

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110320\
 Data File : VV019210.D
 Acq On : 02 Nov 2020 19:22
 Operator : SY/MD
 Sample : VSTD10063
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

Quant Time: Nov 03 04:32:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 04:30:18 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	242132	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	233608	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	129785	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	190425	184.69	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	369.38%#
7) Chloroethane-d5	1.58	69	146870	185.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	370.80%#
11) 1,1-Dichloroethene-d2	2.12	63	348857	183.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	366.60%#
21) 2-Butanone-d5	3.90	46	236331	278.81	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	278.81%#
24) Chloroform-d	4.37	84	359421	126.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	253.24%#
26) 1,2-Dichloroethane-d4	5.05	65	248019	134.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	269.38%#
32) Benzene-d6	5.07	84	671426	119.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	239.48%#
36) 1,2-Dichloropropane-d6	6.09	67	201256	118.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	237.46%#
41) Toluene-d8	7.33	98	630901	118.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	236.66%#
43) trans-1,3-Dichloropropene-	7.64	79	119032	125.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	250.00%#
47) 2-Hexanone-d5	8.10	63	175419	263.02	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	263.02%#
56) 1,1,2,2-Tetrachloroethane-	10.23	84	270803	116.18	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	232.36%#
66) 1,2-Dichlorobenzene-d4	11.65	152	267708	116.15	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	232.30%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	146512	87.663	ug/L 100
3) Chloromethane	1.25	50	157238	109.673	ug/L 99
5) Vinyl chloride	1.32	62	166228	138.890	ug/L 98
6) Bromomethane	1.53	94	112028	161.053	ug/L 99
8) Chloroethane	1.60	64	108476	166.272	ug/L 100
9) Trichlorofluoromethane	1.76	101	261122	122.788	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	125791	135.470	ug/L 100
12) 1,1-Dichloroethene	2.13	96	132079	149.754	ug/L 94
13) Acetone	2.19	43	158059	223.302	ug/L 100
14) Carbon disulfide	2.31	76	379934	105.800	ug/L 99
15) Methyl Acetate	2.44	43	159878	119.382	ug/L 99
16) Methylene chloride	2.52	84	158255	100.184	ug/L 99
17) trans-1,2-Dichloroethene	2.78	96	146096	101.282	ug/L 98
18) Methyl tert-butyl Ether	2.78	73	531309	108.960	ug/L 100
19) 1,1-Dichloroethane	3.21	63	284911	108.667	ug/L 99
20) cis-1,2-Dichloroethene	3.94	96	167268	99.445	ug/L 97
22) 2-Butanone	3.99	43	223950	217.131	ug/L 100

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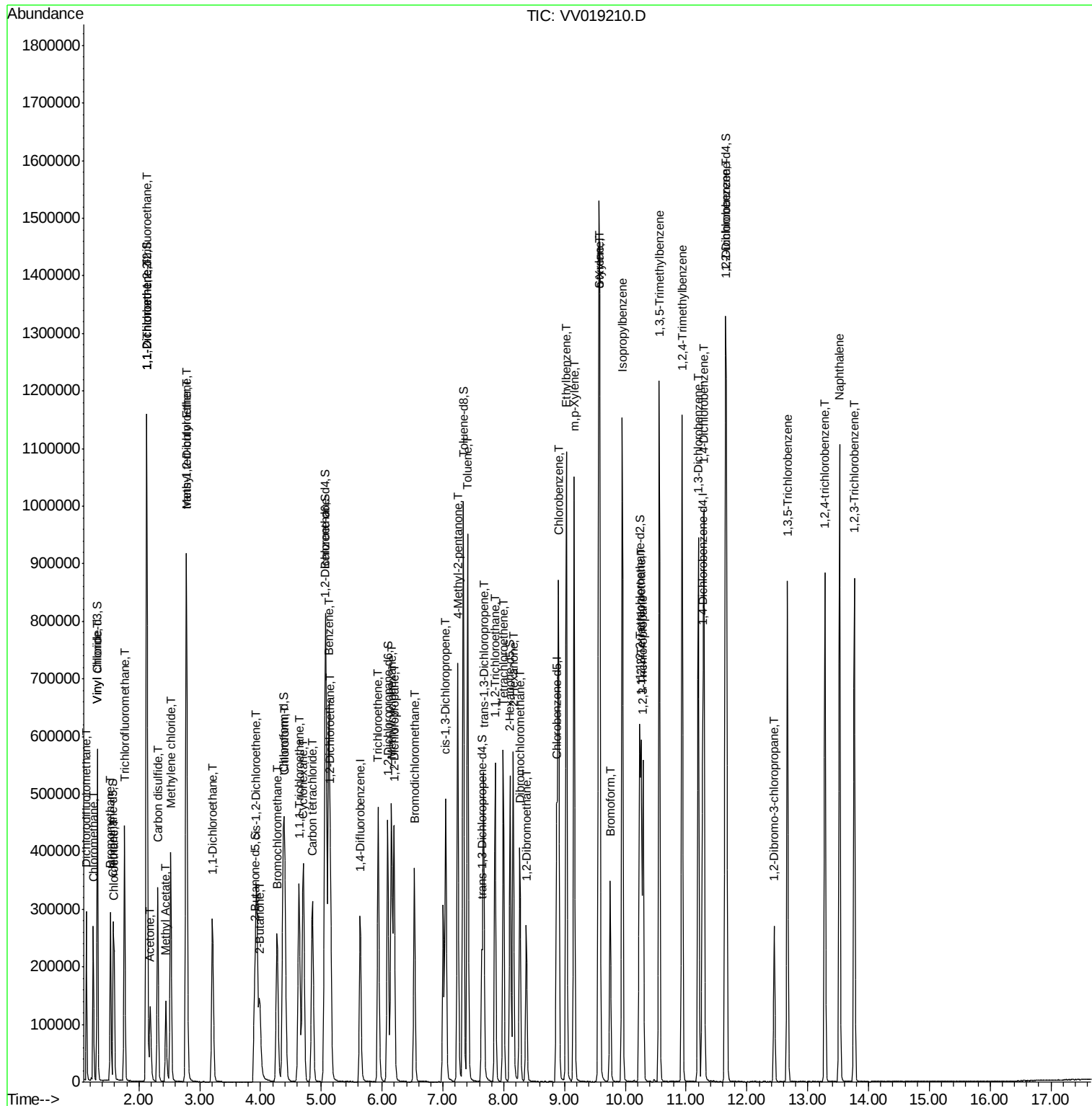
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	90199	106.101	ug/L	99
25) Chloroform	4.40	83	308828	104.577	ug/L	100
27) 1,2-Dichloroethane	5.15	62	262511	115.742	ug/L	100
29) Cyclohexane	4.70	56	206212	91.545	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	279048	105.084	ug/L	99
31) Carbon tetrachloride	4.85	117	238497	101.119	ug/L	99
33) Benzene	5.12	78	612660	100.834	ug/L	100
34) Trichloroethene	5.94	95	158428	95.519	ug/L	98
35) Methylcyclohexane	6.15	83	195762	78.294	ug/L	99
37) 1,2-Dichloropropane	6.20	63	161425	107.881	ug/L	99
38) Bromodichloromethane	6.53	83	237549	102.631	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	271538	104.128	ug/L	99
40) 4-Methyl-2-pentanone	7.24	43	458517	238.258	ug/L	98
42) Toluene	7.41	91	660158	98.925	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	283434	113.992	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	161231	101.547	ug/L	98
46) Tetrachloroethene	7.99	164	127860	95.822	ug/L	98
48) 2-Hexanone	8.15	43	352572	237.027	ug/L	100
49) Dibromochloromethane	8.27	129	197551	103.010	ug/L	100
50) 1,2-Dibromoethane	8.37	107	169930	97.960	ug/L	98
51) Chlorobenzene	8.90	112	433748	96.663	ug/L	100
52) Ethylbenzene	9.03	91	727434	95.343	ug/L	99
53) m,p-Xylene	9.16	106	273104	92.694	ug/L	98
54) o-Xylene	9.56	106	272599	96.035	ug/L	98
55) Styrene	9.58	104	493776	101.246	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.26	83	246587	98.592	ug/L	99
59) Bromoform	9.75	173	154442	104.323	ug/L	98
60) Isopropylbenzene	9.95	105	708481	87.710	ug/L	100
61) 1,2,3-Trichloropropane	10.29	75	207663	96.533	ug/L	99
62) 1,3,5-Trimethylbenzene	10.56	105	608851	88.304	ug/L	98
63) 1,2,4-Trimethylbenzene	10.94	105	598835	88.950	ug/L	99
64) 1,3-Dichlorobenzene	11.20	146	364111	92.637	ug/L	99
65) 1,4-Dichlorobenzene	11.29	146	374032	92.486	ug/L	99
67) 1,2-Dichlorobenzene	11.67	146	371423	95.421	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	65239	100.569	ug/L	97
69) 1,3,5-Trichlorobenzene	12.67	180	263276	92.931	ug/L	100
70) 1,2,4-trichlorobenzene	13.28	180	259531	100.718	ug/L	100
71) Naphthalene	13.52	128	816060	104.890	ug/L	100
72) 1,2,3-Trichlorobenzene	13.77	180	262116	103.500	ug/L	100

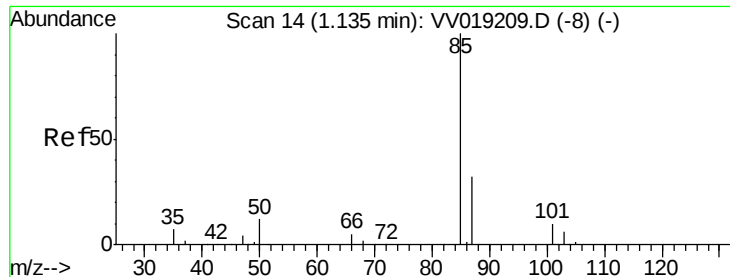
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 87.663 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

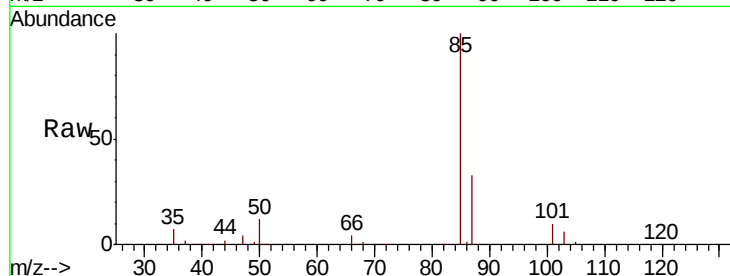
VSTD100305

Tot Ion: 85 Resp: 146512

Ion Ratio Lower Upper

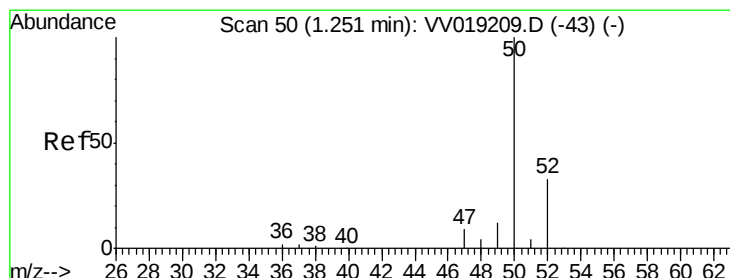
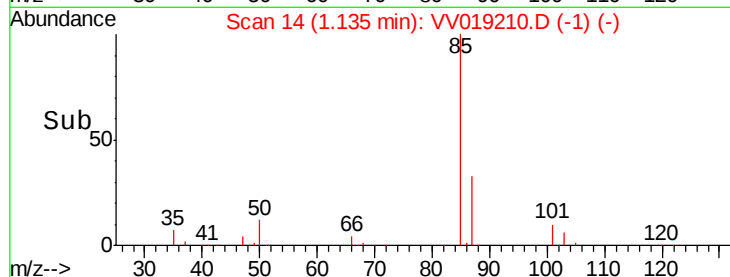
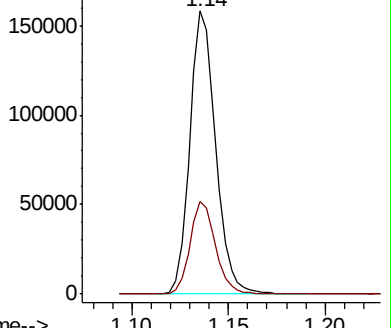
85 100

87 32.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV019210.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV019210.D (-1) (-)



#3

Chloromethane

Concen: 109.673 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019210.D

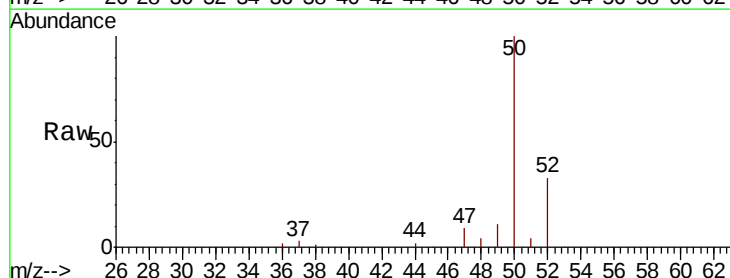
Acq: 02 Nov 2020 19:22

Tgt Ion: 50 Resp: 157238

Ion Ratio Lower Upper

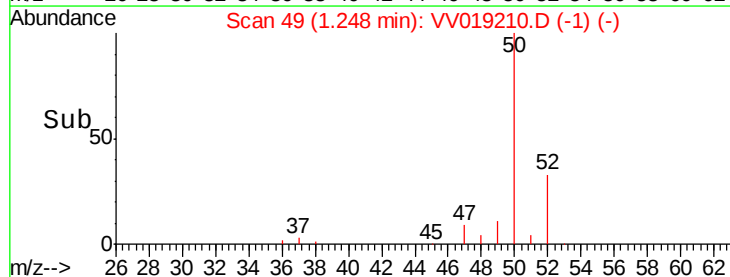
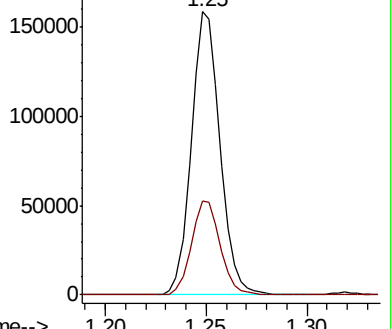
50 100

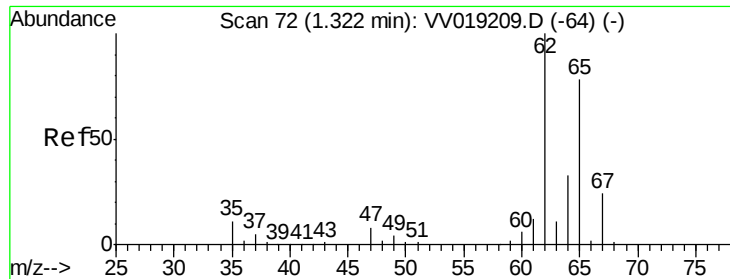
52 33.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV019210.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV019210.D (-1) (-)





#5

Vinyl chloride

Concen: 138.890 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

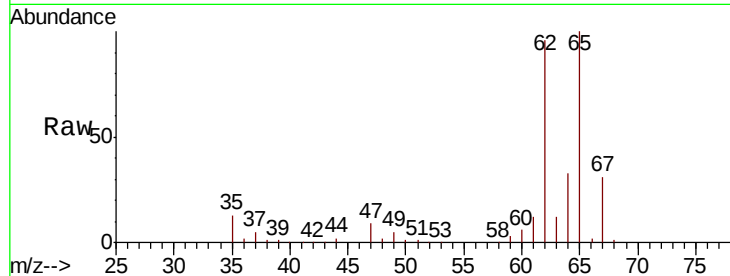
VSTD100305

Tot Ion: 62 Resp: 166228

Ion Ratio Lower Upper

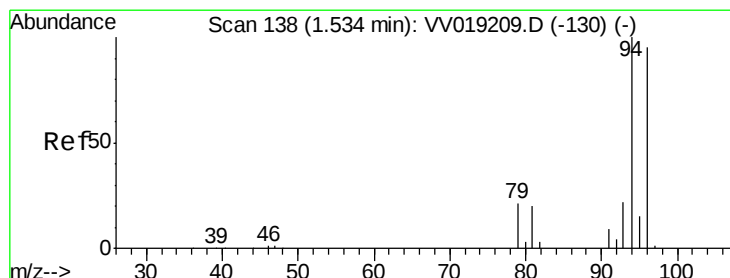
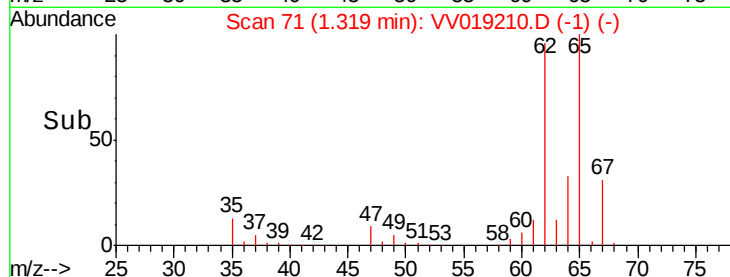
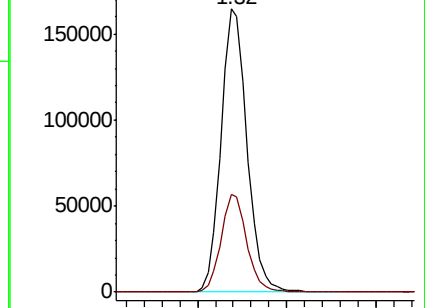
62 100

64 34.5 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 161.053 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019210.D

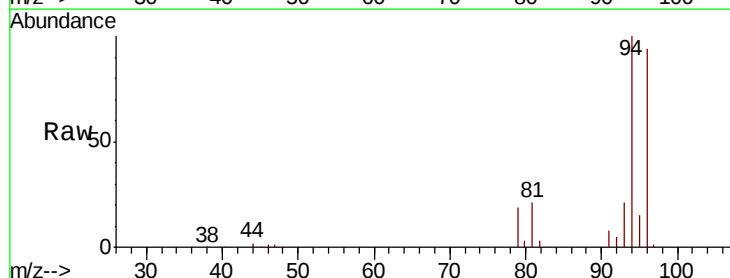
Acq: 02 Nov 2020 19:22

Tgt Ion: 94 Resp: 112028

Ion Ratio Lower Upper

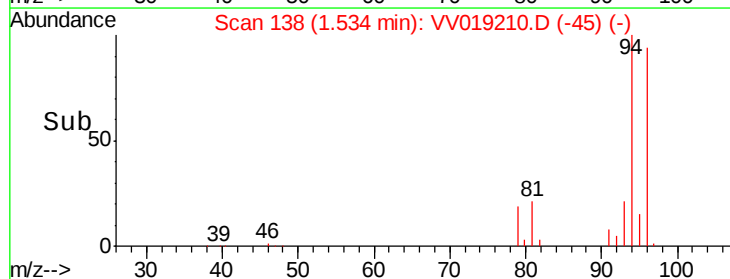
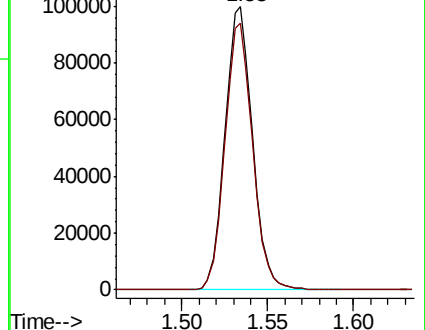
94 100

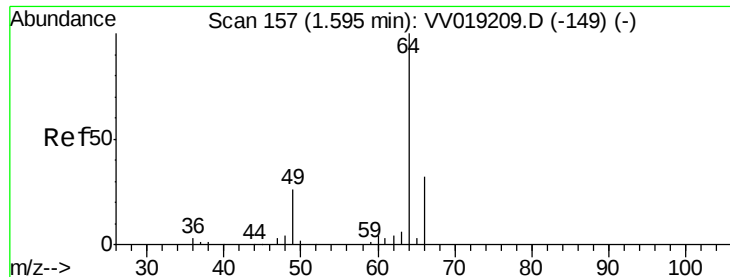
96 94.1 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 166.272 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

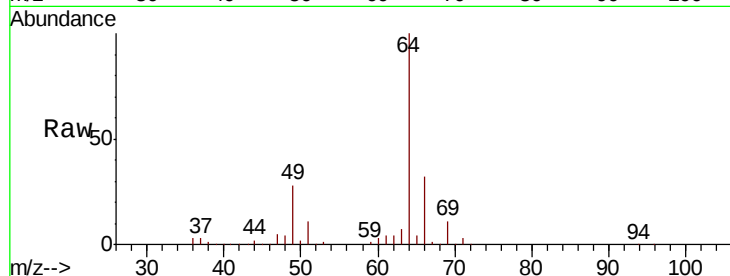
VSTD100305

Tot Ion: 64 Resp: 108476

Ion Ratio Lower Upper

64 100

66 32.3 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV019210.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019210.D (-149) (-)

1.60

100000

80000

60000

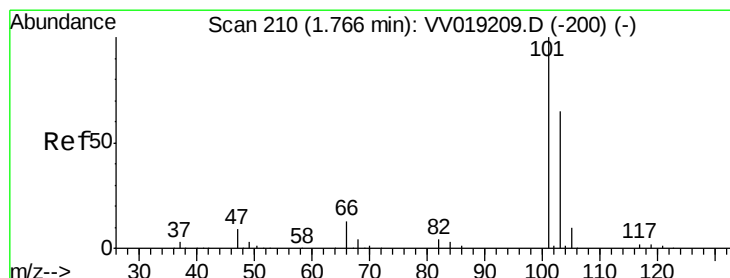
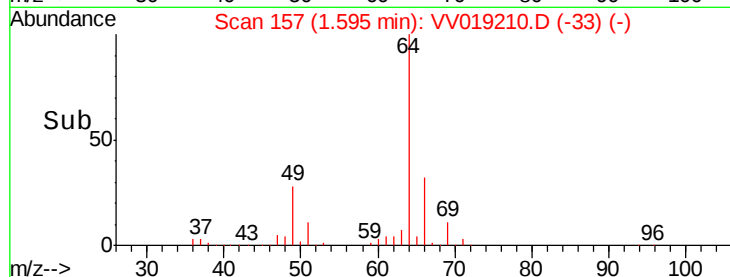
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 122.788 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV019210.D

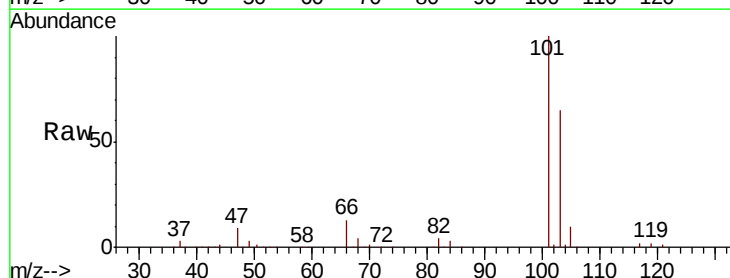
Acq: 02 Nov 2020 19:22

Tgt Ion:101 Resp: 261122

Ion Ratio Lower Upper

101 100

103 65.3 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): VV019210.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019210.D (-200) (-)

1.76

200000

150000

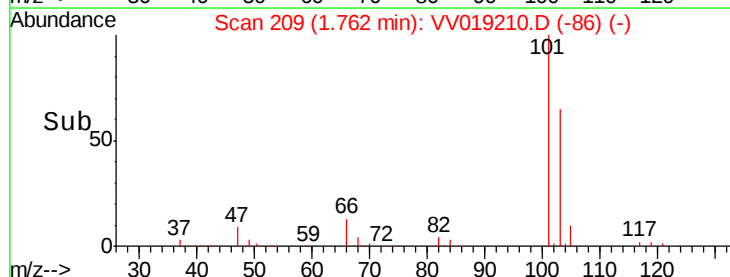
100000

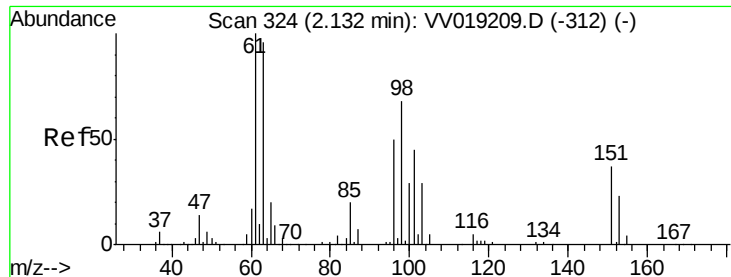
50000

0

1.70 1.75 1.80 1.85

Time-->





#10

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

Concen: 135.470 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

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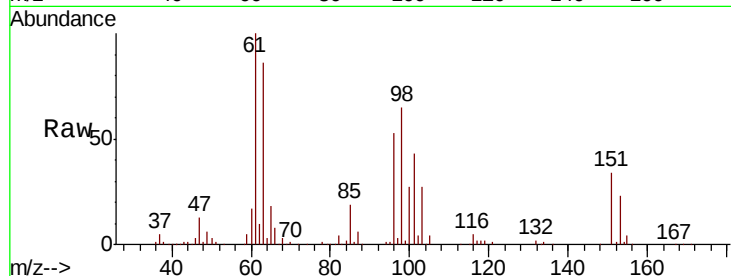
Tot Ion:101 Resp: 125791

Ion Ratio Lower Upper

101 100

85 45.0 35.6 53.4

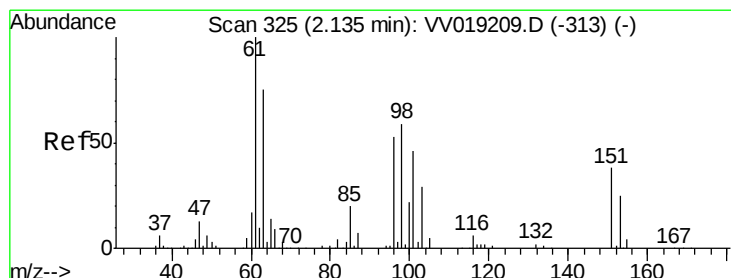
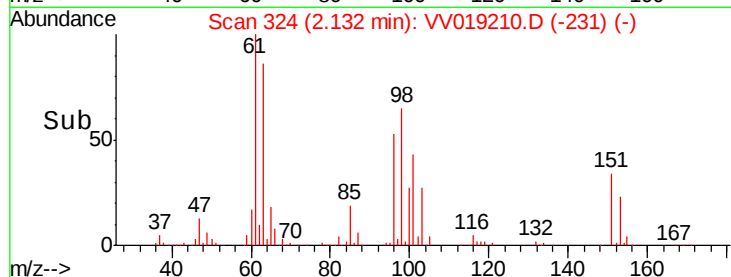
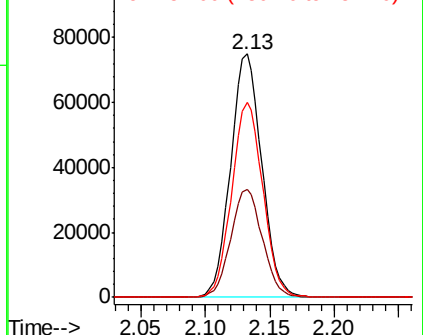
151 79.9 64.1 96.1



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: 149.754 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

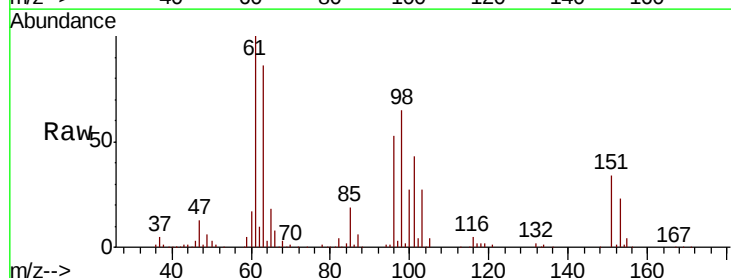
Tgt Ion: 96 Resp: 132079

Ion Ratio Lower Upper

96 100

61 190.4 133.6 248.0

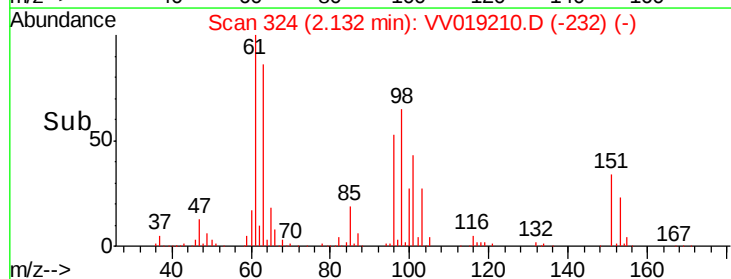
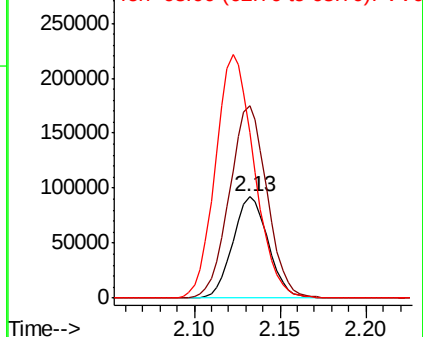
63 164.5 103.0 191.2

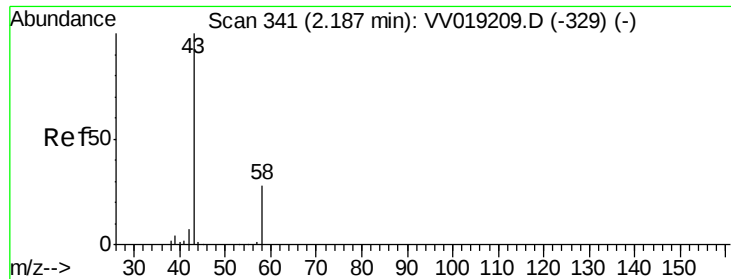


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 223.302 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV019210.D

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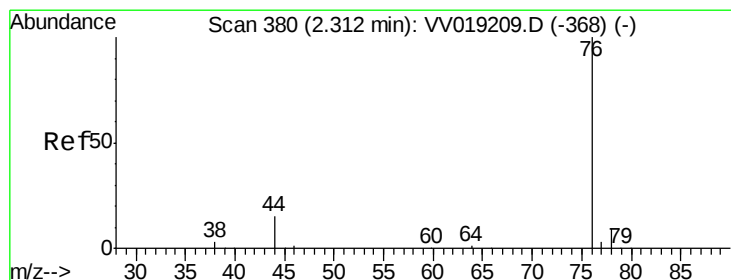
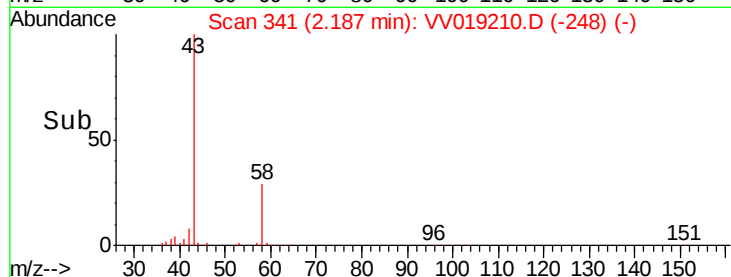
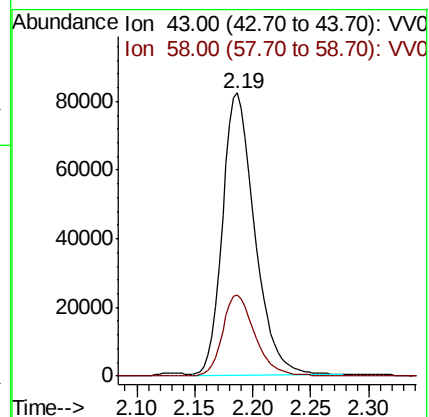
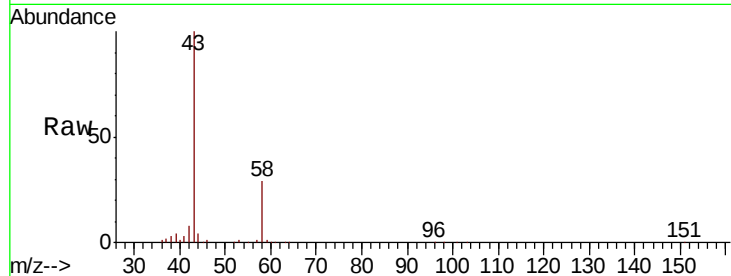
VSTD100305

Tot Ion: 43 Resp: 158059

Ion Ratio Lower Upper

43 100

58 29.2 0.0 57.8



#14

Carbon disulfide

Concen: 105.800 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019210.D

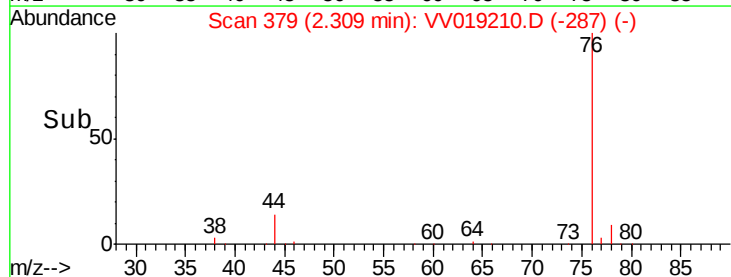
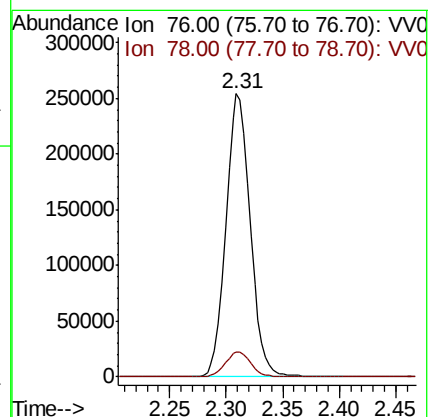
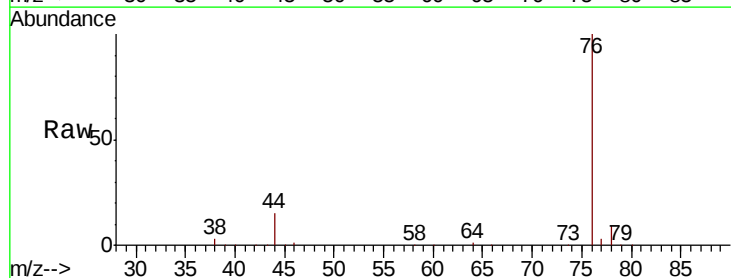
Acq: 02 Nov 2020 19:22

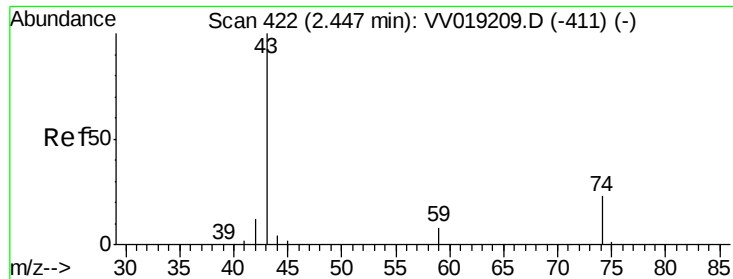
Tgt Ion: 76 Resp: 379934

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0





#15

Methvl Acetate

Concen: 119.382 ug/L

RT: 2.44 min Scan# 421

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

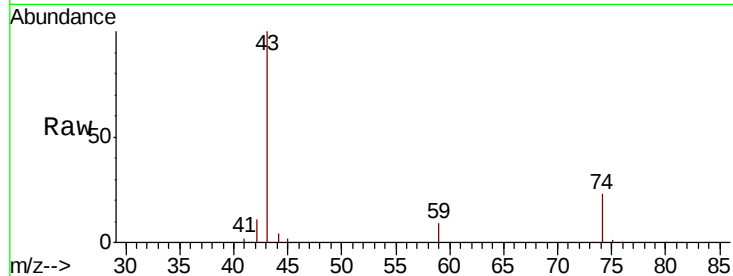
VSTD100305

Tot Ion: 43 Resp: 159878

Ion Ratio Lower Upper

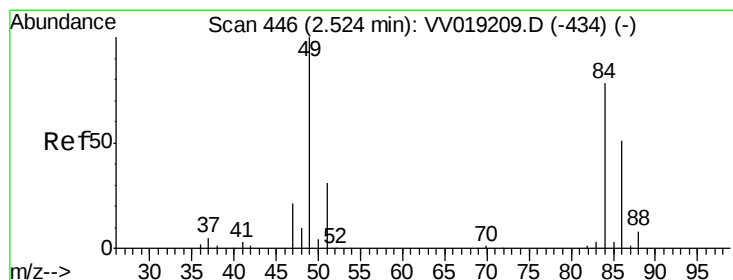
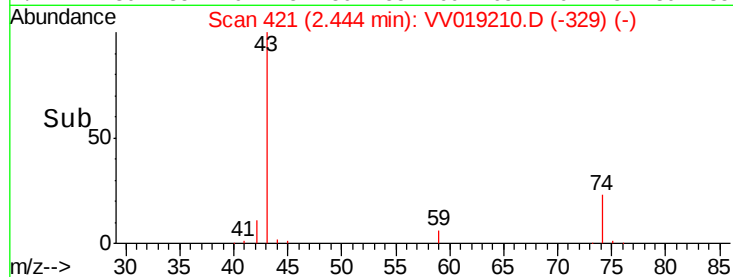
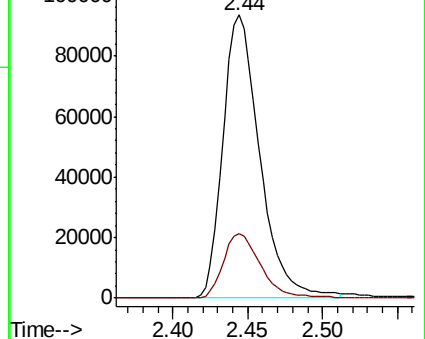
43 100

74 23.2 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 100.184 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

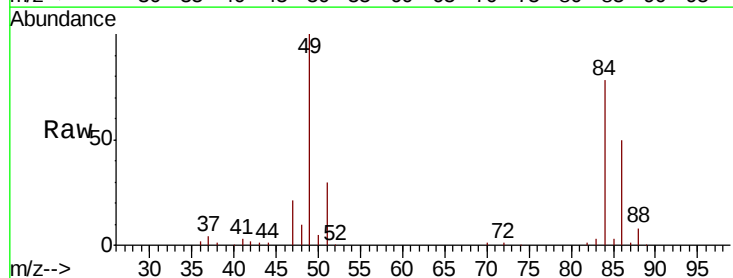
Tgt Ion: 84 Resp: 158255

Ion Ratio Lower Upper

84 100

86 63.8 45.6 84.8

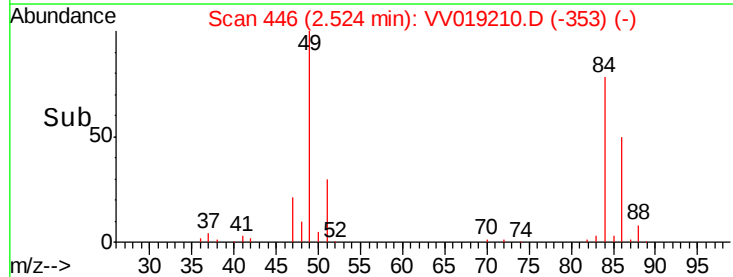
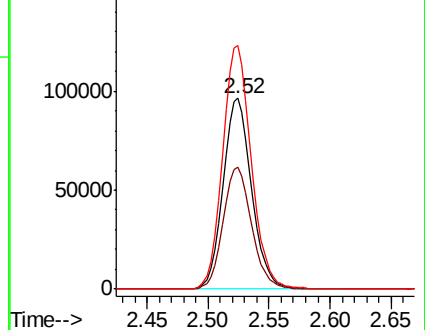
49 127.7 89.3 165.9

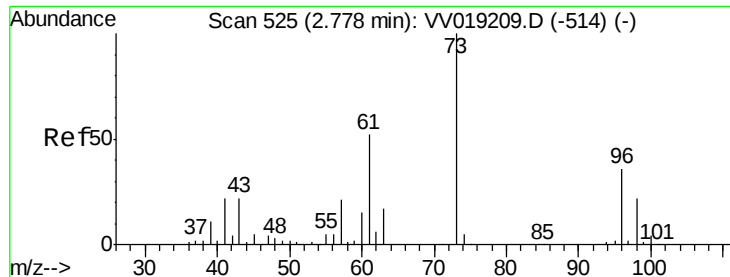


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 101.282 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

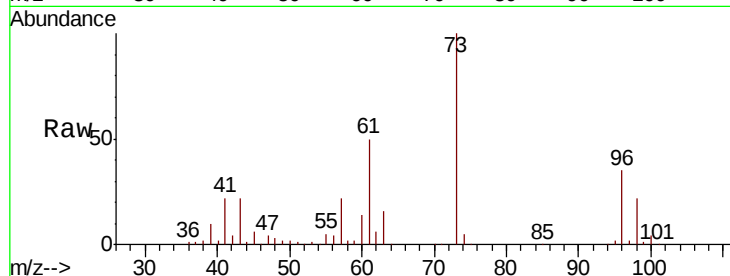
MSVOA_V

ClientSampleId :

VSTD100305

Tot Ion: 96 Resp: 146096

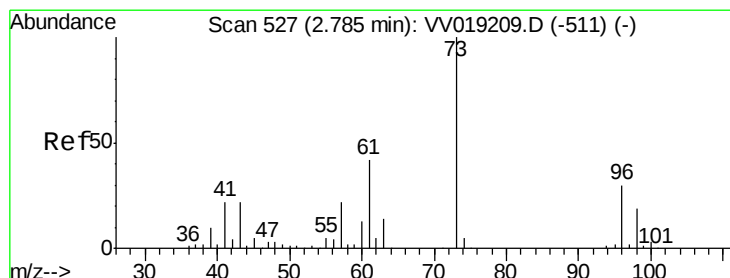
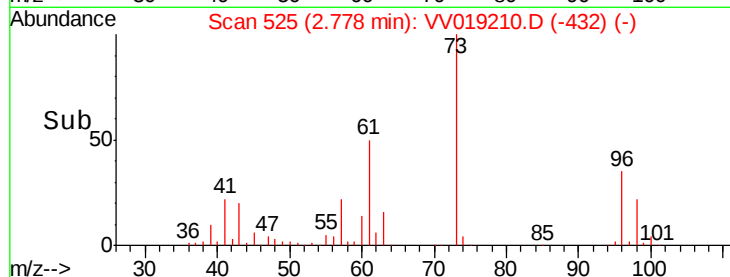
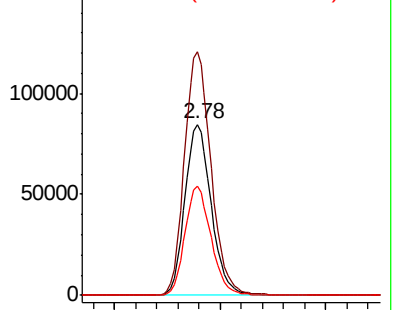
Ion	Ratio	Lower	Upper
96	100		
61	142.5	100.7	187.1
98	63.9	42.9	79.7



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: 108.960 ug/L

RT: 2.78 min Scan# 526

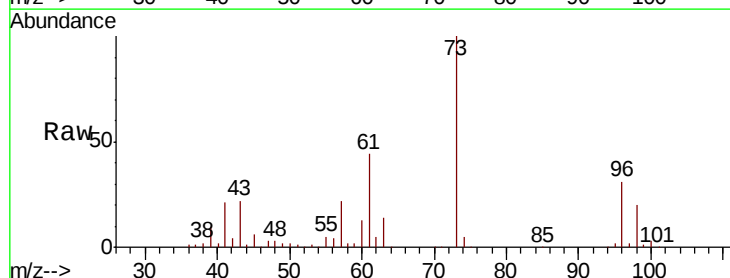
Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Tgt Ion: 73 Resp: 531309

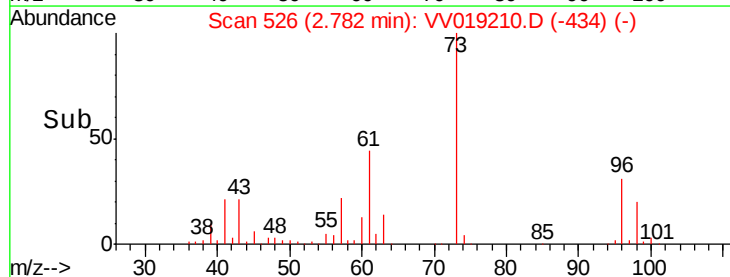
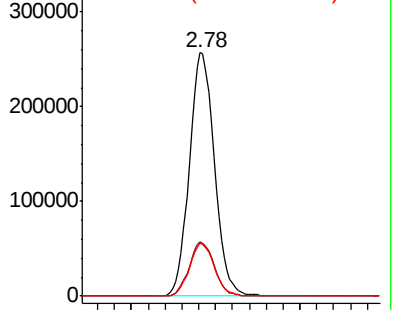
Ion	Ratio	Lower	Upper
73	100		
43	22.3	17.9	26.9
57	21.4	17.1	25.7

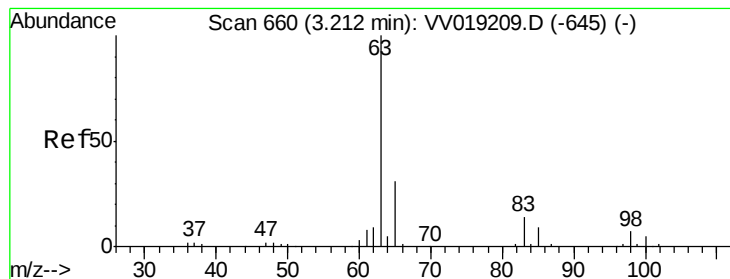


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 108.667 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD100305

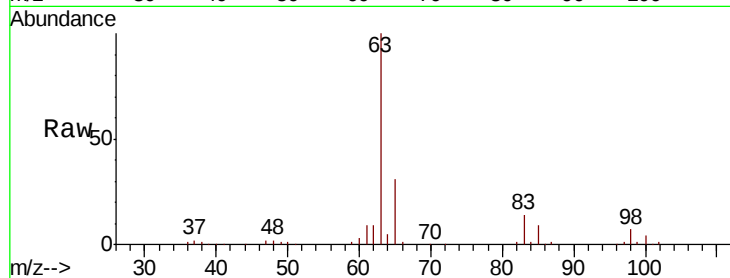
Tot Ion: 63 Resp: 284911

Ion Ratio Lower Upper

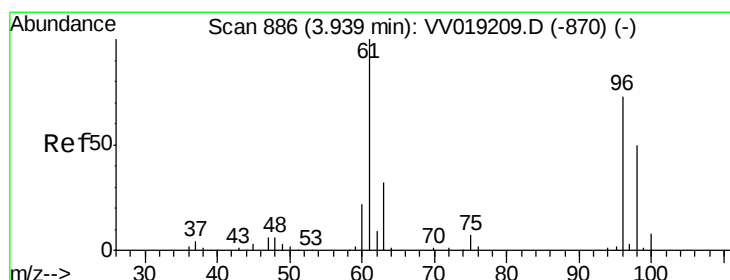
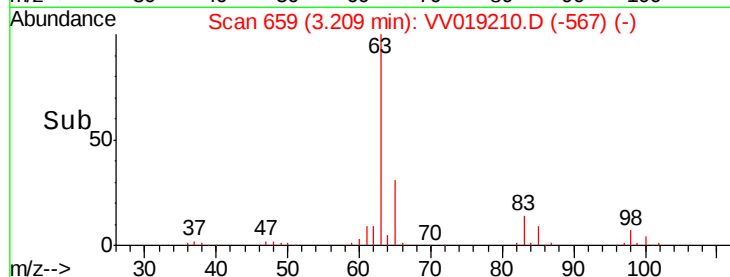
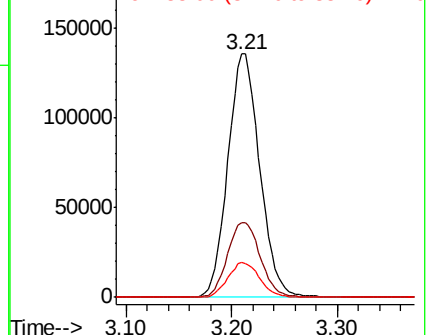
63 100

65 30.7 21.8 40.6

83 14.3 9.5 17.7



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: 99.445 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

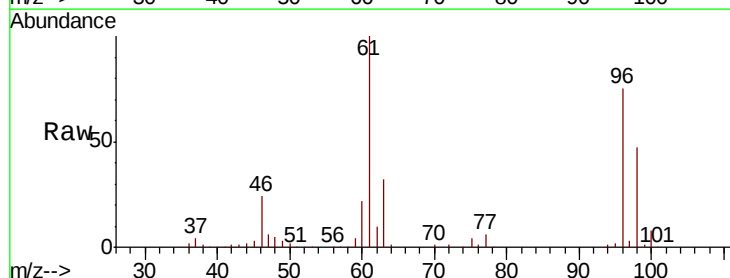
Tgt Ion: 96 Resp: 167268

Ion Ratio Lower Upper

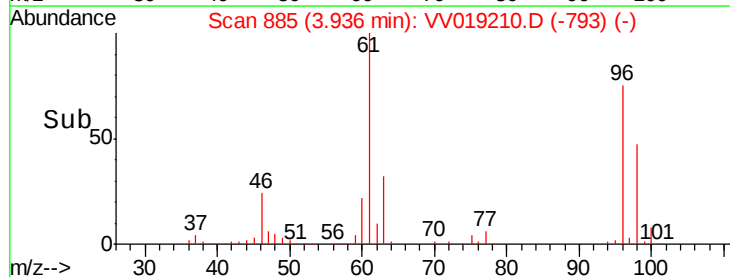
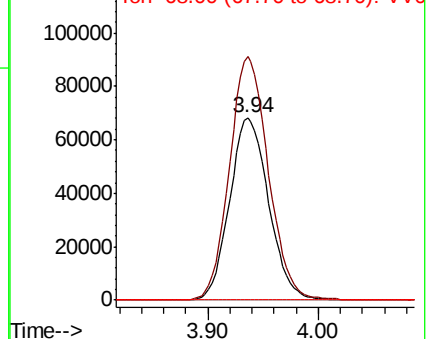
96 100

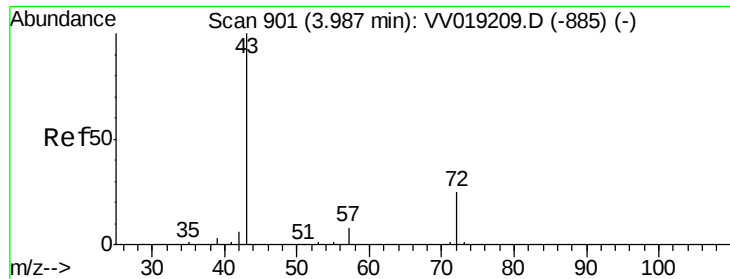
61 133.5 95.6 177.6

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 217.131 ug/L

RT: 3.99 min Scan# 901

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

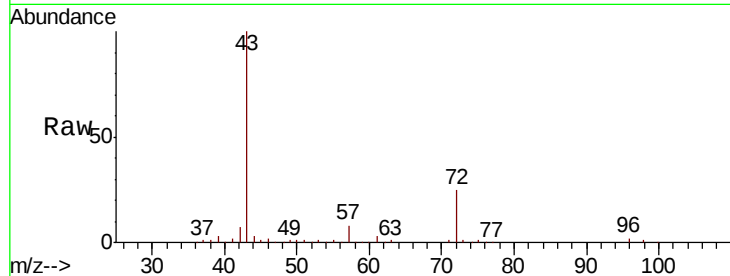
VSTD100305

Tot Ion: 43 Resp: 223950

Ion Ratio Lower Upper

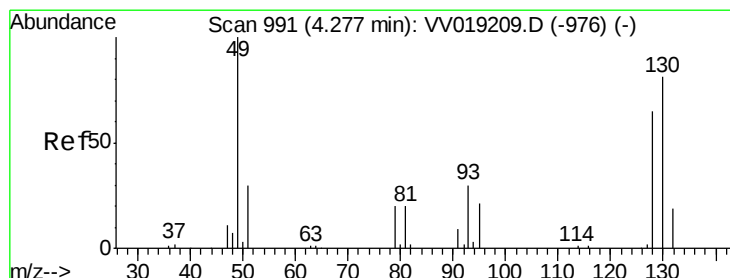
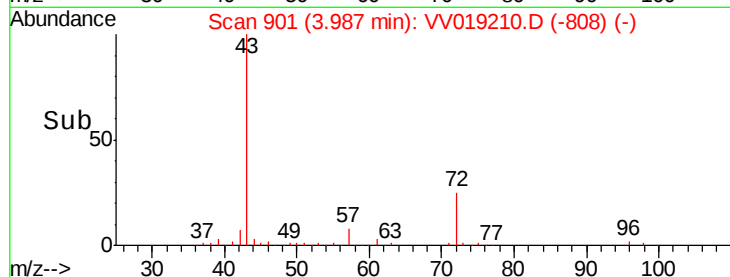
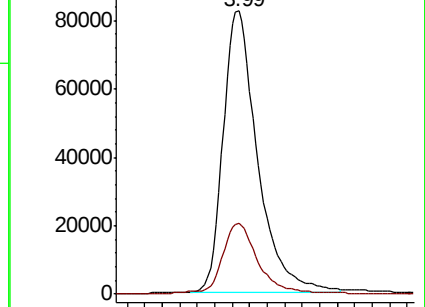
43 100

72 25.3 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV019210.D (-898) (-)

Ion 72.00 (71.70 to 72.70): VV019210.D (-898) (-)



#23

Bromochloromethane

Concen: 106.101 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Tgt Ion:128 Resp: 90199

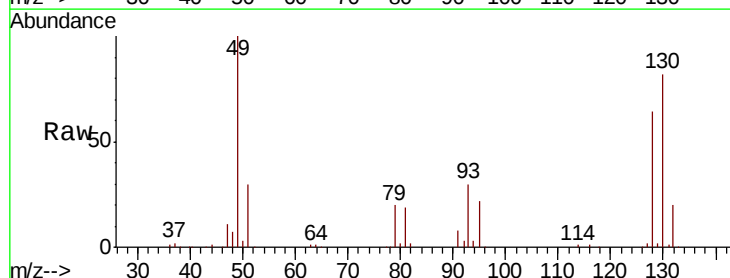
Ion Ratio Lower Upper

128 100

49 156.1 108.8 202.2

130 128.1 88.5 164.3

51 46.5 37.8 56.6

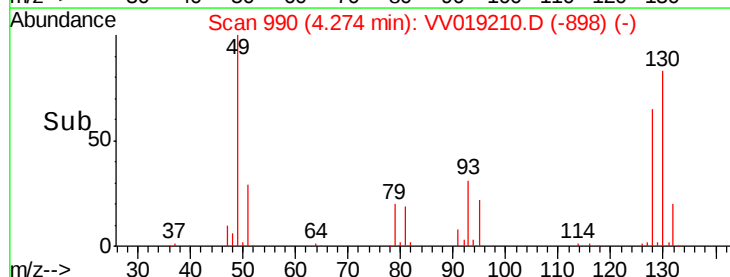
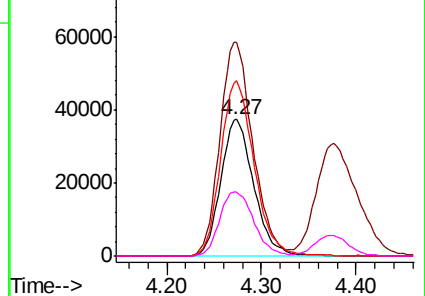


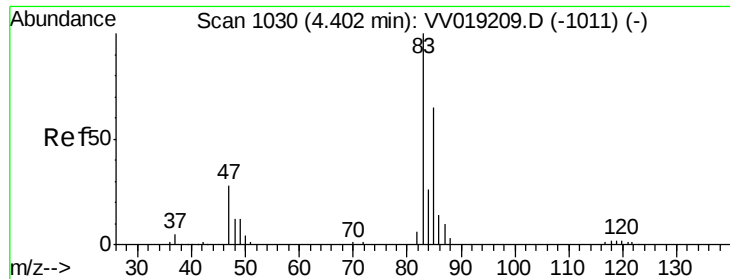
Abundance Ion 128.00 (127.70 to 128.70): VV019210.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV019210.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV019210.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV019210.D (-898) (-)

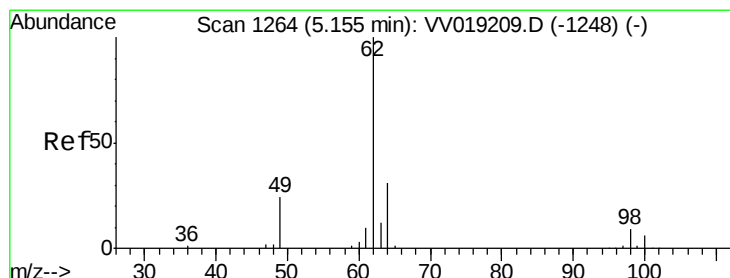
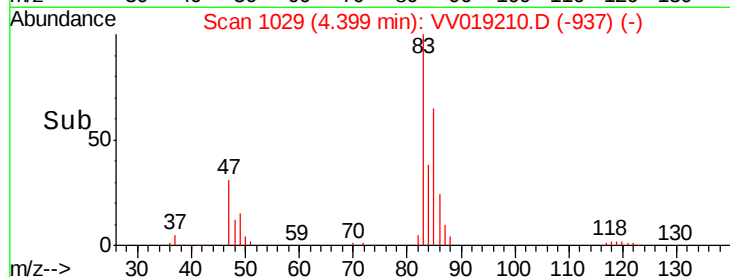
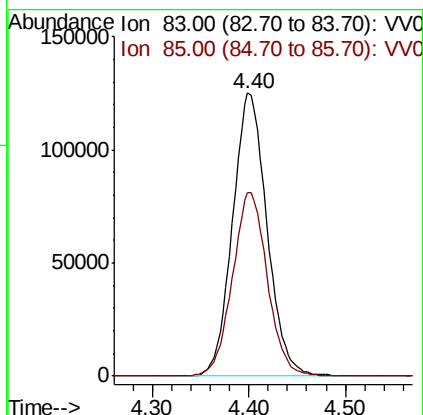
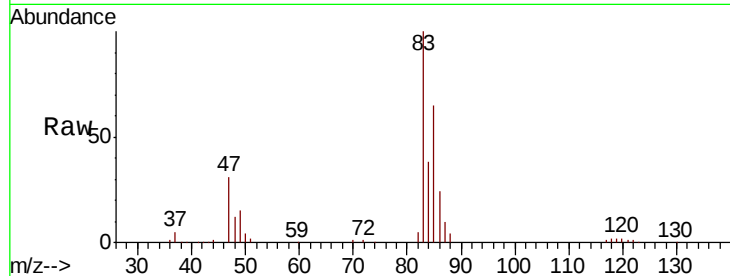




#25
Chloroform
Concen: 104.577 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

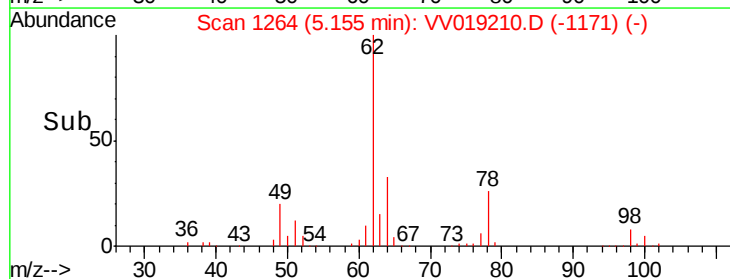
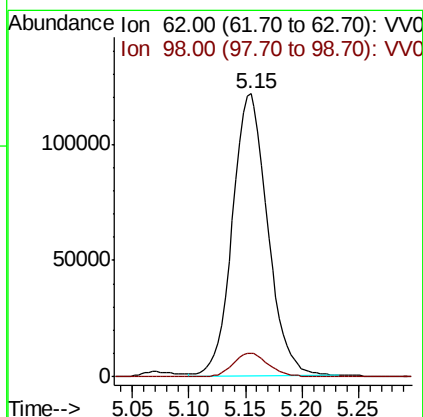
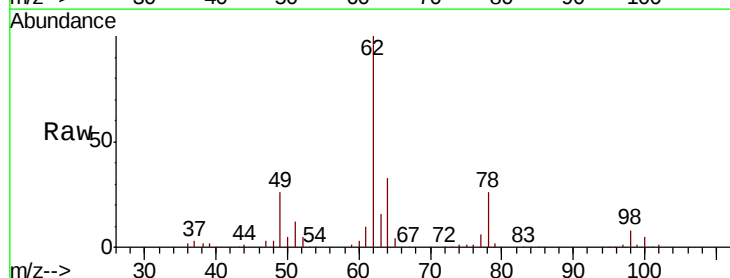
Instrument :
MSVOA_V
ClientSampleId :
VSTD100305

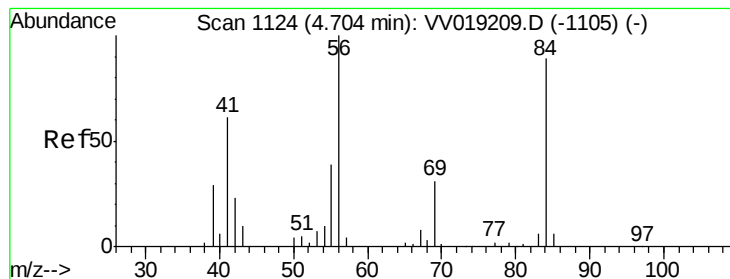
Tot Ion: 83 Resp: 308828
Ion Ratio Lower Upper
83 100
85 65.0 45.4 84.4



#27
1,2-Dichloroethane
Concen: 115.742 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Tgt Ion: 62 Resp: 262511
Ion Ratio Lower Upper
62 100
98 8.4 6.8 10.2





#29

Cyclohexane

Concen: 91.545 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampled :

VSTD100305

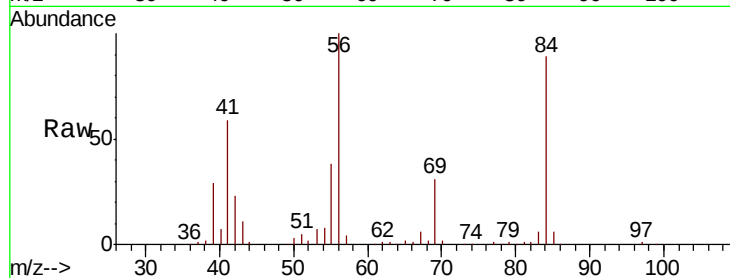
Tot Ion: 56 Resp: 206212

Ion Ratio Lower Upper

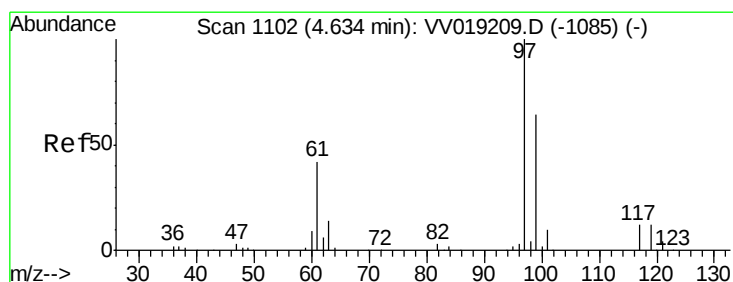
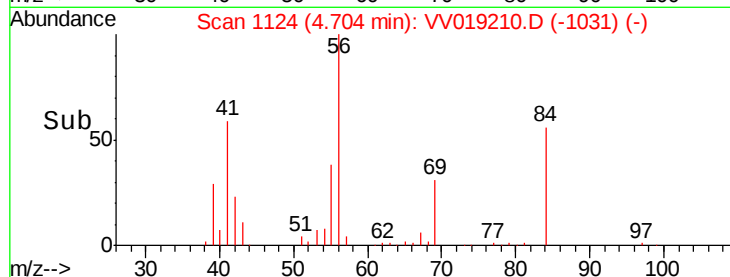
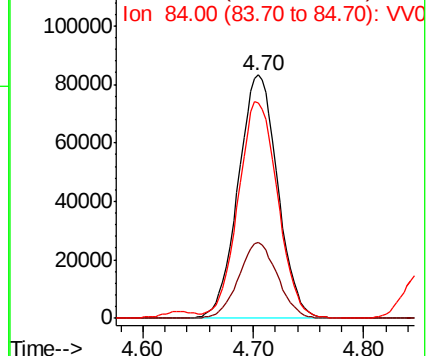
56 100

69 30.7 24.6 36.8

84 88.9 70.5 105.7



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



#30

1,1,1-Trichloroethane

Concen: 105.084 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

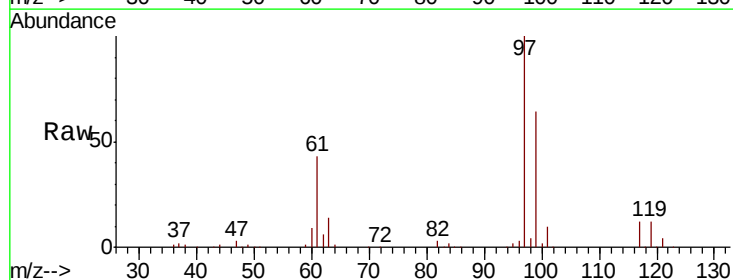
Tgt Ion: 97 Resp: 279048

Ion Ratio Lower Upper

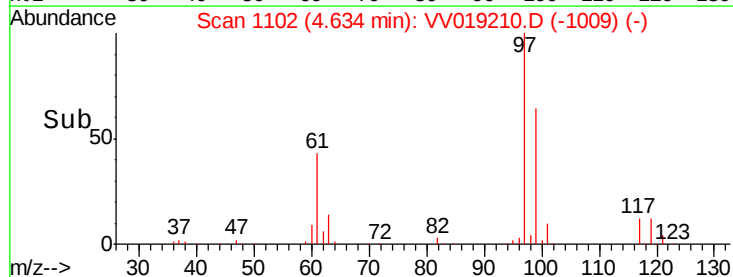
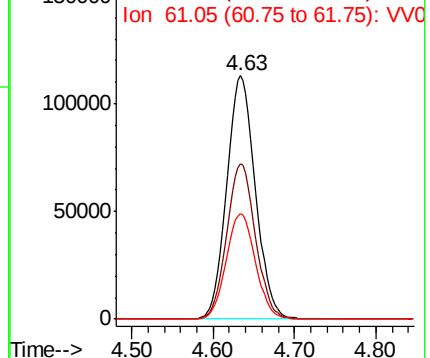
97 100

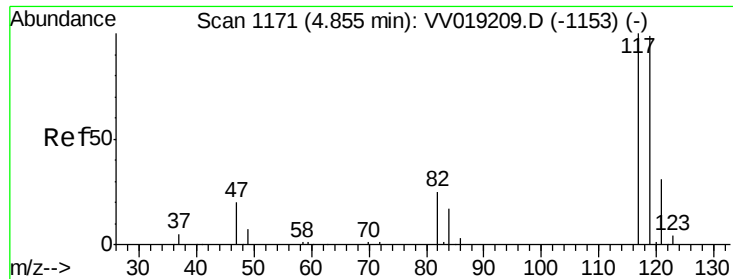
99 64.2 52.0 78.0

61 44.4 35.3 52.9



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





#31

Carbon tetrachloride

Concen: 101.119 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

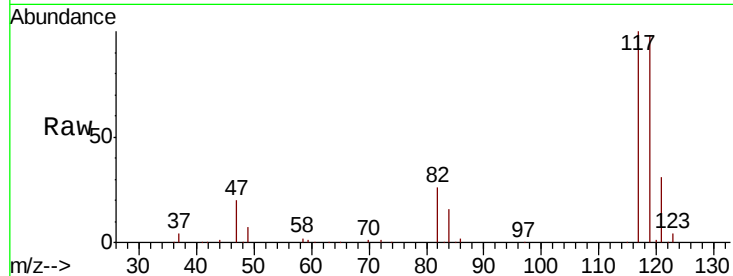
VSTD100305

Tot Ion:117 Resp: 238497

Ion Ratio Lower Upper

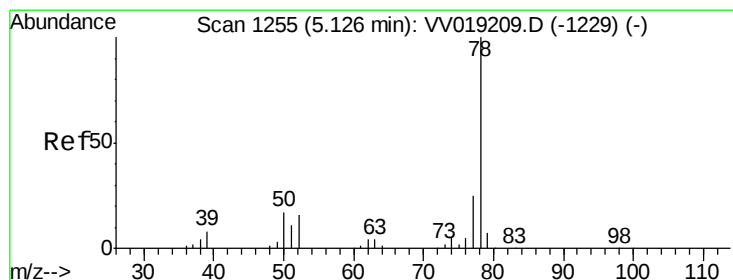
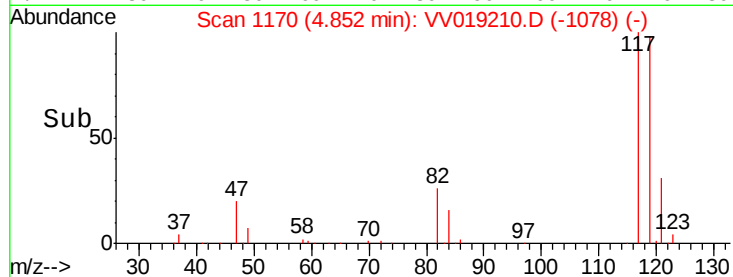
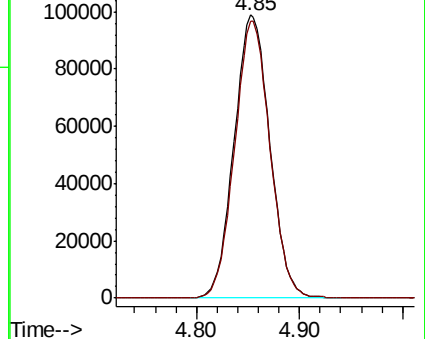
117 100

119 96.6 77.8 116.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 100.834 ug/L

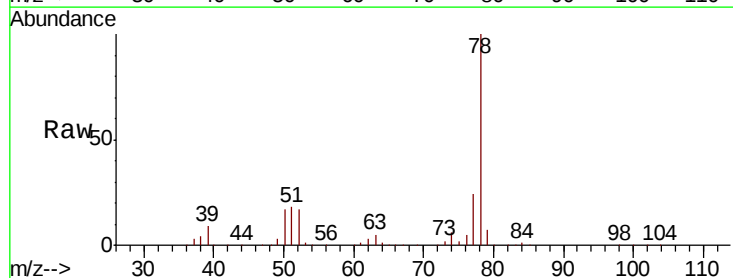
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

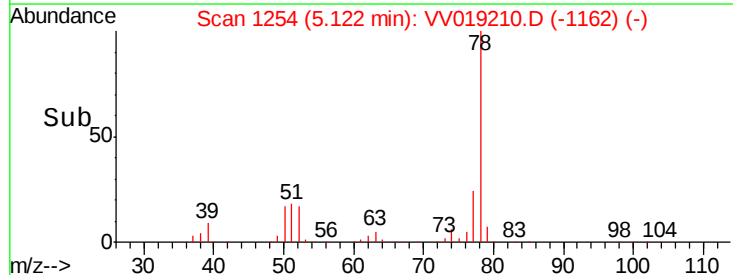
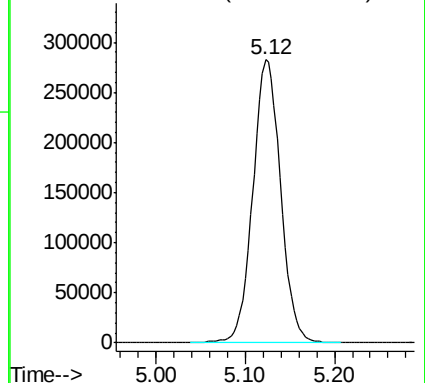
Lab File: VV019210.D

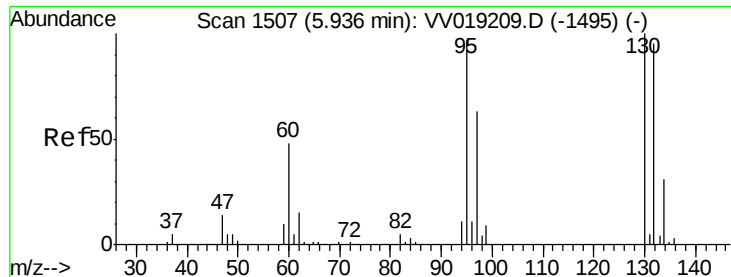
Acq: 02 Nov 2020 19:22

Tgt Ion: 78 Resp: 612660



Abundance Ion 78.00 (77.70 to 78.70): VV0

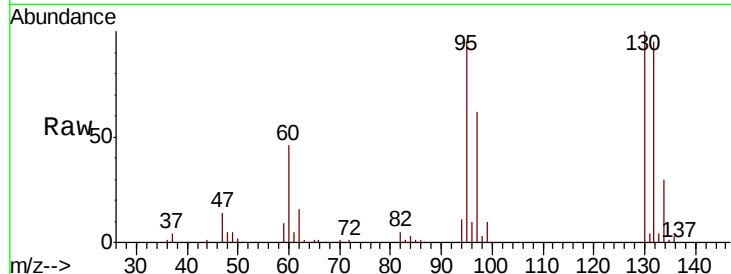




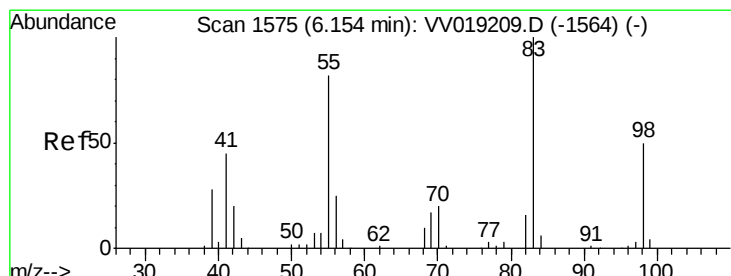
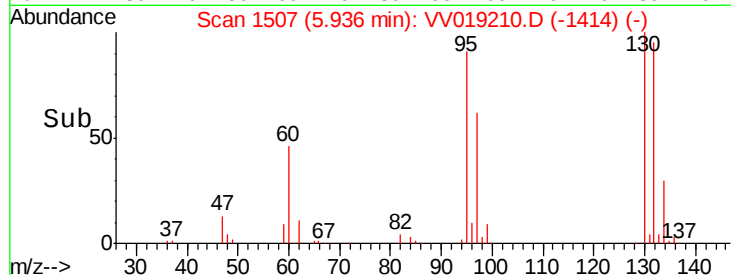
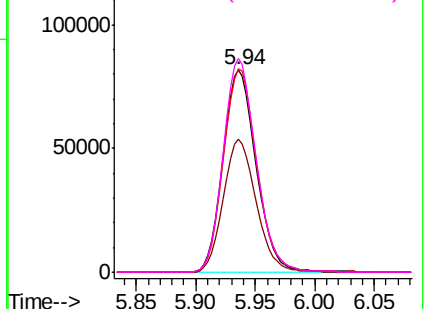
#34
 Trichloroethene
 Concen: 95.519 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

Tot Ion: 95 Resp: 158428
 Ion Ratio Lower Upper
 95 100
 97 65.6 45.4 84.4
 132 100.5 68.5 127.3
 130 105.4 72.0 133.6

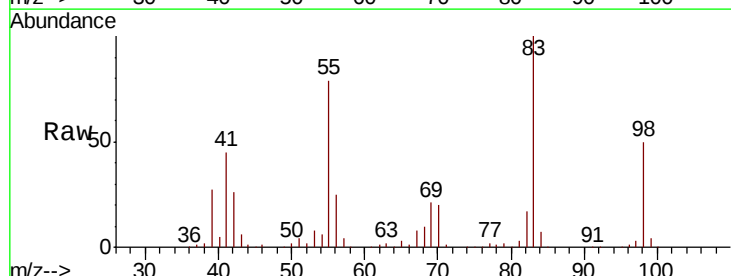


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

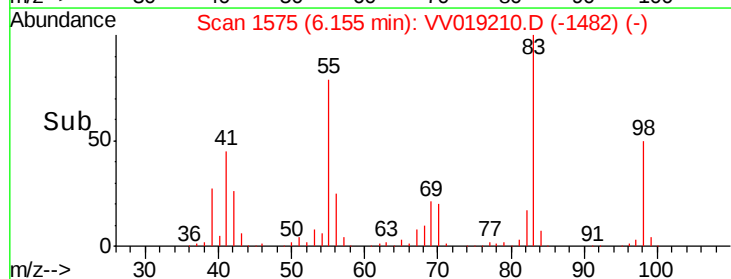
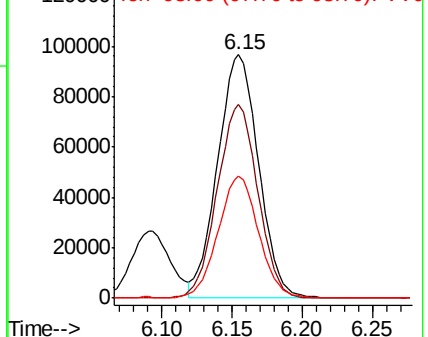


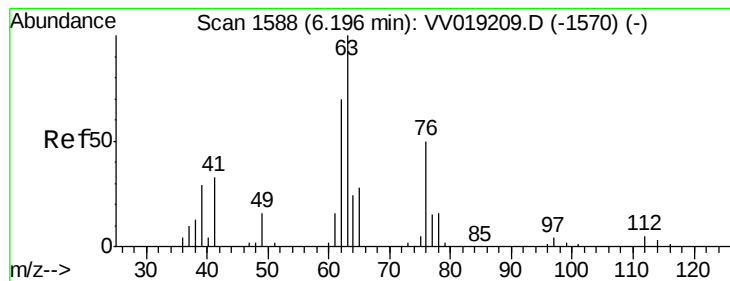
#35
 Methylcyclohexane
 Concen: 78.294 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion: 83 Resp: 195762
 Ion Ratio Lower Upper
 83 100
 55 78.4 62.8 94.2
 98 49.7 38.6 58.0



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: 107.881 ug/L

RT: 6.20 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

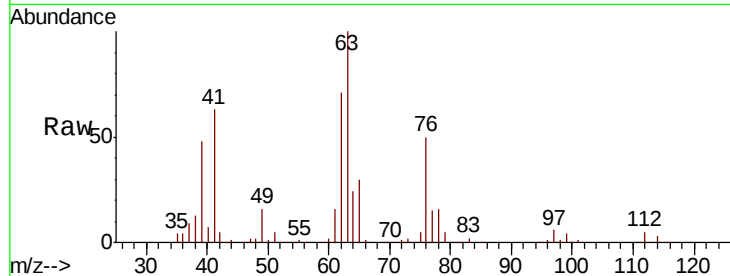
VSTD100305

Tot Ion: 63 Resp: 161425

Ion Ratio Lower Upper

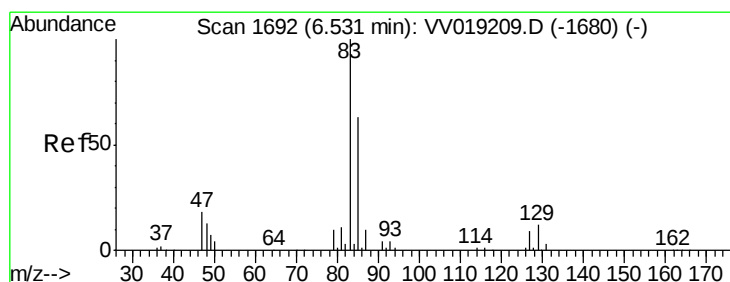
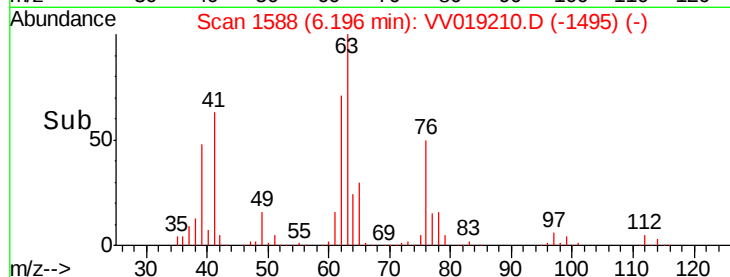
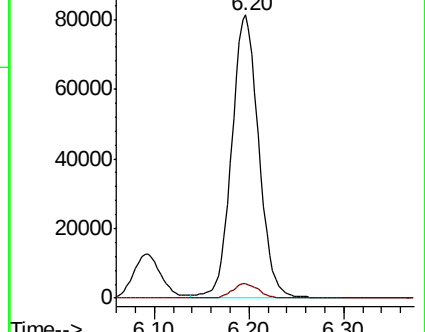
63 100

112 4.9 4.2 6.2



Abundance Ion 63.00 (62.70 to 63.70): VV019210.D (-1495) (-)

Ion 112.00 (111.70 to 112.70): VV019210.D (-1495) (-)



#38

Bromodichloromethane

Concen: 102.631 ug/L

RT: 6.53 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

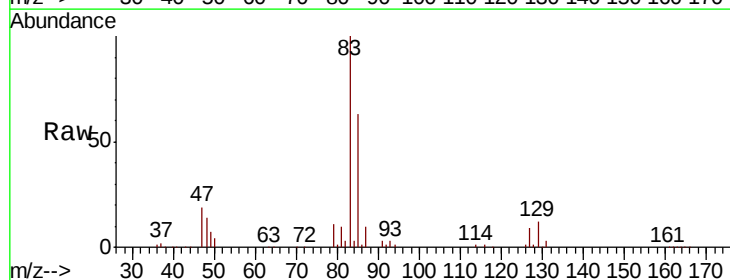
Tgt Ion: 83 Resp: 237549

Ion Ratio Lower Upper

83 100

85 63.3 44.0 81.8

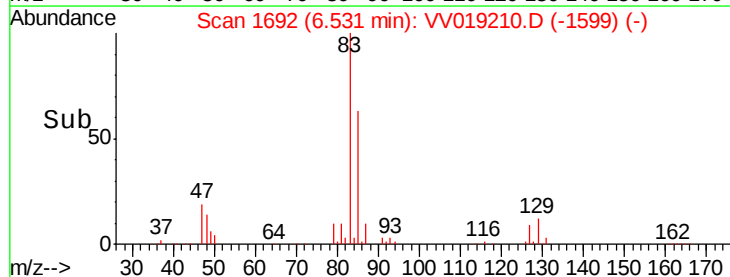
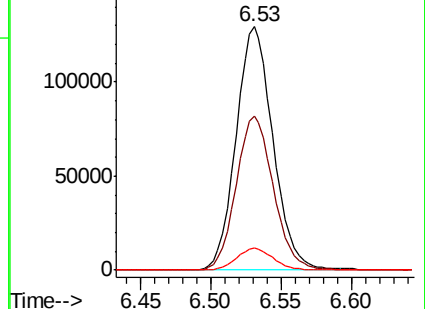
127 8.9 7.3 10.9

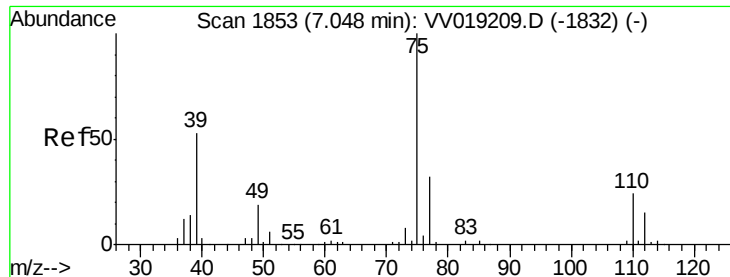


Abundance Ion 83.00 (82.70 to 83.70): VV019210.D (-1599) (-)

Ion 85.00 (84.70 to 85.70): VV019210.D (-1599) (-)

Ion 127.00 (126.70 to 127.70): VV019210.D (-1599) (-)

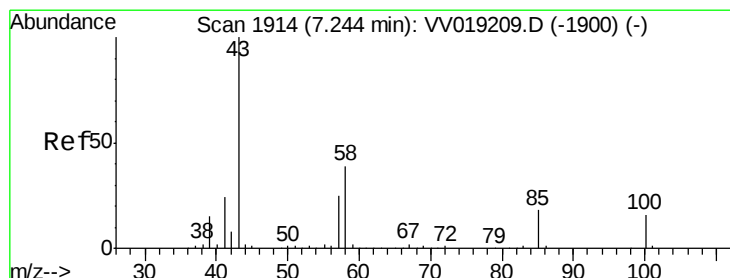
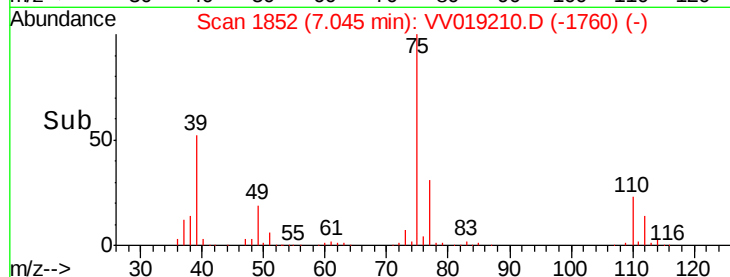
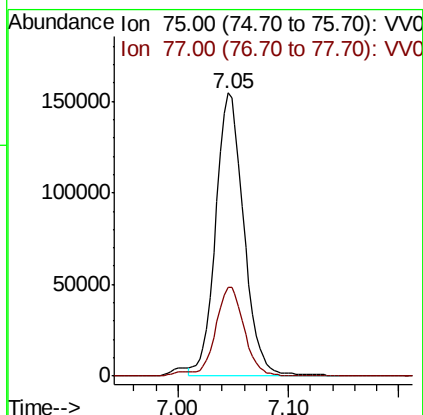
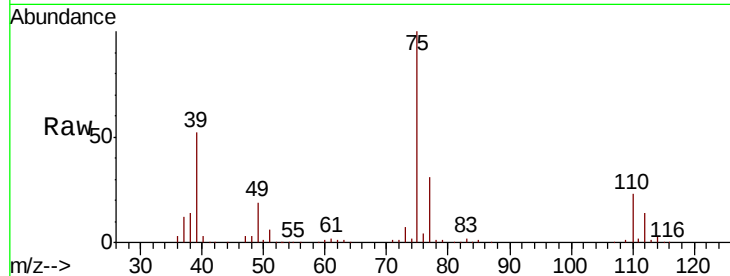




#39
 cis-1,3-Dichloropropene
 Concen: 104.128 ug/L
 RT: 7.05 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

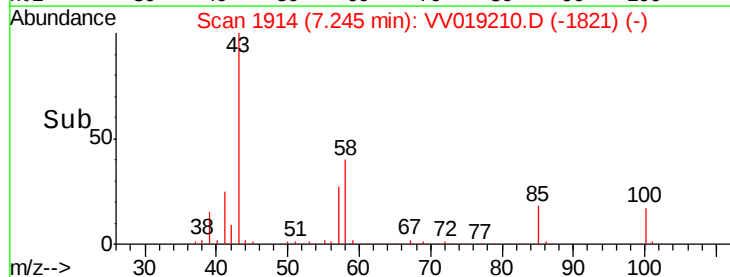
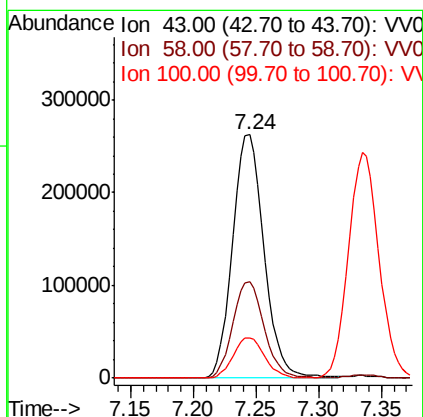
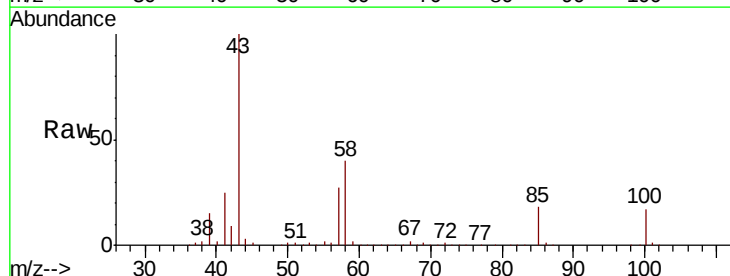
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

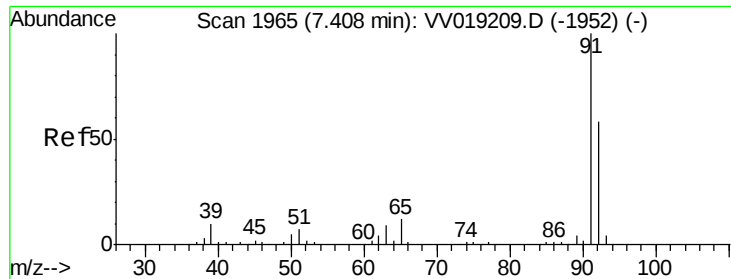
Tot Ion: 75 Resp: 271538
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 238.258 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion: 43 Resp: 458517
 Ion Ratio Lower Upper
 43 100
 58 39.4 30.5 45.7
 100 16.5 12.7 19.1





#42

Toluene

Concen: 98.925 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

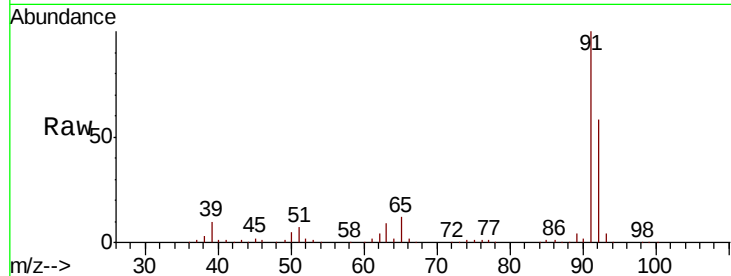
VSTD100305

Tot Ion: 91 Resp: 660158

Ion Ratio Lower Upper

91 100

92 58.2 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV019210.D (-1872) (-)

Ion 92.00 (91.70 to 92.70): VV019210.D (-1872) (-)

7.41

400000

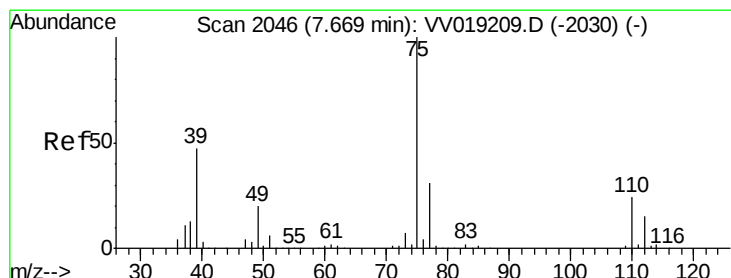
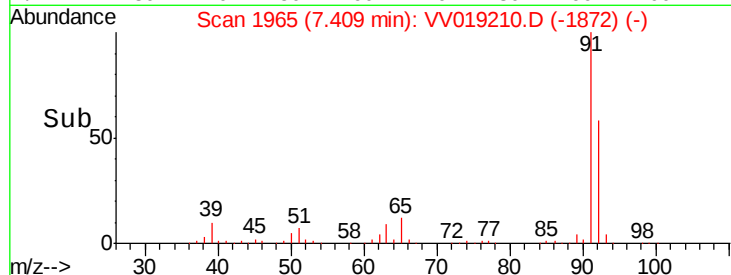
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 113.992 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019210.D

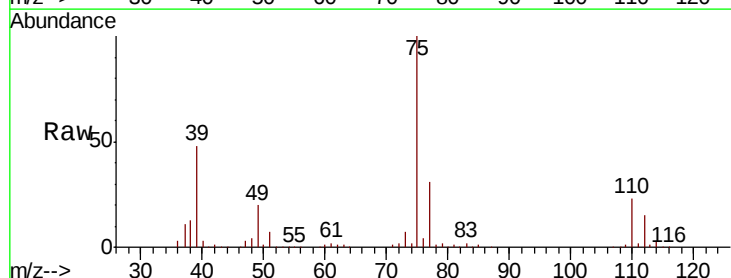
Acq: 02 Nov 2020 19:22

Tgt Ion: 75 Resp: 283434

Ion Ratio Lower Upper

75 100

77 30.9 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV019210.D (-1953) (-)

Ion 77.00 (76.70 to 77.70): VV019210.D (-1953) (-)

7.67

200000

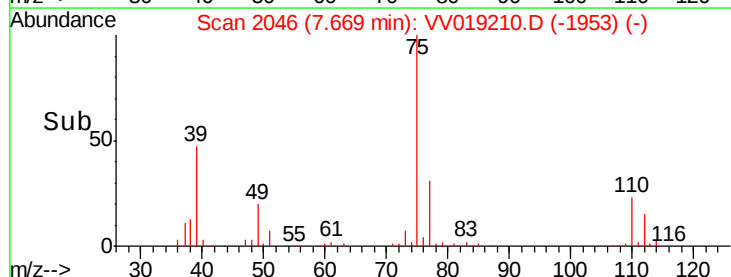
150000

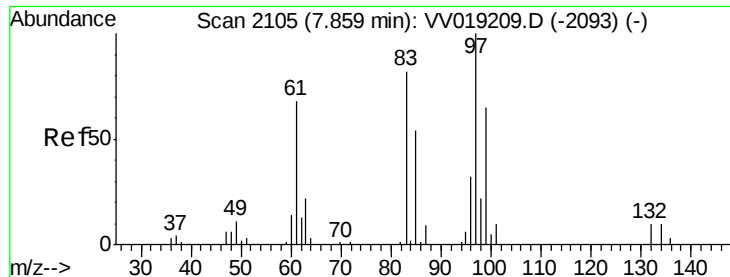
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 101.547 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD100305

Tot Ion: 97 Resp: 161231

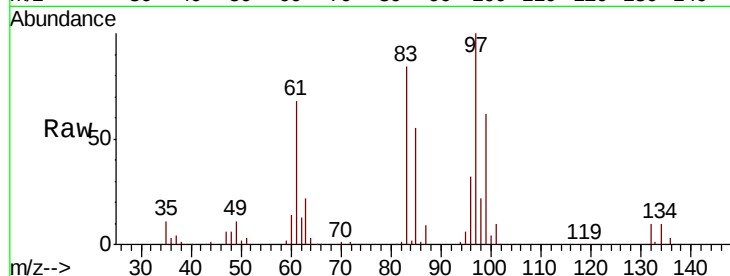
Ion Ratio Lower Upper

97 100

99 62.5 45.1 83.9

83 83.9 57.6 107.0

85 55.1 37.8 70.2



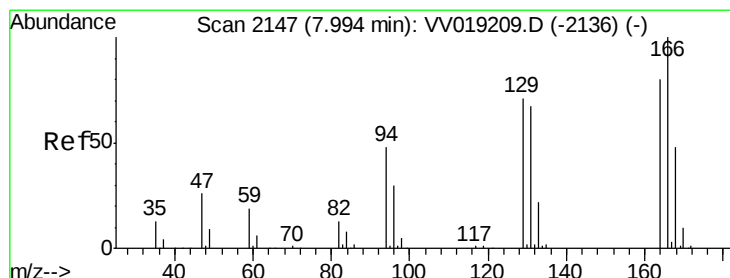
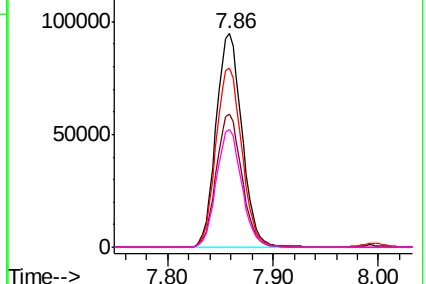
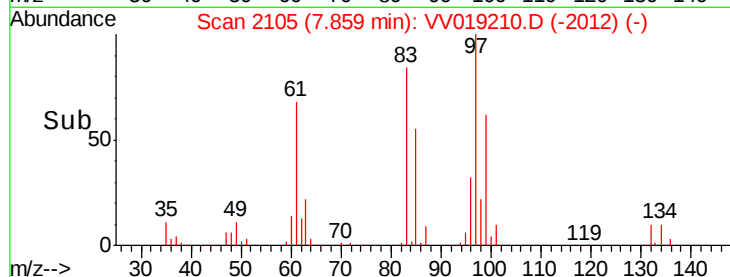
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46

Tetrachloroethene

Concen: 95.822 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Tgt Ion: 164 Resp: 127860

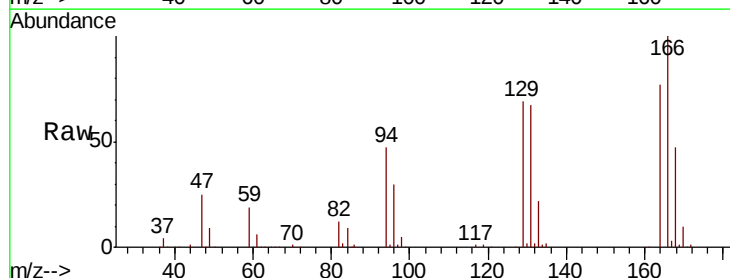
Ion Ratio Lower Upper

164 100

129 89.8 62.6 116.3

131 86.6 59.0 109.6

166 129.9 88.0 163.4



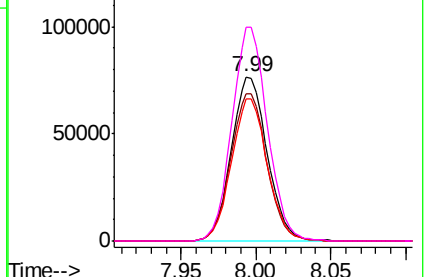
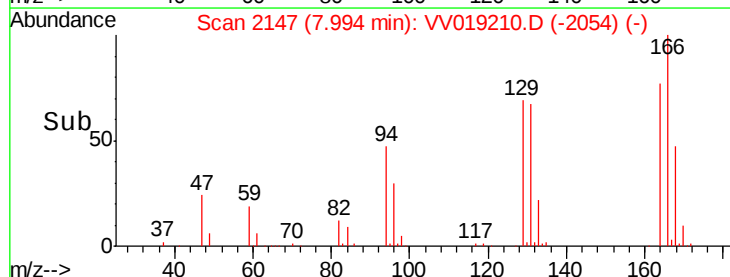
Abundance

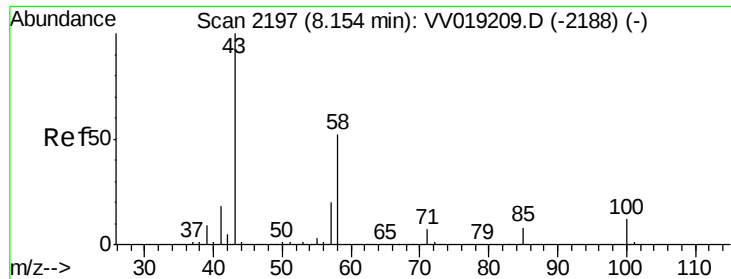
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

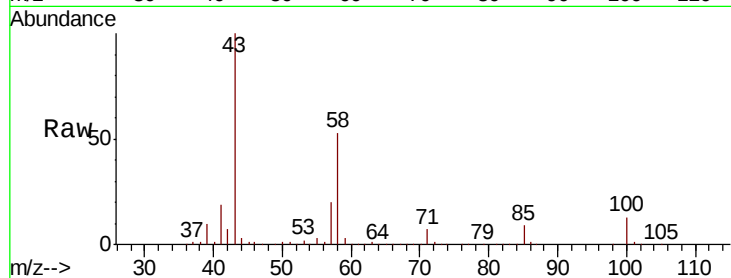




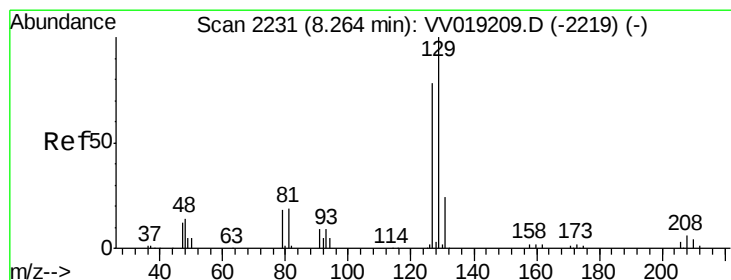
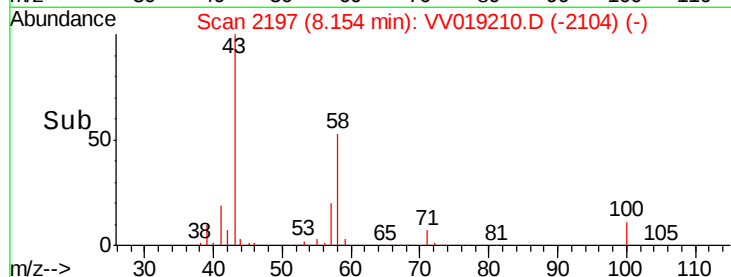
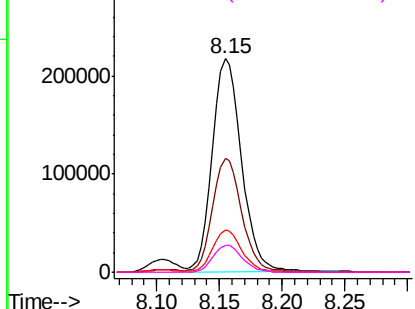
#48
2-Hexanone
Concen: 237.027 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD100305

Tot Ion: 43 Resp: 352572
Ion Ratio Lower Upper
43 100
58 53.2 42.6 63.8
57 19.5 15.8 23.8
100 12.8 10.4 15.6

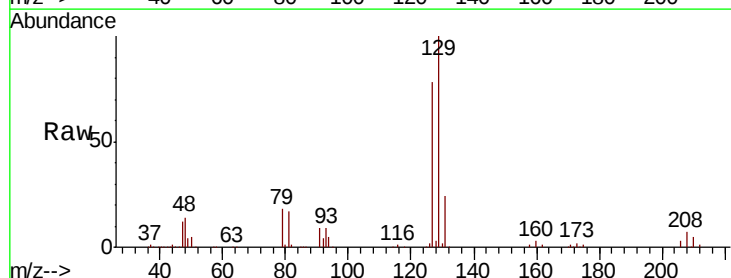


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

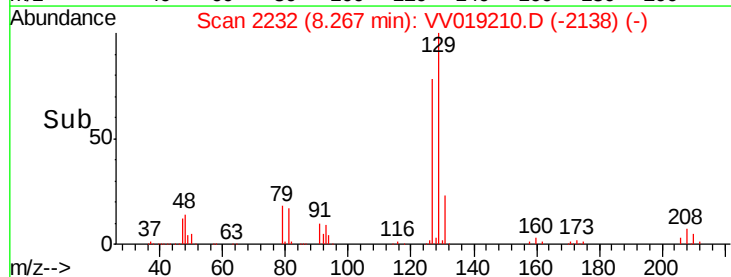
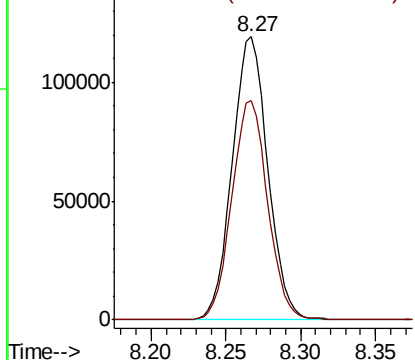


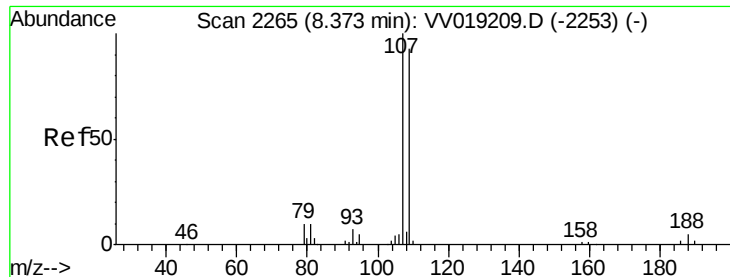
#49
Dibromochloromethane
Concen: 103.010 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Tgt Ion: 129 Resp: 197551
Ion Ratio Lower Upper
129 100
127 77.6 54.4 101.0



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

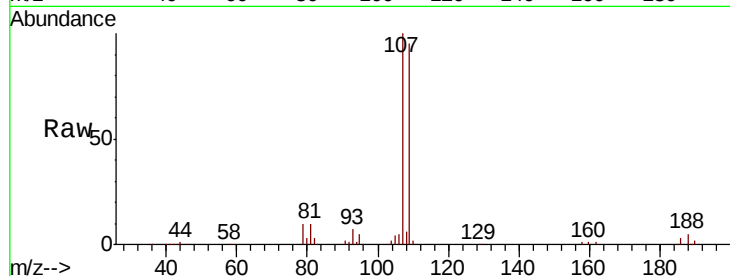




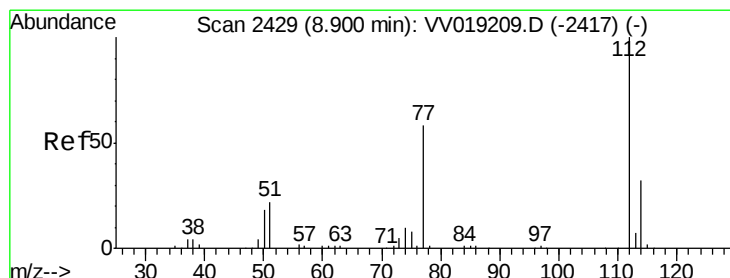
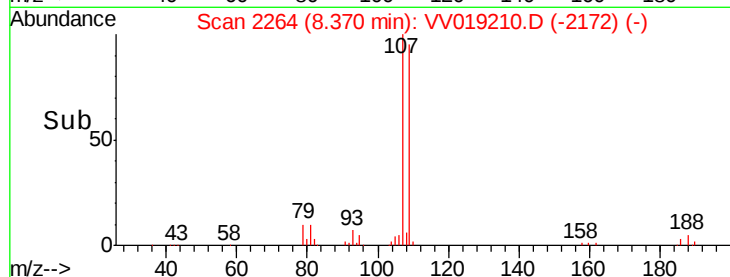
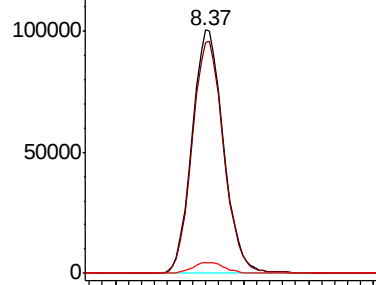
#50
1,2-Dibromoethane
Concen: 97.960 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. -0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD100305

Tot Ion:107 Resp: 169930
Ion Ratio Lower Upper
107 100
109 95.1 64.8 120.4
188 4.6 3.8 5.8

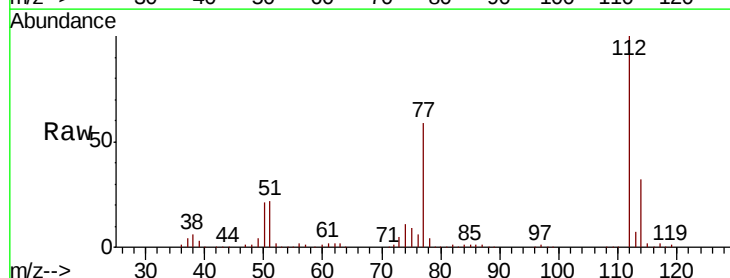


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

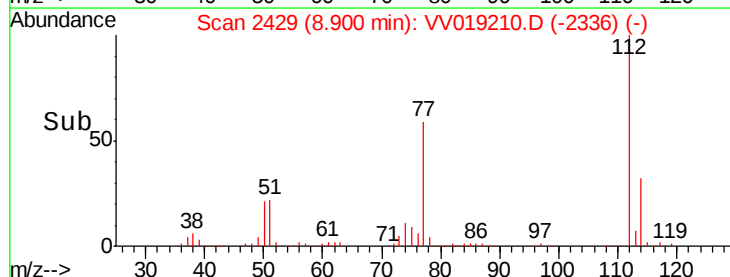
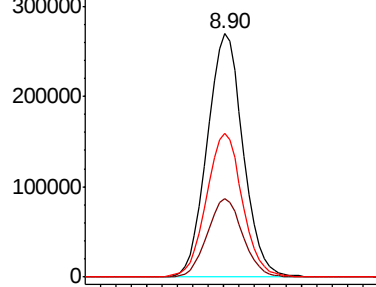


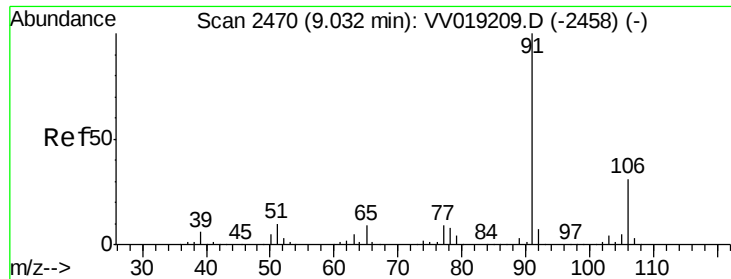
#51
Chlorobenzene
Concen: 96.663 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Tgt Ion:112 Resp: 433748
Ion Ratio Lower Upper
112 100
114 32.0 22.7 42.1
77 58.9 47.3 70.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 95.343 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

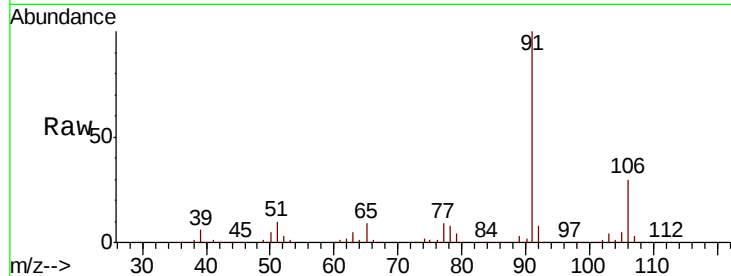
Instrument :
MSVOA_V
ClientSampleId :
VSTD100305

Tot Ion: 91 Resp: 727434

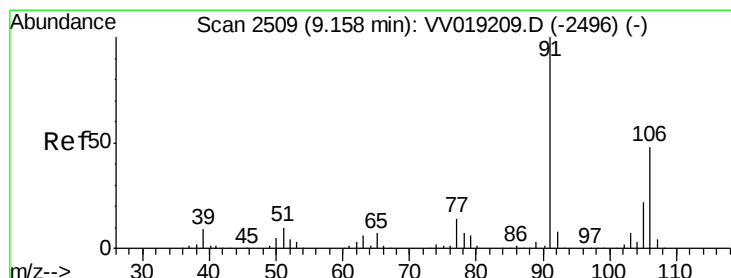
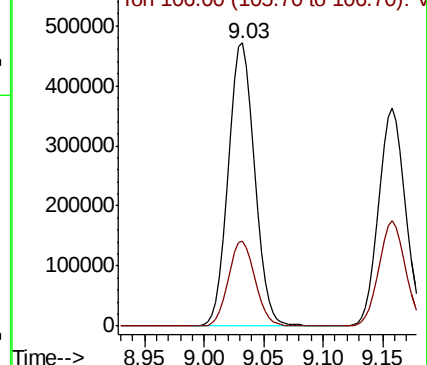
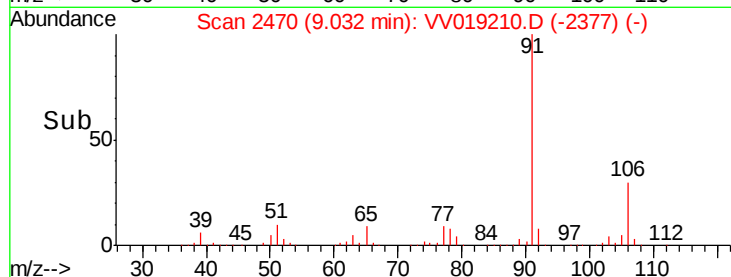
Ion Ratio Lower Upper

91 100

106 30.2 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019210.D (-2377) (-)



#53

m,p-Xylene

Concen: 92.694 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019210.D

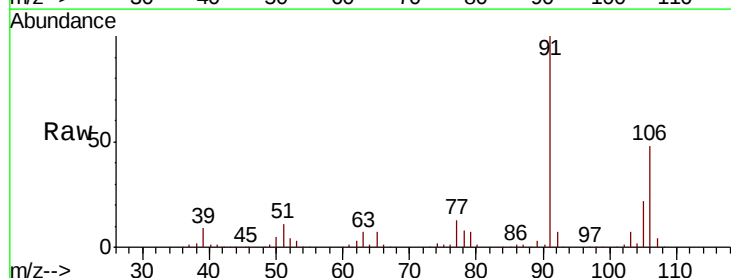
Acq: 02 Nov 2020 19:22

Tgt Ion: 106 Resp: 273104

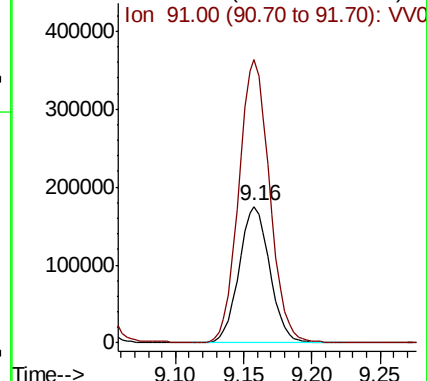
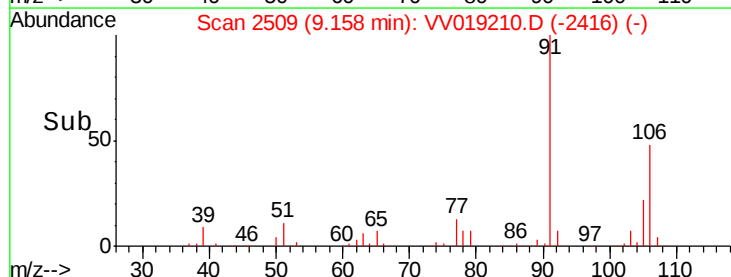
Ion Ratio Lower Upper

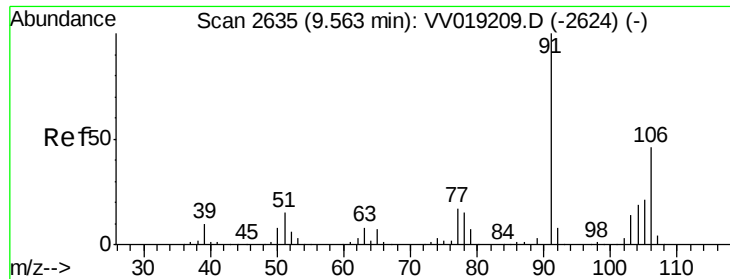
106 100

91 207.0 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019210.D (-2416) (-)

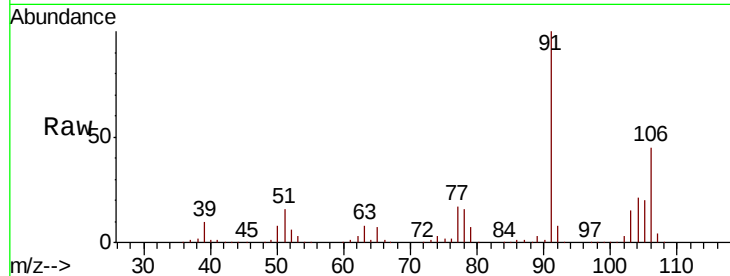




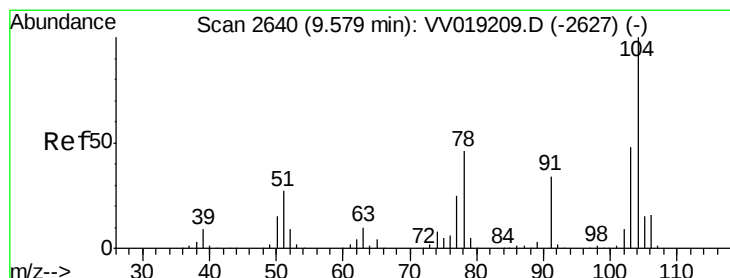
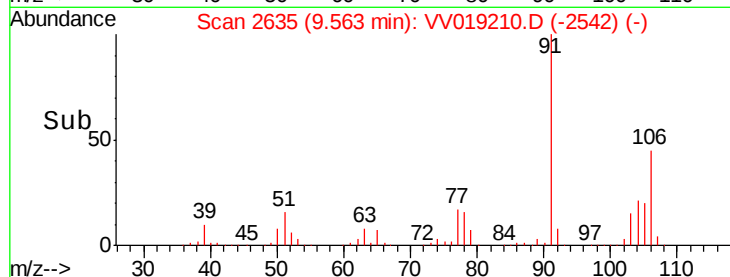
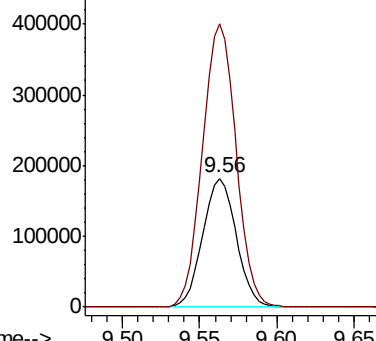
#54
o-Xylene
Concen: 96.035 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Instrument :
MSVOA_V
ClientSampleId :
VSTD100305

Tot Ion:106 Resp: 272599
Ion Ratio Lower Upper
106 100
91 220.3 151.6 281.6

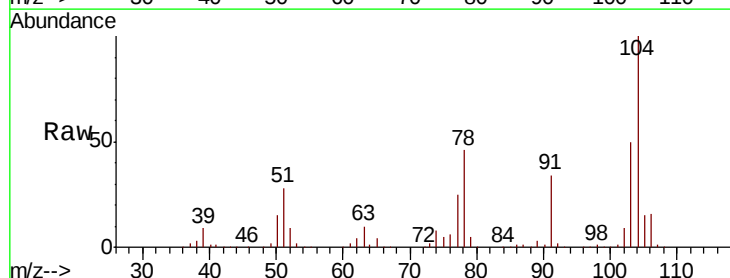


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

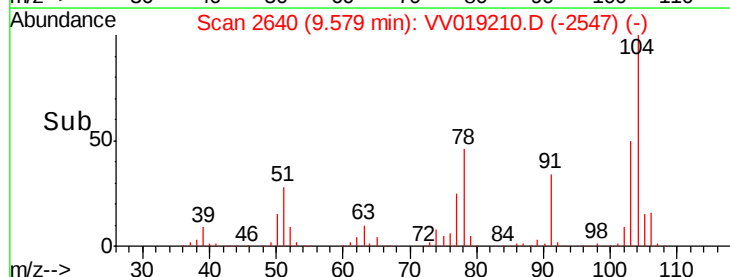
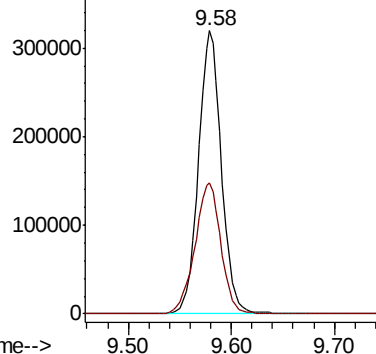


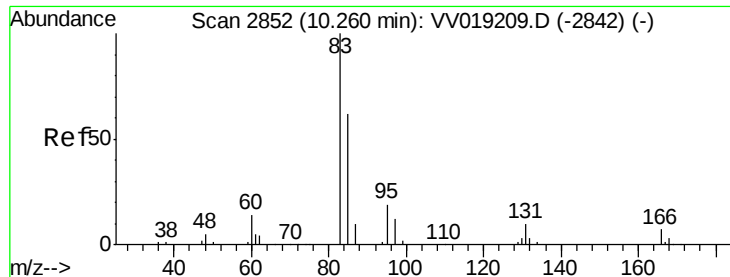
#55
Styrene
Concen: 101.246 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. 0.00 min
Lab File: VV019210.D
Acq: 02 Nov 2020 19:22

Tgt Ion:104 Resp: 493776
Ion Ratio Lower Upper
104 100
78 46.2 32.6 60.5



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





#57

1,1,2,2-Tetrachloroethane

Concen: 98.592 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD100305

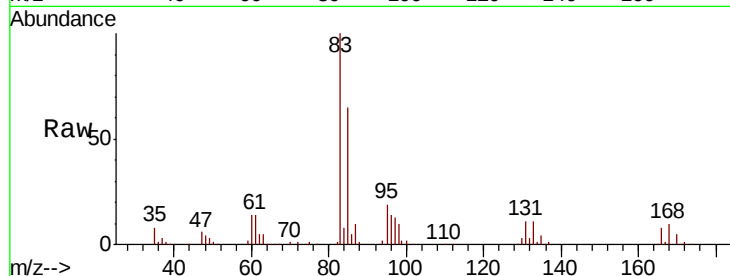
Tot Ion: 83 Resp: 246587

Ion Ratio Lower Upper

83 100

85 65.1 45.0 83.6

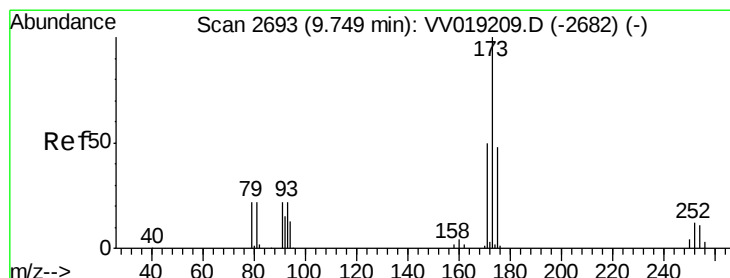
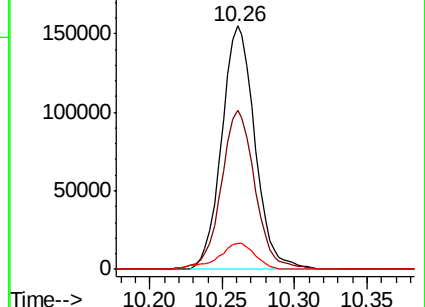
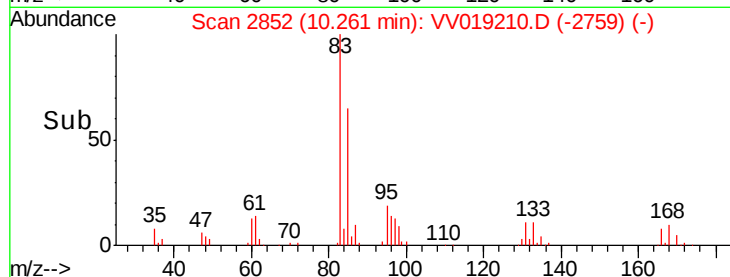
131 10.9 8.9 13.3



Abundance Ion 83.00 (82.70 to 83.70): VV019210.D (-2759) (-)

Ion 85.00 (84.70 to 85.70): VV019210.D (-2759) (-)

Ion 131.00 (130.70 to 131.70): VV019210.D (-2759) (-)



#59

Bromoform

Concen: 104.323 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

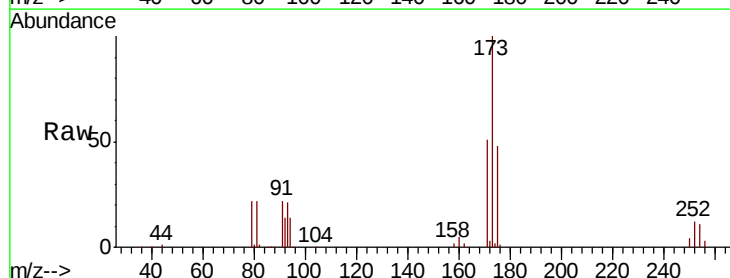
Tgt Ion: 173 Resp: 154442

Ion Ratio Lower Upper

173 100

175 49.2 38.4 57.6

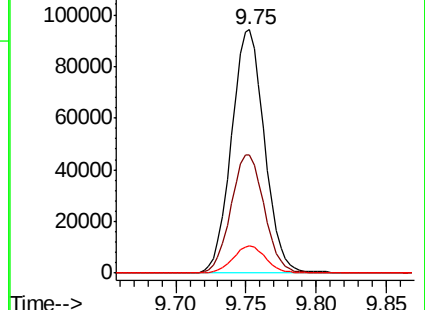
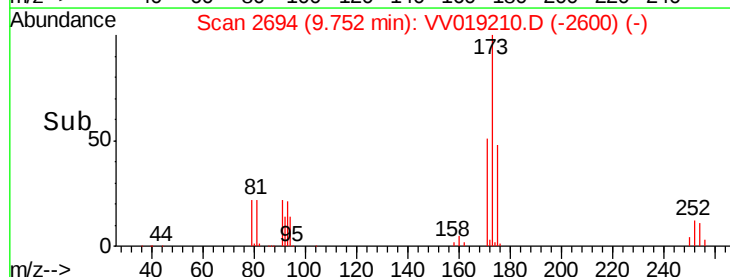
254 11.1 9.0 13.6

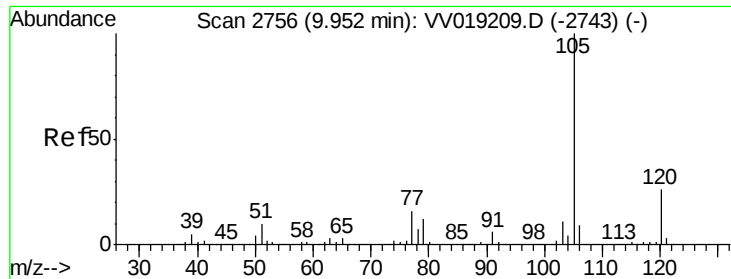


Abundance Ion 173.00 (172.70 to 173.70): VV019210.D (-2600) (-)

Ion 175.00 (174.70 to 175.70): VV019210.D (-2600) (-)

Ion 254.00 (253.70 to 254.70): VV019210.D (-2600) (-)





#60

Isopropylbenzene

Concen: 87.710 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD100305

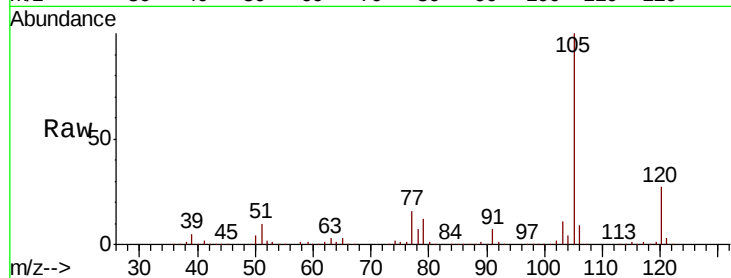
Tot Ion:105 Resp: 708481

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.4

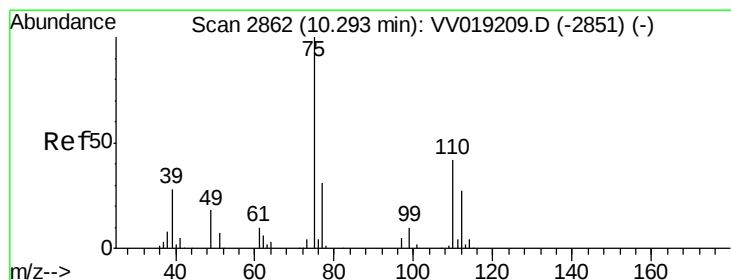
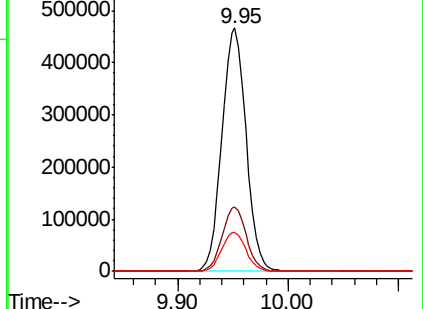
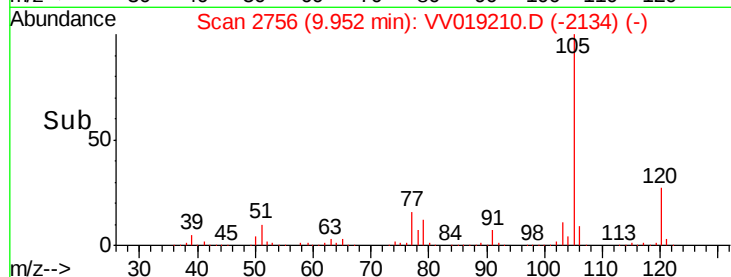
77 16.1 13.0 19.6



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



#61

1,2,3-Trichloropropane

Concen: 96.533 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

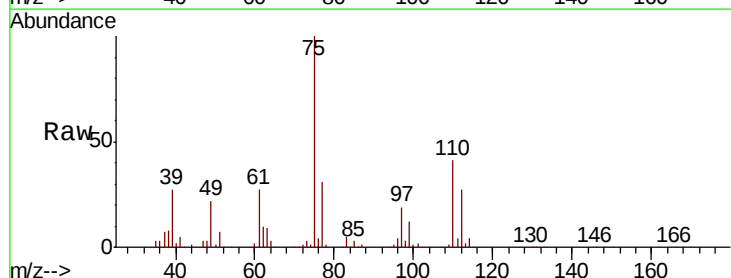
Tgt Ion: 75 Resp: 207663

Ion Ratio Lower Upper

75 100

77 31.8 24.8 37.2

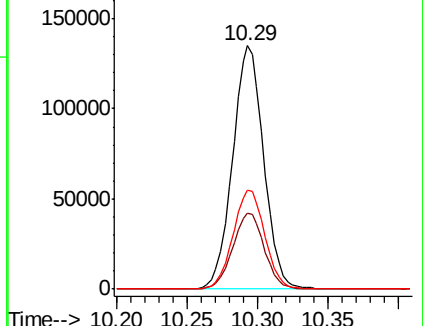
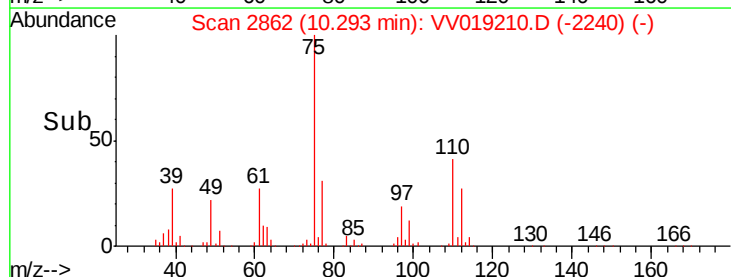
110 41.8 33.4 50.2

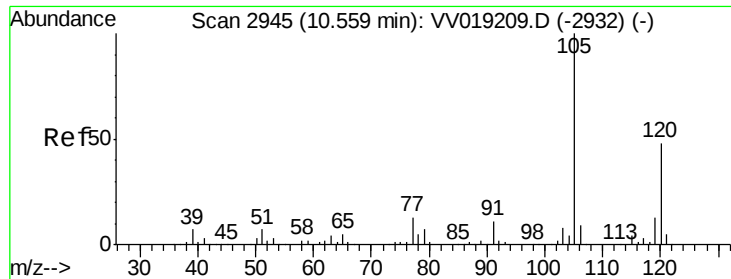


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

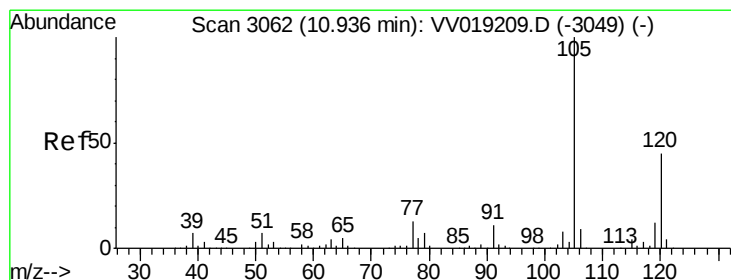
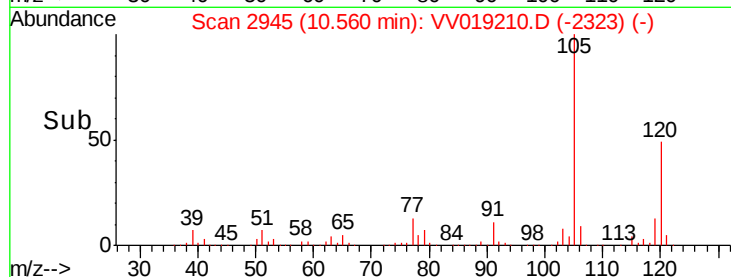
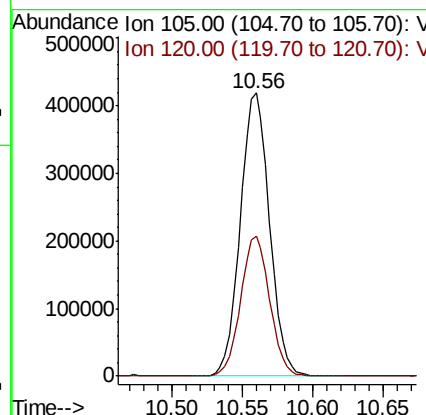
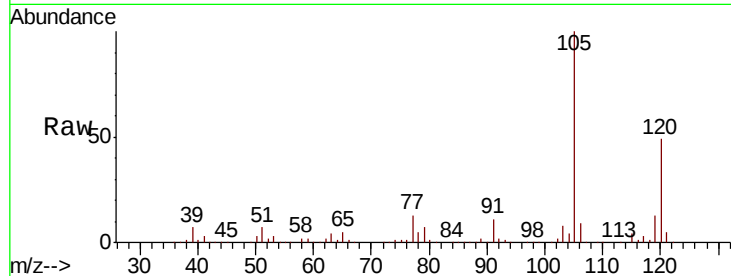




#62
 1,3,5-Trimethylbenzene
 Concen: 88.304 ug/L
 RT: 10.56 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

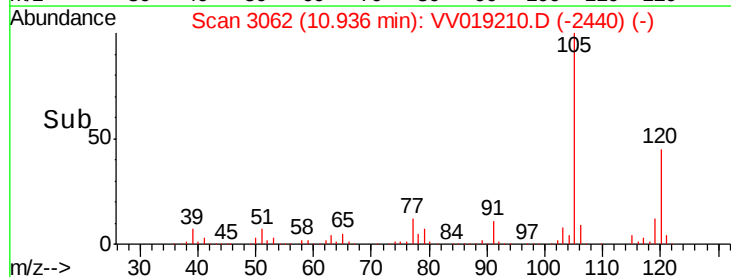
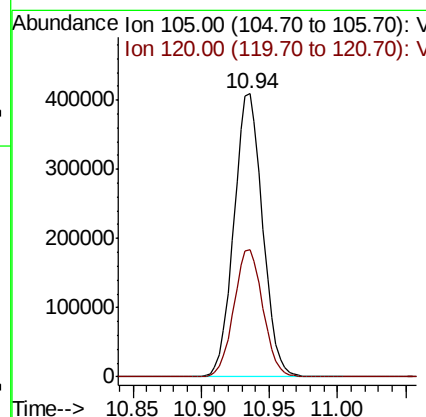
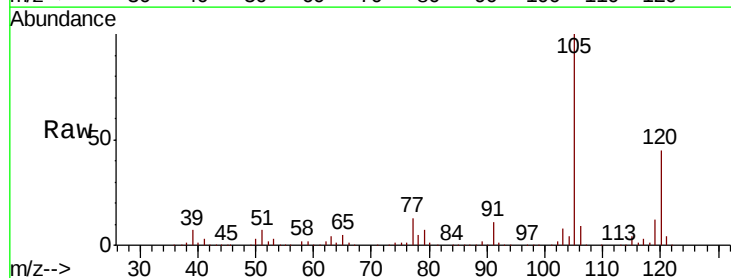
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

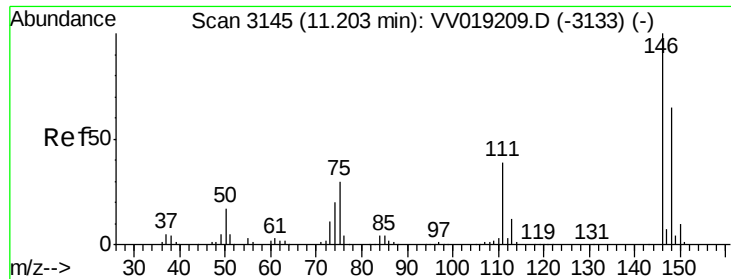
Tot Ion:105 Resp: 608851
 Ion Ratio Lower Upper
 105 100
 120 49.1 38.3 57.5



#63
 1,2,4-Trimethylbenzene
 Concen: 88.950 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion:105 Resp: 598835
 Ion Ratio Lower Upper
 105 100
 120 45.4 35.7 53.5

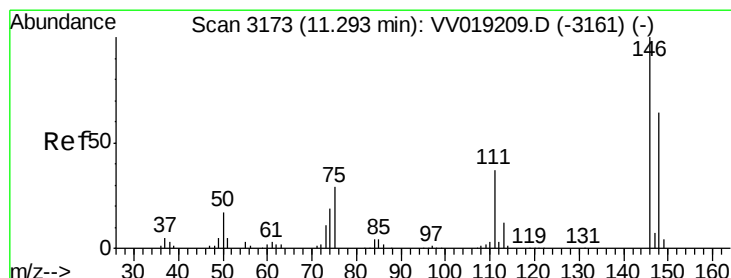
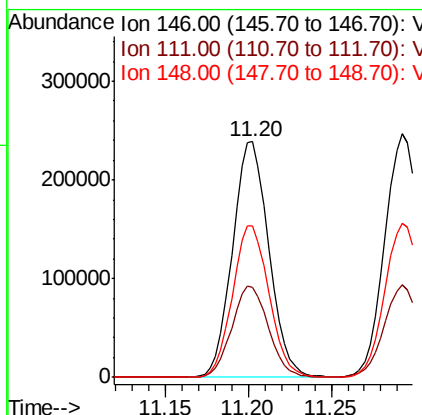
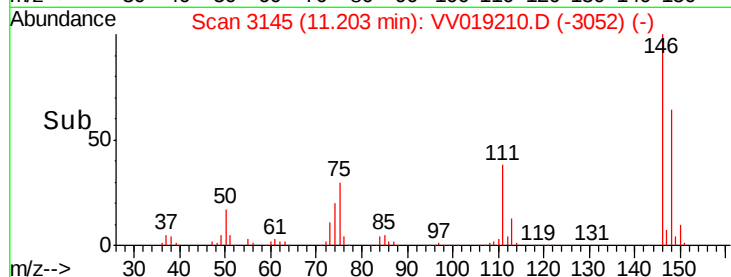
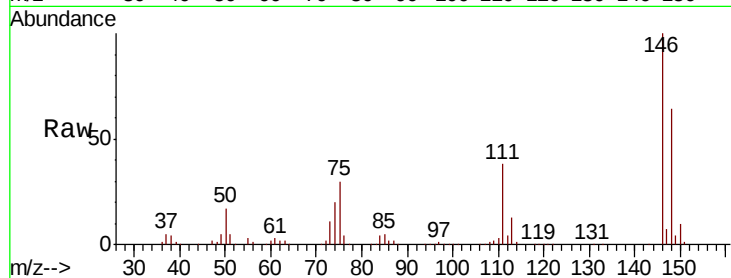




#64
 1,3-Dichlorobenzene
 Concen: 92.637 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

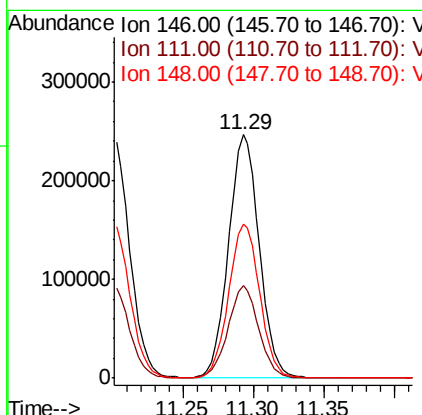
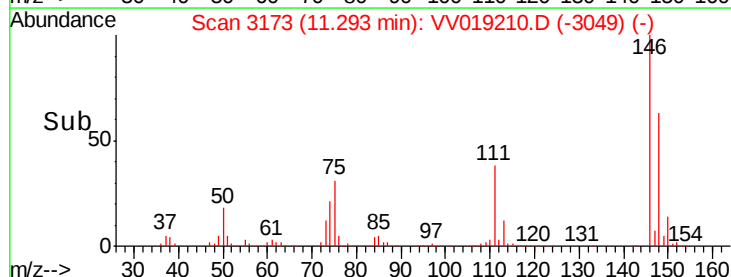
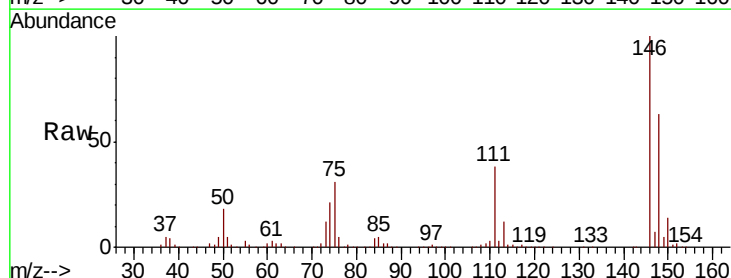
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

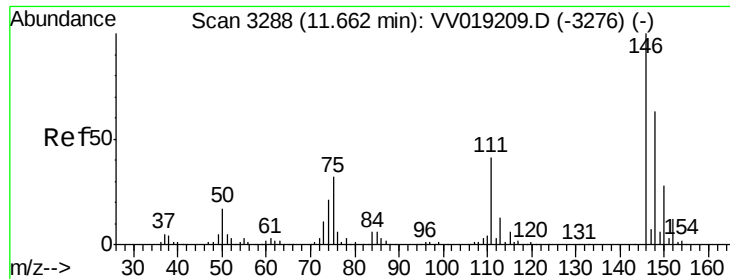
Tot Ion:146 Resp: 364111
 Ion Ratio Lower Upper
 146 100
 111 38.4 27.3 50.7
 148 64.4 45.2 84.0



#65
 1,4-Dichlorobenzene
 Concen: 92.486 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion:146 Resp: 374032
 Ion Ratio Lower Upper
 146 100
 111 37.8 25.9 48.1
 148 63.3 44.9 83.5

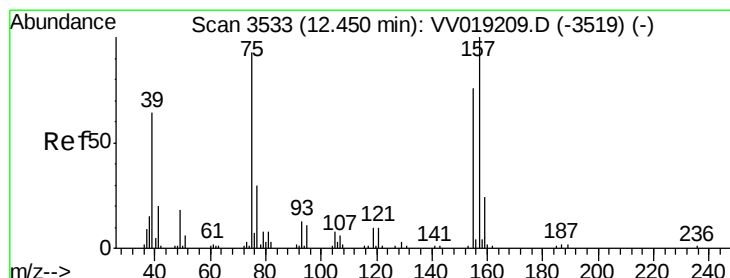
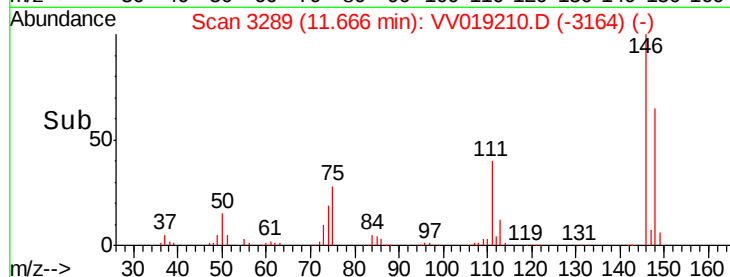
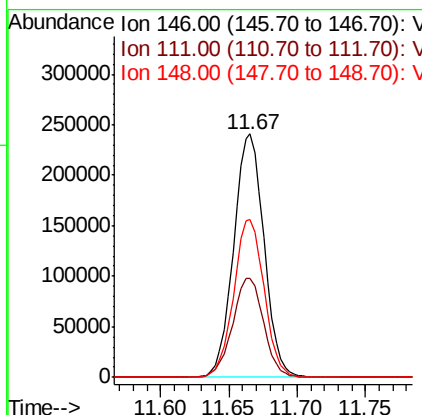
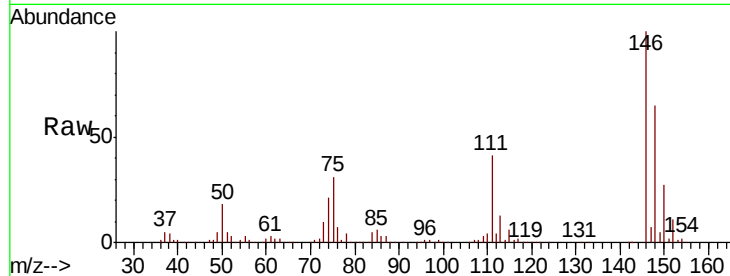




#67
 1,2-Dichlorobenzene
 Concen: 95.421 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

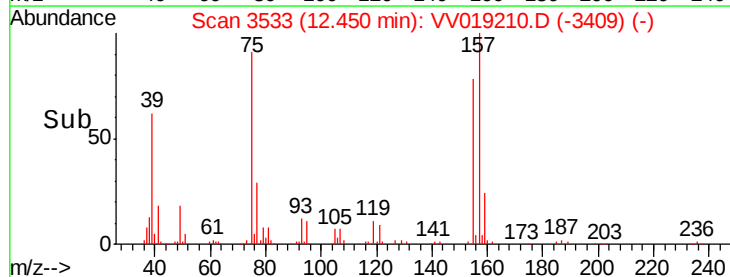
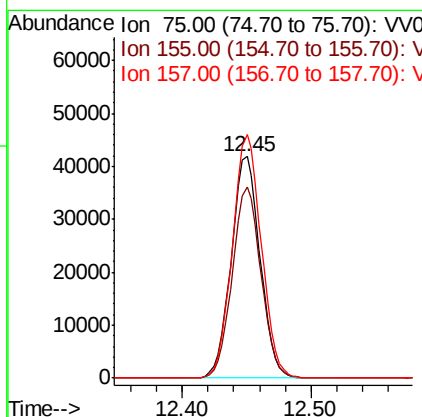
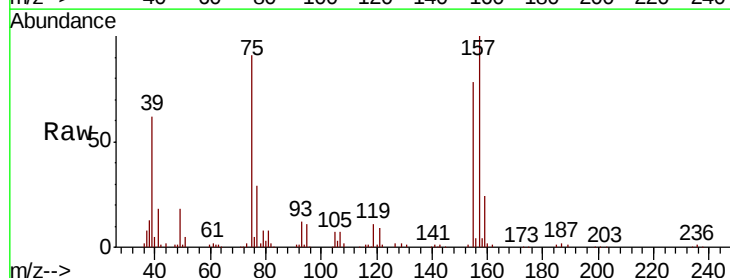
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

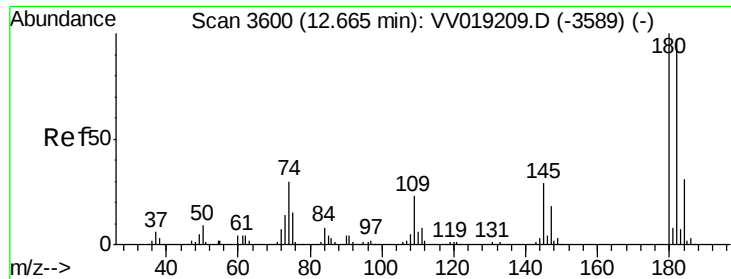
Tot Ion:146 Resp: 371423
 Ion Ratio Lower Upper
 146 100
 111 40.9 32.6 48.8
 148 65.0 50.1 75.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 100.569 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion: 75 Resp: 65239
 Ion Ratio Lower Upper
 75 100
 155 86.1 65.8 98.6
 157 110.0 86.3 129.5

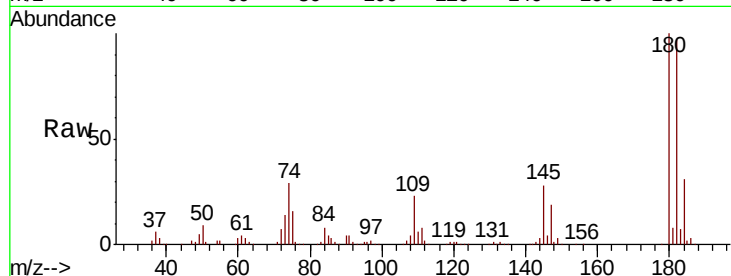




#69
 1,3,5-Trichlorobenzene
 Concen: 92.931 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD100305

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	77.7	116.5
184	31.2	24.9	37.3
145	28.4	23.4	35.0



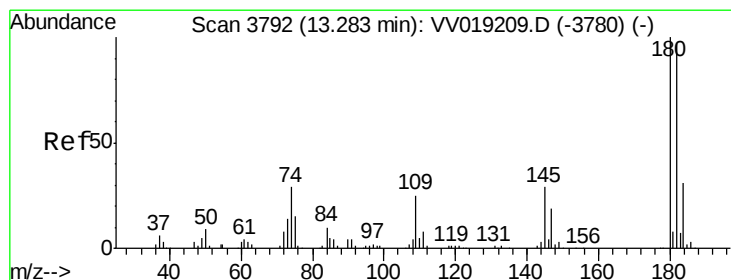
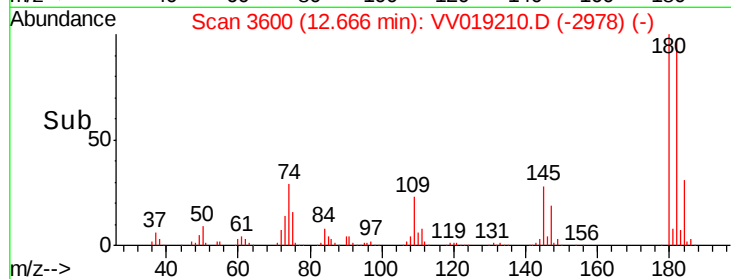
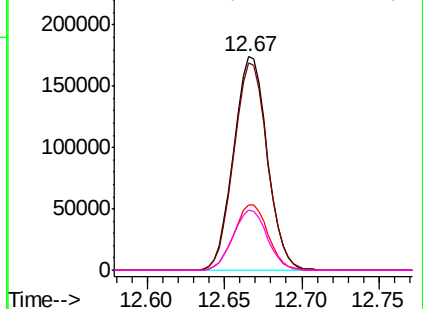
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

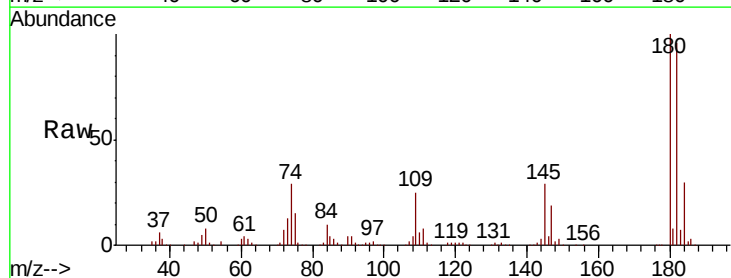
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 100.718 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019210.D
 Acq: 02 Nov 2020 19:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.6	114.8
145	28.8	23.2	34.8

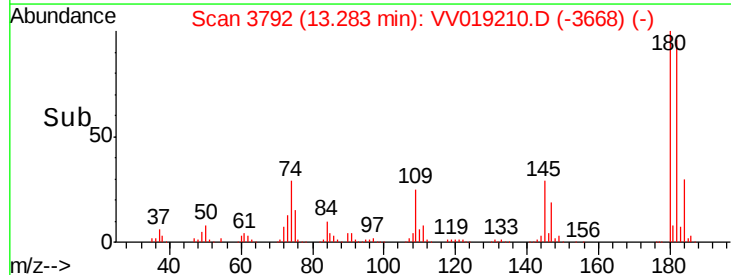
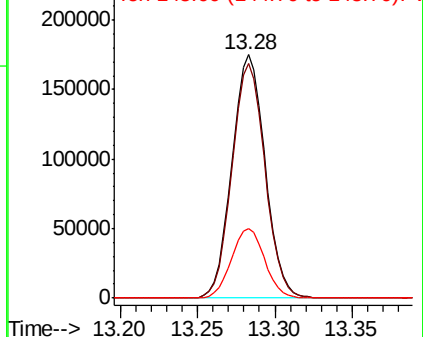


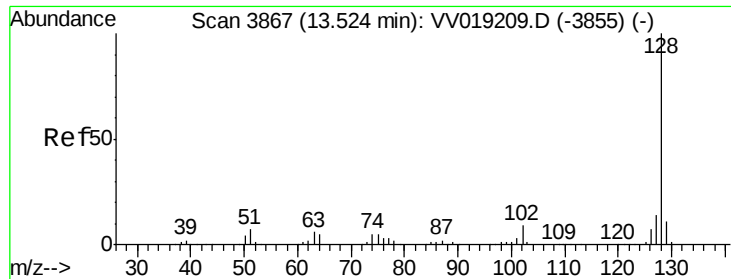
Abundance

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





#71

Naphthalene

Concen: 104.890 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

Instrument :

MSVOA_V

ClientSampleId :

VSTD100305

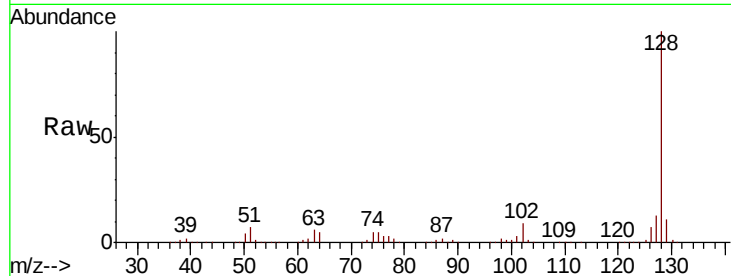
Tot Ion:128 Resp: 816060

Ion Ratio Lower Upper

128 100

127 13.4 10.7 16.1

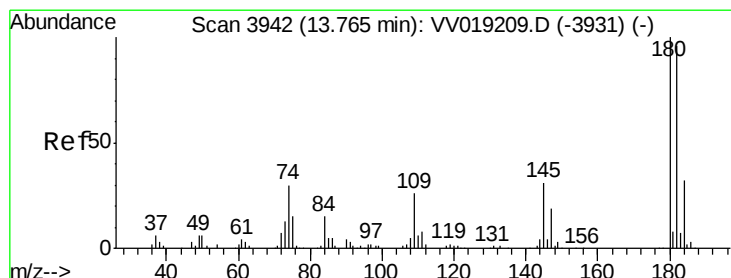
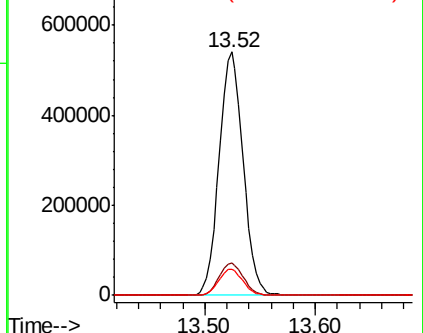
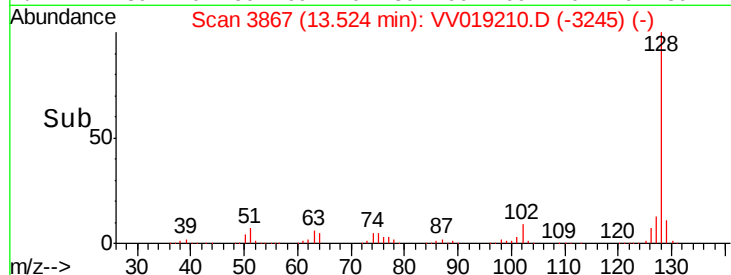
129 10.8 8.6 13.0



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



#72

1,2,3-Trichlorobenzene

Concen: 103.500 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019210.D

Acq: 02 Nov 2020 19:22

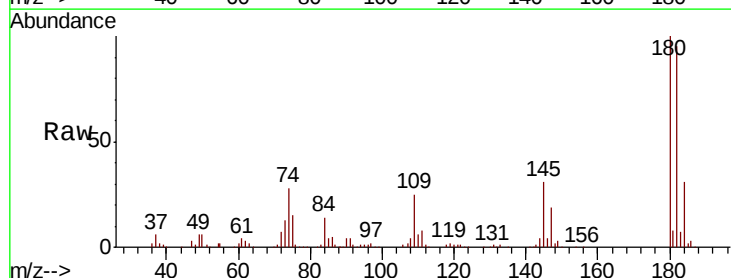
Tgt Ion:180 Resp: 262116

Ion Ratio Lower Upper

180 100

182 96.4 77.4 116.0

145 30.9 24.7 37.1



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

