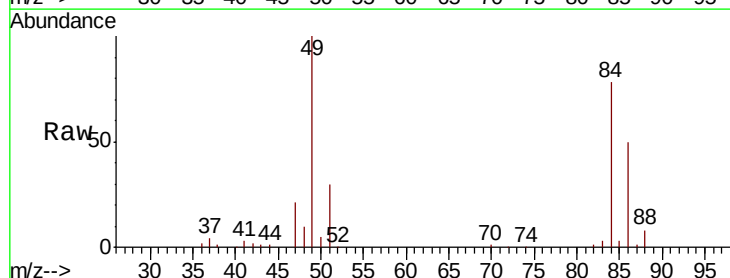
Tgt Ion: 84 Resp: 87452

Ion Ratio Lower Upper

84 100

86 64.7 46.0 85.4

49 128.9 87.8 163.2



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

2.52

80000

60000

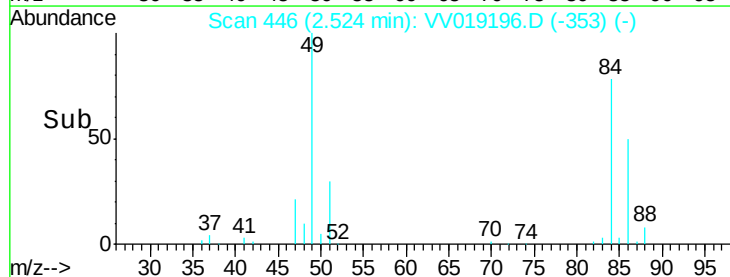
40000

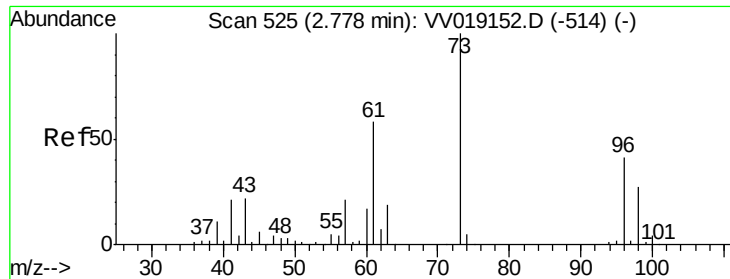
20000

0

Time-->

2.45 2.50 2.55 2.60





#17

trans-1,2-Dichloroethene

Concen: 46.549 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

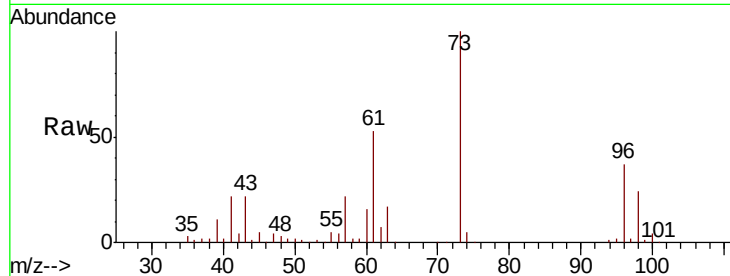
Tot Ion: 96 Resp: 83294

Ion Ratio Lower Upper

96 100

61 140.9 102.4 190.2

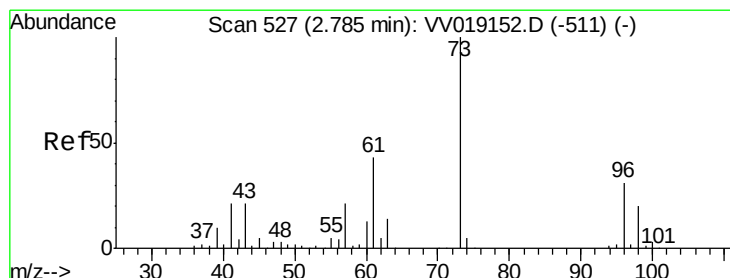
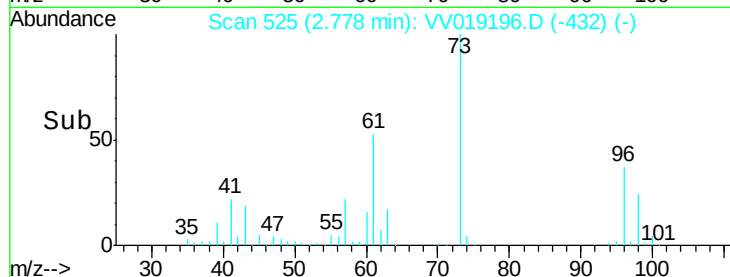
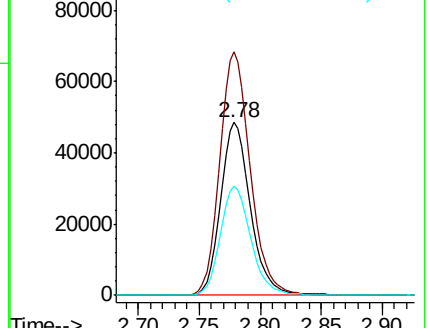
98 63.1 45.9 85.3



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: 46.654 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

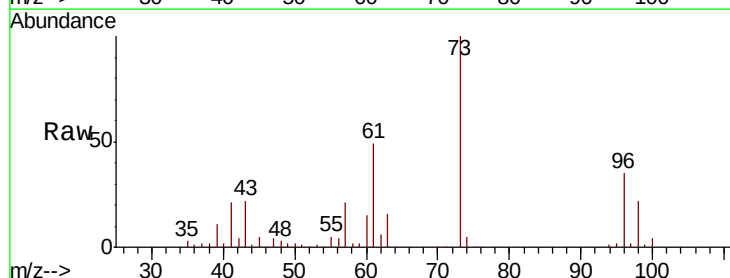
Tgt Ion: 73 Resp: 279534

Ion Ratio Lower Upper

73 100

43 22.0 17.9 26.9

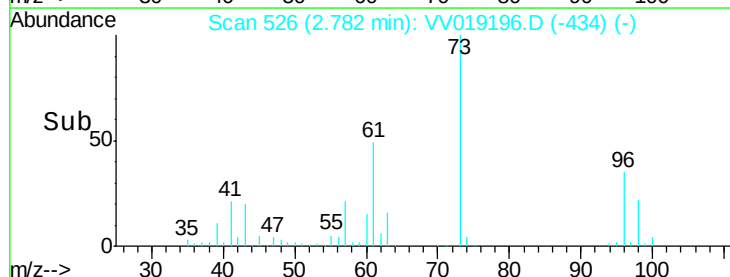
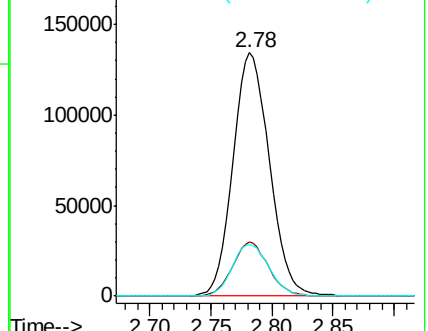
57 21.4 17.1 25.7

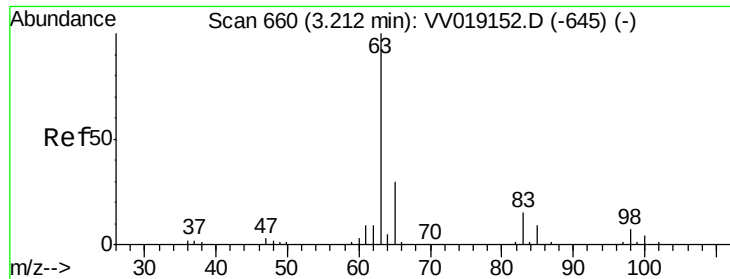


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

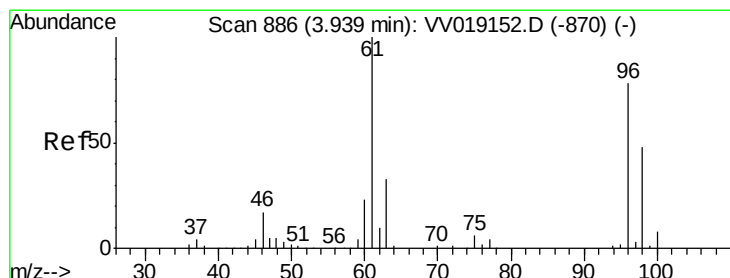
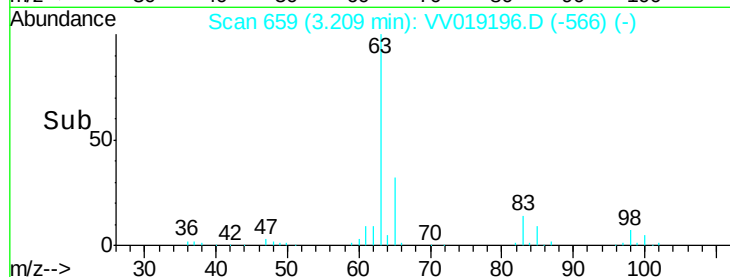
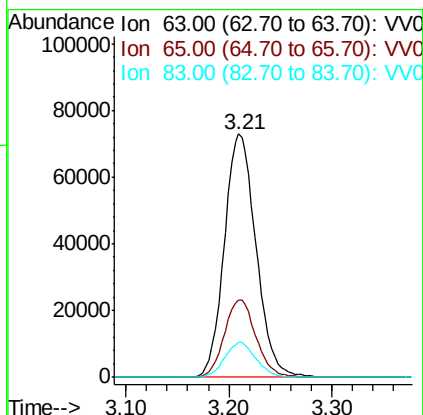
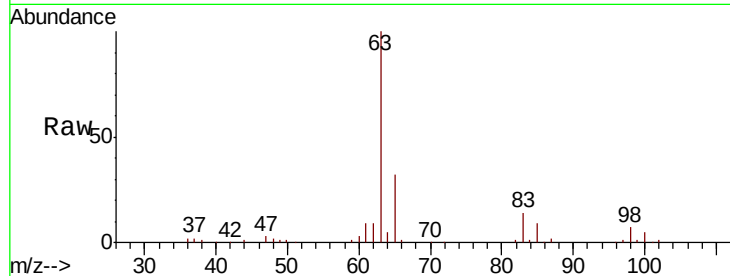




#19
 1,1-Dichloroethane
 Concen: 46.821 ug/L
 RT: 3.21 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

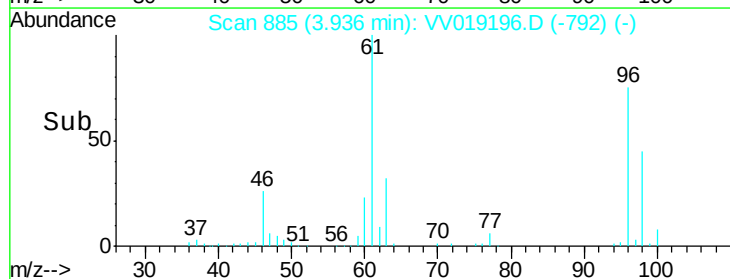
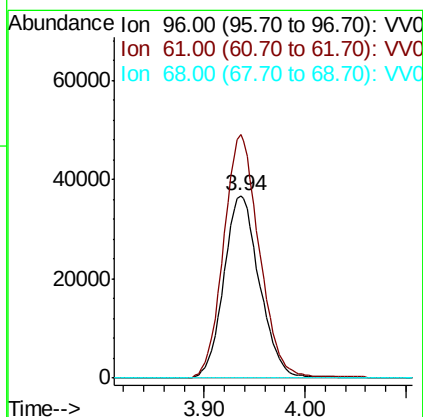
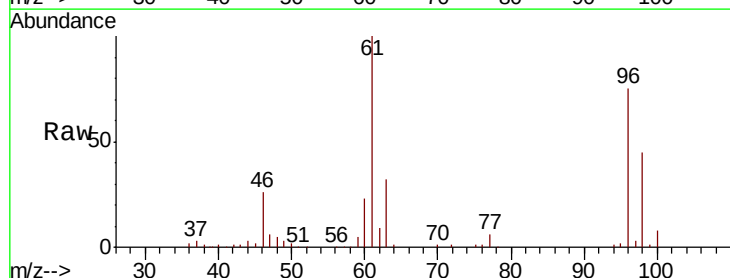
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

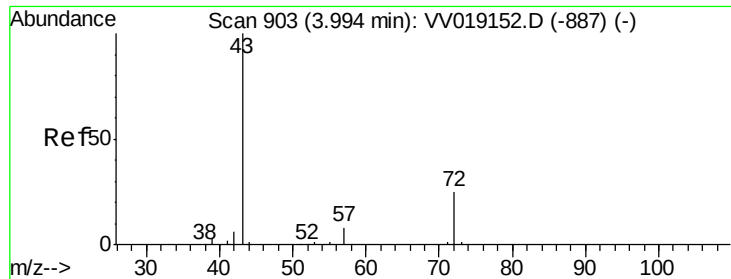
Tot Ion: 63 Resp: 156087
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.0 40.8
 83 14.2 9.6 17.8



#20
 cis-1,2-Dichloroethene
 Concen: 46.148 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion: 96 Resp: 90626
 Ion Ratio Lower Upper
 96 100
 61 133.4 90.7 168.5
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 98.949 ug/L

RT: 3.99 min Scan# 901

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

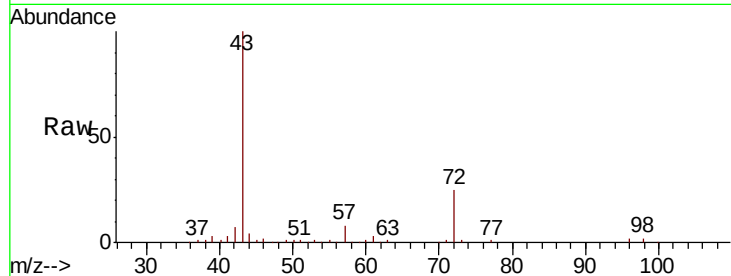
VSTD05083

Tot Ion: 43 Resp: 126611

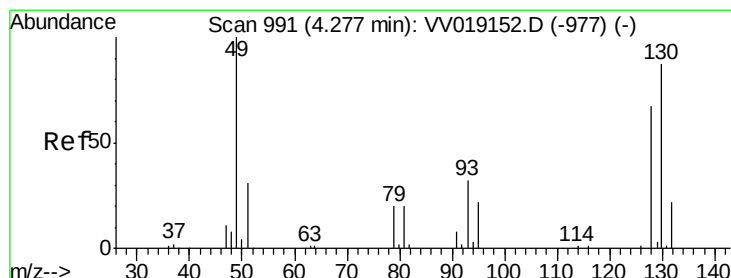
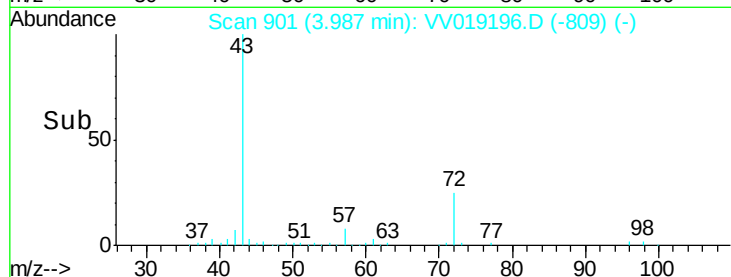
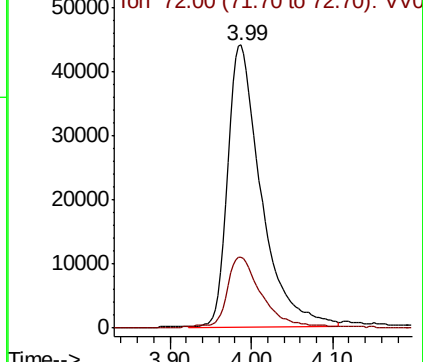
Ion Ratio Lower Upper

43 100

72 24.1 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV019152.D (-887) (-)



#23

Bromochloromethane

Concen: 45.422 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Tgt Ion: 128 Resp: 47866

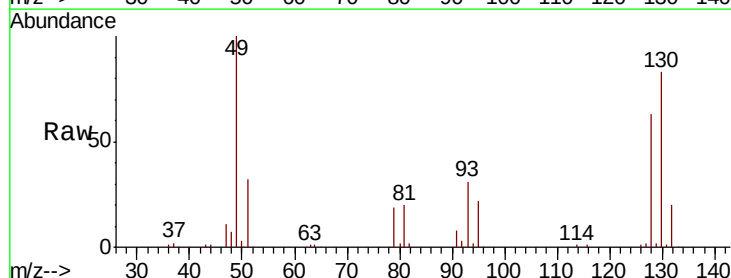
Ion Ratio Lower Upper

128 100

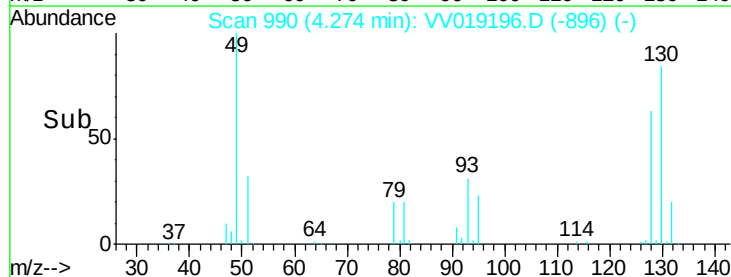
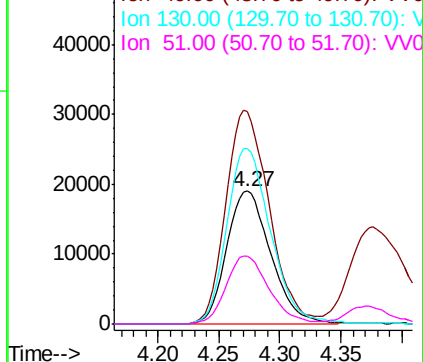
49 159.9 108.5 201.5

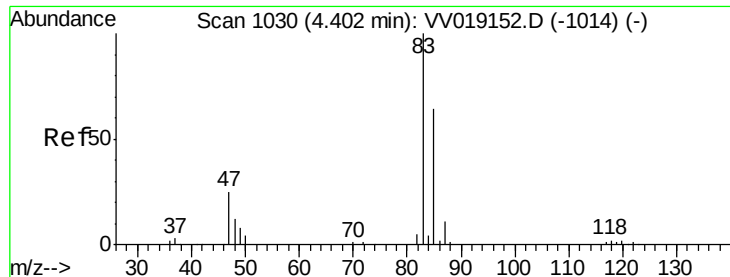
130 132.5 90.4 167.8

51 51.2 36.9 55.3



Abundance Ion 128.00 (127.70 to 128.70): VV019152.D (-977) (-)

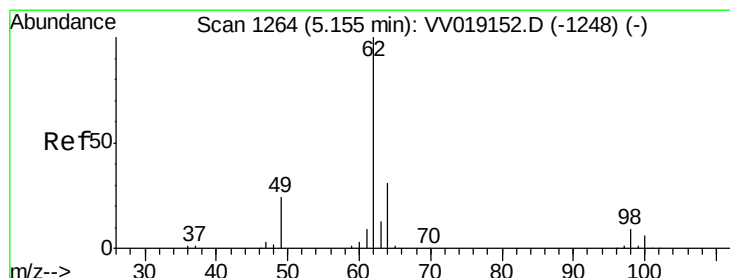
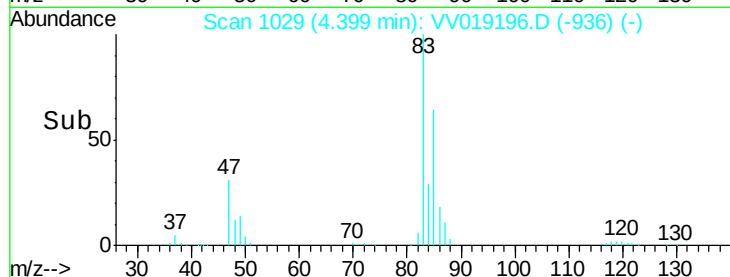
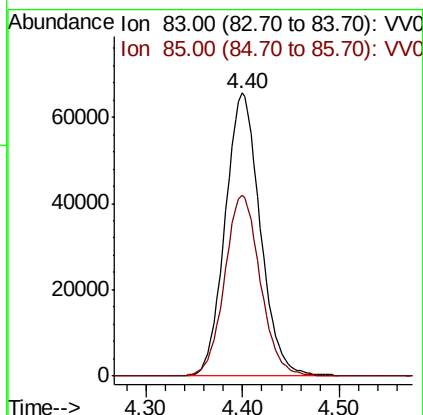
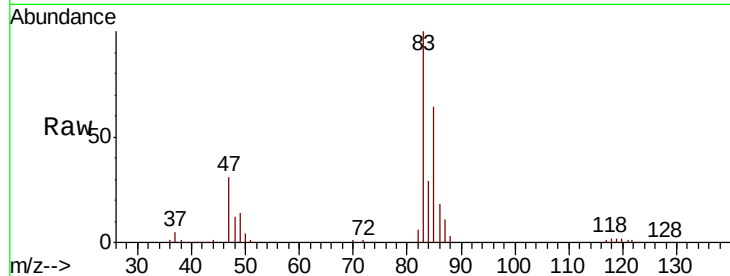




#25
Chloroform
Concen: 45.895 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. 0.00 min
Lab File: VV019196.D
Acq: 02 Nov 2020 10:01

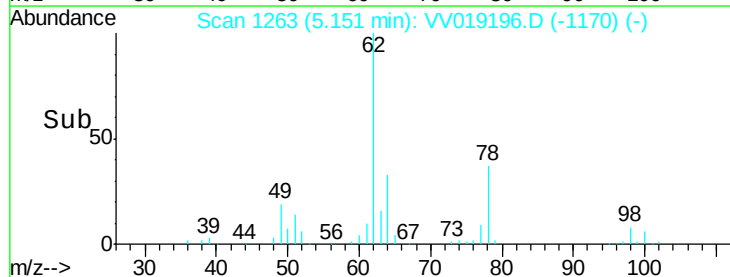
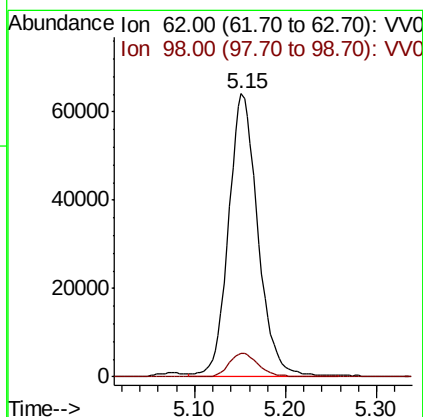
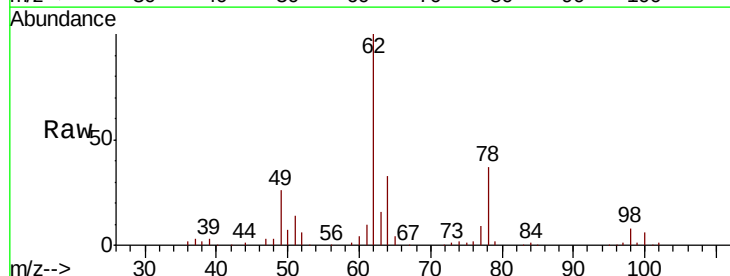
Instrument :
MSVOA_V
ClientSampleId :
VSTD05083

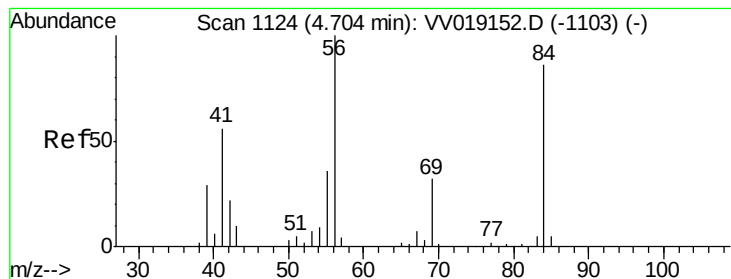
Tot Ion: 83 Resp: 165336
Ion Ratio Lower Upper
83 100
85 64.0 45.1 83.9



#27
1,2-Dichloroethane
Concen: 46.611 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV019196.D
Acq: 02 Nov 2020 10:01

Tgt Ion: 62 Resp: 142953
Ion Ratio Lower Upper
62 100
98 8.4 6.8 10.2





#29

Cyclohexane

Concen: 48.265 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

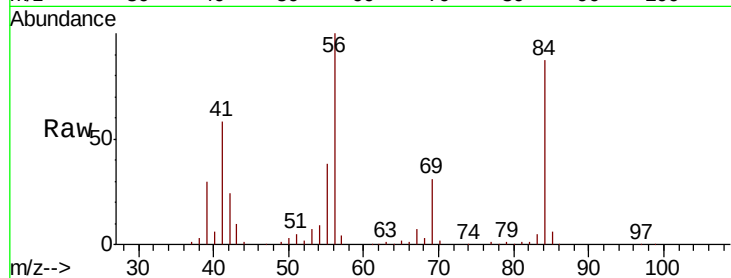
Tot Ion: 56 Resp: 136701

Ion Ratio Lower Upper

56 100

69 30.6 25.0 37.4

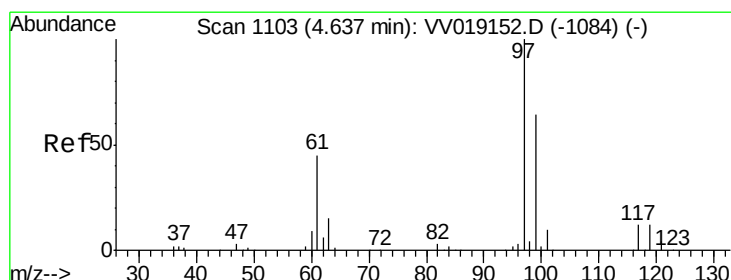
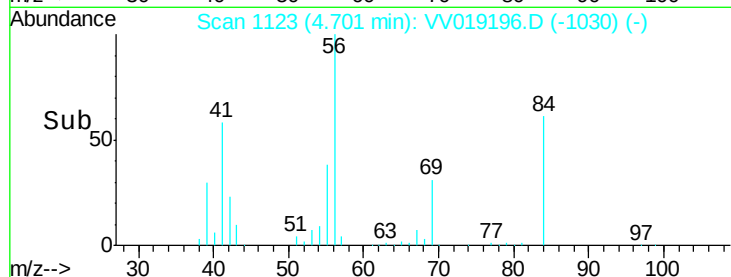
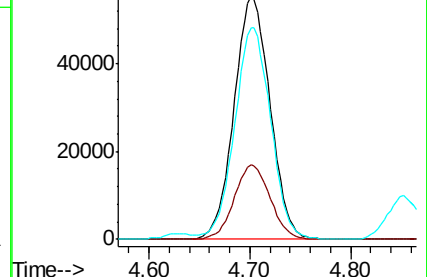
84 87.2 71.5 107.3



Abundance Ion 56.00 (55.70 to 56.70): VV019152.D (-1103) (-)

Ion 69.00 (68.70 to 69.70): VV019152.D (-1103) (-)

Ion 84.00 (83.70 to 84.70): VV019152.D (-1103) (-)



#30

1,1,1-Trichloroethane

Concen: 45.614 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

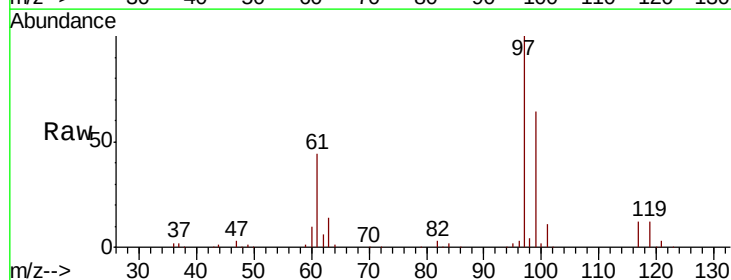
Tgt Ion: 97 Resp: 156818

Ion Ratio Lower Upper

97 100

99 63.7 51.3 76.9

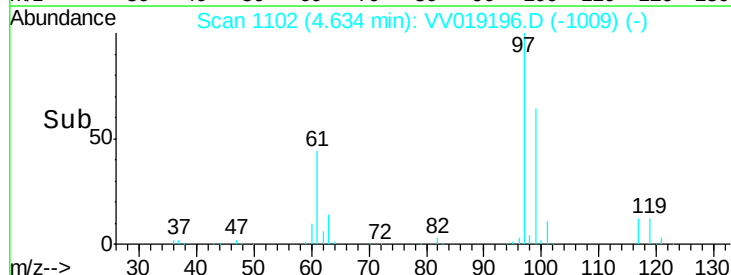
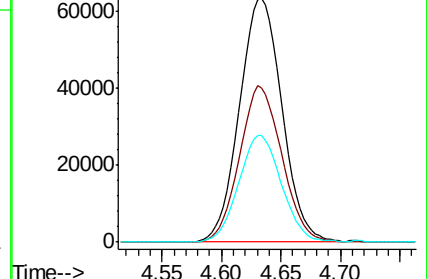
61 44.2 34.6 52.0

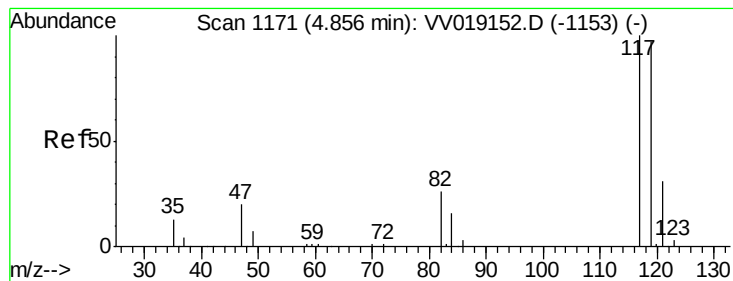


Abundance Ion 97.00 (96.70 to 97.70): VV019152.D (-1084) (-)

Ion 99.00 (98.70 to 99.70): VV019152.D (-1084) (-)

Ion 61.05 (60.75 to 61.75): VV019152.D (-1084) (-)





#31

Carbon tetrachloride

Concen: 46.179 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

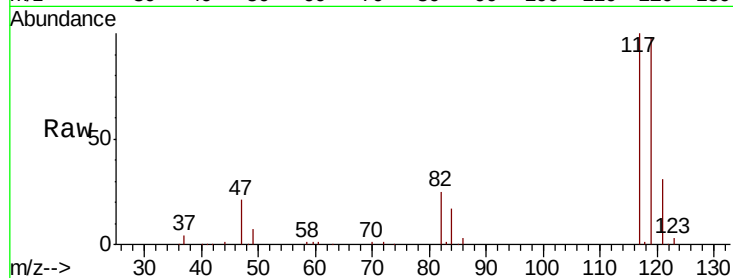
VSTD05083

Tot Ion:117 Resp: 140781

Ion Ratio Lower Upper

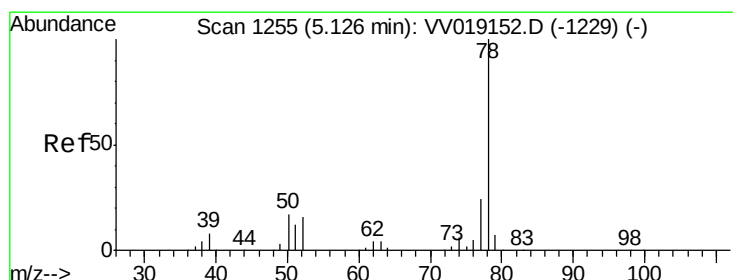
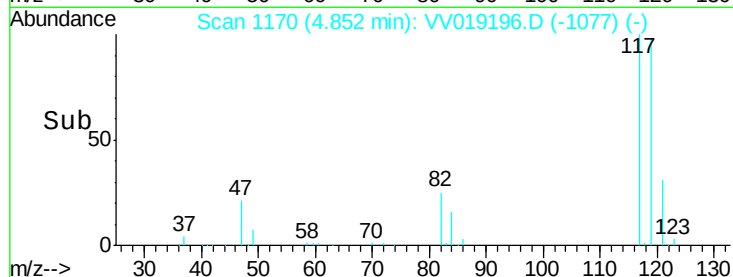
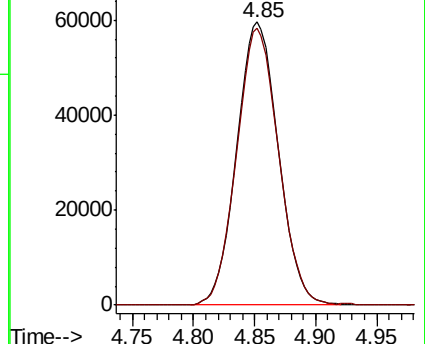
117 100

119 98.3 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 46.525 ug/L

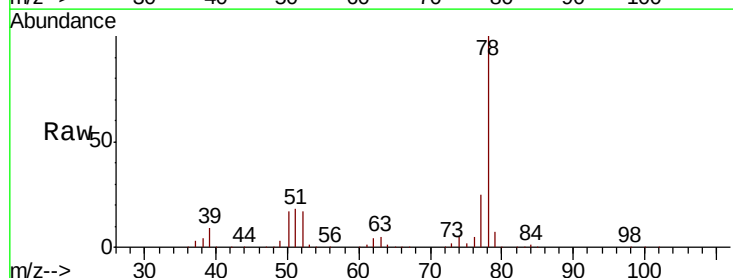
RT: 5.12 min Scan# 1254

Delta R.T. 0.00 min

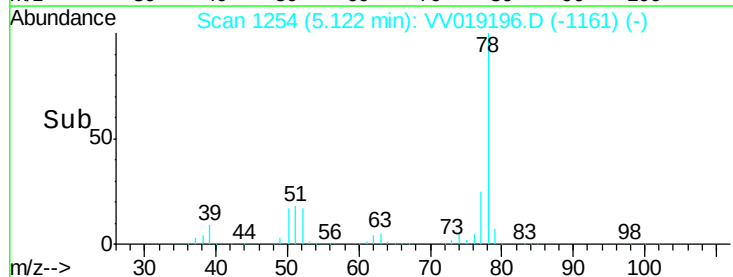
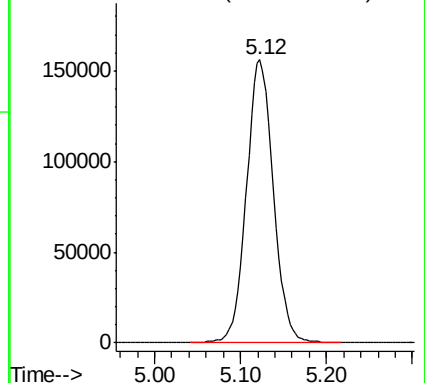
Lab File: VV019196.D

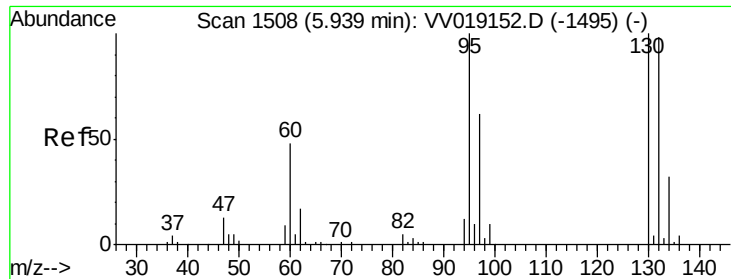
Acq: 02 Nov 2020 10:01

Tgt Ion: 78 Resp: 340320



Abundance Ion 78.00 (77.70 to 78.70): VV0

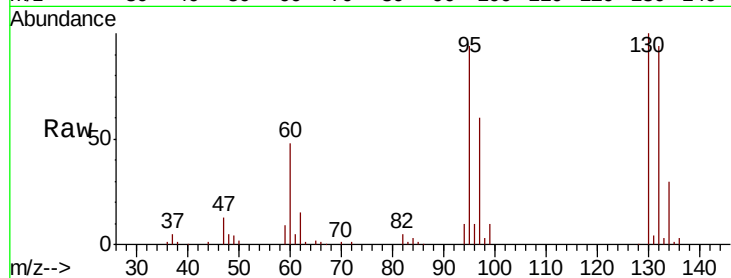




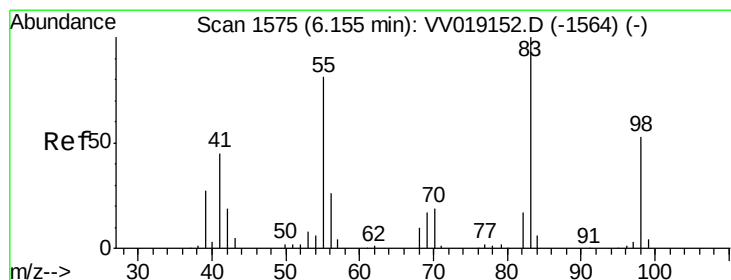
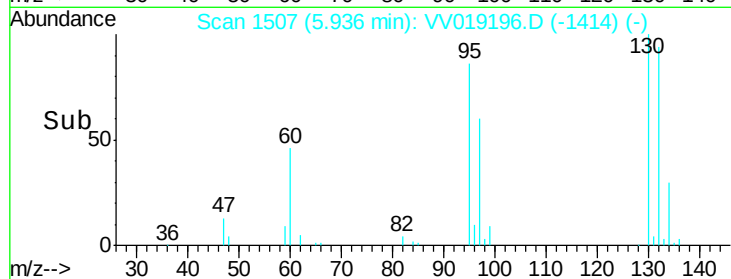
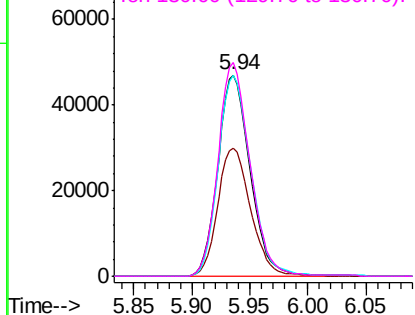
#34
 Trichloroethene
 Concen: 45.400 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

Tot Ion: 95 Resp: 90975
 Ion Ratio Lower Upper
 95 100
 97 63.8 43.4 80.6
 132 99.8 69.7 129.4
 130 106.0 72.4 134.5

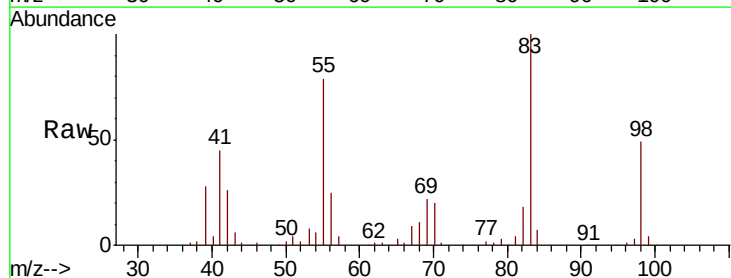


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

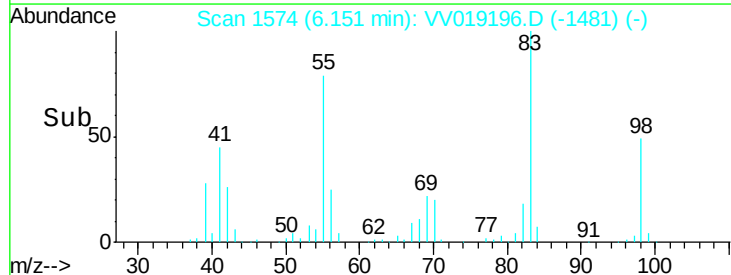
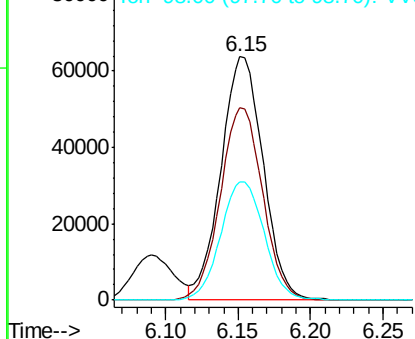


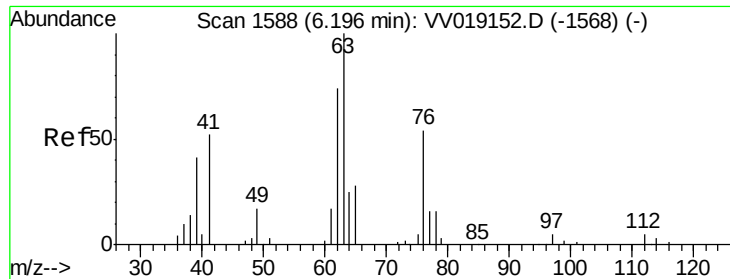
#35
 Methylcyclohexane
 Concen: 47.585 ug/L
 RT: 6.15 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion: 83 Resp: 128728
 Ion Ratio Lower Upper
 83 100
 55 79.6 62.2 93.4
 98 50.6 39.4 59.2



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

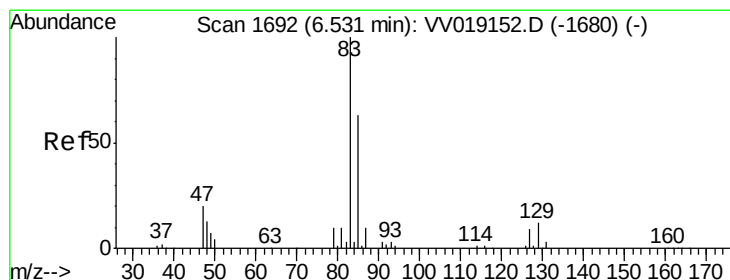
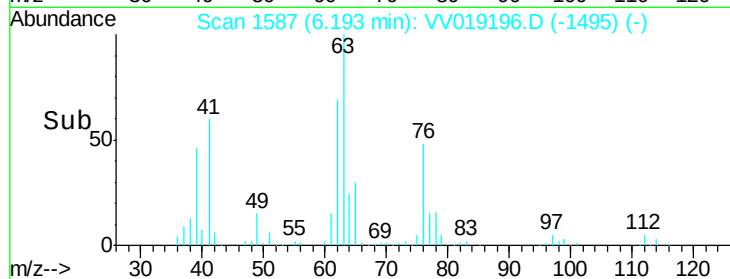
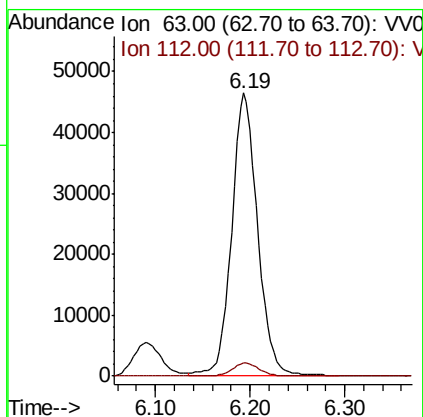
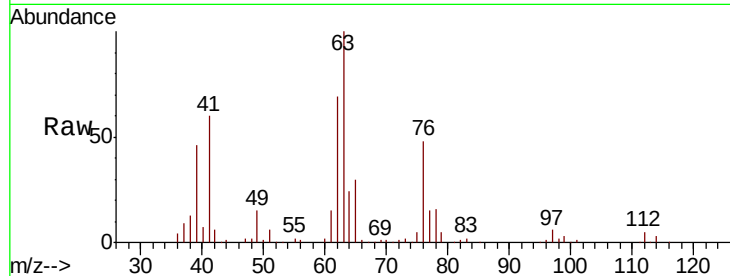




#37
 1,2-Dichloropropane
 Concen: 48.282 ug/L
 RT: 6.19 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

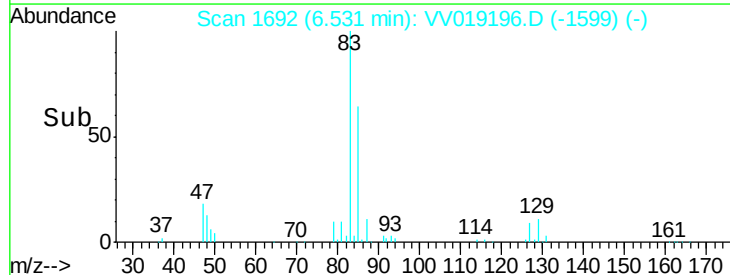
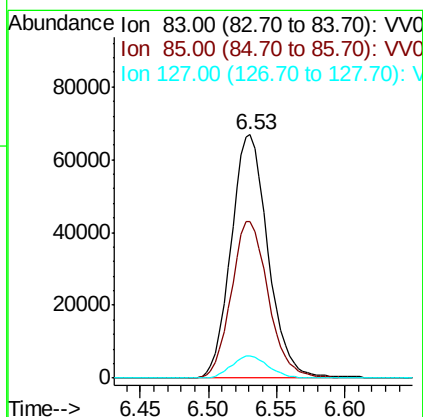
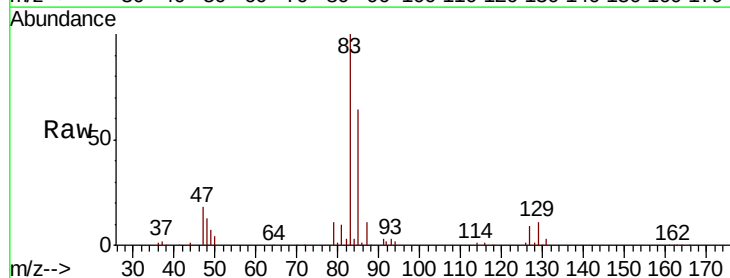
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

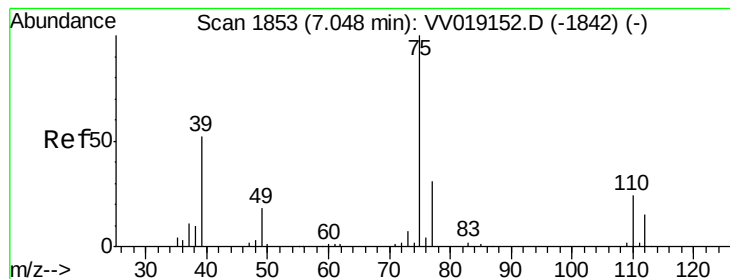
Tot Ion: 63 Resp: 87708
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.8 5.8



#38
 Bromodichloromethane
 Concen: 46.448 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion: 83 Resp: 125519
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.9 85.3
 127 9.3 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 49.527 ug/L

RT: 7.05 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

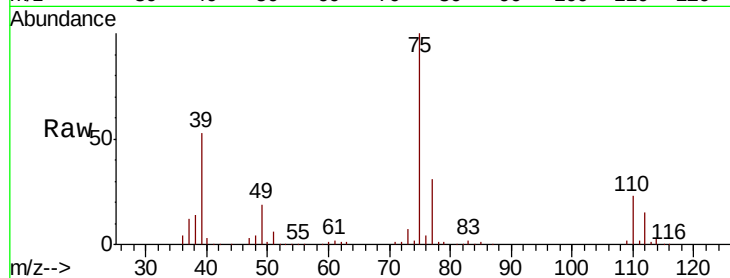
VSTD05083

Tot Ion: 75 Resp: 148607

Ion Ratio Lower Upper

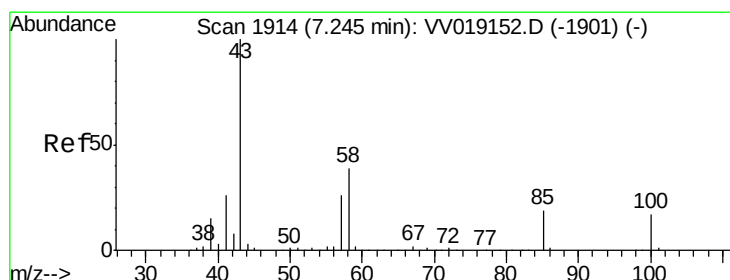
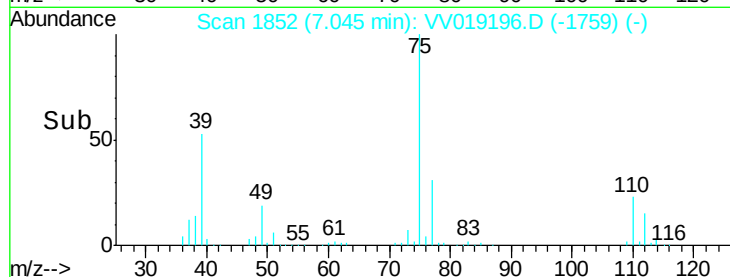
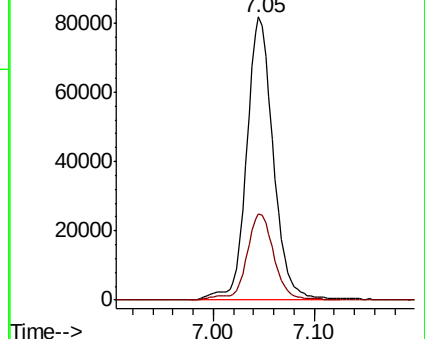
75 100

77 30.6 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#40

4-Methyl-2-pentanone

Concen: 88.470 ug/L

RT: 7.24 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

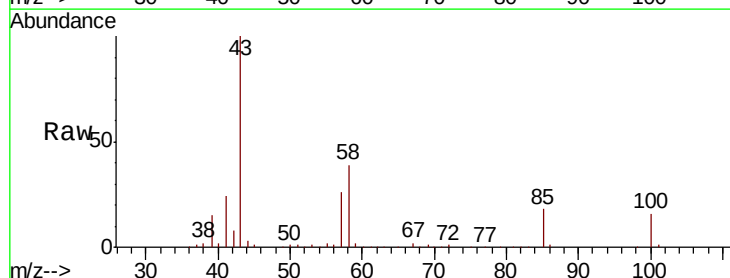
Tgt Ion: 43 Resp: 221704

Ion Ratio Lower Upper

43 100

58 38.8 31.0 46.4

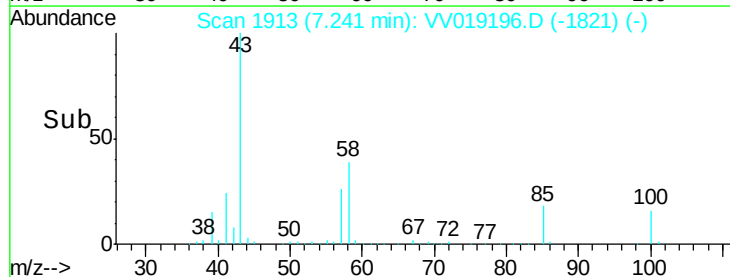
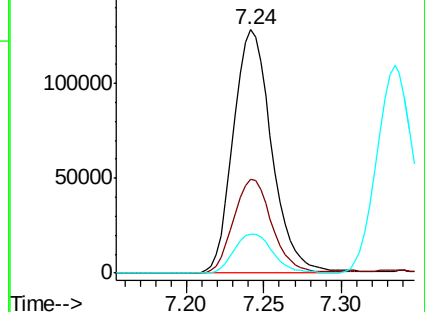
100 16.4 13.2 19.8

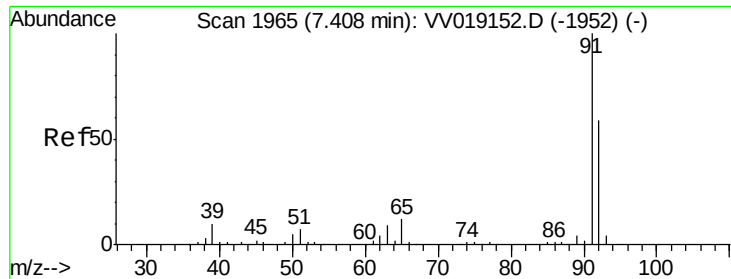


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#42

Toluene

Concen: 47.414 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

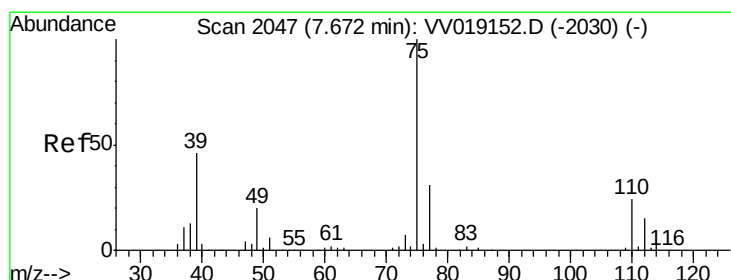
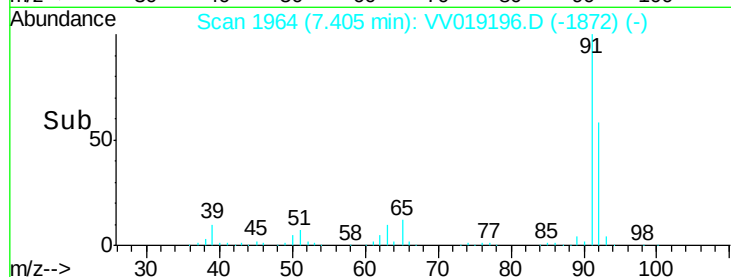
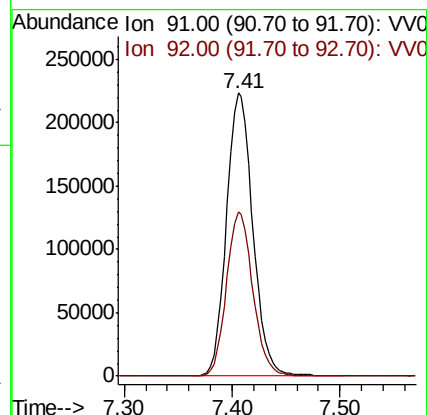
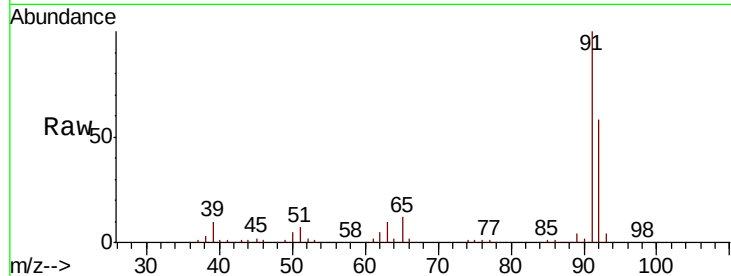
VSTD05083

Tot Ion: 91 Resp: 380208

Ion Ratio Lower Upper

91 100

92 58.3 41.5 77.1



#44

trans-1,3-Dichloropropene

Concen: 49.013 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019196.D

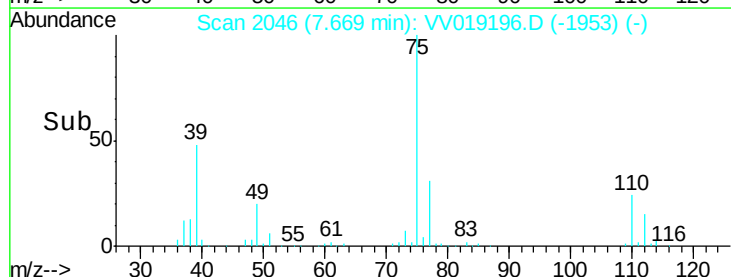
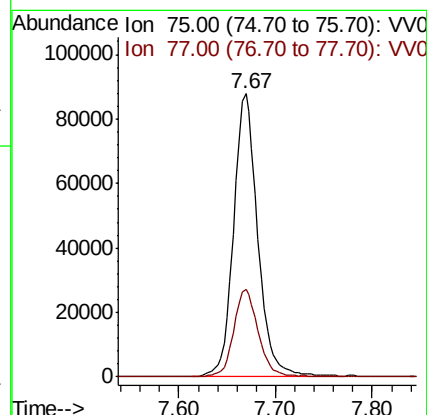
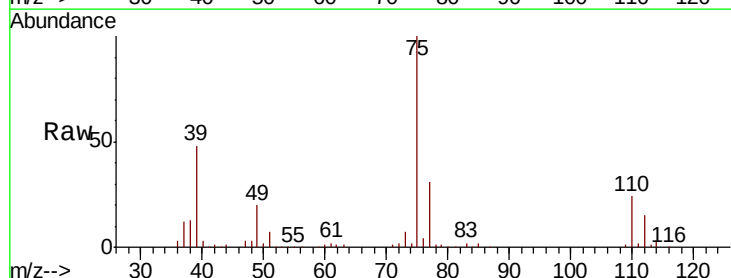
Acq: 02 Nov 2020 10:01

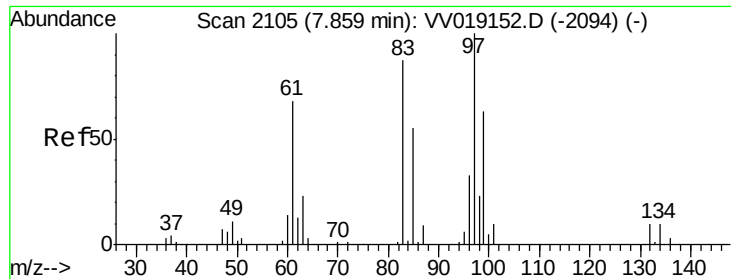
Tgt Ion: 75 Resp: 152986

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.4

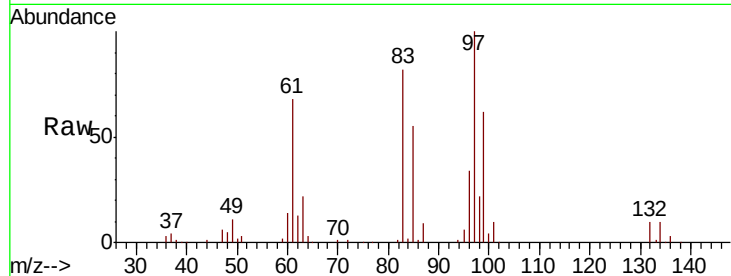




#45
 1,1,2-Trichloroethane
 Concen: 45.955 ug/L
 RT: 7.86 min Scan# 2104
 Delta R.T. -0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

Tot Ion:	97	Resp:	83724
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.1	80.1
83	81.7	58.3	108.3
85	54.7	37.8	70.2



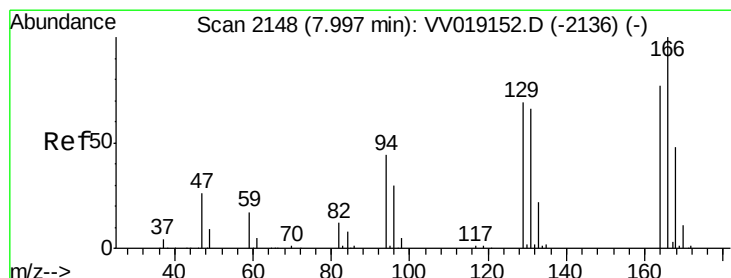
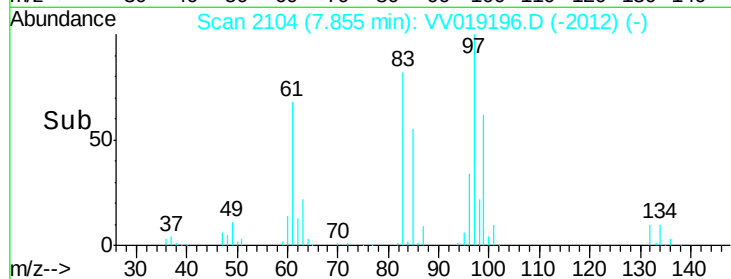
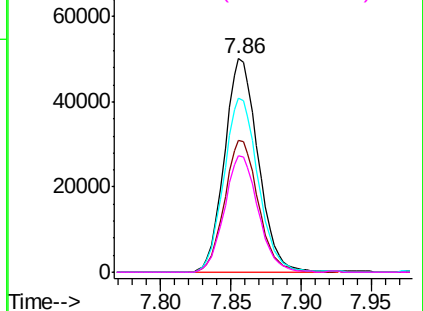
Abundance

Ion 97.00 (96.70 to 97.70): VV019196.D (-2012) (-)

Ion 99.00 (98.70 to 99.70): VV019196.D (-2012) (-)

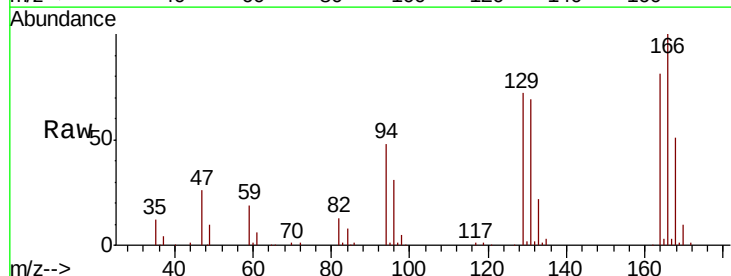
Ion 83.00 (82.70 to 83.70): VV019196.D (-2012) (-)

Ion 85.00 (84.70 to 85.70): VV019196.D (-2012) (-)



#46
 Tetrachloroethene
 Concen: 46.664 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion:	164	Resp:	79848
Ion	Ratio	Lower	Upper
164	100		
129	89.3	63.2	117.4
131	84.6	60.3	112.1
166	123.2	88.3	163.9



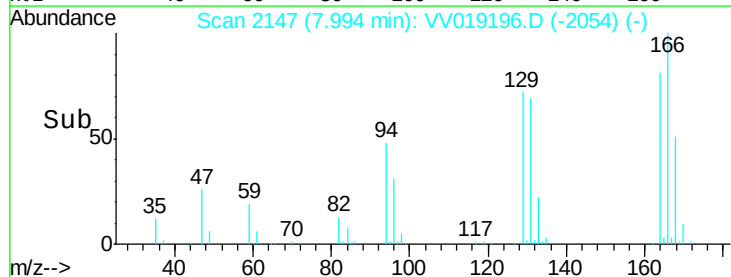
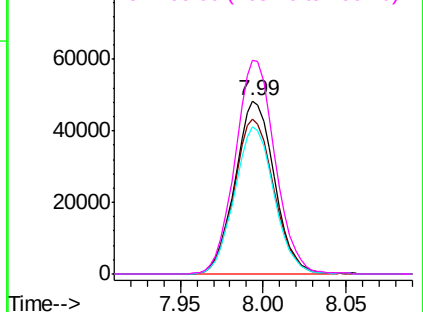
Abundance

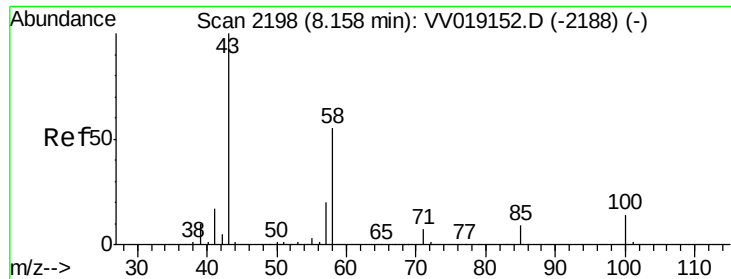
Ion 164.00 (163.70 to 164.70): VV019196.D (-2054) (-)

Ion 129.00 (128.70 to 129.70): VV019196.D (-2054) (-)

Ion 131.00 (130.70 to 131.70): VV019196.D (-2054) (-)

Ion 166.00 (165.70 to 166.70): VV019196.D (-2054) (-)

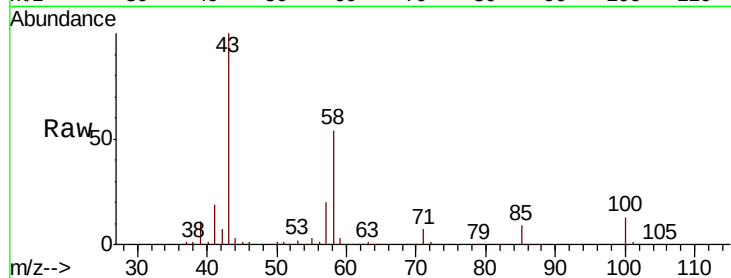




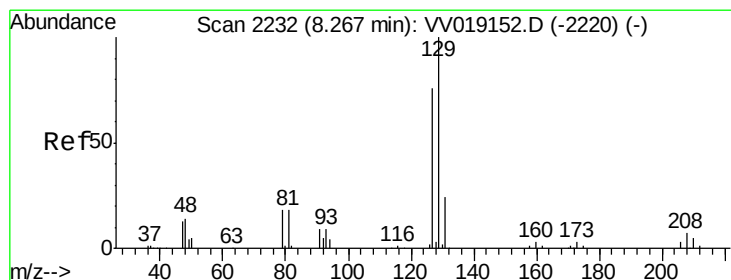
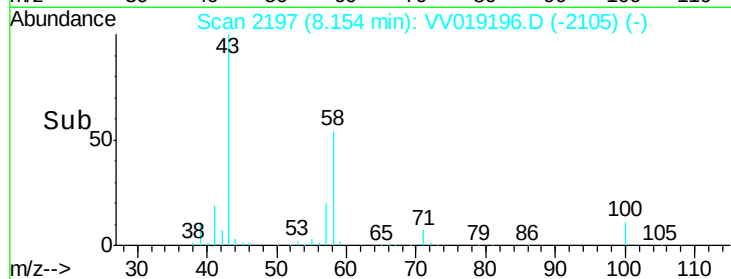
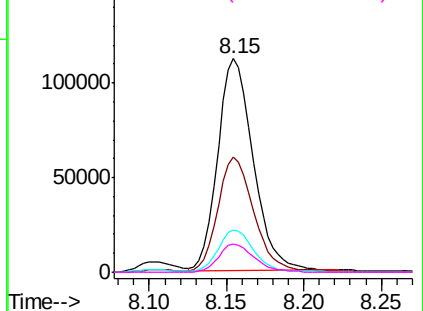
#48
2-Hexanone
Concen: 90.231 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VV019196.D
Acq: 02 Nov 2020 10:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD05083

Tot Ion: 43 Resp: 179727
Ion Ratio Lower Upper
43 100
58 54.9 43.6 65.4
57 20.4 16.0 24.0
100 13.5 10.3 15.5

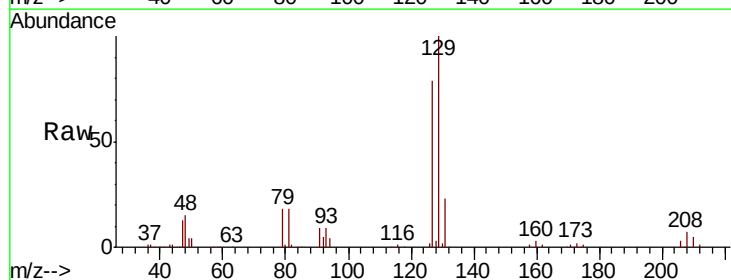


Abundance Ion 43.00 (42.70 to 43.70): VV019196.D (-2197) (-)
Ion 58.00 (57.70 to 58.70): VV019196.D (-2197) (-)
Ion 57.00 (56.70 to 57.70): VV019196.D (-2197) (-)
Ion 100.00 (99.70 to 100.70): VV019196.D (-2197) (-)

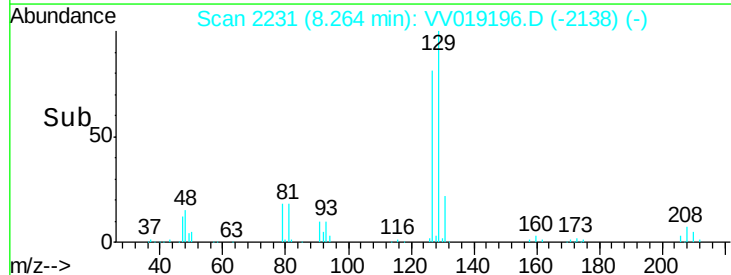
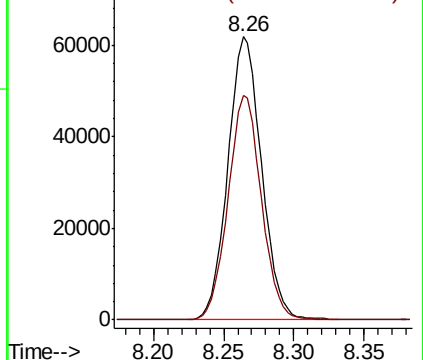


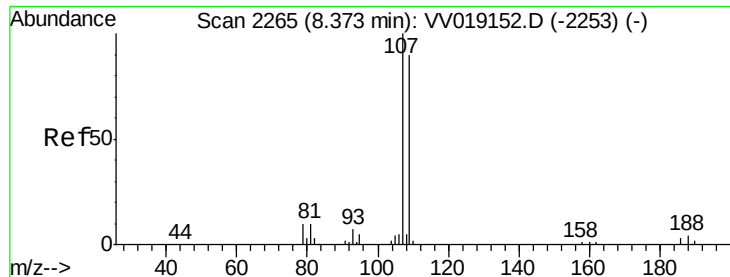
#49
Dibromochloromethane
Concen: 46.930 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. 0.00 min
Lab File: VV019196.D
Acq: 02 Nov 2020 10:01

Tgt Ion: 129 Resp: 103524
Ion Ratio Lower Upper
129 100
127 79.5 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): VV019196.D (-2231) (-)
Ion 127.00 (126.70 to 127.70): VV019196.D (-2231) (-)

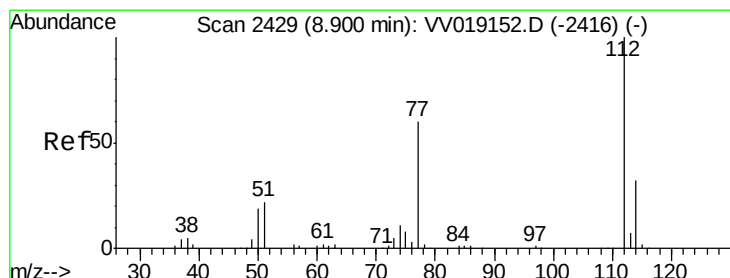
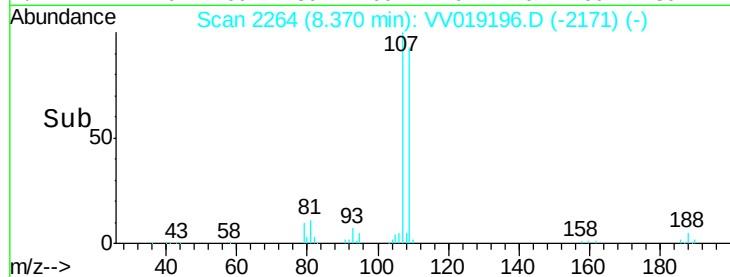
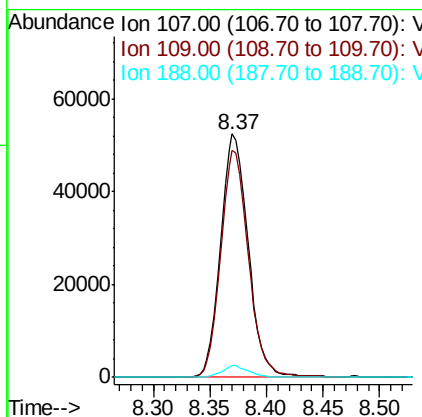
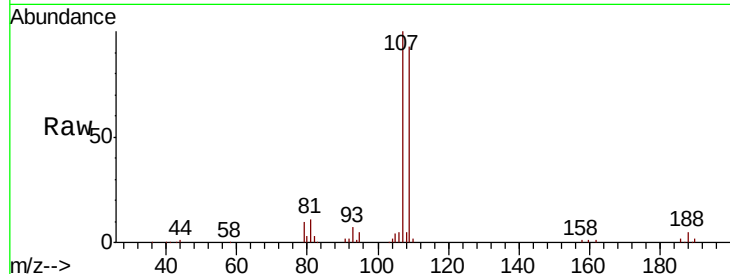




#50
 1,2-Dibromoethane
 Concen: 45.926 ug/L
 RT: 8.37 min Scan# 2264
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

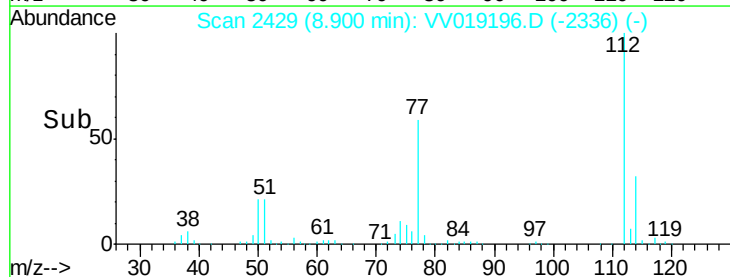
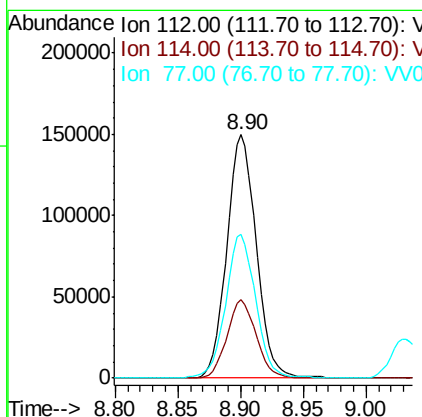
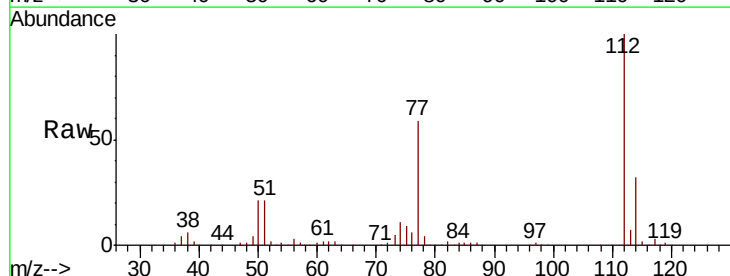
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

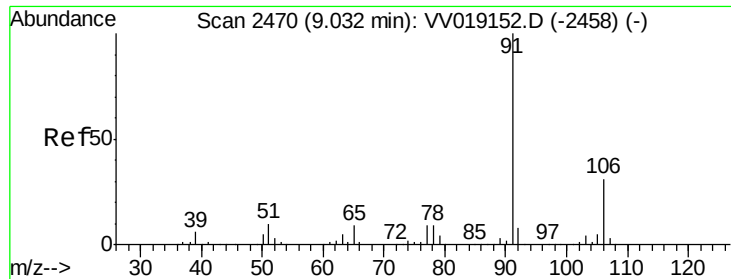
Tot Ion:107 Resp: 89271
 Ion Ratio Lower Upper
 107 100
 109 93.5 65.7 121.9
 188 4.9 3.4 5.2



#51
 Chlorobenzene
 Concen: 46.733 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion:112 Resp: 245695
 Ion Ratio Lower Upper
 112 100
 114 32.0 22.3 41.5
 77 59.0 46.7 70.1





#52

Ethylbenzene

Concen: 48.213 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

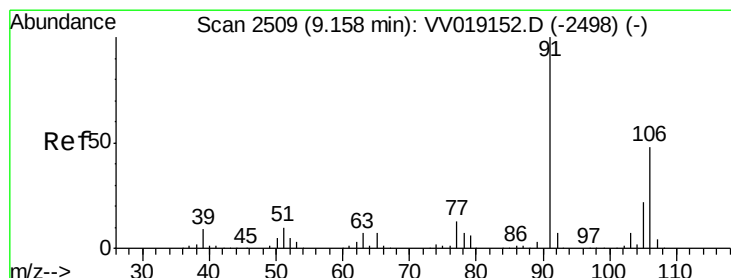
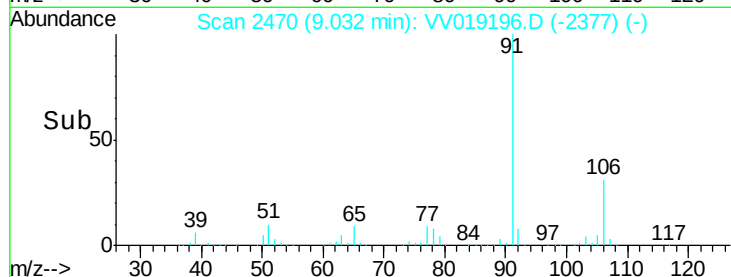
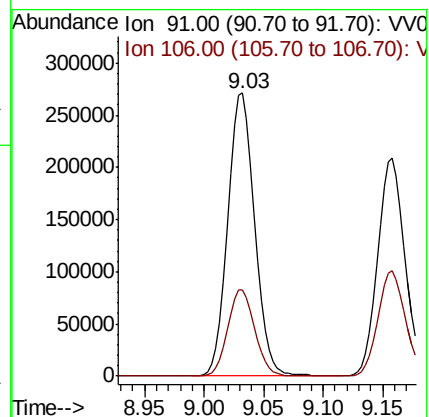
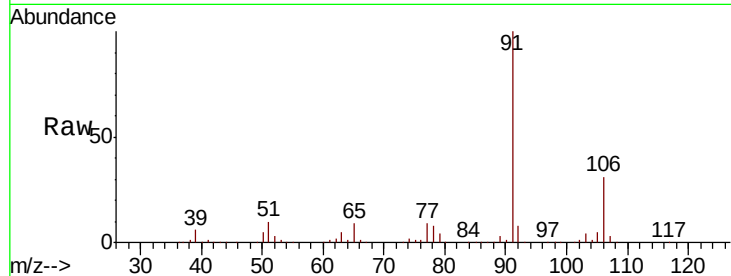
VSTD05083

Tot Ion: 91 Resp: 426010

Ion Ratio Lower Upper

91 100

106 30.5 21.6 40.0



#53

m,p-Xylene

Concen: 48.200 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019196.D

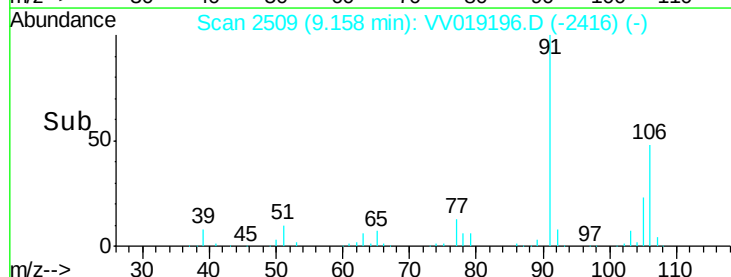
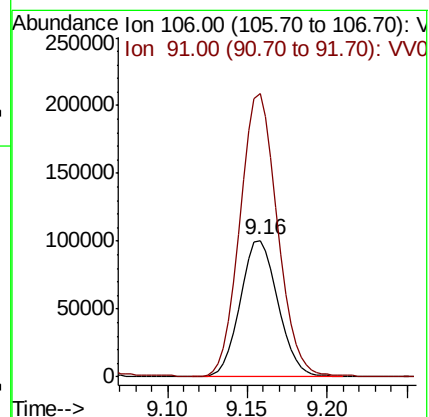
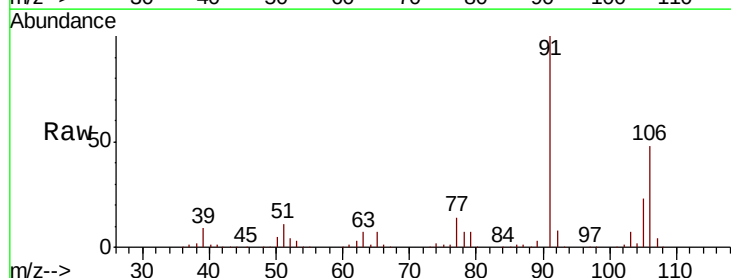
Acq: 02 Nov 2020 10:01

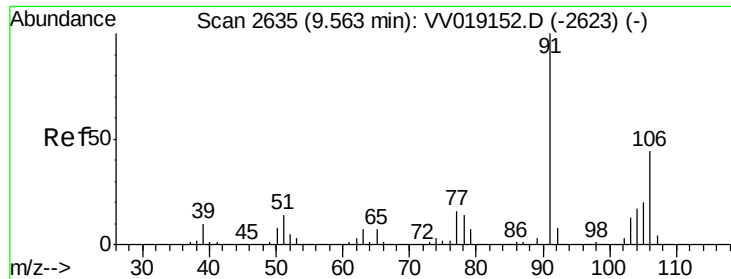
Tgt Ion: 106 Resp: 160861

Ion Ratio Lower Upper

106 100

91 207.0 145.4 270.0





#54

o-xylene

Concen: 47.882 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

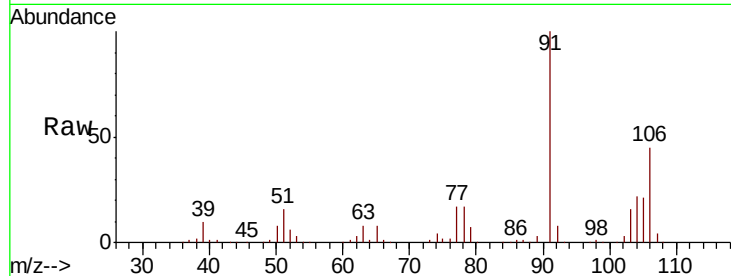
VSTD05083

Tot Ion:106 Resp: 153427

Ion Ratio Lower Upper

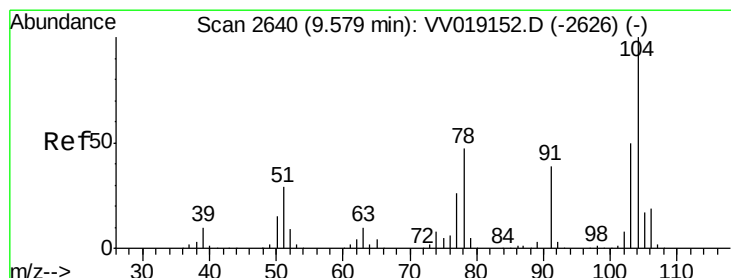
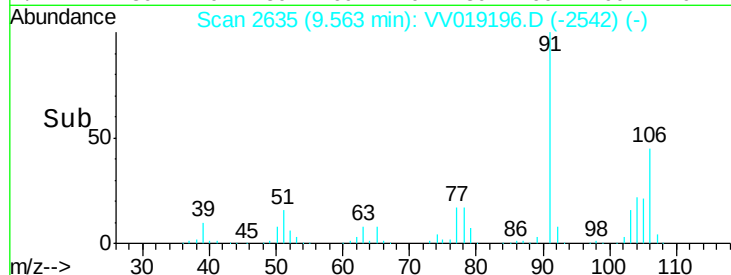
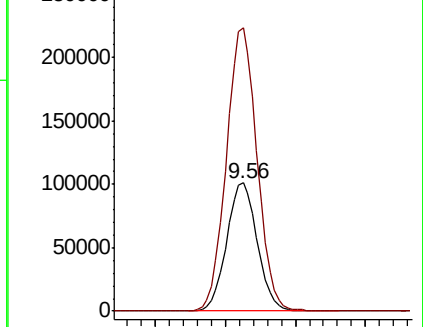
106 100

91 220.5 153.4 285.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.469 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019196.D

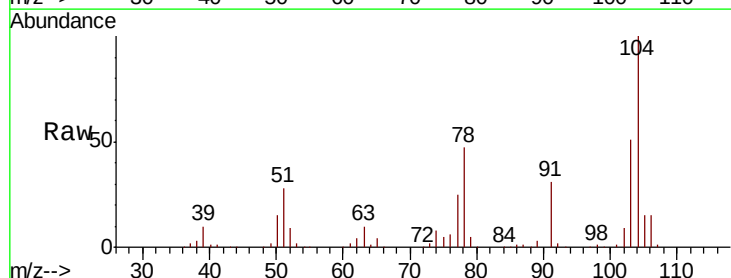
Acq: 02 Nov 2020 10:01

Tgt Ion:104 Resp: 275263

Ion Ratio Lower Upper

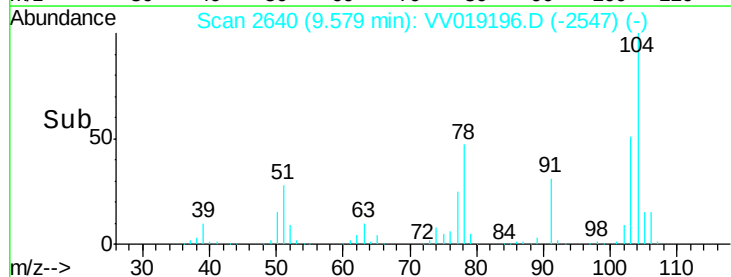
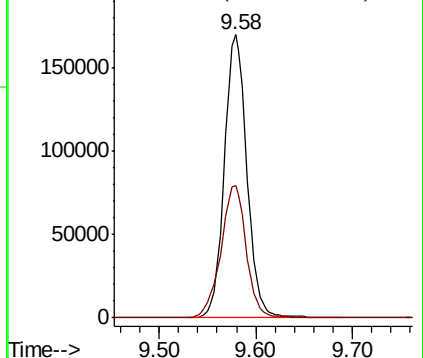
104 100

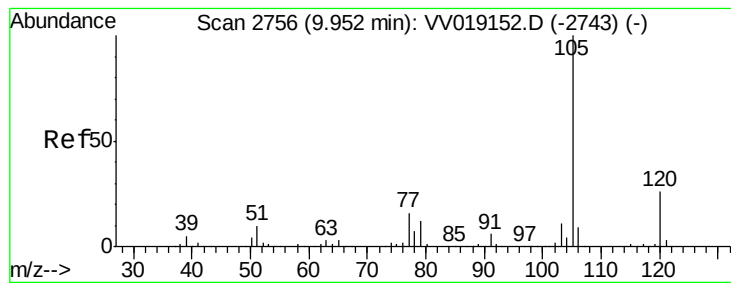
78 46.7 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 48.680 ug/L

RT: 9.95 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

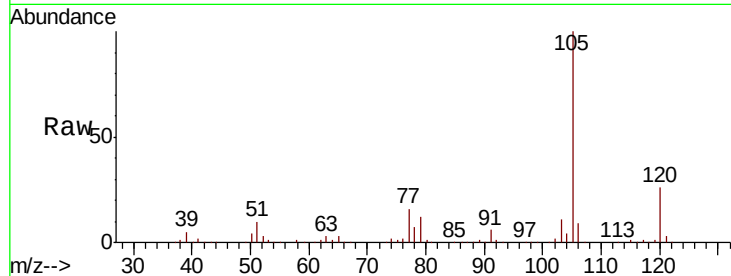
Tot Ion:105 Resp: 419195

Ion Ratio Lower Upper

105 100

120 26.2 21.3 31.9

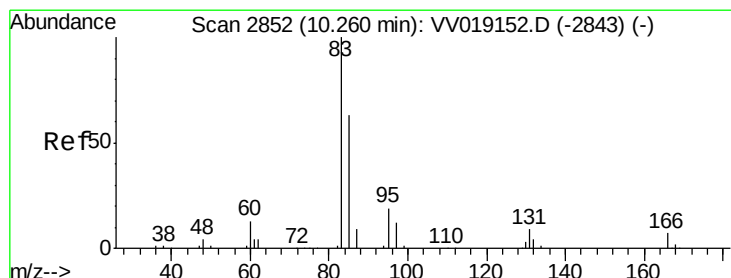
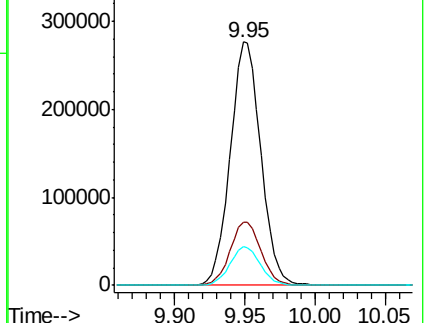
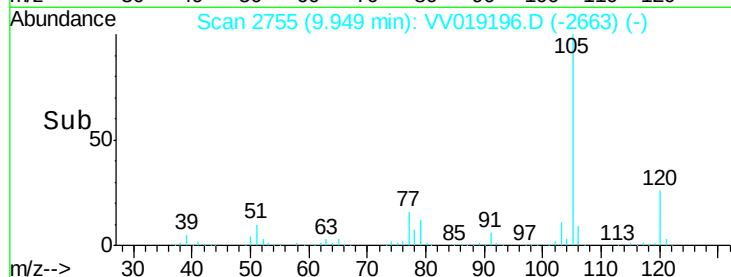
77 15.9 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 45.150 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

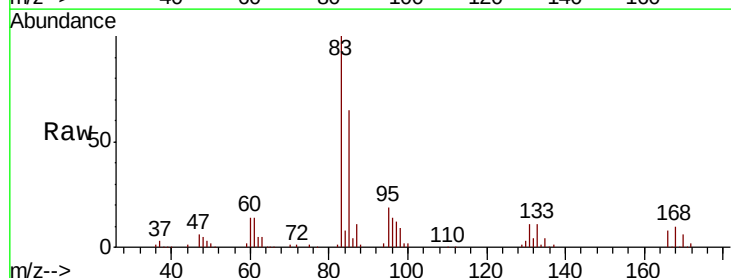
Tgt Ion: 83 Resp: 125255

Ion Ratio Lower Upper

83 100

85 64.8 45.8 85.0

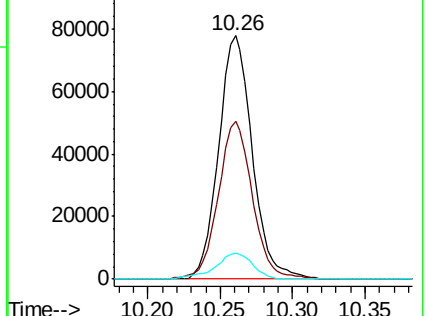
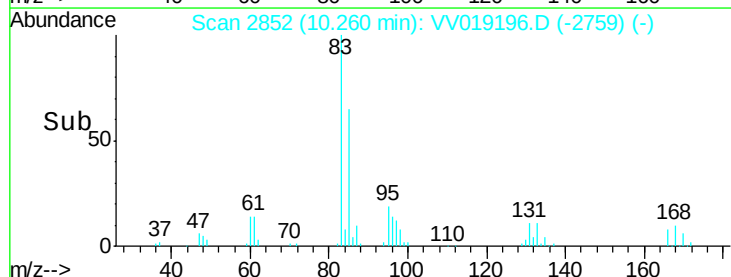
131 10.6 8.9 13.3

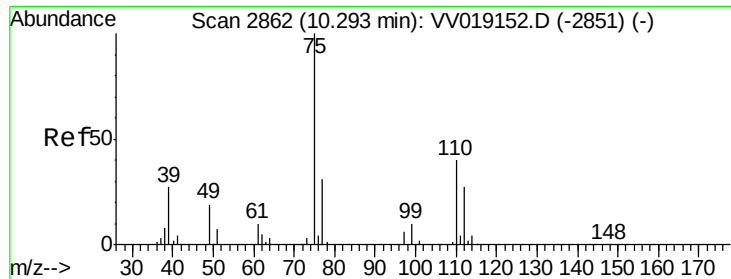


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

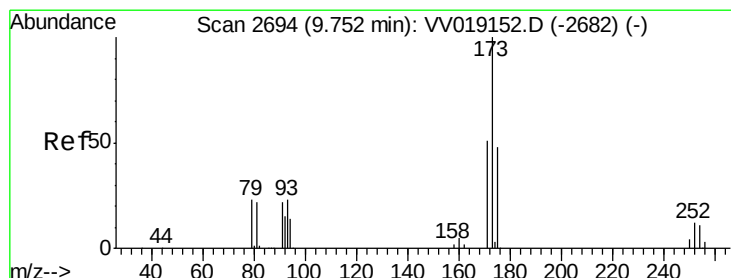
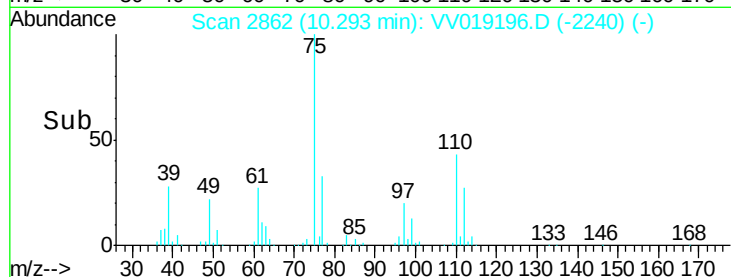
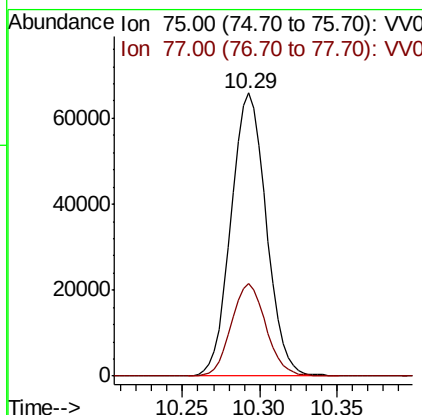
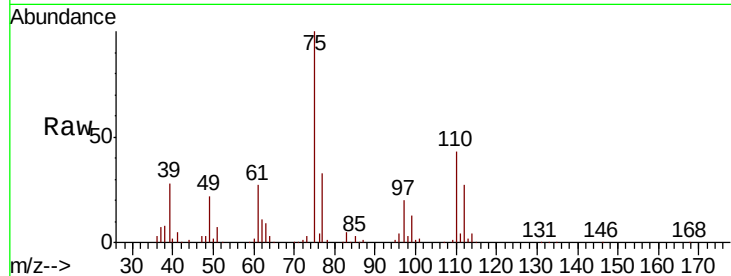




#59
 1,2,3-Trichloropropane
 Concen: 43.888 ug/L
 RT: 10.29 min Scan# 2862
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

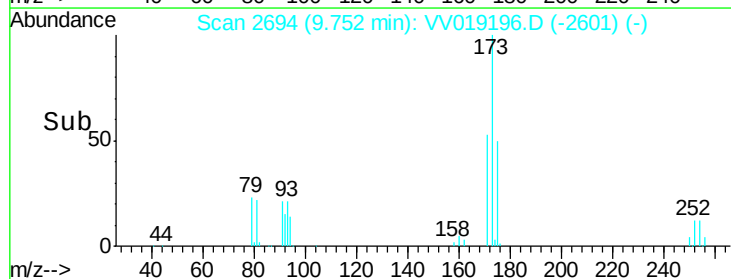
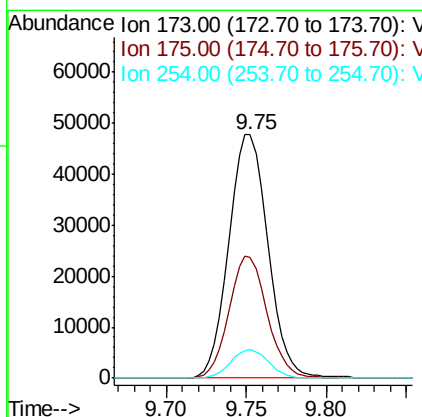
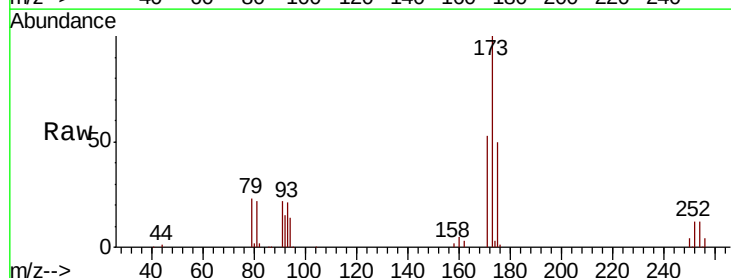
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

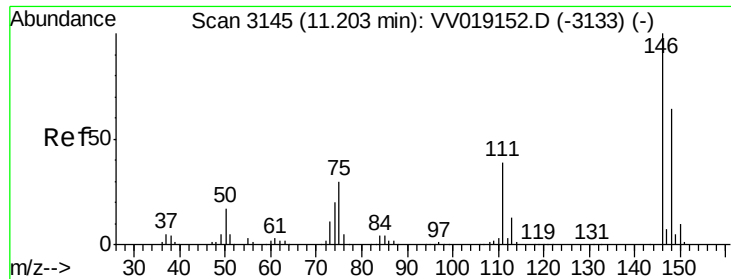
Tot Ion: 75 Resp: 104224
 Ion Ratio Lower Upper
 75 100
 77 32.0 26.2 39.4



#61
 Bromoform
 Concen: 45.135 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion: 173 Resp: 79663
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.8 59.6
 254 11.3 9.7 14.5

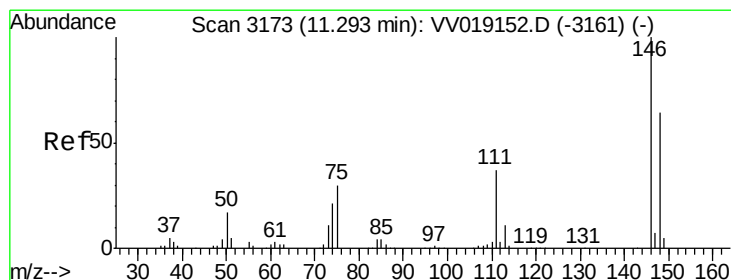
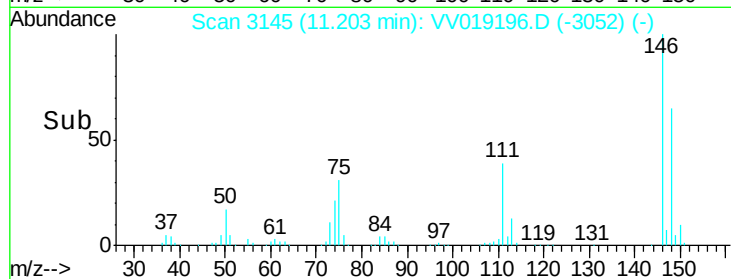
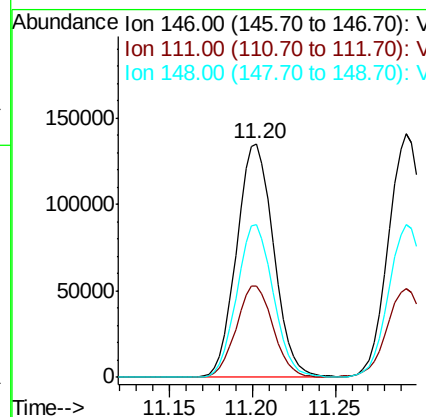
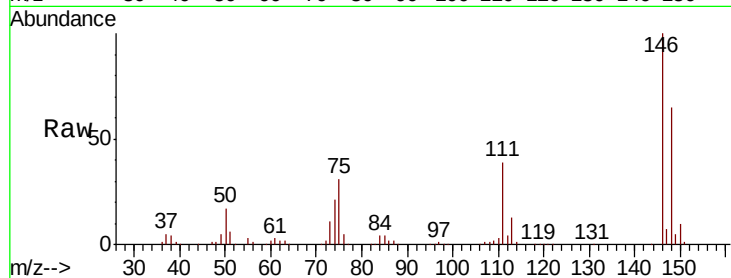




#62
 1,3-Dichlorobenzene
 Concen: 46.582 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

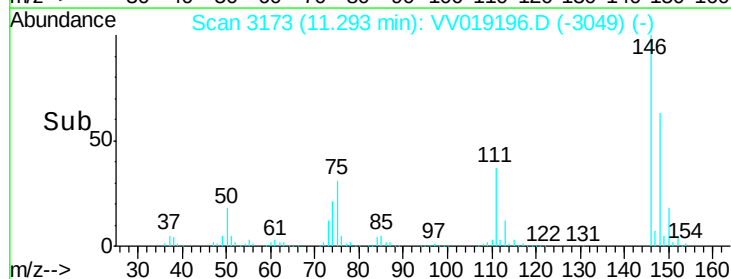
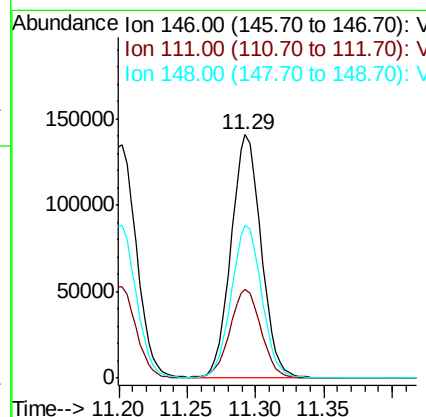
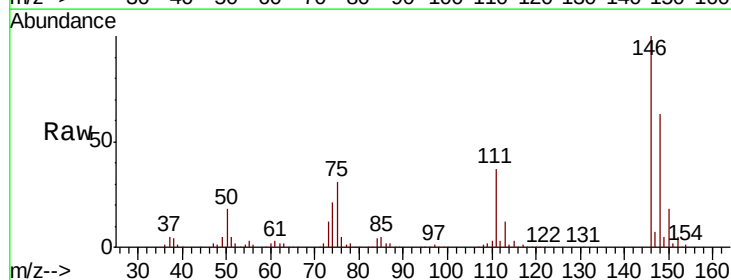
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

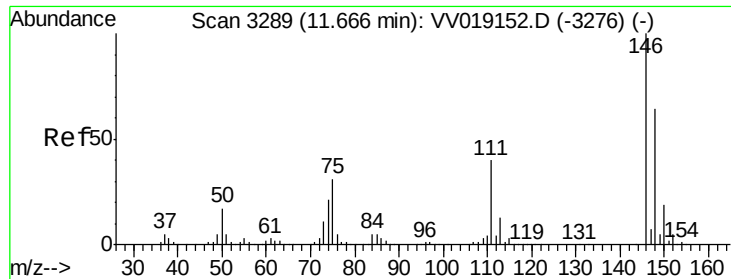
Tot Ion:146 Resp: 210234
 Ion Ratio Lower Upper
 146 100
 111 39.2 27.1 50.3
 148 65.3 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 45.896 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion:146 Resp: 215272
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.8 48.0
 148 62.8 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 46.186 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

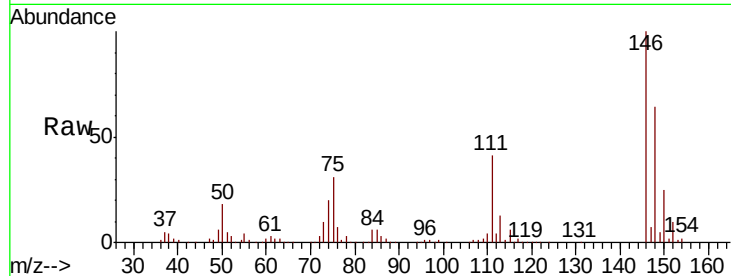
Tot Ion:146 Resp: 206494

Ion Ratio Lower Upper

146 100

111 40.5 32.2 48.4

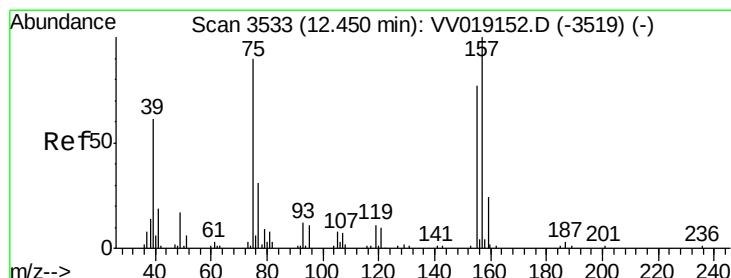
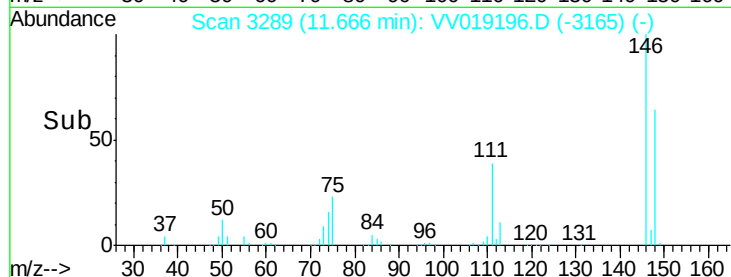
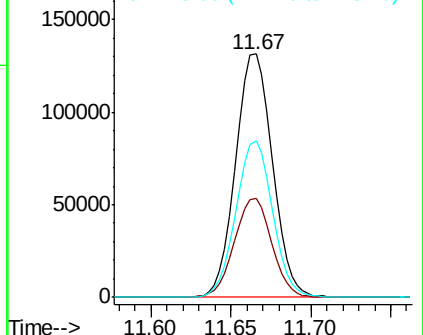
148 64.2 50.8 76.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 40.548 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

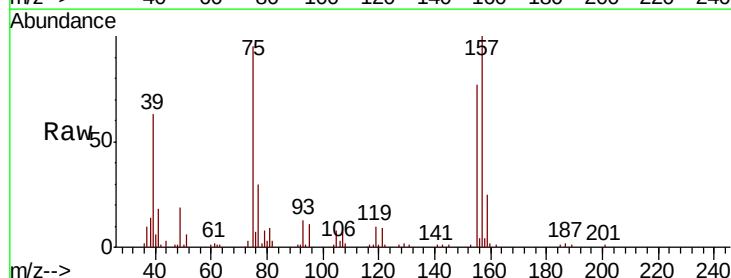
Tgt Ion: 75 Resp: 31019

Ion Ratio Lower Upper

75 100

155 81.6 71.1 106.7

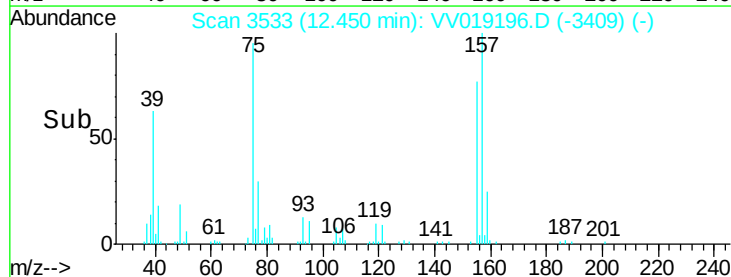
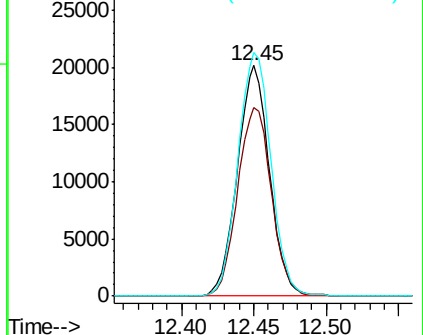
157 105.5 90.5 135.7

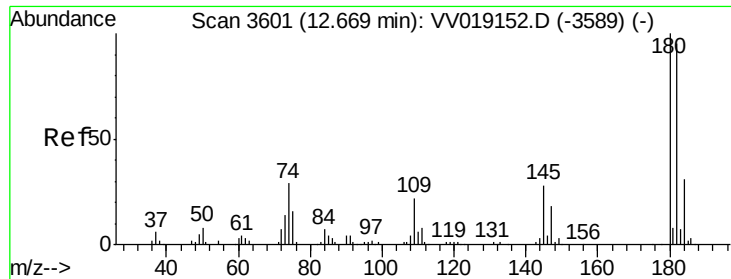


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

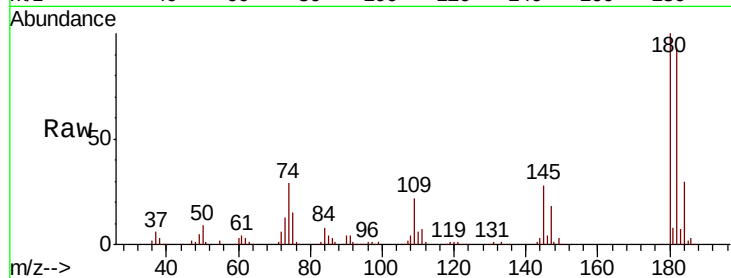




#67
 1,3,5-Trichlorobenzene
 Concen: 46.293 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05083

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.1	114.1
184	30.2	24.5	36.7
145	28.3	22.7	34.1



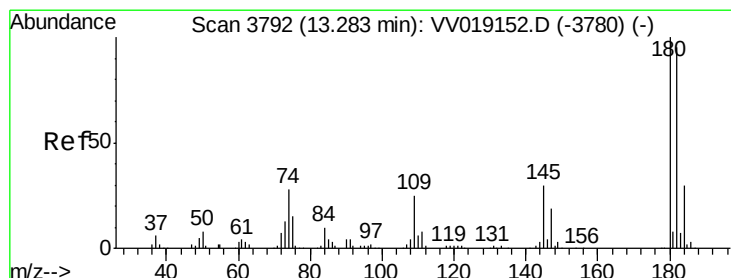
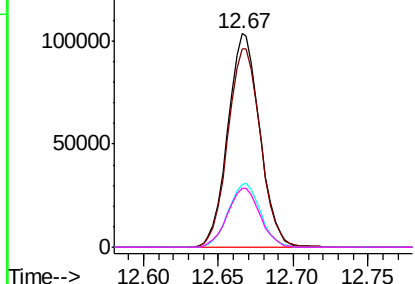
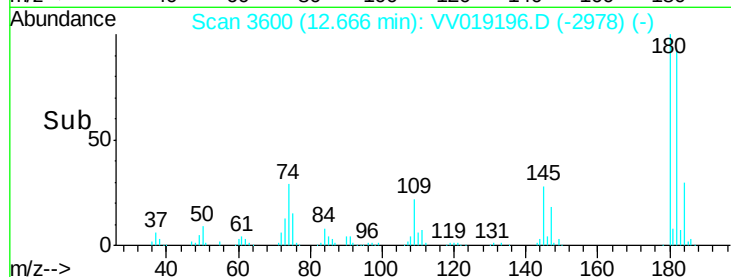
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

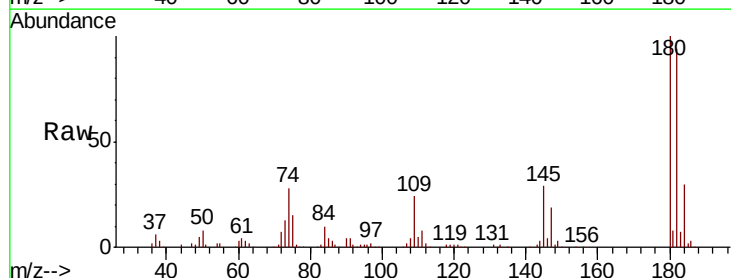
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 46.136 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019196.D
 Acq: 02 Nov 2020 10:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.8	113.6
145	28.5	22.6	34.0

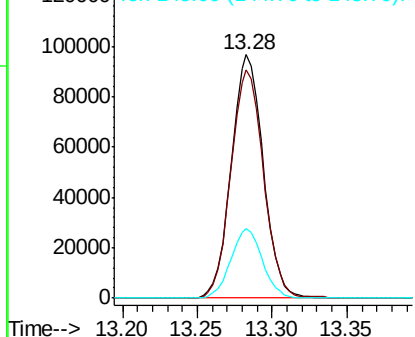
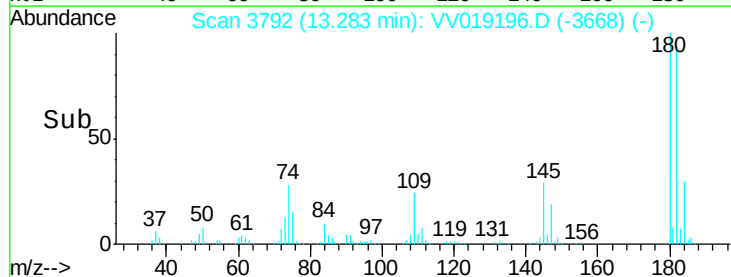


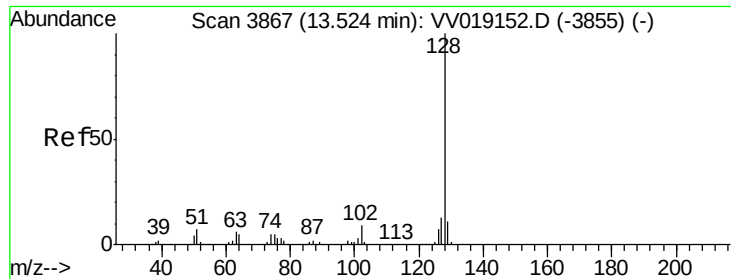
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 45.712 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD05083

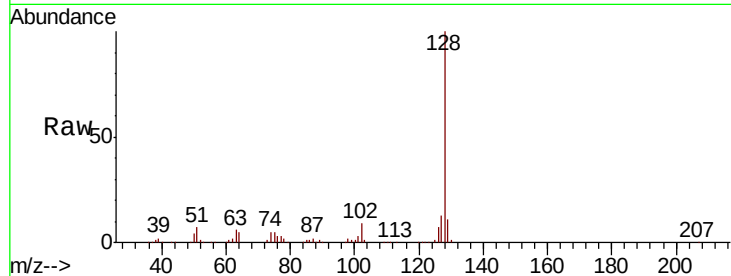
Tot Ion:128 Resp: 398543

Ion Ratio Lower Upper

128 100

127 13.0 10.8 16.2

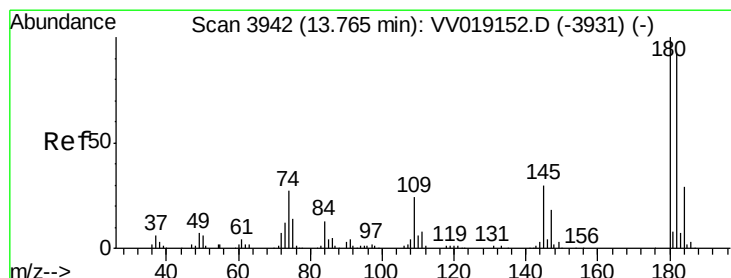
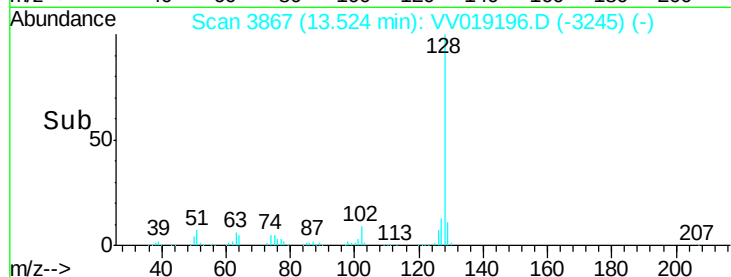
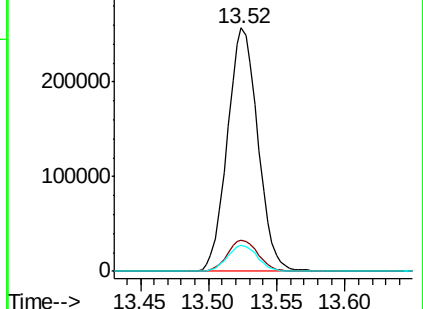
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 46.080 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019196.D

Acq: 02 Nov 2020 10:01

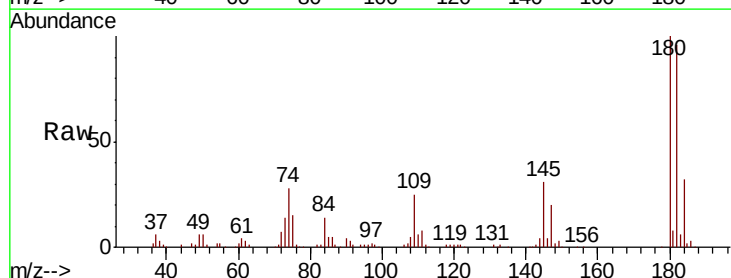
Tgt Ion:180 Resp: 140368

Ion Ratio Lower Upper

180 100

182 95.9 76.2 114.4

145 30.9 25.1 37.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

