

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110420\
 Data File : VV019228.D
 Acq On : 03 Nov 2020 11:01
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

Quant Time: Nov 04 07:07:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM110320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Nov 03 05:28:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	269807	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	264396	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.27	152	148130	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	93425	44.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.74%
7) Chloroethane-d5	1.58	69	78075	47.85	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	95.70%
11) 1,1-Dichloroethene-d2	2.12	63	190827	49.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.00%
21) 2-Butanone-d5	3.90	46	112369	97.87	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.87%
24) Chloroform-d	4.37	84	181354	46.54	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.08%
26) 1,2-Dichloroethane-d4	5.05	65	123239	45.39	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.78%
32) Benzene-d6	5.07	84	336327	46.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.14%
36) 1,2-Dichloropropane-d6	6.09	67	99665	45.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	91.44%
41) Toluene-d8	7.33	98	315534	46.40	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.80%
43) trans-1,3-Dichloropropene-	7.64	79	57475	46.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.14%
47) 2-Hexanone-d5	8.10	63	78106	92.30	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	92.30%
56) 1,1,2,2-Tetrachloroethane-	10.23	84	128947	44.40	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	88.80%
66) 1,2-Dichlorobenzene-d4	11.65	152	134707	45.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.92%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	88297	53.418	ug/L	100
3) Chloromethane	1.25	50	85640	49.757	ug/L	100
5) Vinyl chloride	1.32	62	91037	50.814	ug/L	98
6) Bromomethane	1.53	94	63528	52.762	ug/L	97
8) Chloroethane	1.60	64	61125	52.167	ug/L	96
9) Trichlorofluoromethane	1.77	101	161709	54.522	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	83590	59.315	ug/L	99
12) 1,1-Dichloroethene	2.13	96	77042	52.894	ug/L	94
13) Acetone	2.19	43	119831	137.244	ug/L	100
14) Carbon disulfide	2.31	76	220342	52.682	ug/L	100
15) Methyl Acetate	2.44	43	83116	49.129	ug/L	98
16) Methylene chloride	2.52	84	85305	49.268	ug/L	98
17) trans-1,2-Dichloroethene	2.78	96	81517	51.589	ug/L	98
18) Methyl tert-butyl Ether	2.78	73	274569	49.433	ug/L	99
19) 1,1-Dichloroethane	3.21	63	152025	49.105	ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	89753	51.399	ug/L	96
22) 2-Butanone	3.99	43	121444	109.576	ug/L	99

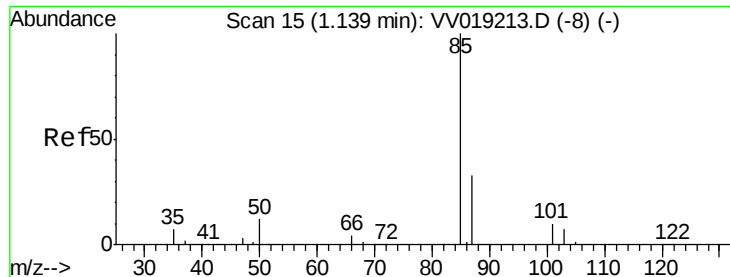
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	46324	48.181	ug/L	92
25) Chloroform	4.40	83	164023	49.417	ug/L	99
27) 1,2-Dichloroethane	5.15	62	136872	48.512	ug/L	99
29) Cyclohexane	4.70	56	129205	57.104	ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	155291	50.643	ug/L	99
31) Carbon tetrachloride	4.85	117	137450	51.914	ug/L	98
33) Benzene	5.12	78	330201	50.253	ug/L	100
34) Trichloroethene	5.93	95	90285	50.562	ug/L	98
35) Methylcyclohexane	6.15	83	122847	56.839	ug/L	99
37) 1,2-Dichloropropane	6.19	63	83198	47.444	ug/L	99
38) Bromodichloromethane	6.53	83	122463	48.526	ug/L	97
39) cis-1,3-Dichloropropene	7.05	75	139495	49.714	ug/L	100
40) 4-Methyl-2-pentanone	7.24	43	220327	93.526	ug/L	100
42) Toluene	7.41	91	364530	51.325	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	145375	50.560	ug/L	96
45) 1,1,2-Trichloroethane	7.86	97	82582	47.646	ug/L	97
46) Tetrachloroethene	7.99	164	77287	53.046	ug/L	98
48) 2-Hexanone	8.15	43	181778	102.063	ug/L	99
49) Dibromochloromethane	8.26	129	99141	47.962	ug/L	100
50) 1,2-Dibromoethane	8.37	107	86121	47.936	ug/L	97
51) Chlorobenzene	8.90	112	236730	49.829	ug/L	100
52) Ethylbenzene	9.03	91	410896	52.437	ug/L	99
53) m,p-Xylene	9.16	106	154900	52.802	ug/L	99
54) o-Xylene	9.56	106	150416	52.017	ug/L	98
55) Styrene	9.58	104	266417	51.759	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.26	83	121168	46.208	ug/L	100
59) Bromoform	9.75	173	75782	46.095	ug/L	99
60) Isopropylbenzene	9.95	105	412340	53.112	ug/L	99
61) 1,2,3-Trichloropropane	10.29	75	104169	45.265	ug/L	99
62) 1,3,5-Trimethylbenzene	10.56	105	347030	53.668	ug/L	98
63) 1,2,4-Trimethylbenzene	10.93	105	338559	53.509	ug/L	99
64) 1,3-Dichlorobenzene	11.20	146	206093	50.750	ug/L	99
65) 1,4-Dichlorobenzene	11.29	146	214013	50.939	ug/L	99
67) 1,2-Dichlorobenzene	11.67	146	203669	49.023	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.45	75	30153	44.912	ug/L	98
69) 1,3,5-Trichlorobenzene	12.67	180	152327	52.262	ug/L	99
70) 1,2,4-trichlorobenzene	13.28	180	141530	51.605	ug/L	100
71) Naphthalene	13.52	128	386993	50.033	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	139668	51.373	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 53.418 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

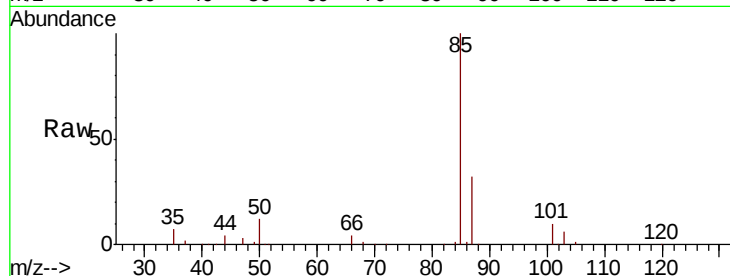
VSTD050311

Tot Ion: 85 Resp: 88297

Ion Ratio Lower Upper

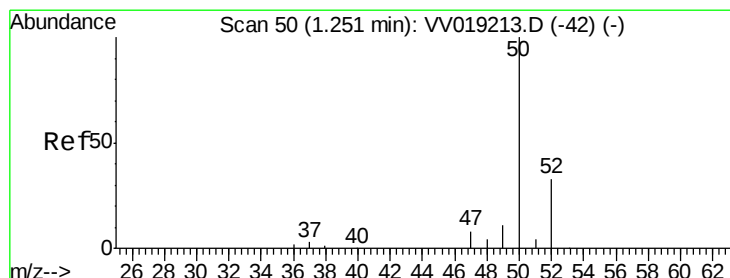
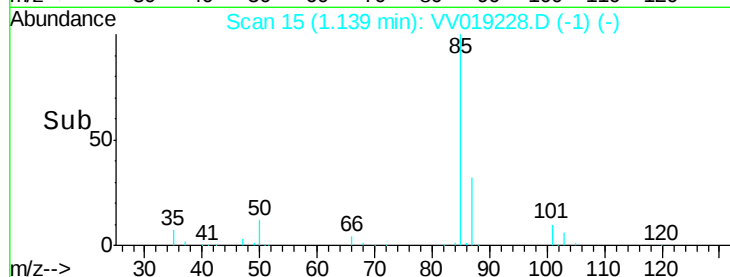
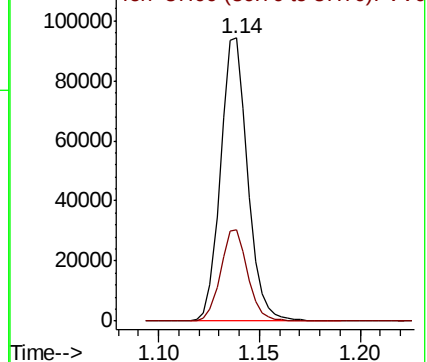
85 100

87 32.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 49.757 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV019228.D

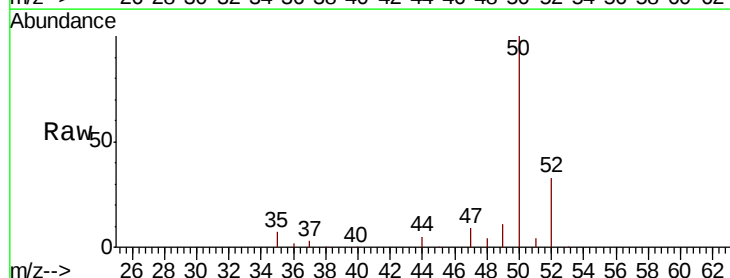
Acq: 03 Nov 2020 11:01

Tgt Ion: 50 Resp: 85640

Ion Ratio Lower Upper

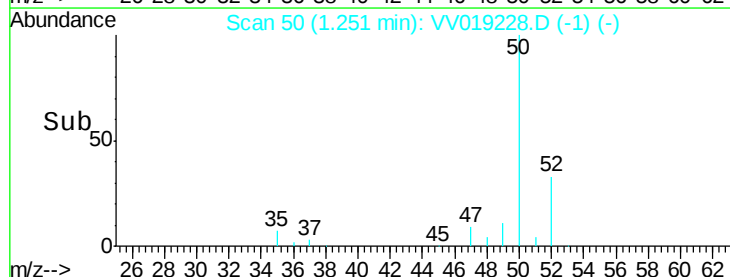
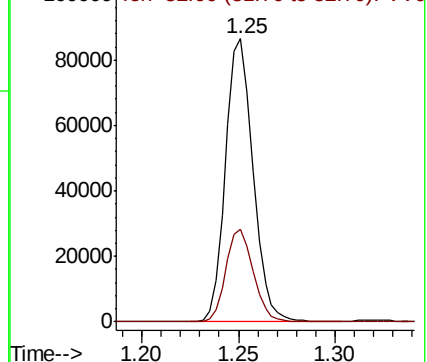
50 100

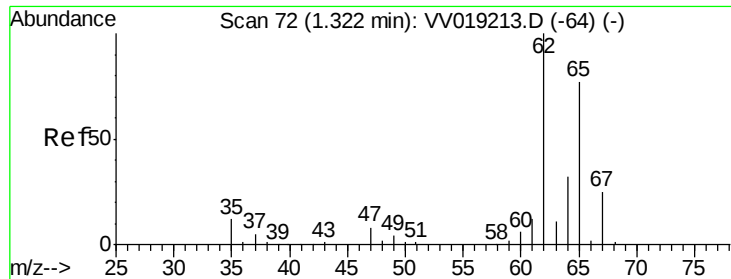
52 32.7 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 50.814 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

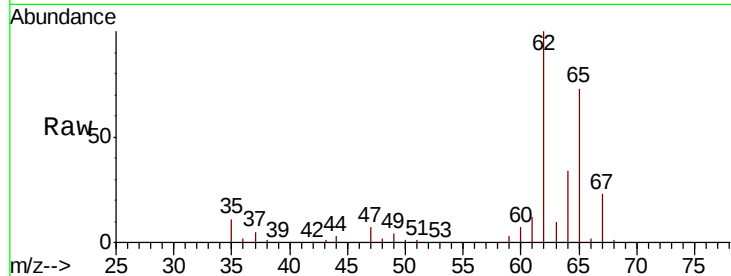
VSTD050311

Tot Ion: 62 Resp: 91037

Ion Ratio Lower Upper

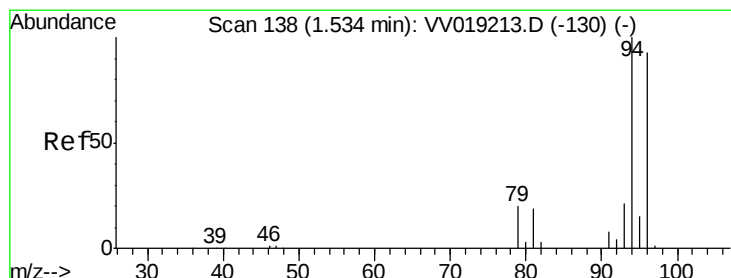
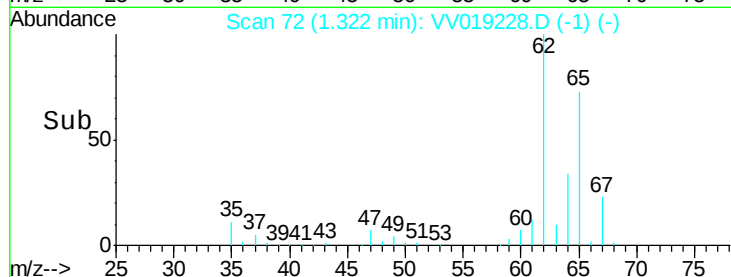
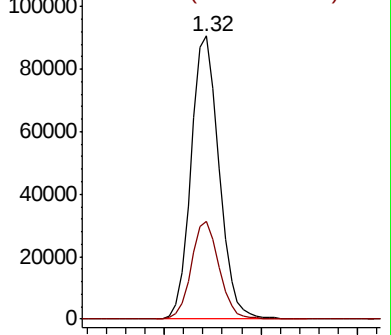
62 100

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: 52.762 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019228.D

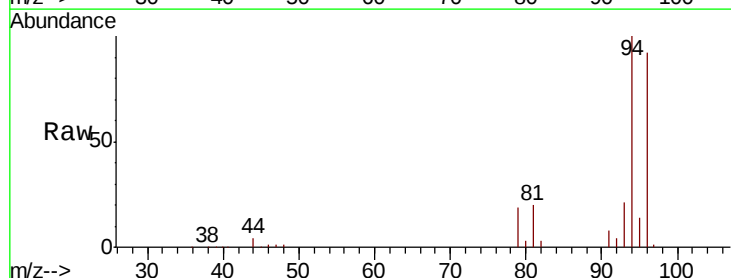
Acq: 03 Nov 2020 11:01

Tgt Ion: 94 Resp: 63528

Ion Ratio Lower Upper

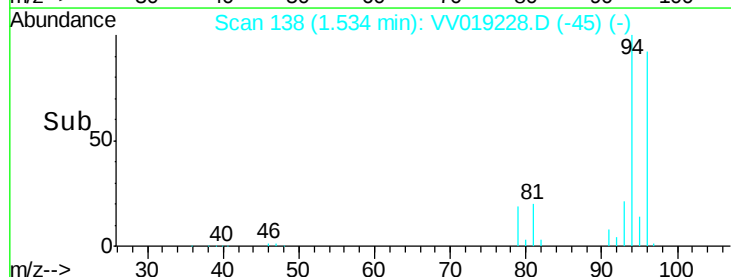
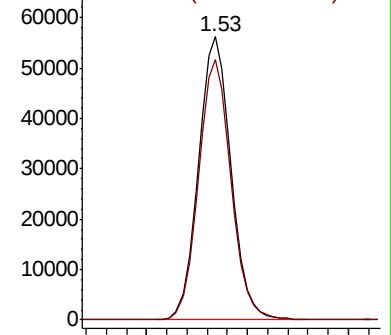
94 100

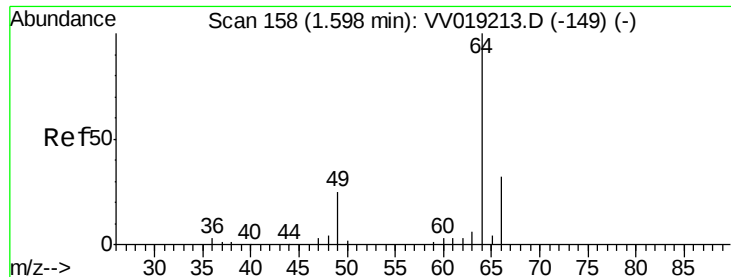
96 91.8 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

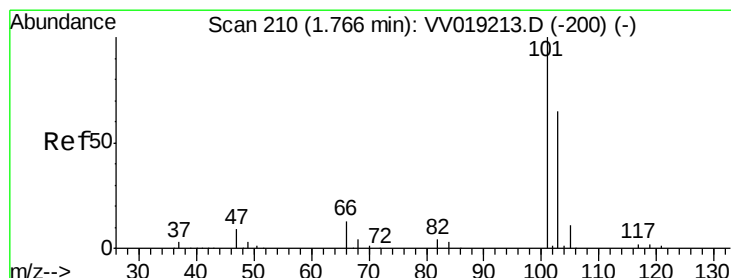
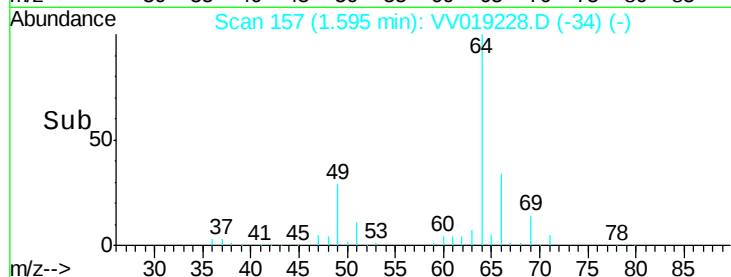
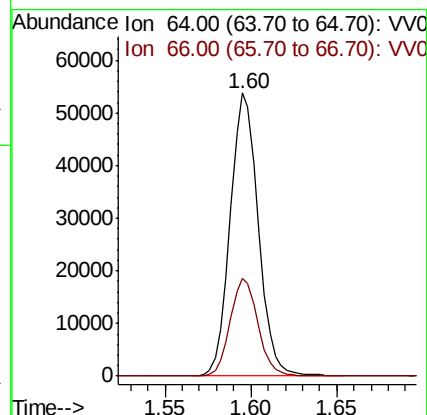
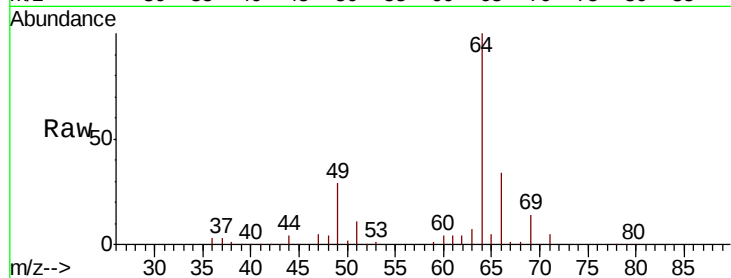




#8
Chloroethane
Concen: 52.167 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

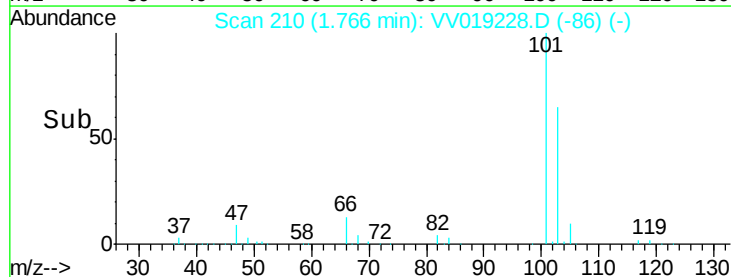
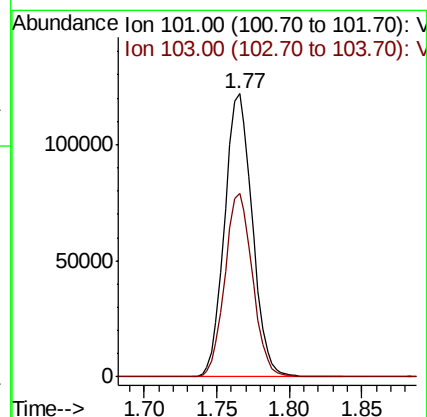
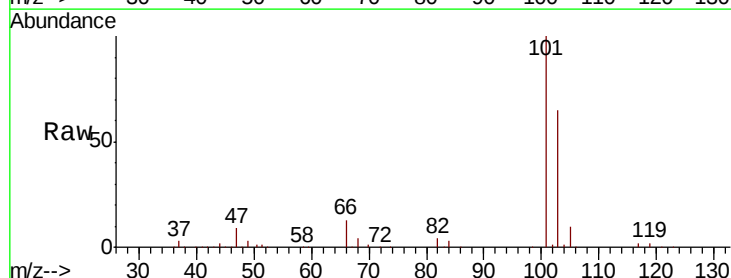
Instrument :
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VSTD050311

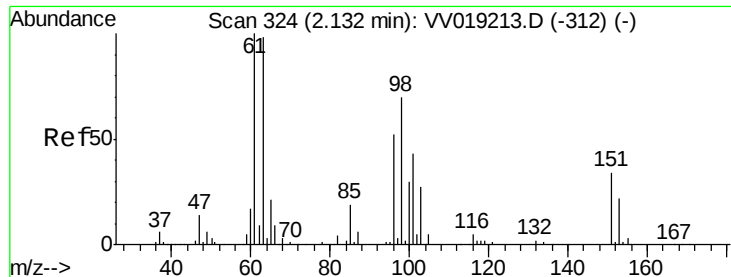
Tot Ion: 64 Resp: 61125
Ion Ratio Lower Upper
64 100
66 34.5 22.5 41.9



#9
Trichlorofluoromethane
Concen: 54.522 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion:101 Resp: 161709
Ion Ratio Lower Upper
101 100
103 64.6 52.3 78.5





#10

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

Concen: 59.315 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD050311

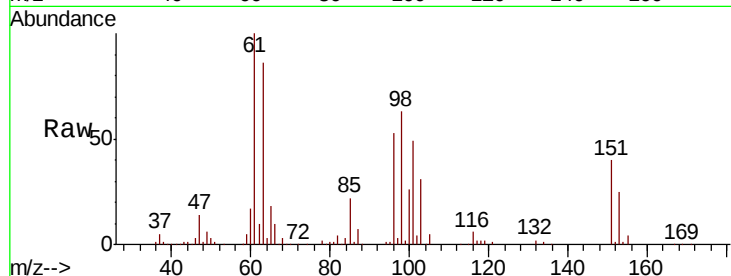
Tot Ion:101 Resp: 83590

Ion Ratio Lower Upper

101 100

85 44.4 35.6 53.4

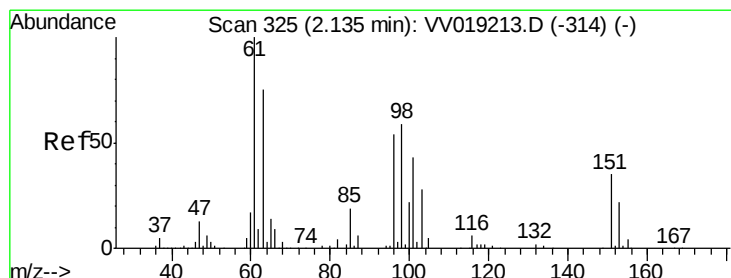
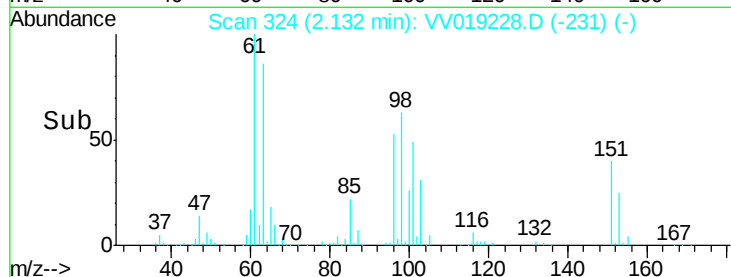
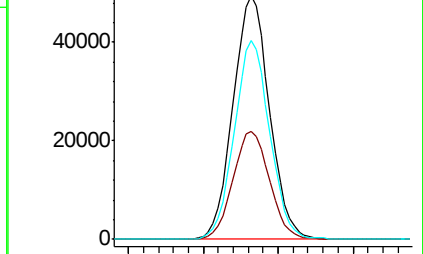
151 79.4 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): VV019228.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV019228.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV019228.D (-231) (-)



#12

1,1-Dichloroethene

Concen: 52.894 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

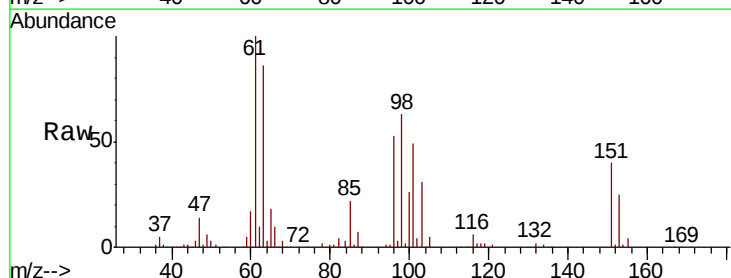
Tgt Ion: 96 Resp: 77042

Ion Ratio Lower Upper

96 100

61 189.9 133.6 248.0

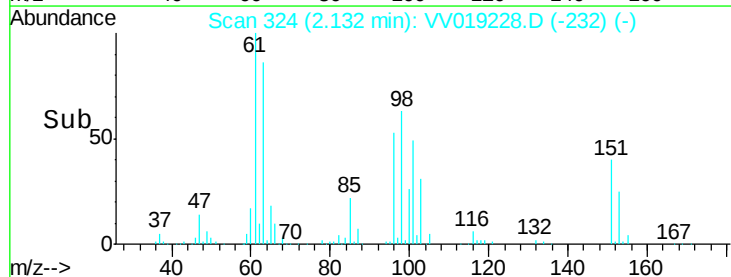
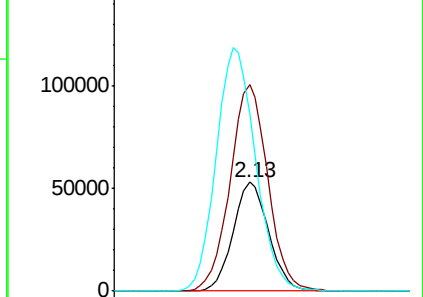
63 163.3 103.0 191.2

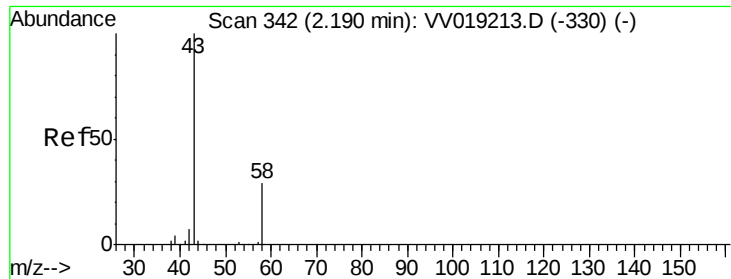


Abundance Ion 96.00 (95.70 to 96.70): VV019228.D (-232) (-)

Ion 61.00 (60.70 to 61.70): VV019228.D (-232) (-)

Ion 63.00 (62.70 to 63.70): VV019228.D (-232) (-)





#13

Acetone

Concen: 137.244 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

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ClientSampleId :

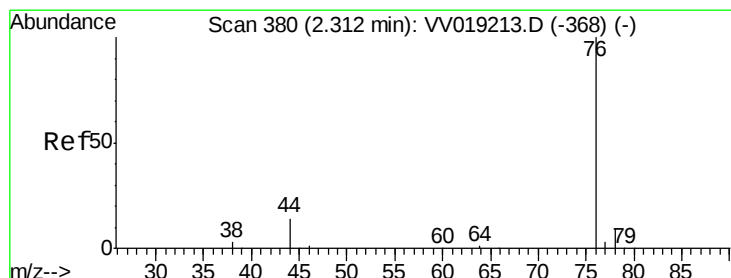
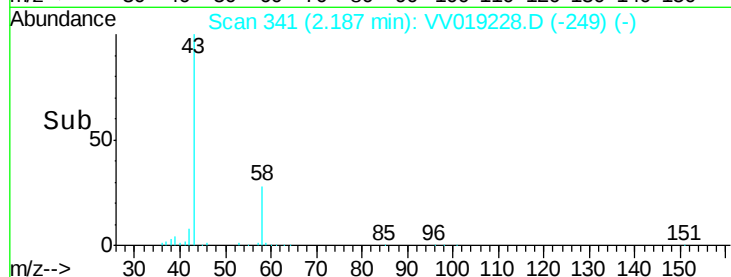
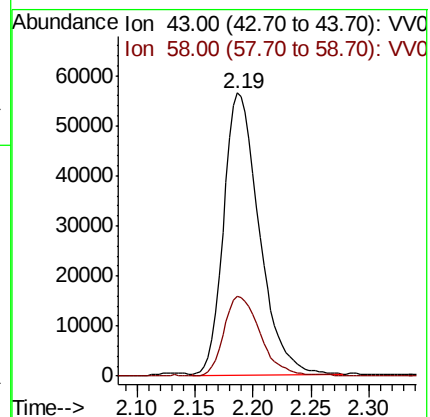
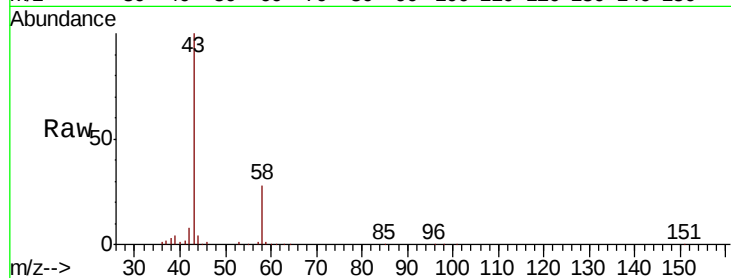
VSTD050311

Tot Ion: 43 Resp: 119831

Ion Ratio Lower Upper

43 100

58 29.1 0.0 57.8



#14

Carbon disulfide

Concen: 52.682 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV019228.D

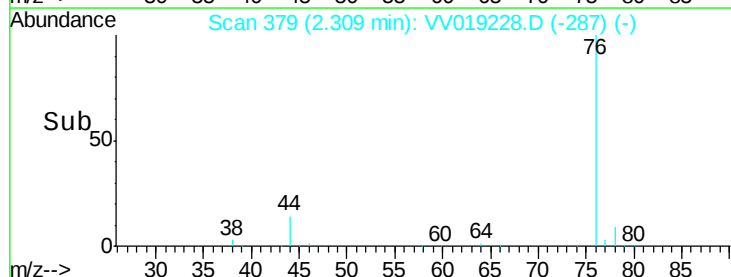
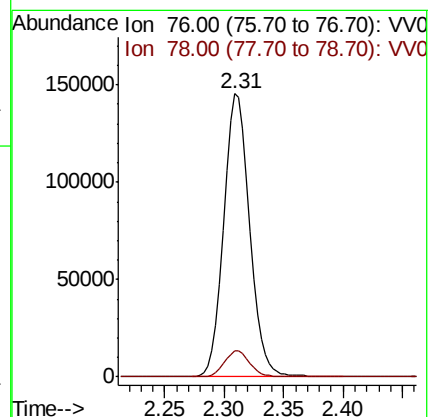
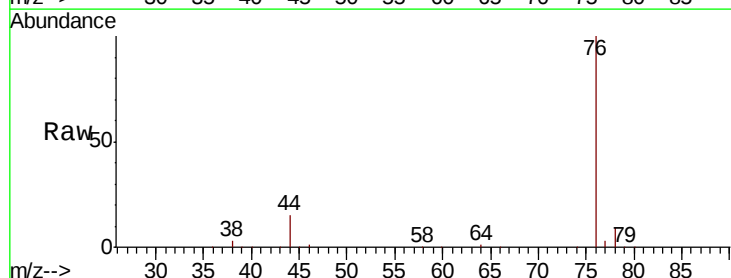
Acq: 03 Nov 2020 11:01

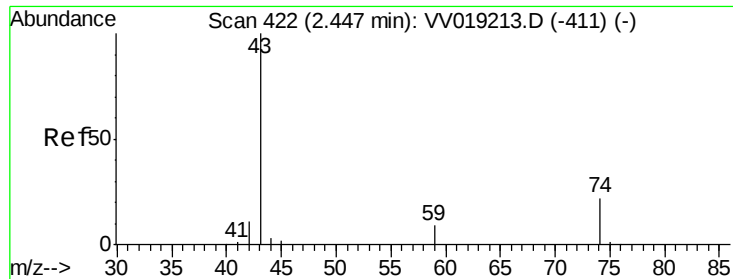
Tgt Ion: 76 Resp: 220342

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0

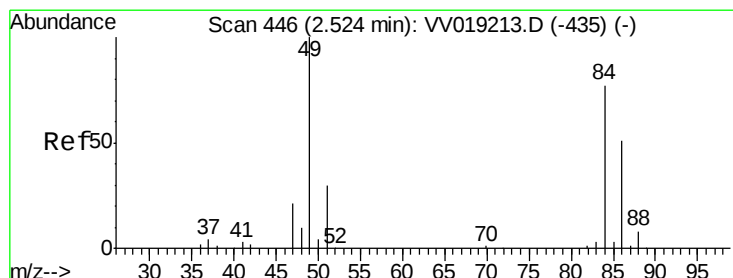
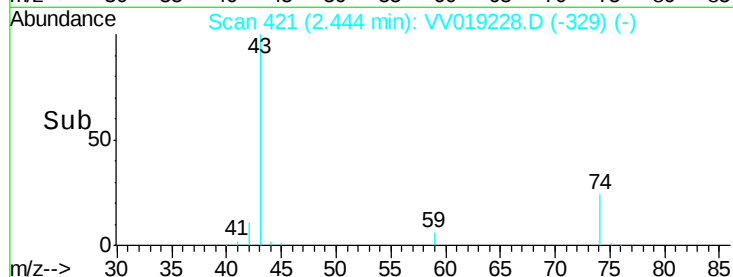
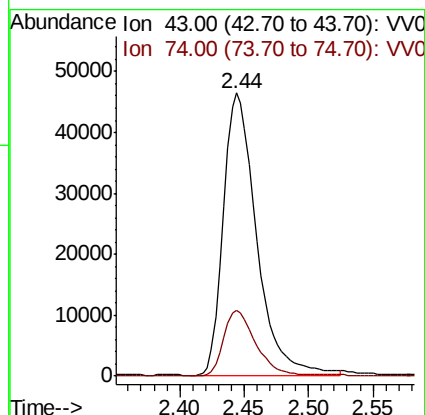
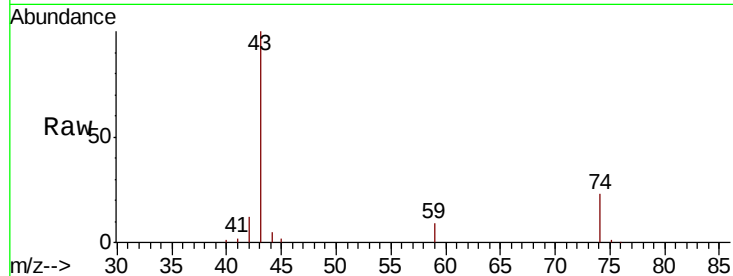




#15
Methvl Acetate
Concen: 49.129 ug/L
RT: 2.44 min Scan# 421
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

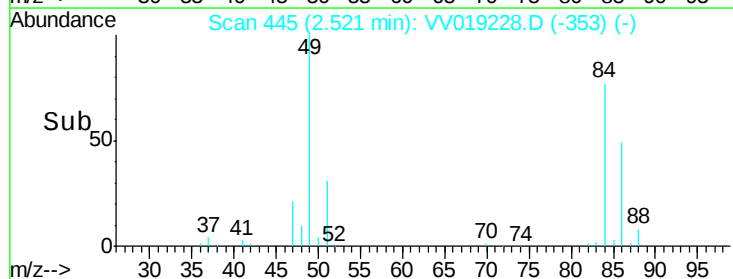
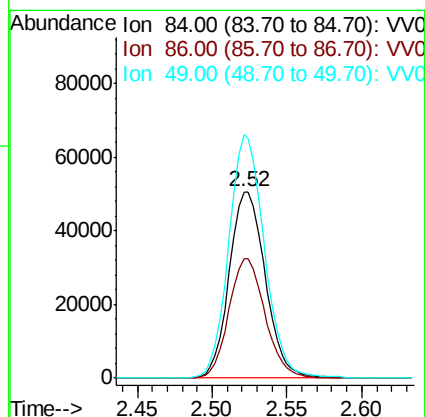
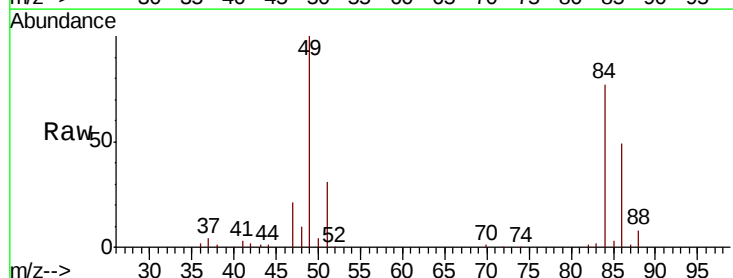
Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

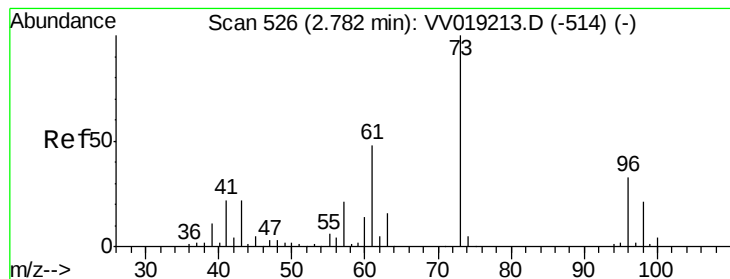
Tot Ion: 43 Resp: 83116
Ion Ratio Lower Upper
43 100
74 22.6 18.8 28.2



#16
Methylene chloride
Concen: 49.268 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion: 84 Resp: 85305
Ion Ratio Lower Upper
84 100
86 63.9 45.6 84.8
49 130.7 89.3 165.9





#17

trans-1,2-Dichloroethene

Concen: 51.589 ug/L

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD050311

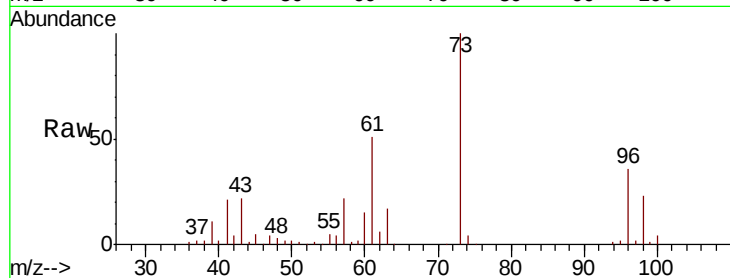
Tot Ion: 96 Resp: 81517

Ion Ratio Lower Upper

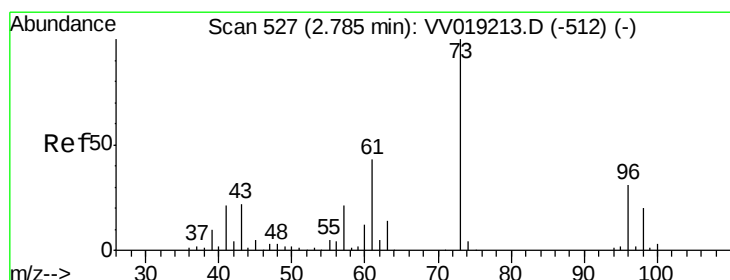
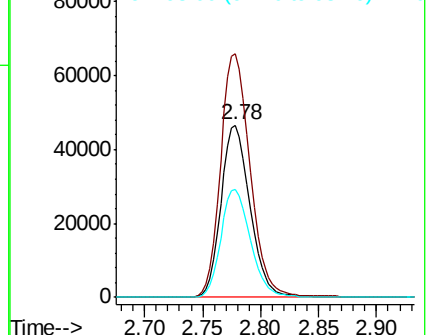
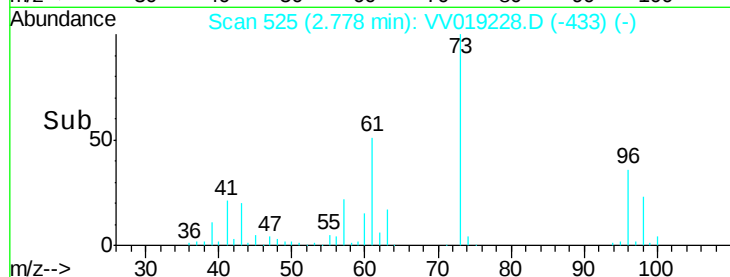
96 100

61 141.5 100.7 187.1

98 63.1 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VV019228.D (-433) (-)



#18

Methyl tert-butyl Ether

Concen: 49.433 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

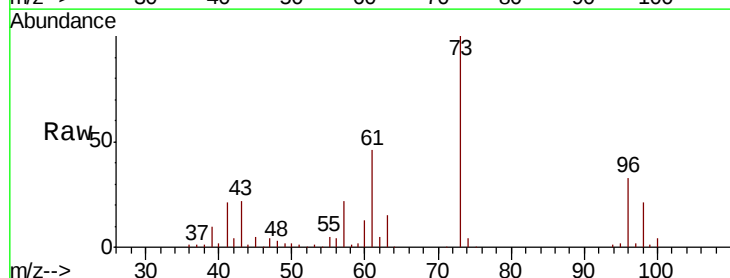
Tgt Ion: 73 Resp: 274569

Ion Ratio Lower Upper

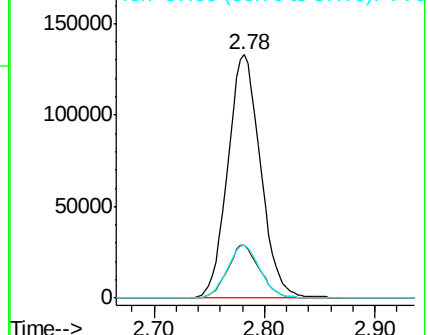
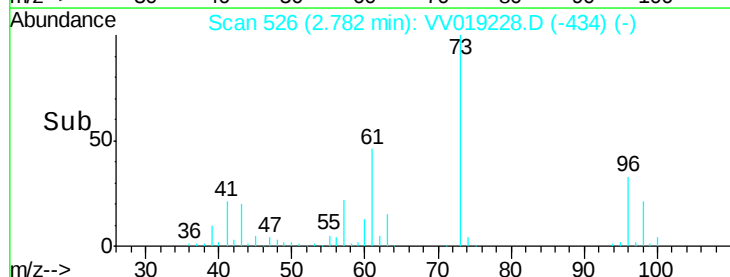
73 100

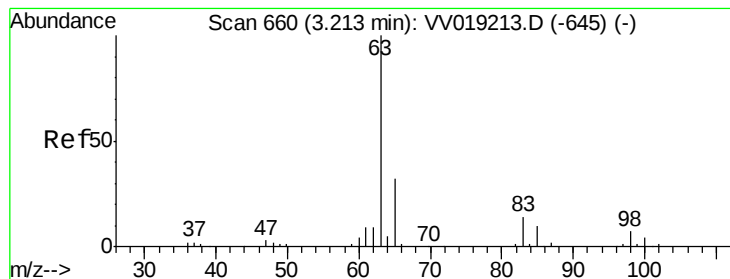
43 21.6 17.9 26.9

57 21.9 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VV019228.D (-434) (-)





#19

1,1-Dichloroethane

Concen: 49.105 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD050311

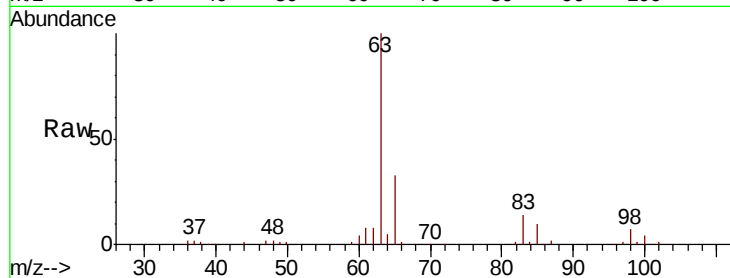
Tot Ion: 63 Resp: 152025

Ion Ratio Lower Upper

63 100

65 32.5 21.8 40.6

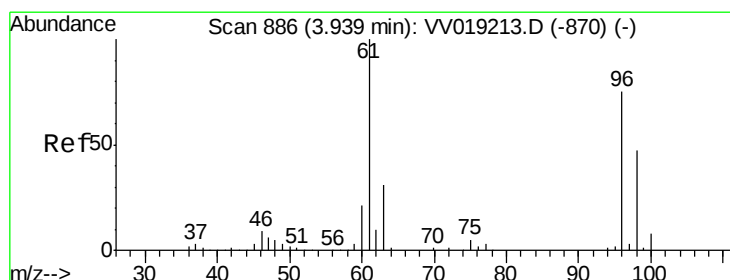
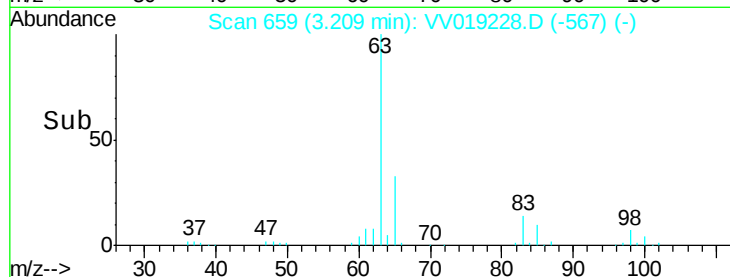
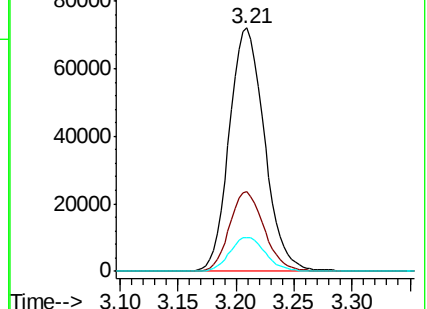
83 14.0 9.5 17.7



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: 51.399 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

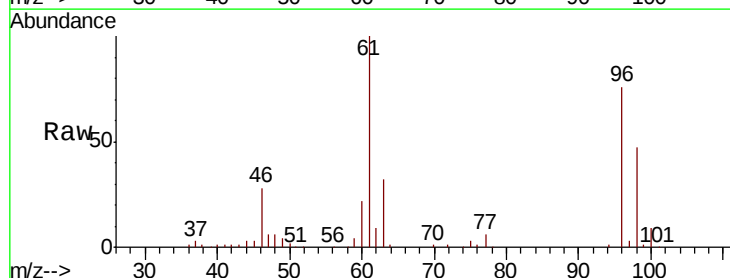
Tgt Ion: 96 Resp: 89753

Ion Ratio Lower Upper

96 100

61 131.9 95.6 177.6

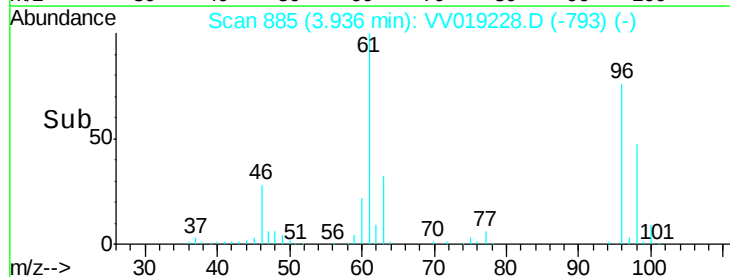
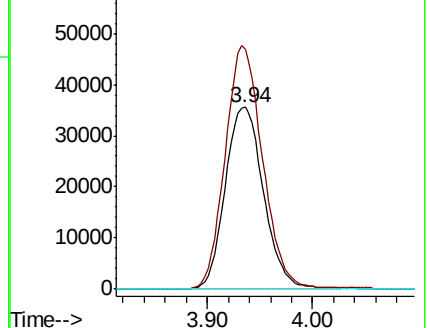
68 0.0 0.0 0.0

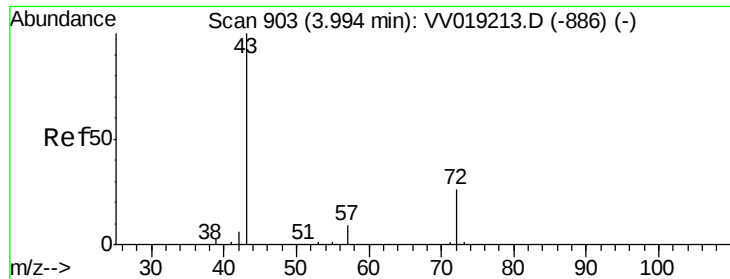


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 109.576 ug/L

RT: 3.99 min Scan# 901

Delta R.T. -0.01 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

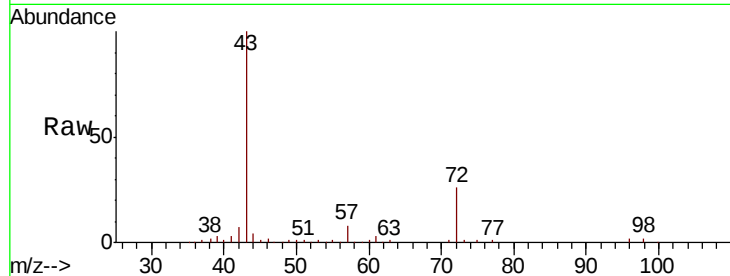
VSTD050311

Tot Ion: 43 Resp: 121444

Ion Ratio Lower Upper

43 100

72 24.8 12.7 38.0



Abundance Ion 43.00 (42.70 to 43.70): VV019213.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV019213.D (-886) (-)

3.99

40000

30000

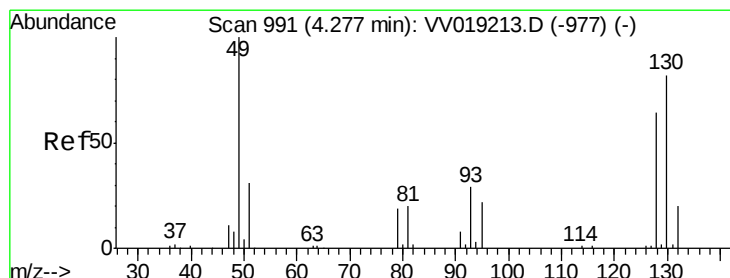
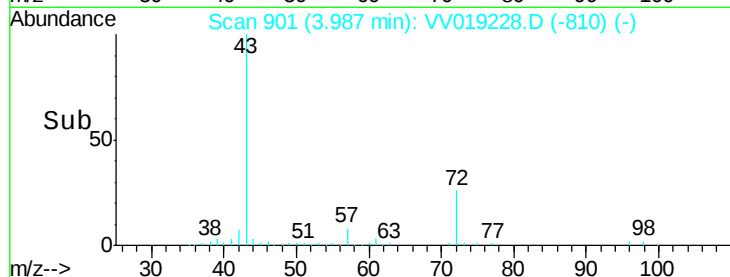
20000

10000

0

Time-->

3.90 4.00 4.10



#23

Bromochloromethane

Concen: 48.181 ug/L

RT: 4.27 min Scan# 989

Delta R.T. -0.01 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Tgt Ion: 128 Resp: 46324

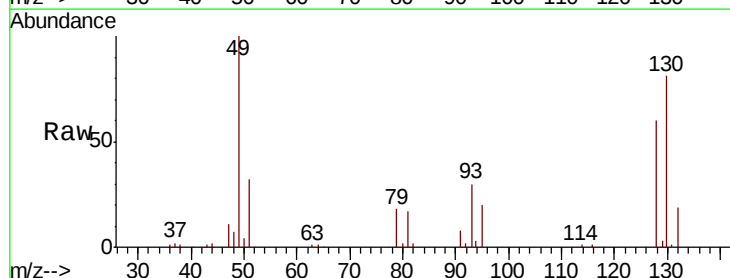
Ion Ratio Lower Upper

128 100

49 166.2 108.8 202.2

130 134.4 88.5 164.3

51 52.4 37.8 56.6



Abundance Ion 128.00 (127.70 to 128.70): VV019213.D (-977) (-)

Ion 49.00 (48.70 to 49.70): VV019213.D (-977) (-)

Ion 130.00 (129.70 to 130.70): VV019213.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VV019213.D (-977) (-)

40000

30000

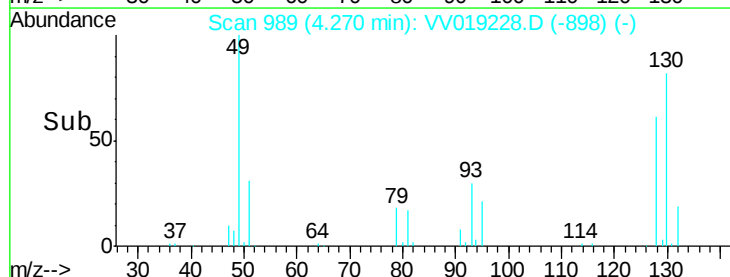
20000

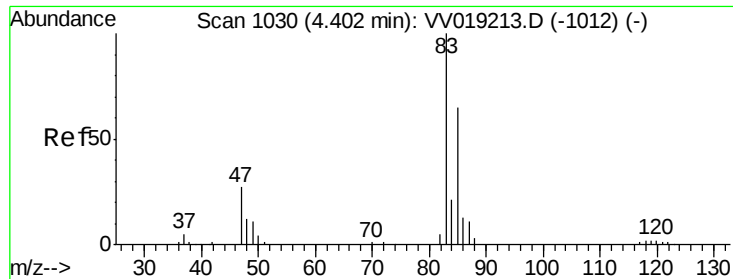
10000

0

Time-->

4.20 4.25 4.30 4.35

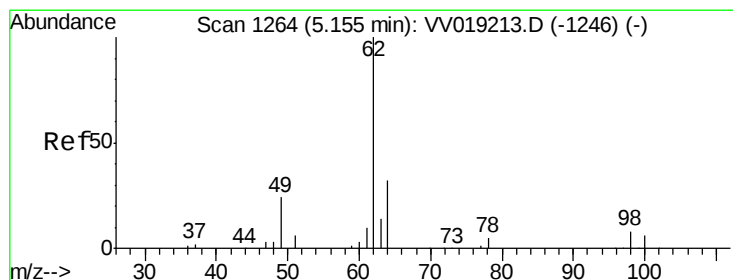
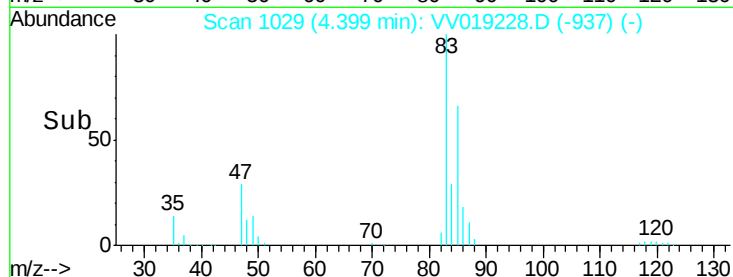
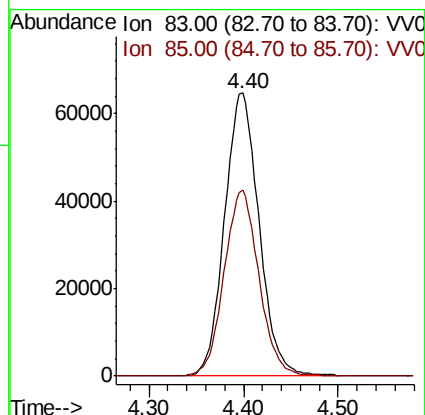
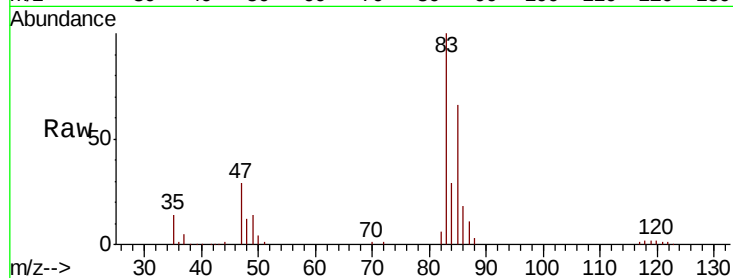




#25
Chloroform
Concen: 49.417 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

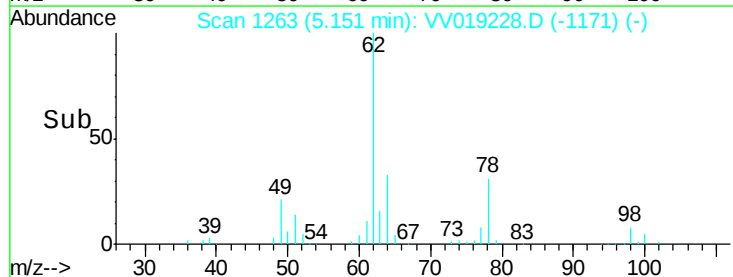
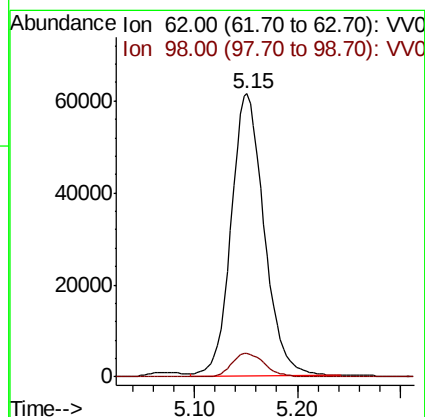
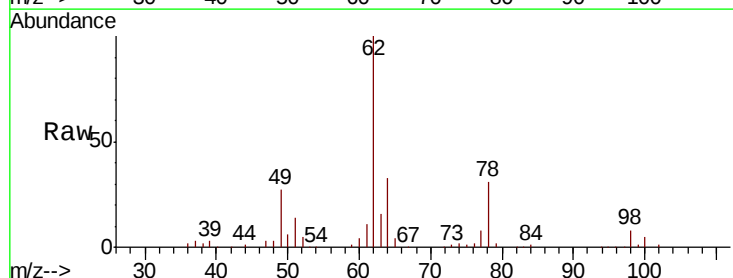
Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

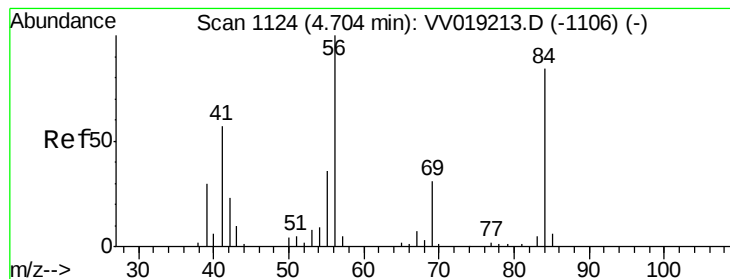
Tot Ion: 83 Resp: 164023
Ion Ratio Lower Upper
83 100
85 65.6 45.4 84.4



#27
1,2-Dichloroethane
Concen: 48.512 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion: 62 Resp: 136872
Ion Ratio Lower Upper
62 100
98 8.1 6.8 10.2





#29

Cyclohexane

Concen: 57.104 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

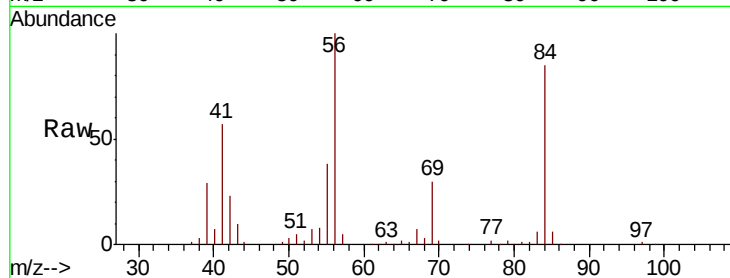
Tot Ion: 56 Resp: 129205

Ion Ratio Lower Upper

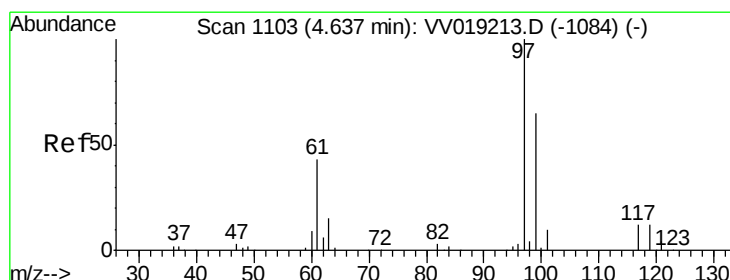
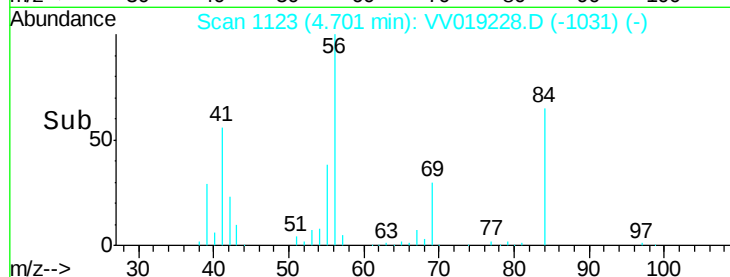
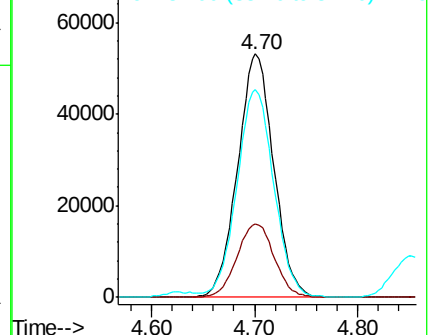
56 100

69 31.1 24.6 36.8

84 87.4 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: 50.643 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

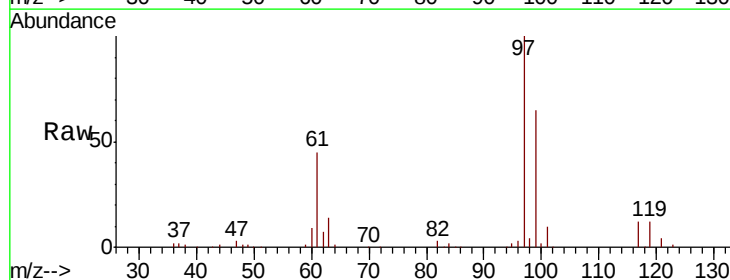
Tgt Ion: 97 Resp: 155291

Ion Ratio Lower Upper

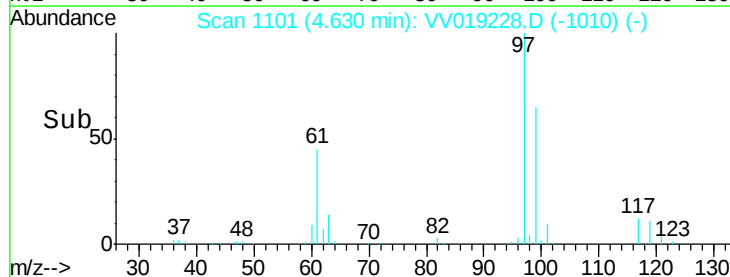
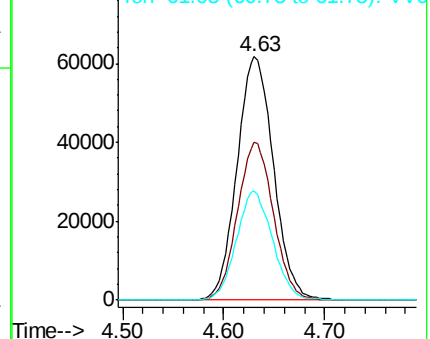
97 100

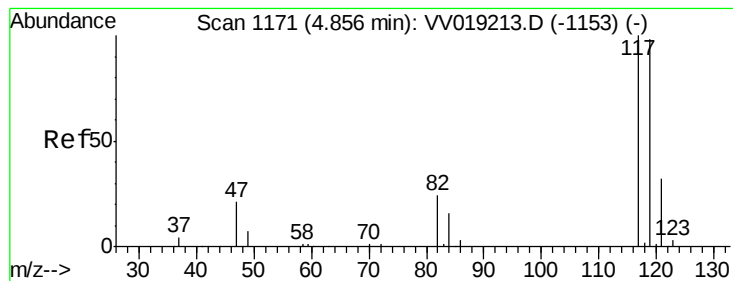
99 63.6 52.0 78.0

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: 51.914 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

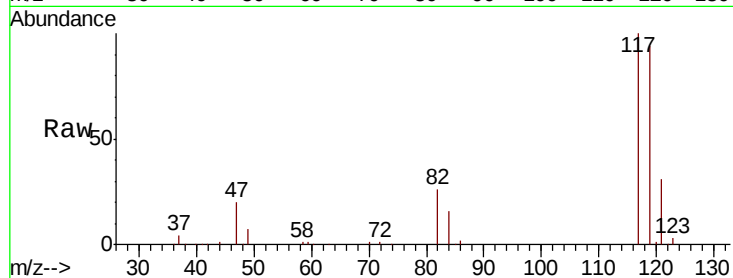
VSTD050311

Tot Ion:117 Resp: 137450

Ion Ratio Lower Upper

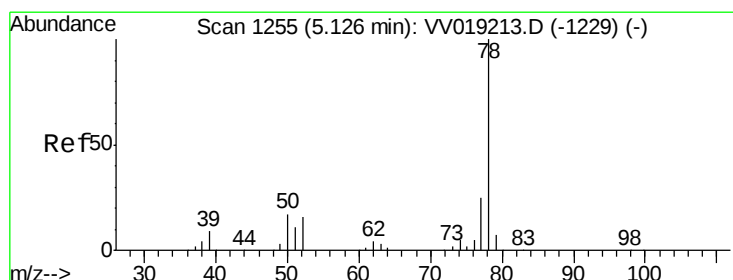
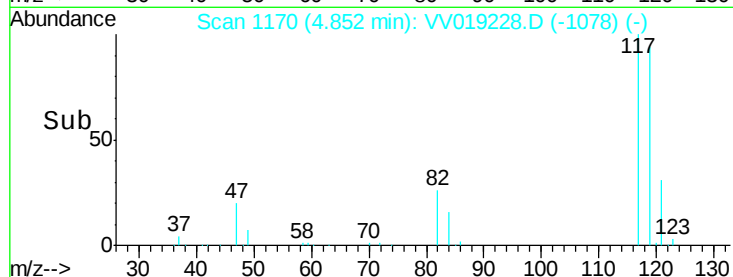
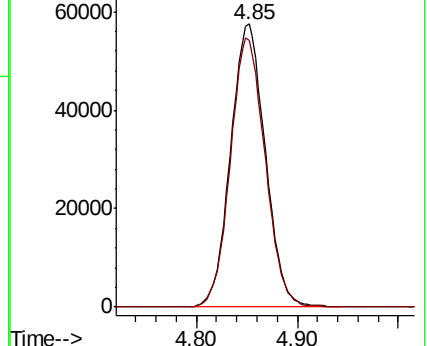
117 100

119 95.1 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: 50.253 ug/L

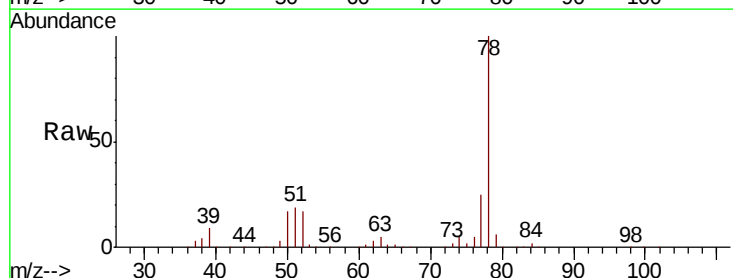
RT: 5.12 min Scan# 1253

Delta R.T. -0.01 min

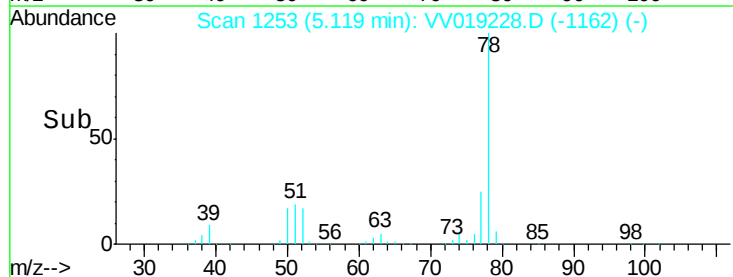
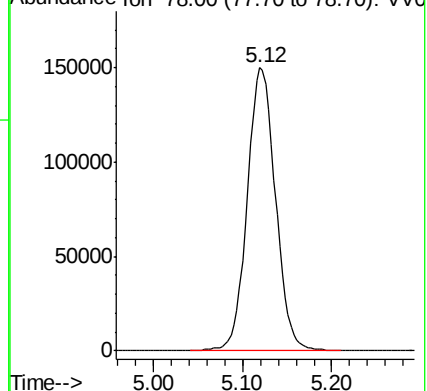
Lab File: VV019228.D

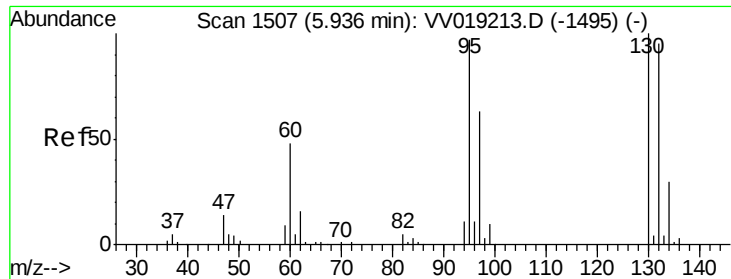
Acq: 03 Nov 2020 11:01

Tgt Ion: 78 Resp: 330201



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 50.562 ug/L

RT: 5.93 min Scan# 1506

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampled :

VSTD050311

Tot Ion: 95 Resp: 90285

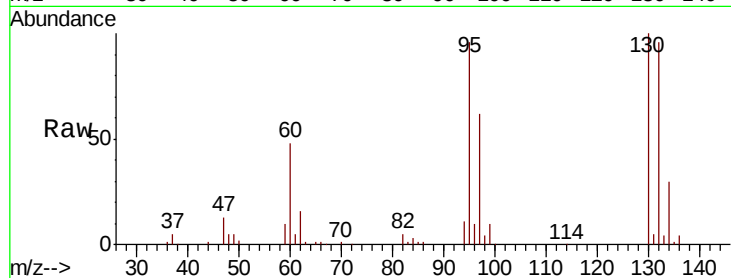
Ion Ratio Lower Upper

95 100

97 64.4 45.4 84.4

132 100.5 68.5 127.3

130 104.3 72.0 133.6

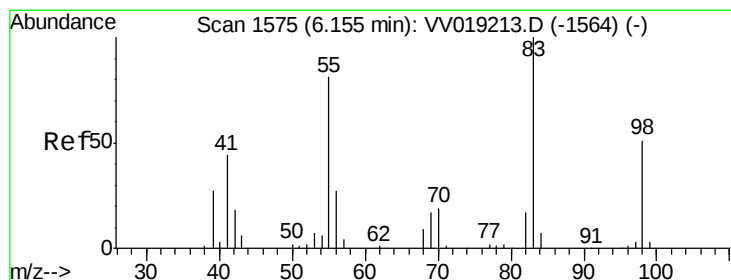
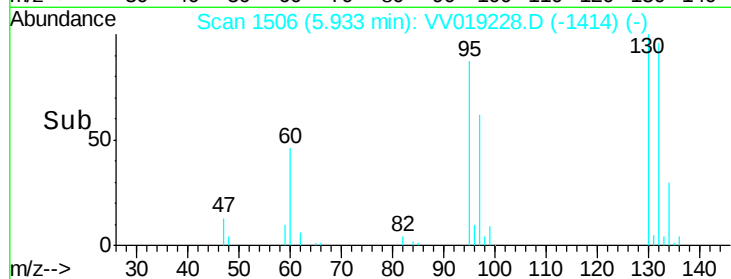
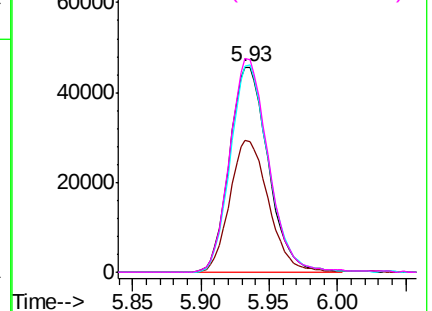


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 56.839 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

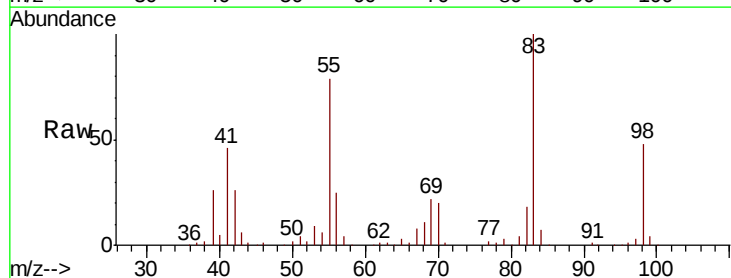
Tgt Ion: 83 Resp: 122847

Ion Ratio Lower Upper

83 100

55 79.1 62.8 94.2

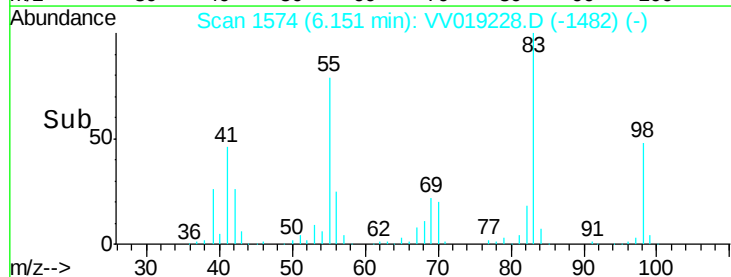
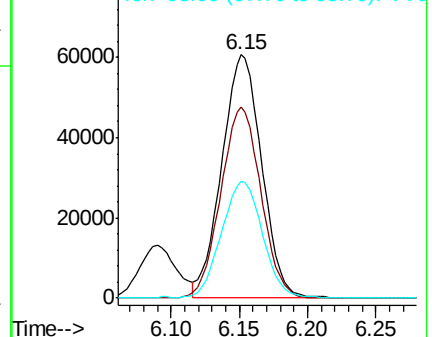
98 49.2 38.6 58.0

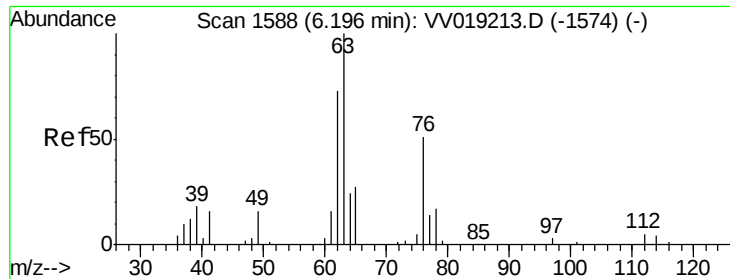


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

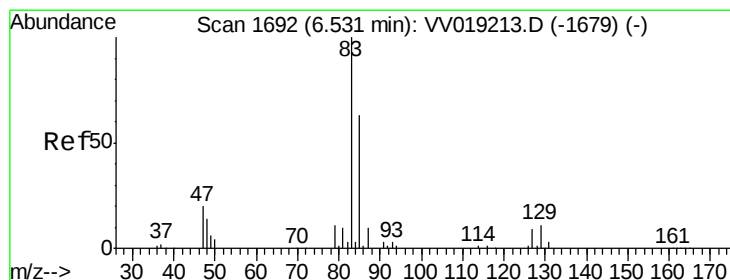
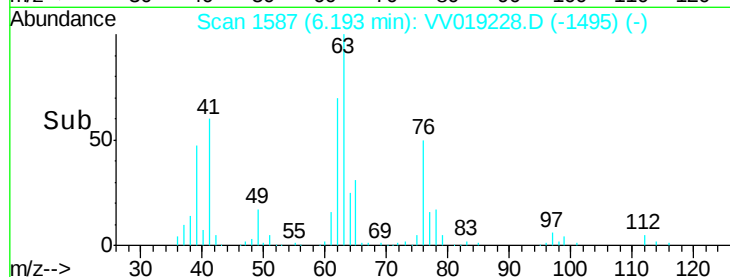
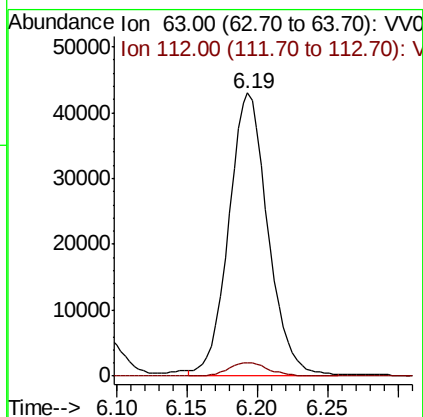
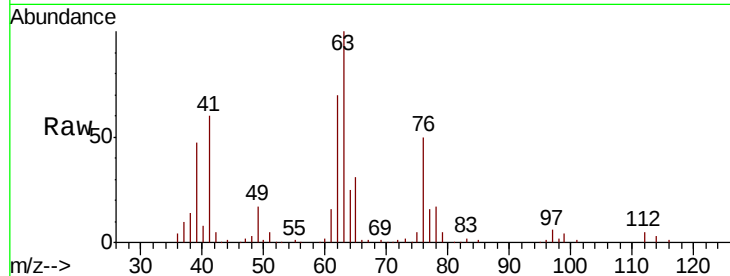




#37
 1,2-Dichloropropane
 Concen: 47.444 ug/L
 RT: 6.19 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

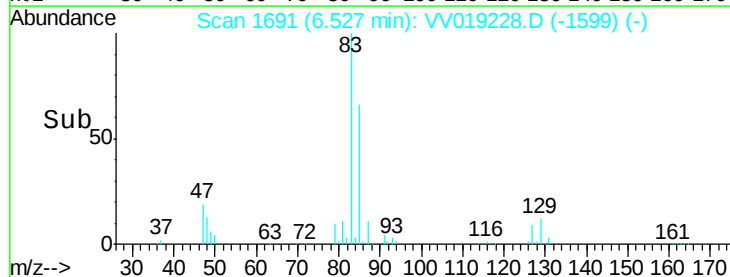
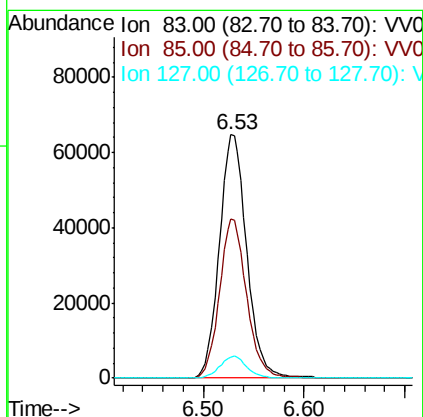
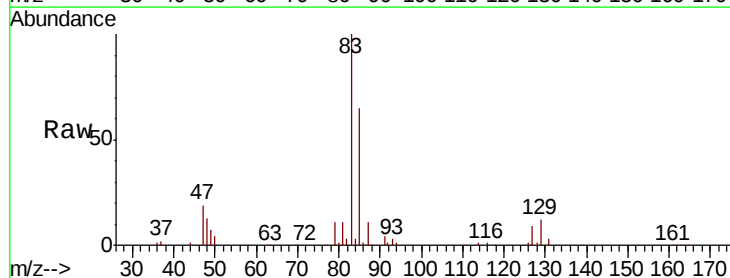
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

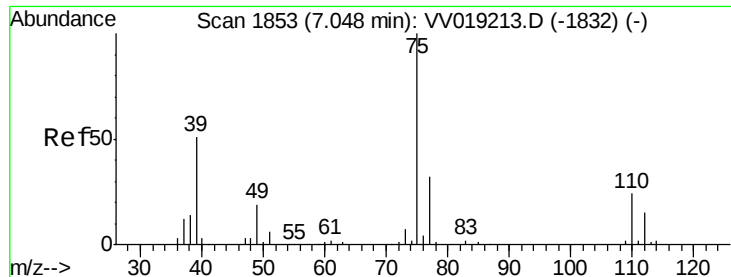
Tot Ion: 63 Resp: 83198
 Ion Ratio Lower Upper
 63 100
 112 4.9 4.2 6.2



#38
 Bromodichloromethane
 Concen: 48.526 ug/L
 RT: 6.53 min Scan# 1691
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion: 83 Resp: 122463
 Ion Ratio Lower Upper
 83 100
 85 65.5 44.0 81.8
 127 8.8 7.3 10.9

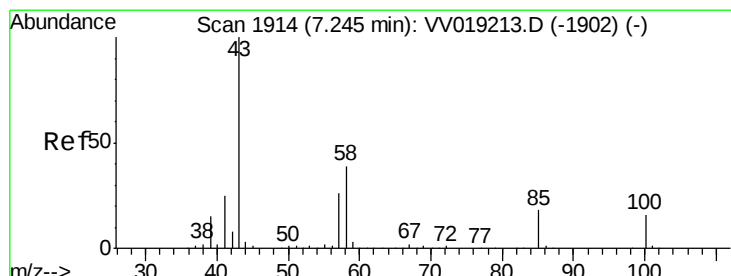
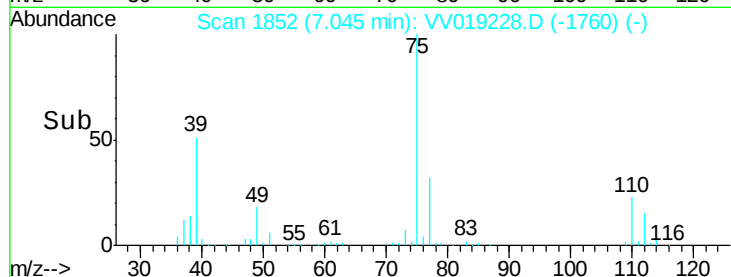
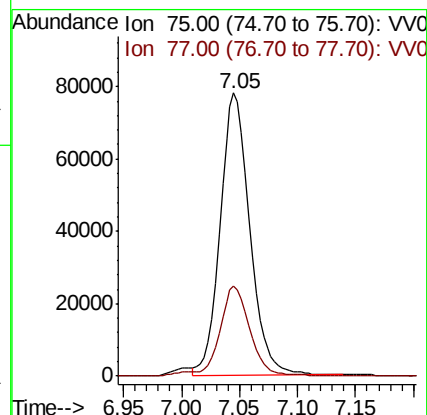
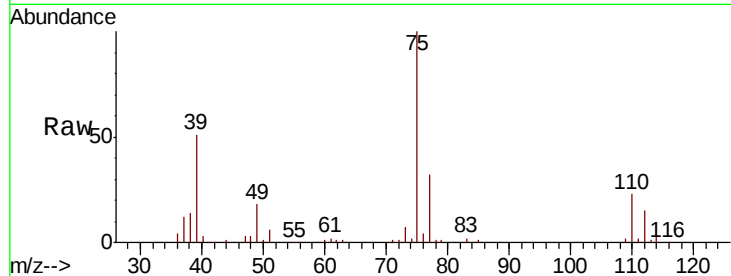




#39
 cis-1,3-Dichloropropene
 Concen: 49.714 ug/L
 RT: 7.05 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

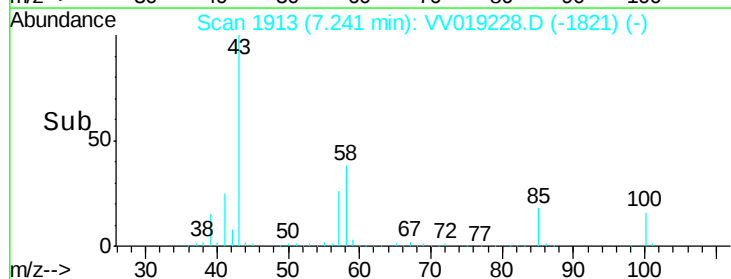
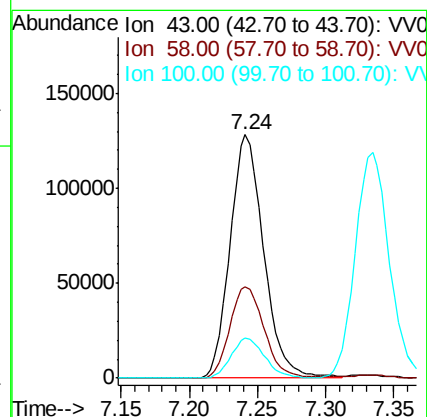
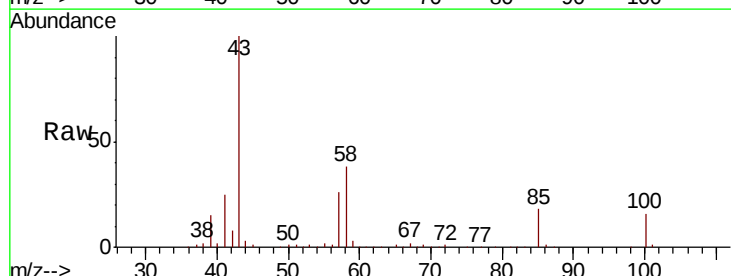
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

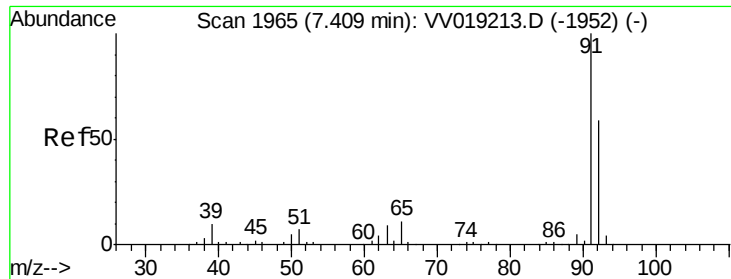
Tot Ion: 75 Resp: 139495
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 93.526 ug/L
 RT: 7.24 min Scan# 1913
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion: 43 Resp: 220327
 Ion Ratio Lower Upper
 43 100
 58 38.1 30.5 45.7
 100 16.4 12.7 19.1





#42

Toluene

Concen: 51.325 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

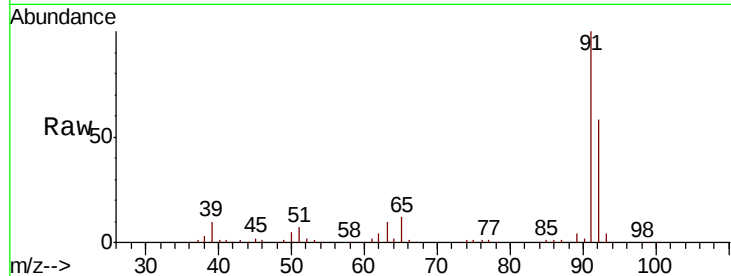
VSTD050311

Tot Ion: 91 Resp: 364530

Ion Ratio Lower Upper

91 100

92 57.9 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

250000

200000

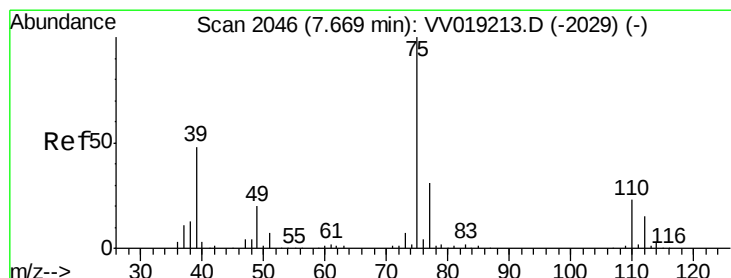
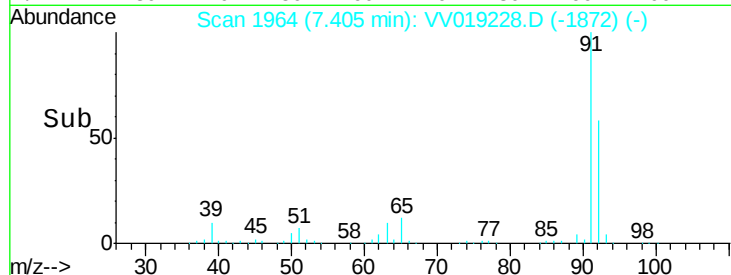
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#44

trans-1,3-Dichloropropene

Concen: 50.560 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV019228.D

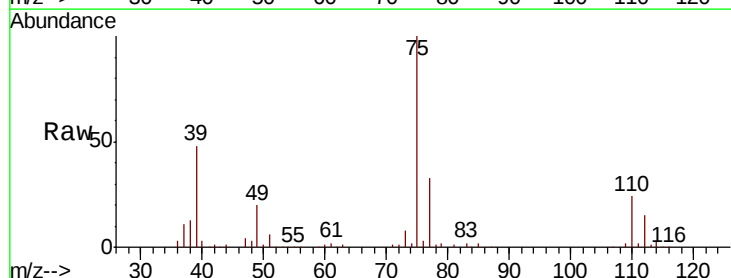
Acq: 03 Nov 2020 11:01

Tgt Ion: 75 Resp: 145375

Ion Ratio Lower Upper

75 100

77 33.1 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

80000

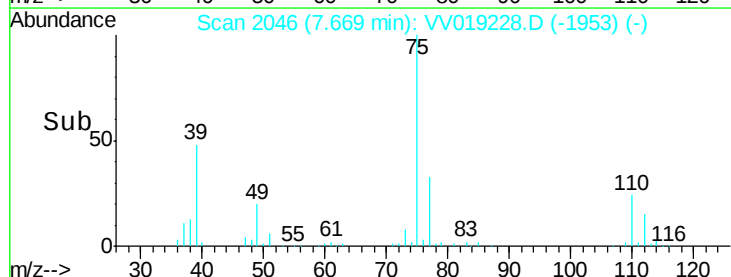
60000

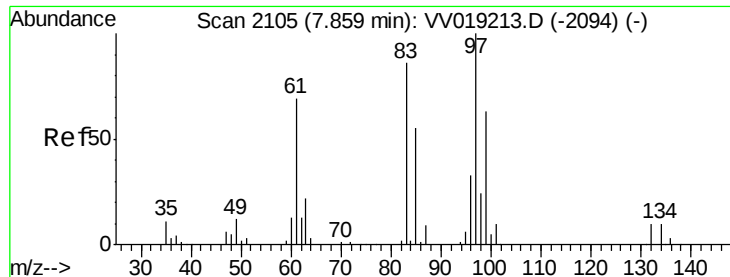
40000

20000

0

Time--> 7.60 7.70 7.80

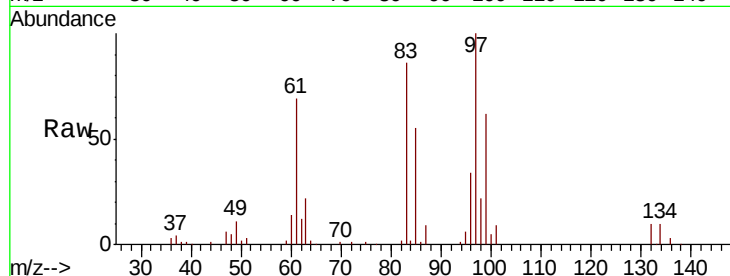




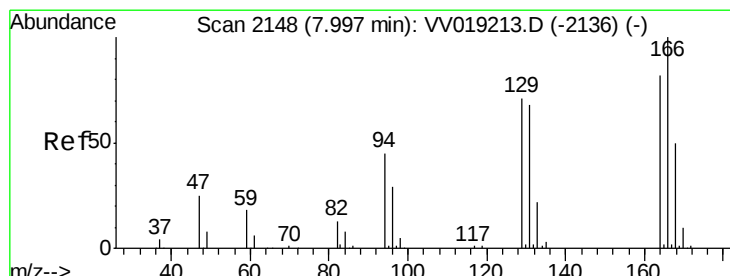
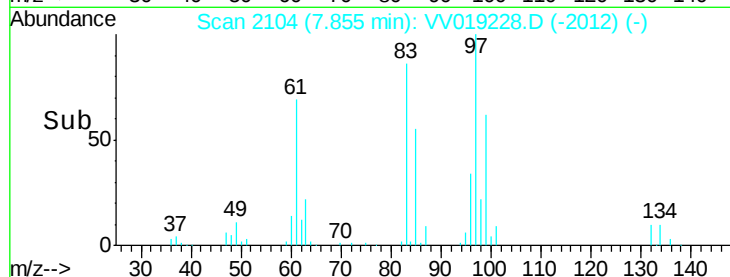
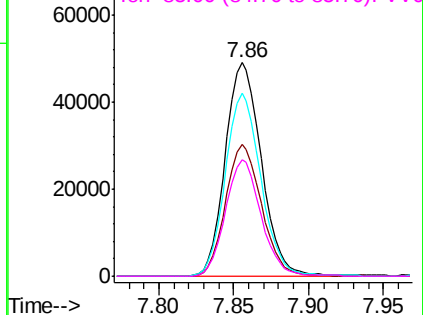
#45
 1,1,2-Trichloroethane
 Concen: 47.646 ug/L
 RT: 7.86 min Scan# 2104
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

Tot Ion:	97	Resp:	82582
Ion	Ratio	Lower	Upper
97	100		
99	61.7	45.1	83.9
83	85.5	57.6	107.0
85	54.5	37.8	70.2

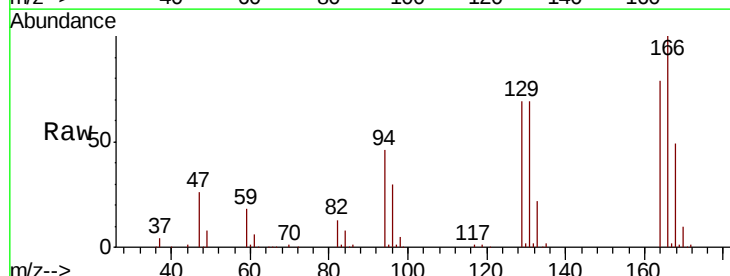


Abundance Ion 97.00 (96.70 to 97.70): VV019228.D (-2012) (-)

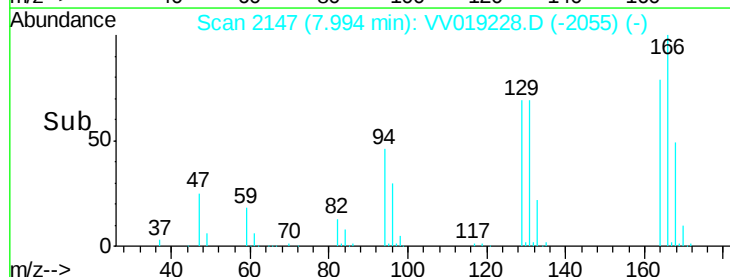
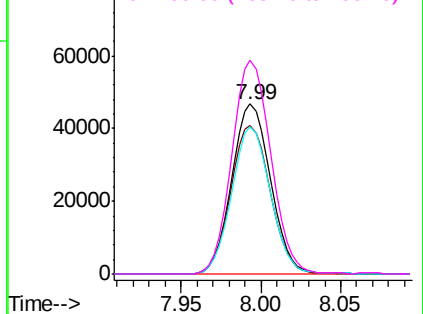


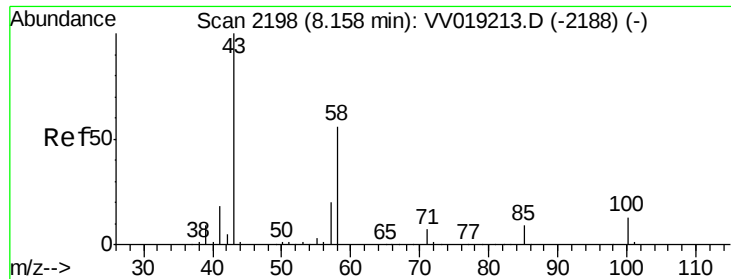
#46
 Tetrachloroethene
 Concen: 53.046 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion:	164	Resp:	77287
Ion	Ratio	Lower	Upper
164	100		
129	87.3	62.6	116.3
131	86.9	59.0	109.6
166	125.8	88.0	163.4



Abundance Ion 164.00 (163.70 to 164.70): VV019228.D (-2055) (-)

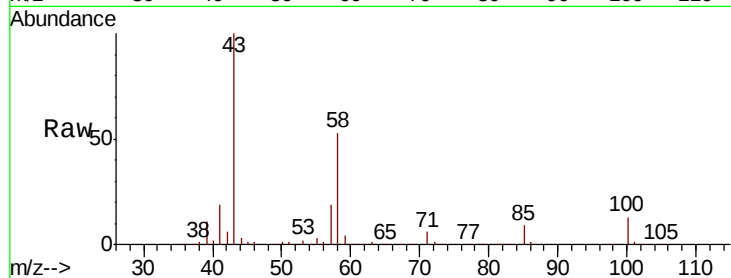




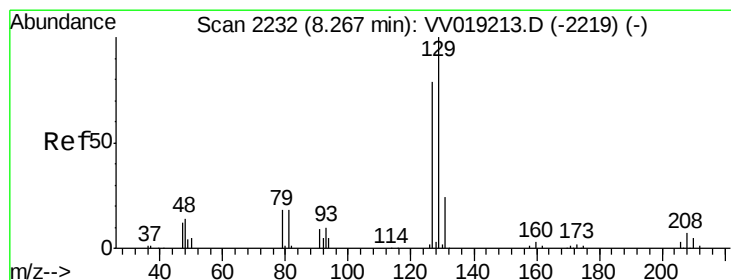
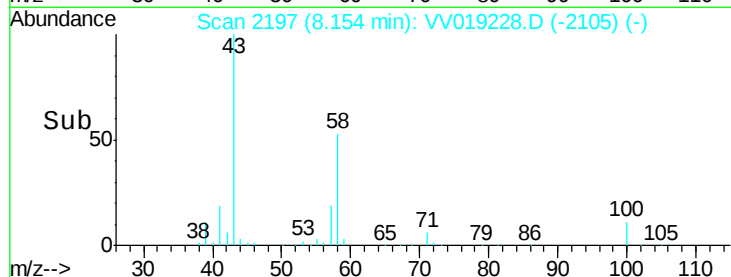
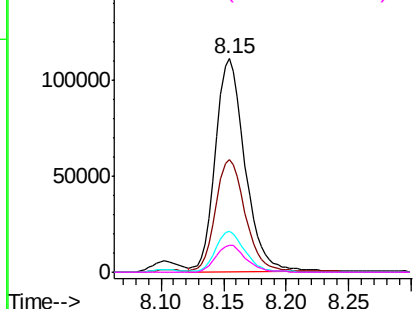
#48
2-Hexanone
Concen: 102.063 ug/L
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

Tot Ion: 43 Resp: 181778
Ion Ratio Lower Upper
43 100
58 53.2 42.6 63.8
57 18.9 15.8 23.8
100 13.1 10.4 15.6

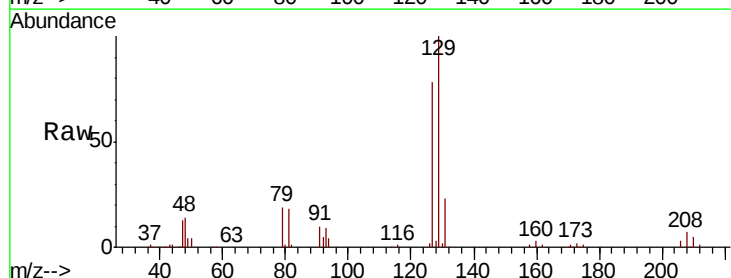


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

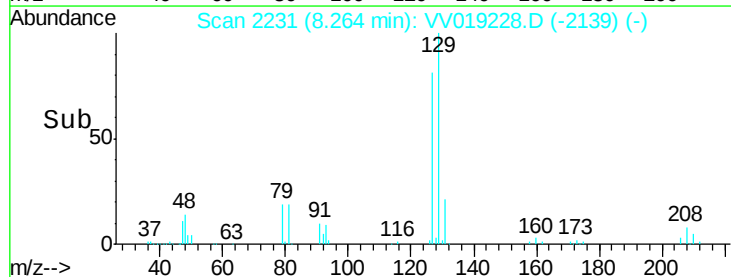
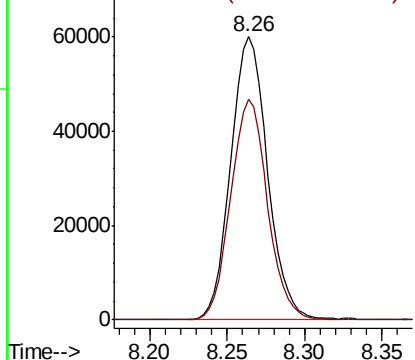


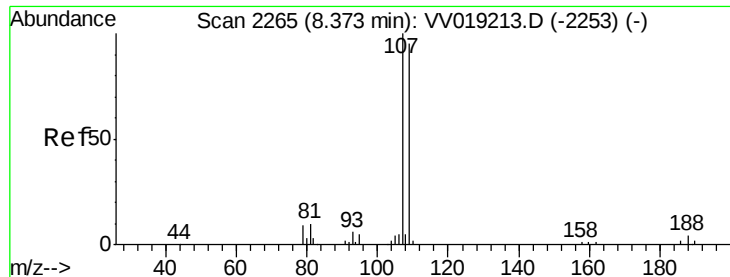
#49
Dibromochloromethane
Concen: 47.962 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion: 129 Resp: 99141
Ion Ratio Lower Upper
129 100
127 77.8 54.4 101.0



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

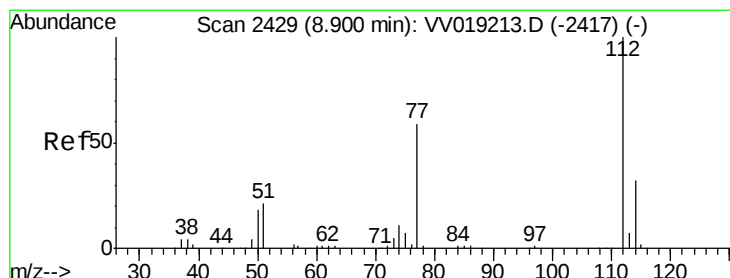
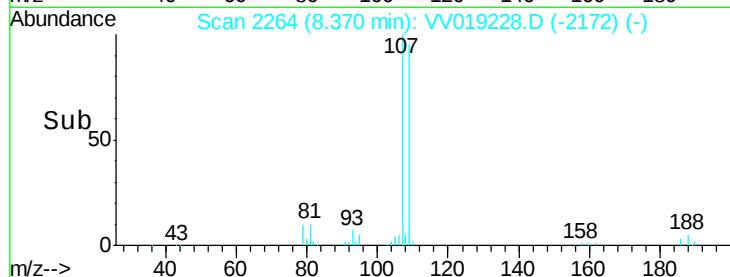
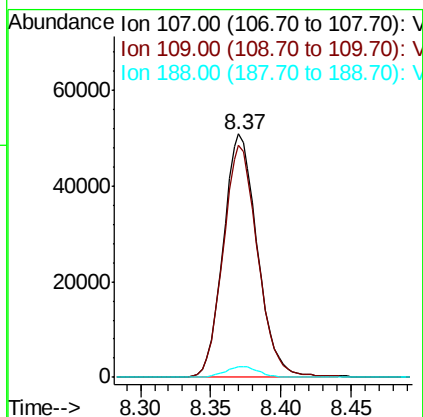
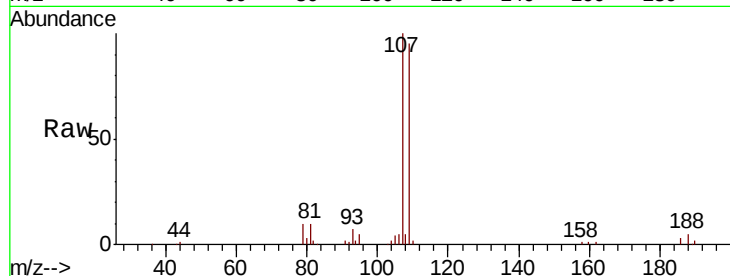




#50
1,2-Dibromoethane
Concen: 47.936 ug/L
RT: 8.37 min Scan# 2264
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

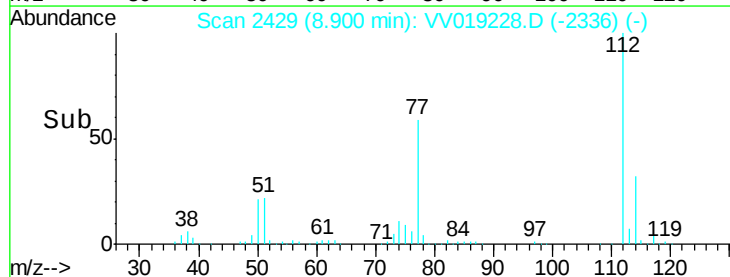
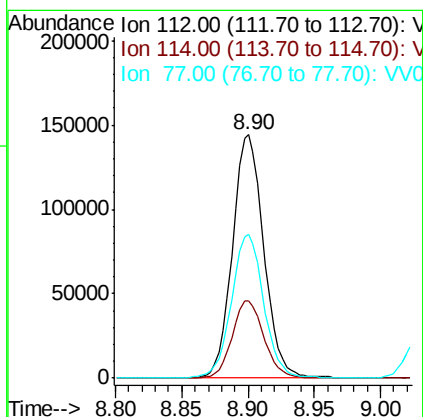
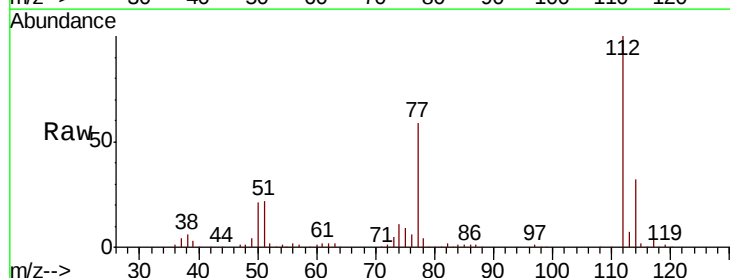
Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

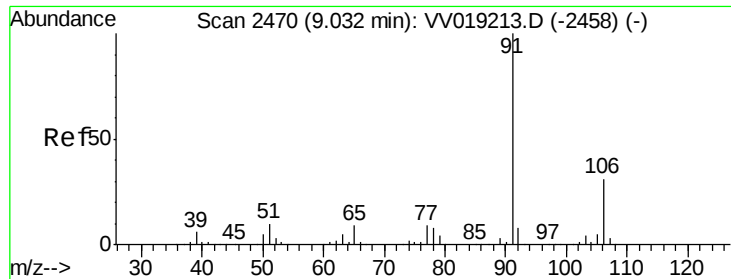
Tot Ion:107 Resp: 86121
Ion Ratio Lower Upper
107 100
109 95.4 64.8 120.4
188 4.6 3.8 5.8



#51
Chlorobenzene
Concen: 49.829 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion:112 Resp: 236730
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.1
77 59.1 47.3 70.9





#52

Ethylbenzene

Concen: 52.437 ug/L

RT: 9.03 min Scan# 2469

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

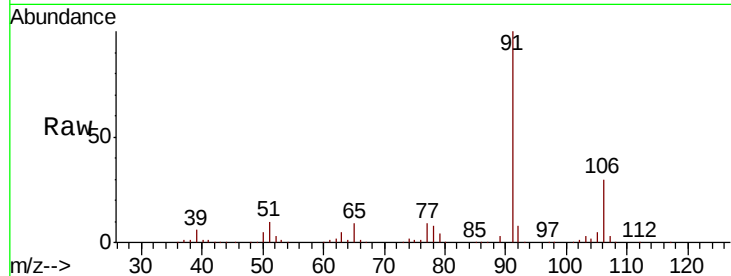
VSTD050311

Tot Ion: 91 Resp: 410896

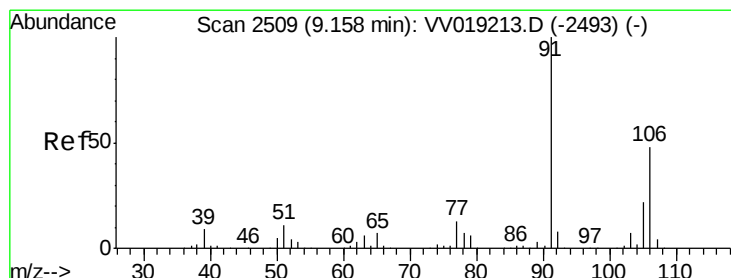
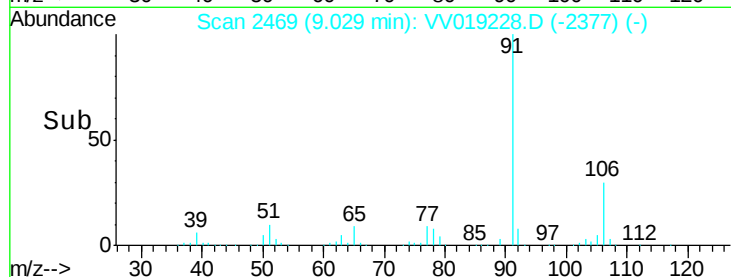
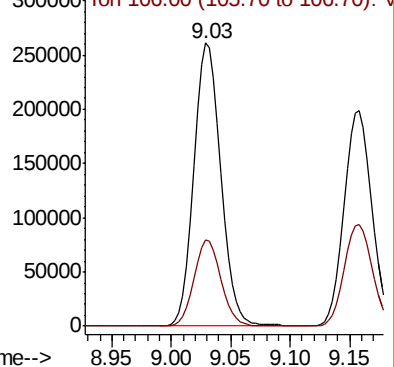
Ion Ratio Lower Upper

91 100

106 30.4 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019228.D (-2377) (-)



#53

m,p-Xylene

Concen: 52.802 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV019228.D

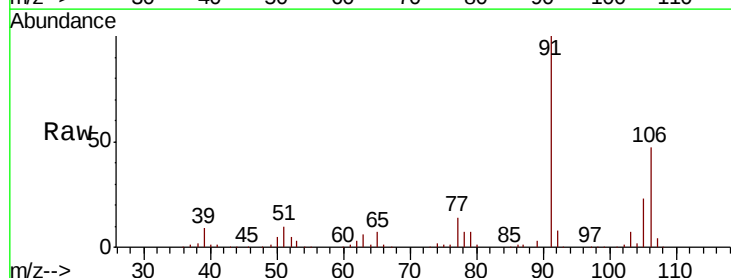
Acq: 03 Nov 2020 11:01

Tgt Ion: 106 Resp: 154900

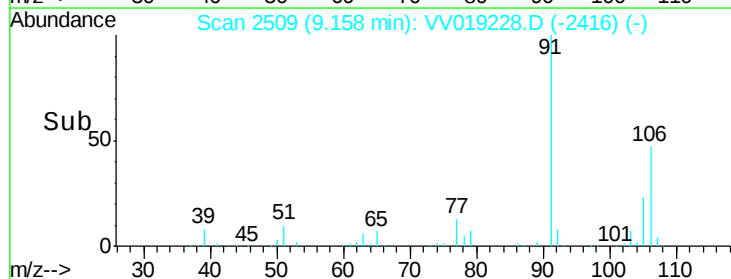
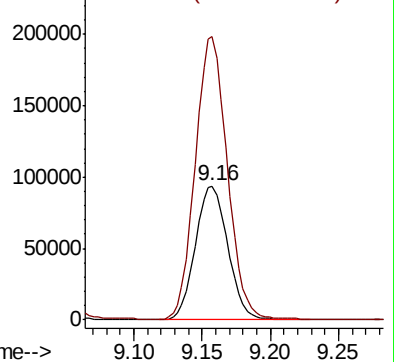
Ion Ratio Lower Upper

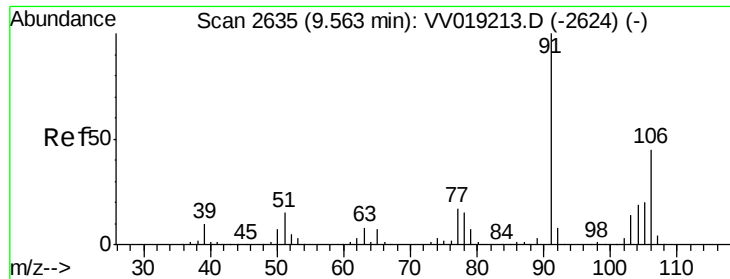
106 100

91 211.7 147.2 273.4



Abundance Ion 106.00 (105.70 to 106.70): VV019228.D (-2416) (-)

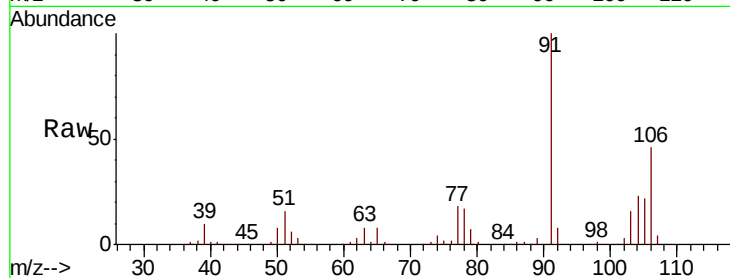




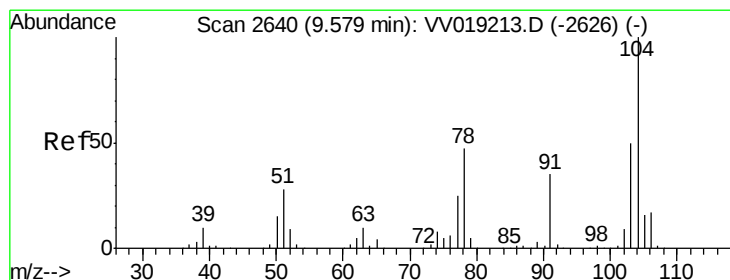
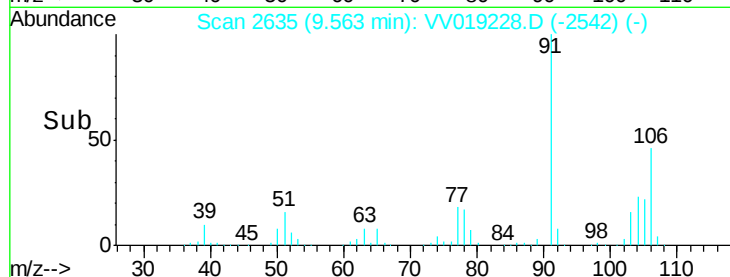
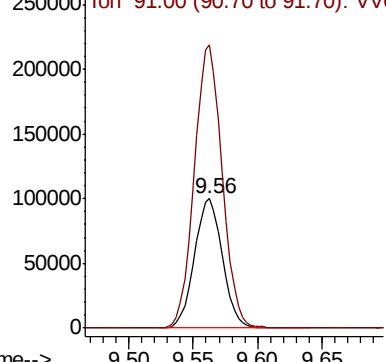
#54
o-Xylene
Concen: 52.017 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

Tot Ion:106 Resp: 150416
Ion Ratio Lower Upper
106 100
91 219.1 151.6 281.6

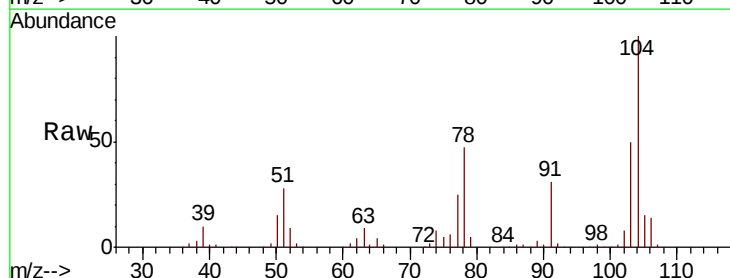


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

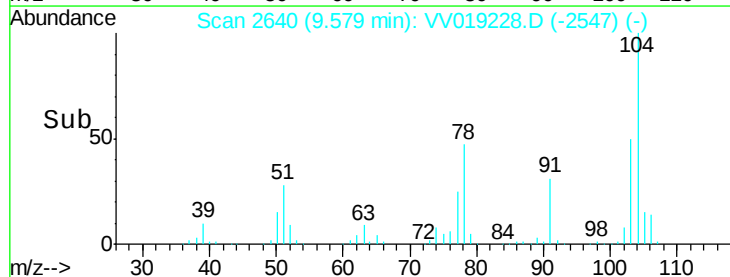
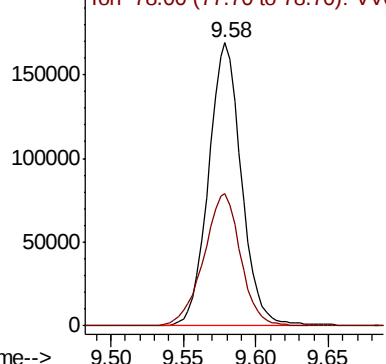


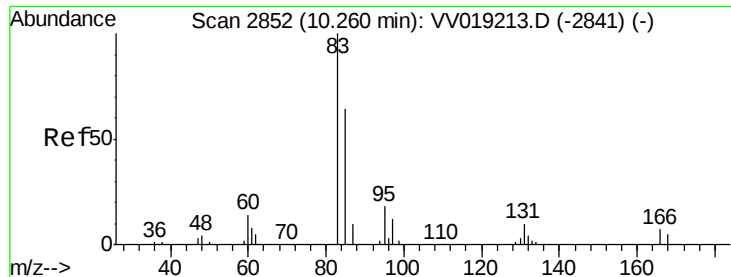
#55
Styrene
Concen: 51.759 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion:104 Resp: 266417
Ion Ratio Lower Upper
104 100
78 46.6 32.6 60.5



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

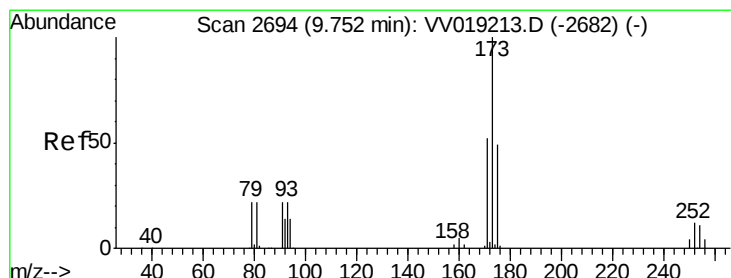
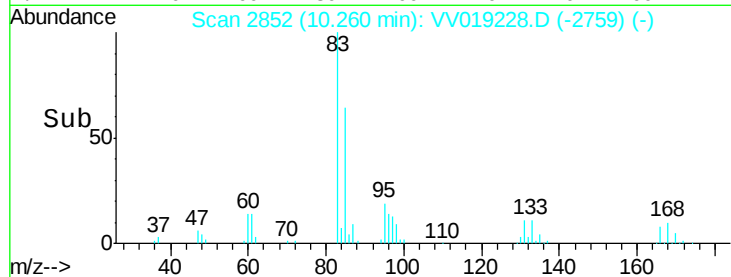
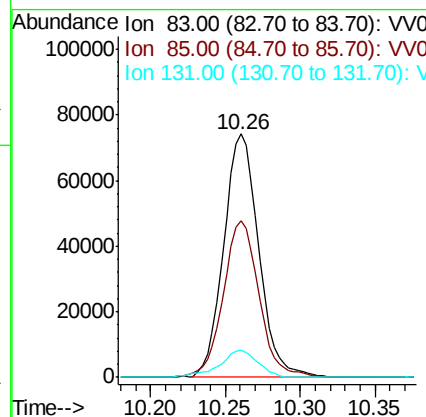
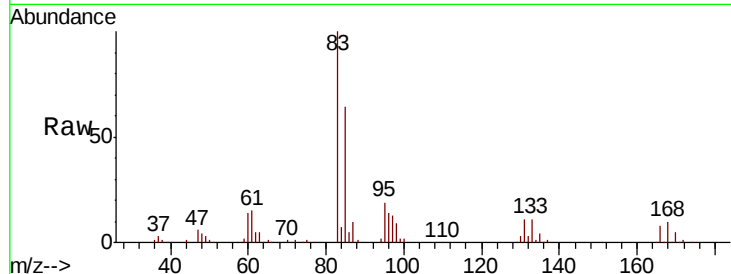




#57
 1,1,2,2-Tetrachloroethane
 Concen: 46.208 ug/L
 RT: 10.26 min Scan# 2852
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

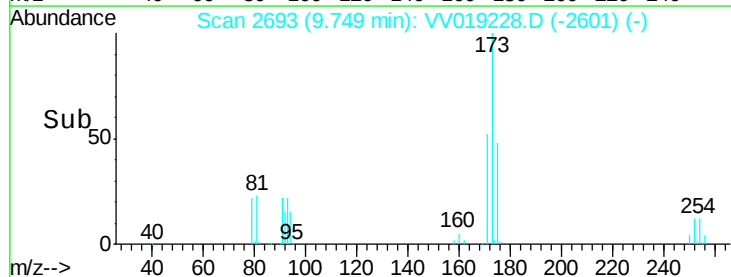
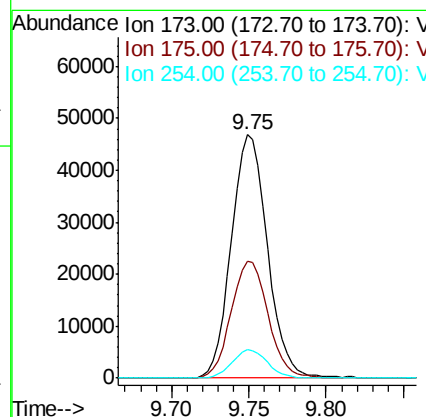
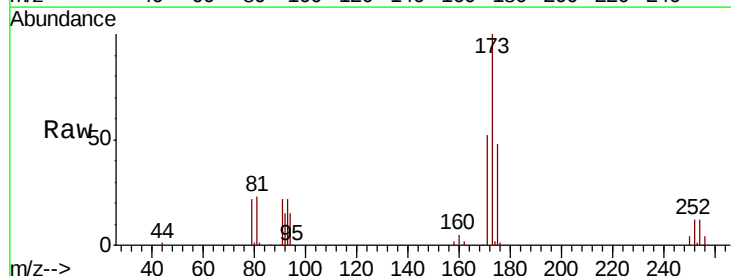
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

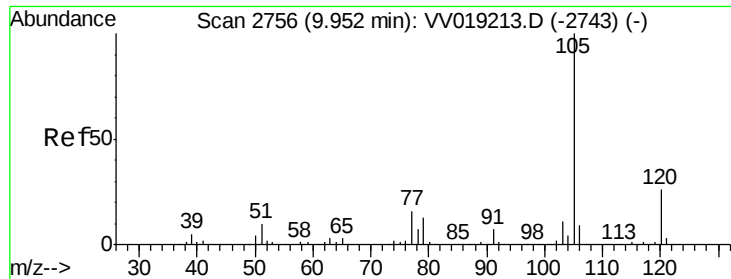
Tot Ion	83	Resp	121168
Ion Ratio	Lower	Upper	
83	100		
85	64.1	45.0	83.6
131	11.1	8.9	13.3



#59
 Bromoform
 Concen: 46.095 ug/L
 RT: 9.75 min Scan# 2693
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion	173	Resp	75782
Ion Ratio	Lower	Upper	
173	100		
175	49.2	38.4	57.6
254	11.3	9.0	13.6





#60

Isopropylbenzene

Concen: 53.112 ug/L

RT: 9.95 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

VSTD050311

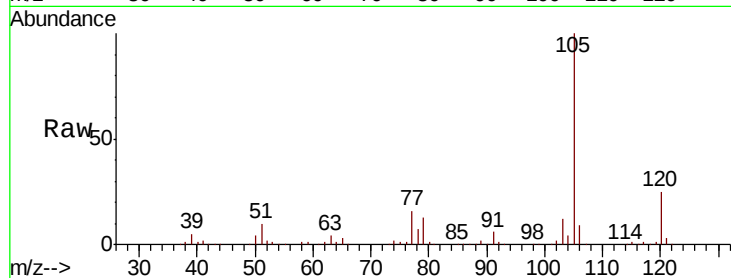
Tot Ion:105 Resp: 412340

Ion Ratio Lower Upper

105 100

120 25.7 21.0 31.4

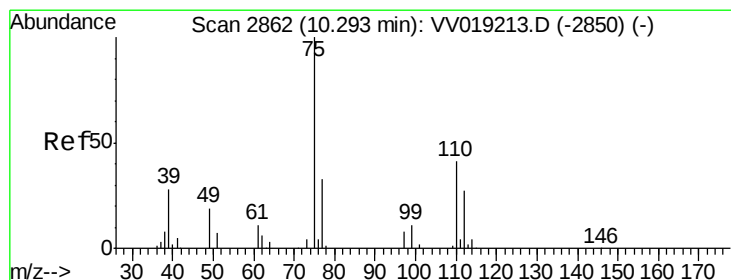
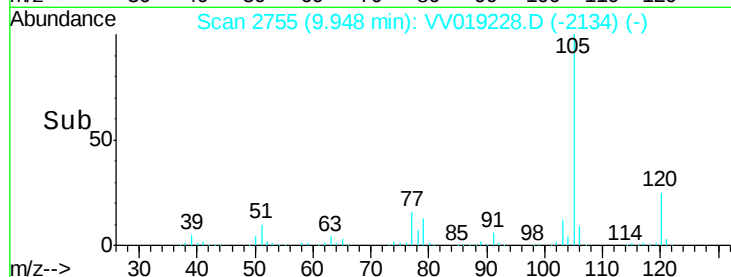
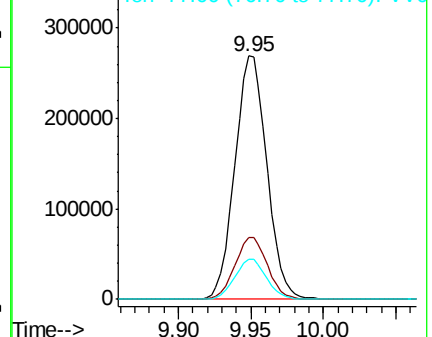
77 16.4 13.0 19.6



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: 45.265 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

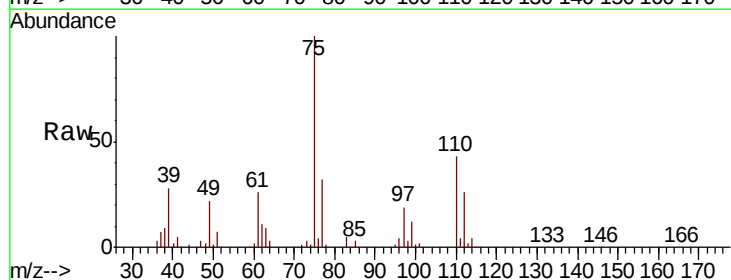
Tgt Ion: 75 Resp: 104169

Ion Ratio Lower Upper

75 100

77 31.6 24.8 37.2

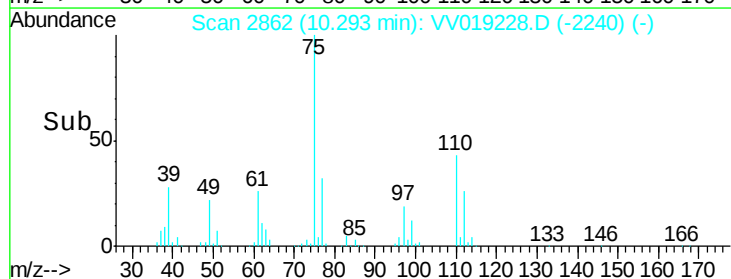
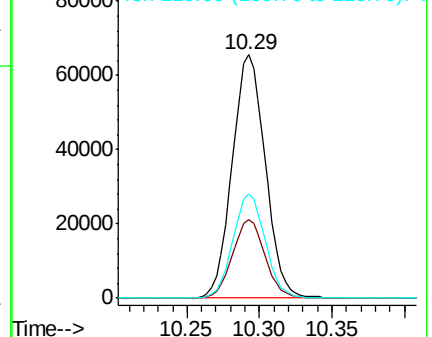
110 41.7 33.4 50.2

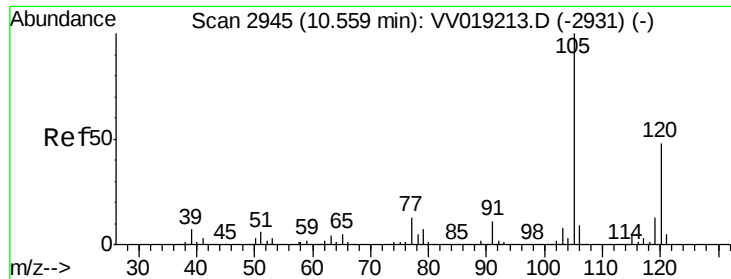


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 53.668 ug/L

RT: 10.56 min Scan# 2944

Delta R.T. -0.00 min

Lab File: VV019228.D

Acq: 03 Nov 2020 11:01

Instrument :

MSVOA_V

ClientSampleId :

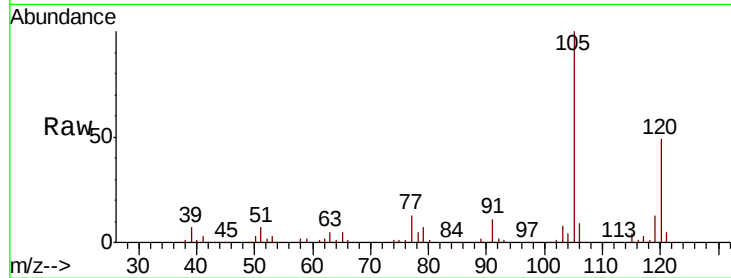
VSTD050311

Tot Ion:105 Resp: 347030

Ion Ratio Lower Upper

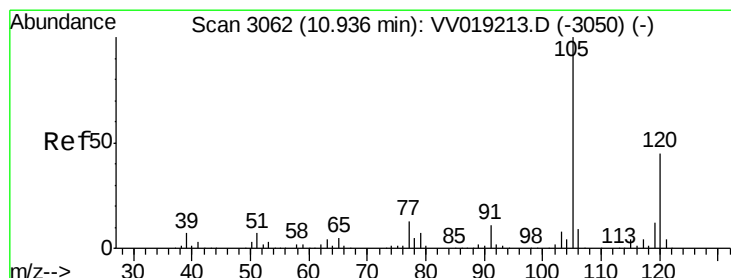
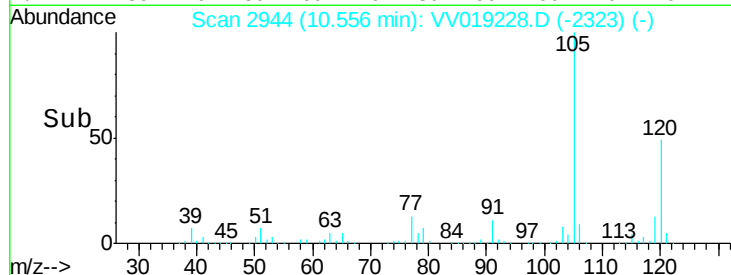
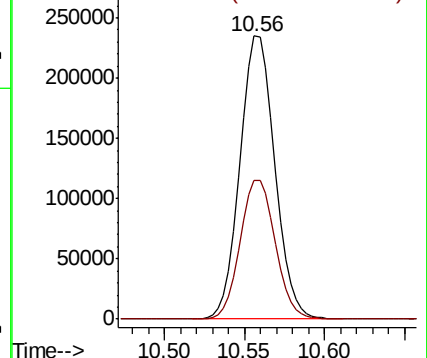
105 100

120 49.6 38.3 57.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 53.509 ug/L

RT: 10.93 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VV019228.D

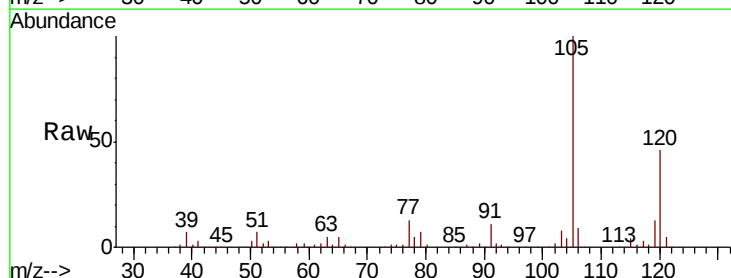
Acq: 03 Nov 2020 11:01

Tgt Ion:105 Resp: 338559

Ion Ratio Lower Upper

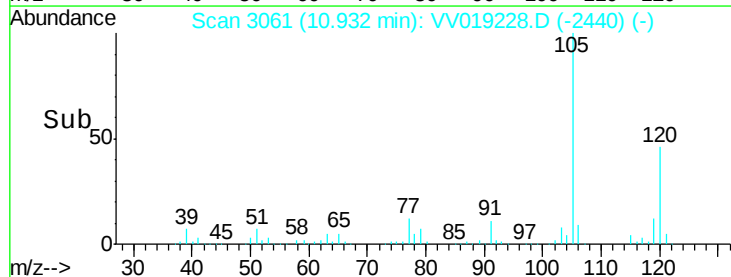
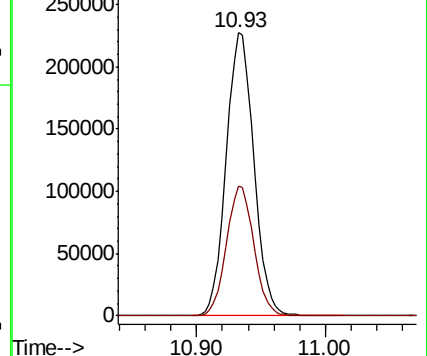
105 100

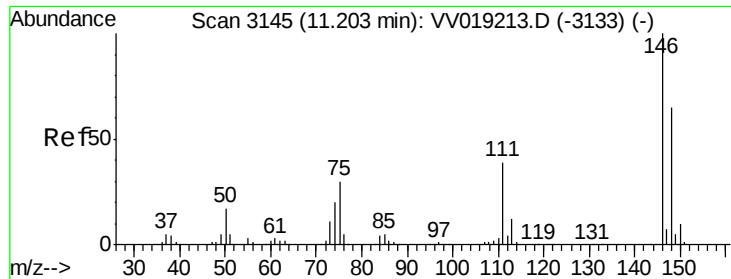
120 45.4 35.7 53.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

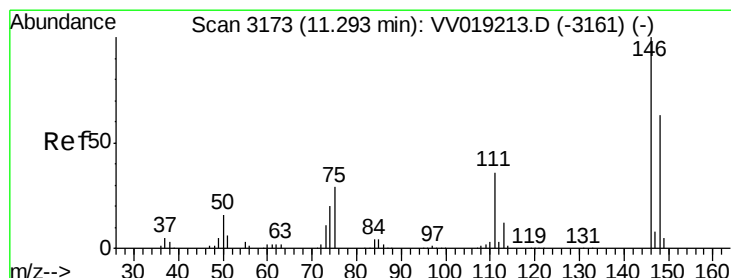
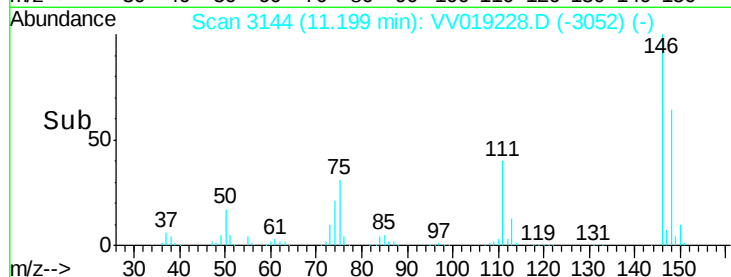
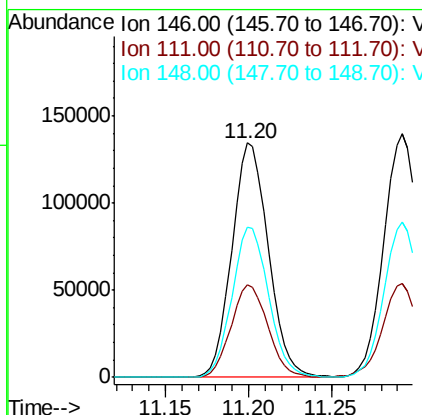
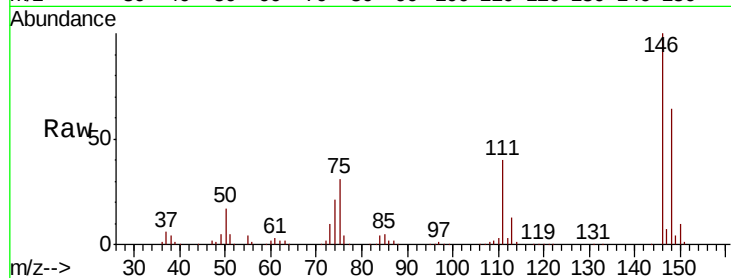




#64
 1,3-Dichlorobenzene
 Concen: 50.750 ug/L
 RT: 11.20 min Scan# 3144
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

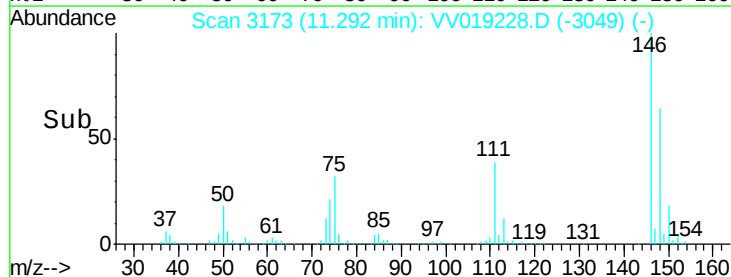
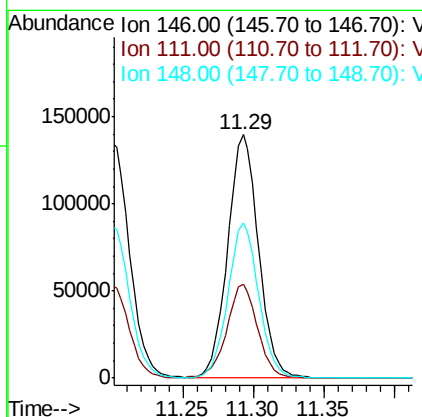
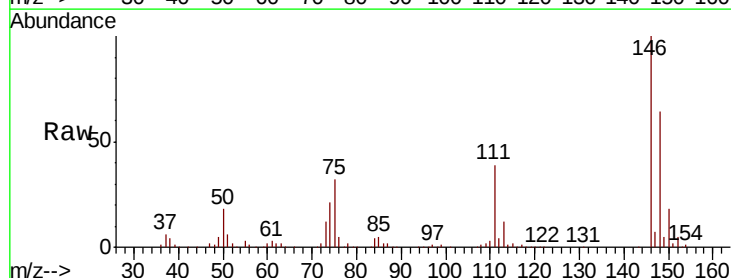
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

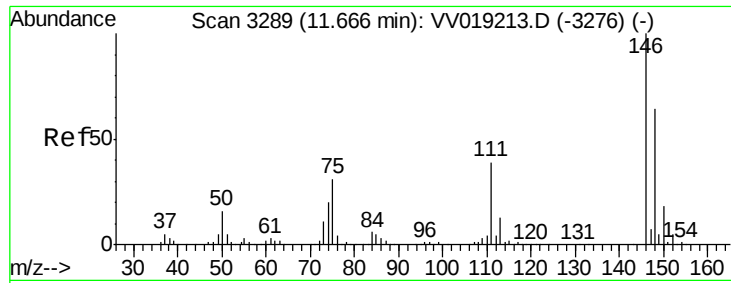
Tot Ion:146 Resp: 206093
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.3 50.7
 148 64.4 45.2 84.0



#65
 1,4-Dichlorobenzene
 Concen: 50.939 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion:146 Resp: 214013
 Ion Ratio Lower Upper
 146 100
 111 38.5 25.9 48.1
 148 63.8 44.9 83.5

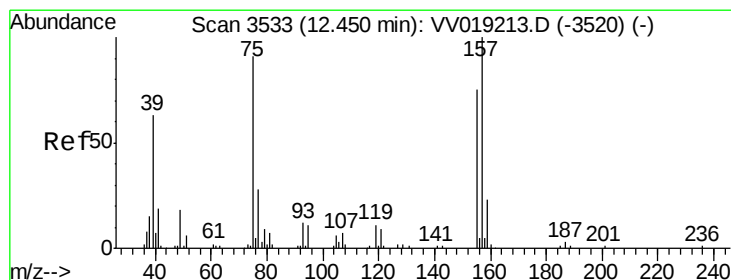
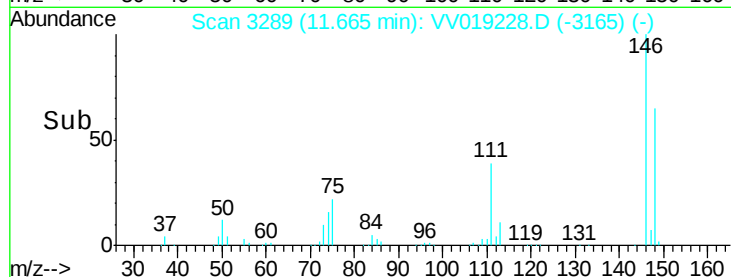
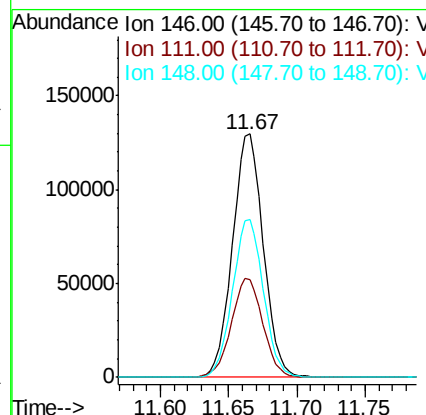
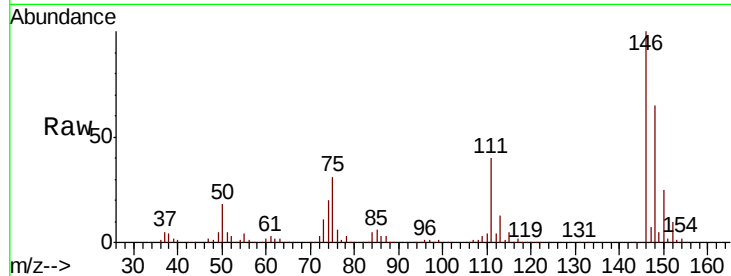




#67
 1,2-Dichlorobenzene
 Concen: 49.023 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

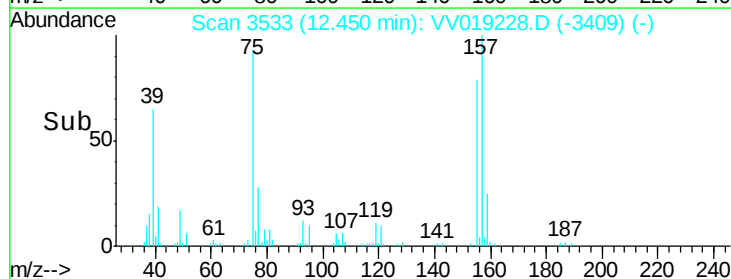
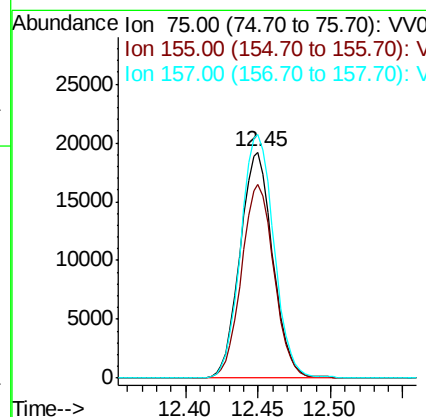
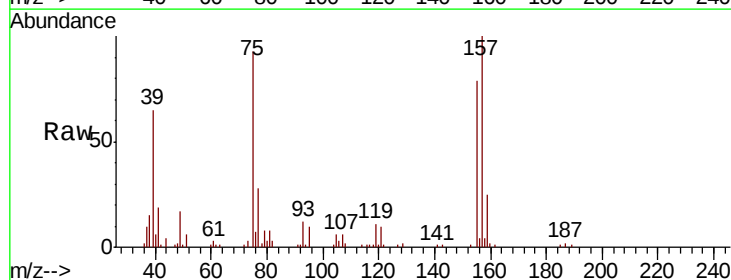
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

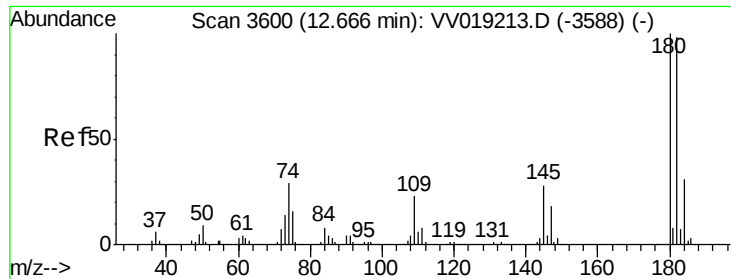
Tot Ion:146 Resp: 203669
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.6 48.8
 148 64.7 50.1 75.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 44.912 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion: 75 Resp: 30153
 Ion Ratio Lower Upper
 75 100
 155 85.7 65.8 98.6
 157 107.8 86.3 129.5

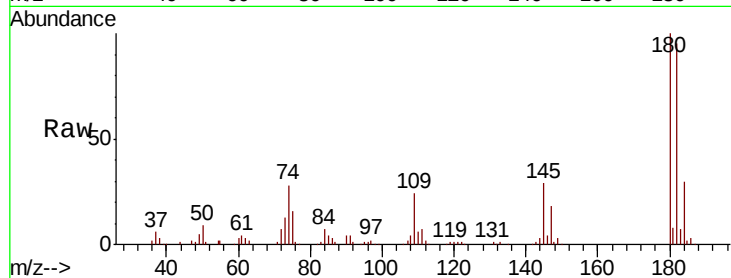




#69
 1,3,5-Trichlorobenzene
 Concen: 52.262 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD050311

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.7	116.5
184	30.8	24.9	37.3
145	28.7	23.4	35.0



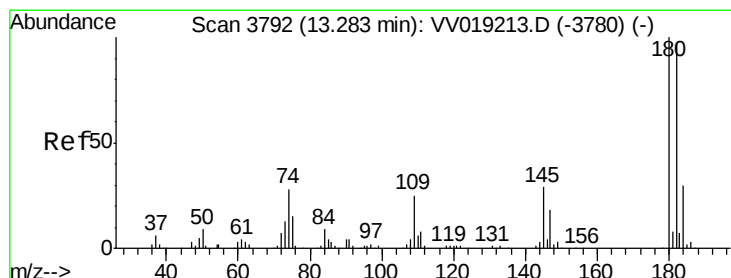
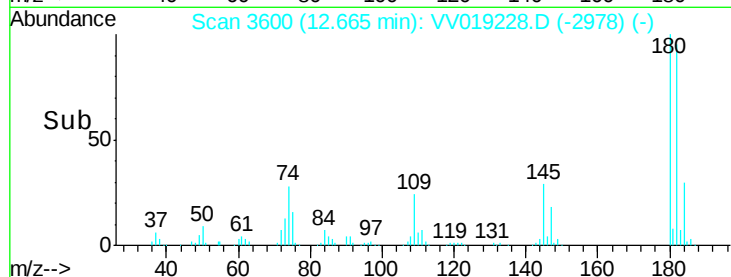
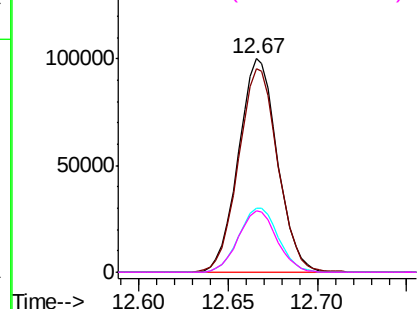
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

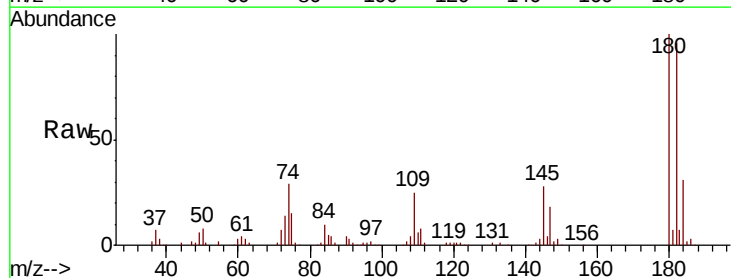
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 51.605 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV019228.D
 Acq: 03 Nov 2020 11:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
145	28.7	23.2	34.8

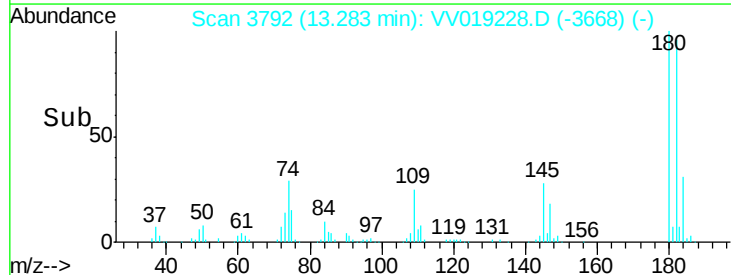
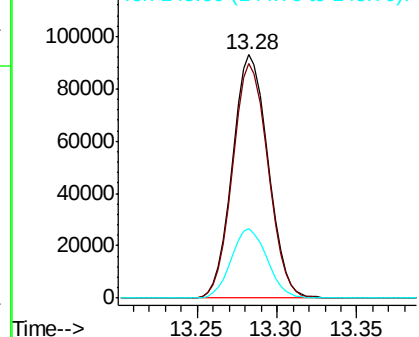


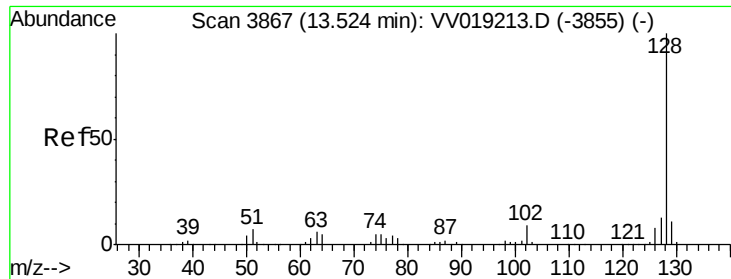
Abundance

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

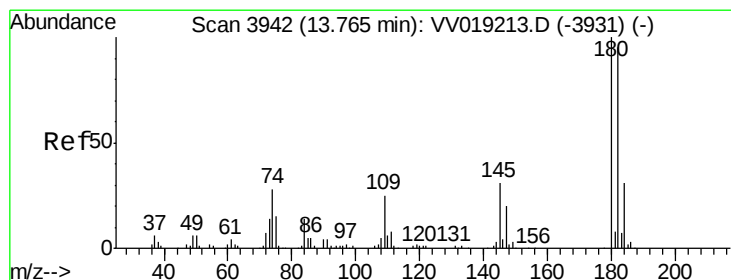
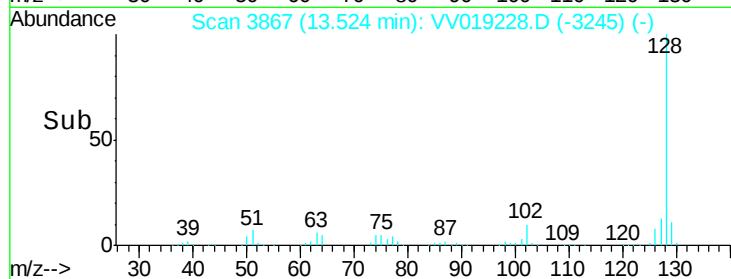
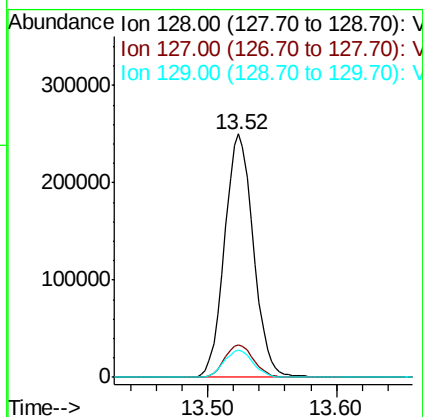
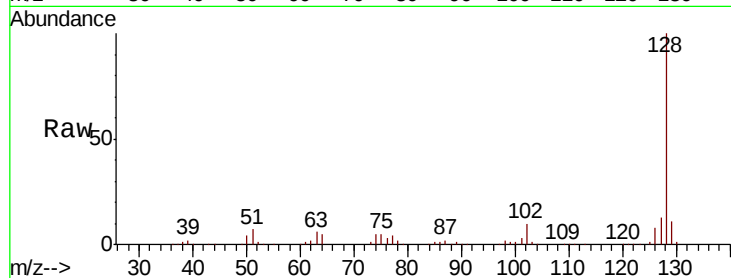




#71
Naphthalene
Concen: 50.033 ug/L
RT: 13.52 min Scan# 3867
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Instrument :
MSVOA_V
ClientSampleId :
VSTD050311

Tot Ion:128 Resp: 386993
Ion Ratio Lower Upper
128 100
127 13.5 10.7 16.1
129 11.2 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 51.373 ug/L
RT: 13.77 min Scan# 3942
Delta R.T. -0.00 min
Lab File: VV019228.D
Acq: 03 Nov 2020 11:01

Tgt Ion:180 Resp: 139668
Ion Ratio Lower Upper
180 100
182 93.7 77.4 116.0
145 30.6 24.7 37.1

