

Data File : VV009363.D
Acq On : 26 Feb 2019 11:27
Operator : SY/MD
Sample : VSTD05084
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Quant Time: Feb 26 12:06:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022619S.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 26 11:56:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	184528	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	179032	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	87369	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	101227	41.23	ug/L	0.00
7) Chloroethane-d5	1.57	69	125790	43.31	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	283329	46.94	ug/L	0.00
20) 2-Butanone-d5	3.94	46	78435	91.29	ug/L	0.00
24) Chloroform-d	4.40	84	212609	49.61	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	129393	55.69	ug/L	0.00
29) Benzene-d6	5.10	84	455308	50.71	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	135795	51.39	ug/L	0.00
37) Toluene-d8	7.36	98	453467	53.06	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	70619	52.04	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	67294	91.56	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	147809	51.16	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	165709	51.64	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	112344	52.161	ug/L	97
3) Chloromethane	1.25	50	117799	44.767	ug/L	99
5) Vinyl chloride	1.32	62	130745	43.816	ug/L	96
6) Bromomethane	1.53	94	126825	45.671	ug/L	99
8) Chloroethane	1.59	64	93722	37.210	ug/L	98
9) Trichlorofluoromethane	1.76	101	269626	47.995	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	148030	46.077	ug/L	97
12) 1,1-Dichloroethene	2.14	96	126115	46.582	ug/L	97
13) Acetone	2.20	43	90970	108.314	ug/L	99
14) Carbon disulfide	2.32	76	343786	47.454	ug/L	99
15) Methyl Acetate	2.46	43	63491	51.844	ug/L	95
16) Methylene chloride	2.54	84	110177	39.471	ug/L	95
17) Methyl tert-butyl Ether	2.81	73	292937	48.847	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	113762	46.643	ug/L	93
19) 1,1-Dichloroethane	3.23	63	200094	49.392	ug/L	98
21) 2-Butanone	4.02	43	123326	128.174	ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	126467	47.466	ug/L	97
23) Bromochloromethane	4.30	128	57617	47.253	ug/L	92
25) Chloroform	4.43	83	214747	49.816	ug/L	97
27) 1,2-Dichloroethane	5.18	62	165862	56.820	ug/L	# 94
30) Cyclohexane	4.73	56	205884	49.610	ug/L	96
31) 1,1,1-Trichloroethane	4.66	97	200246	49.527	ug/L	99
32) Carbon tetrachloride	4.87	117	177292	51.890	ug/L	99
34) Benzene	5.15	78	499625	51.038	ug/L	100
35) Trichloroethene	5.96	95	137005	50.316	ug/L	97
36) Methylcyclohexane	6.18	83	236124	49.578	ug/L	98
40) 1,2-Dichloropropane	6.22	63	123763	52.090	ug/L	98
41) Bromodichloromethane	6.56	83	180943	53.474	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	207577	51.481	ug/L	97
43) 4-Methyl-2-pentanone	7.28	43	193660	97.099	ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	576574	53.105	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	192061	54.396	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	108474	51.270	ug/L	98
47) Tetrachloroethene	8.02	164	107167	50.359	ug/L	95
49) 2-Hexanone	8.19	43	174851	113.993	ug/L	98
50) Dibromochloromethane	8.29	129	140910	55.235	ug/L	97
51) 1,2-Dibromoethane	8.40	107	111599	52.590	ug/L	96
52) Chlorobenzene	8.93	112	378847	53.588	ug/L	100
53) Ethylbenzene	9.06	91	650697	53.050	ug/L	98
54) m,p-Xylene	9.18	106	261095	54.554	ug/L	98
55) o-xylene	9.59	106	249890	55.627	ug/L	99
56) Styrene	9.60	104	426002	55.260	ug/L	98
57) Isopropylbenzene	9.98	105	676546	54.402	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	151617	50.782	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	111086	51.922	ug/L	99
62) Bromoform	9.78	173	89948	55.686	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	289472	51.577	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	291003	52.016	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	271535	51.599	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	31298	53.553	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	206426	50.830	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	173978	52.504	ug/L	99
69) Naphthalene	13.55	128	401799	56.572	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	161922	52.949	ug/L	96

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

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VSTD05084

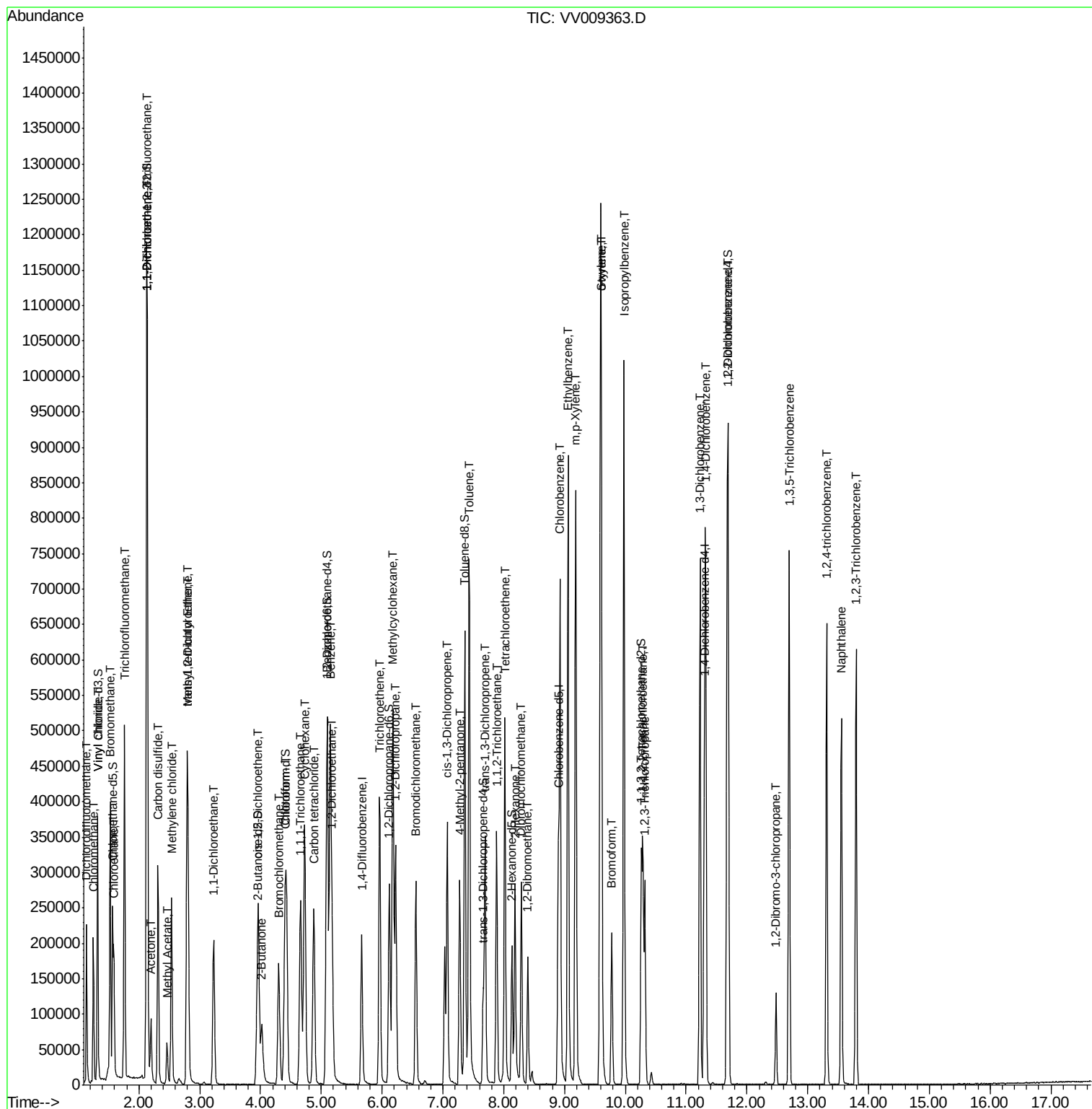
Quant Time: Feb 26 12:06:49 2019

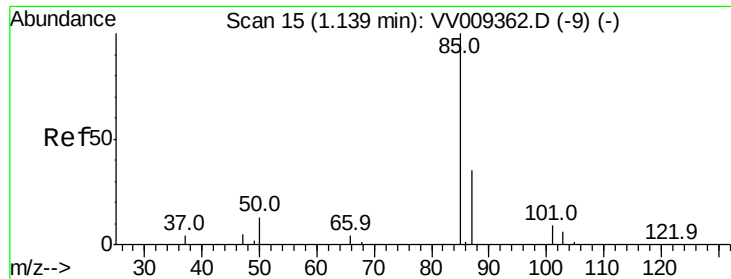
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM022619S.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 52.161 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

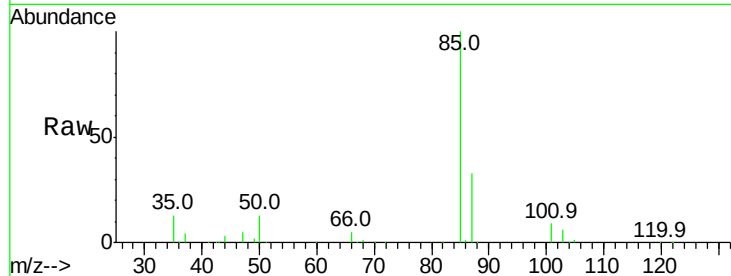
VSTD05084

Tgt Ion: 85 Resp: 112344

Ion Ratio Lower Upper

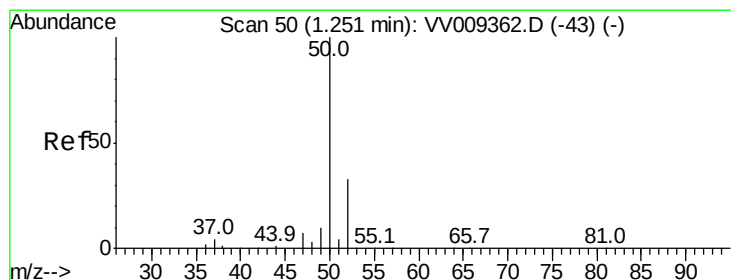
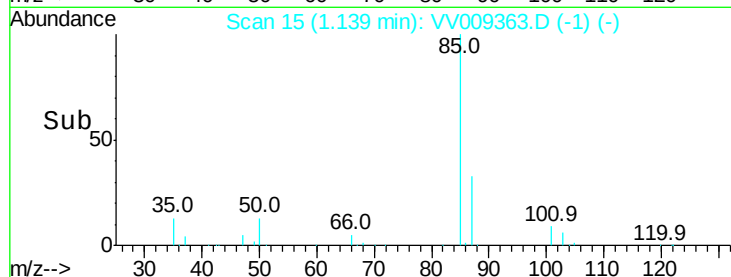
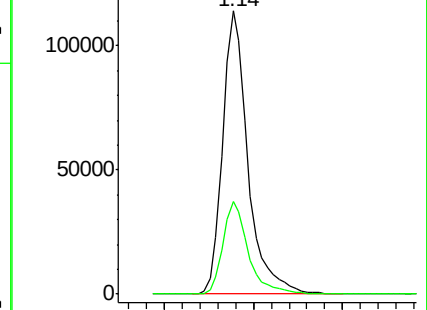
85 100

87 32.8 24.2 45.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 44.767 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009363.D

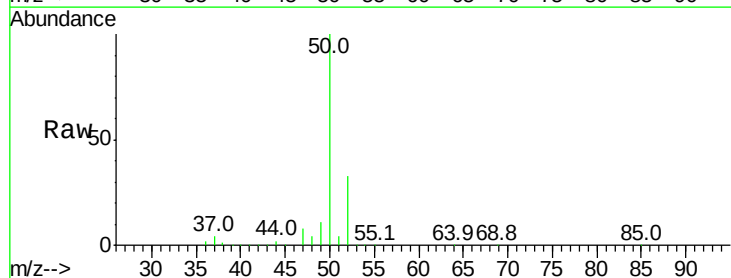
Acq: 26 Feb 2019 11:27

Tgt Ion: 50 Resp: 117799

Ion Ratio Lower Upper

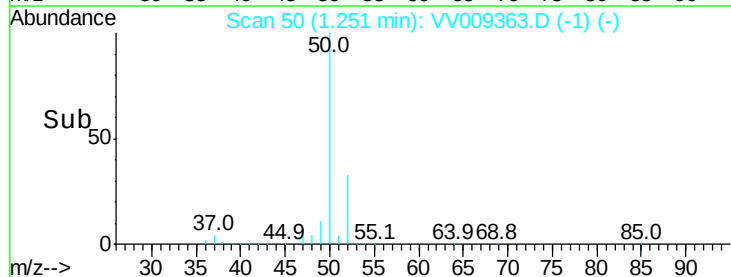
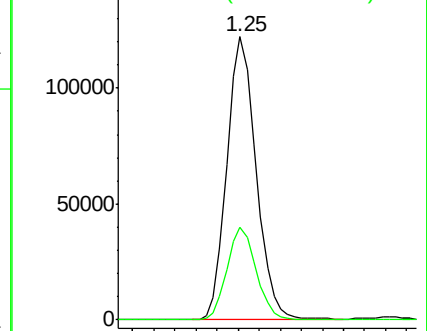
50 100

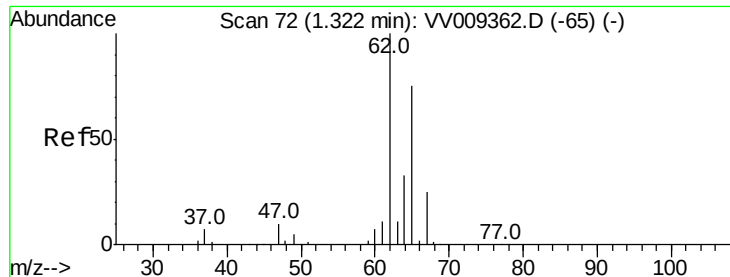
52 32.6 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 43.816 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

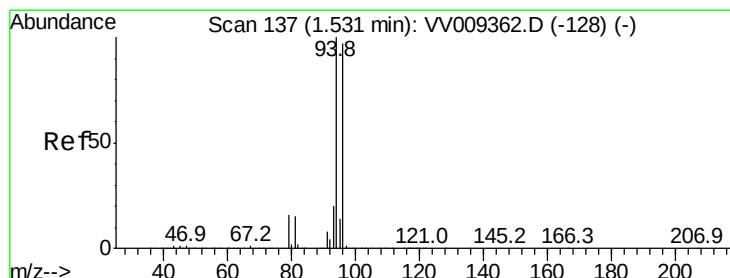
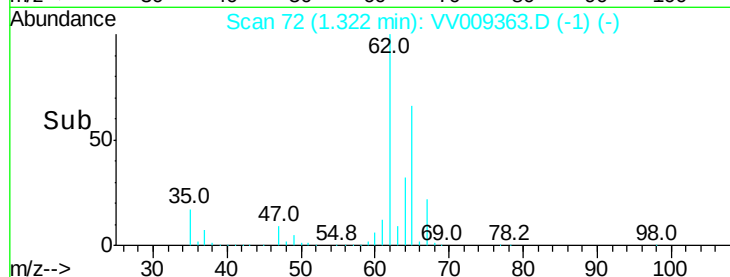
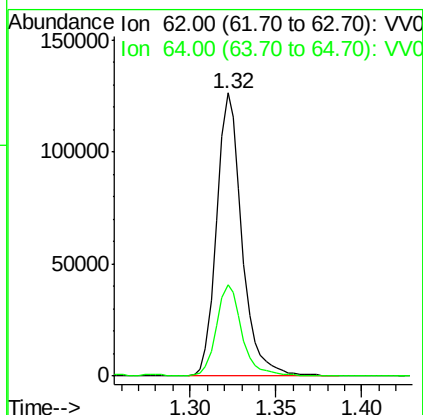
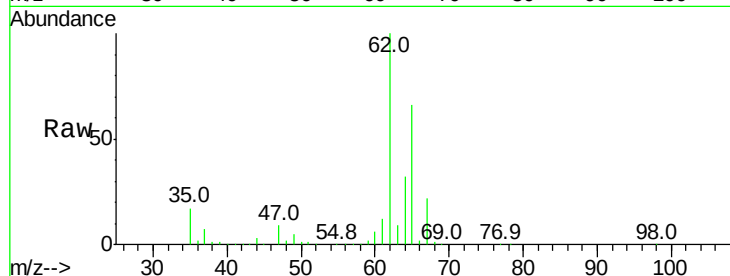
VSTD05084

Tgt Ion: 62 Resp: 130745

Ion Ratio Lower Upper

62 100

64 32.4 24.3 45.1



#6

Bromomethane

Concen: 45.671 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.00 min

Lab File: VV009363.D

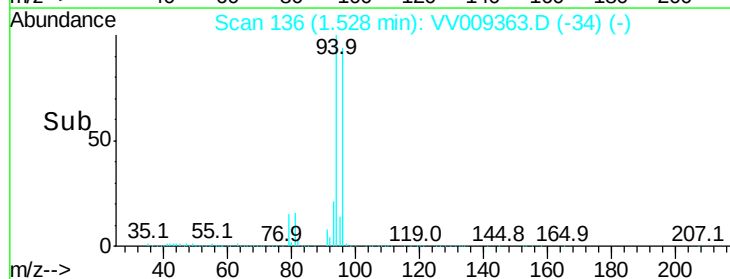
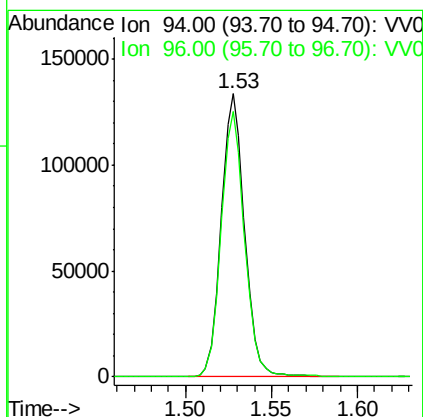
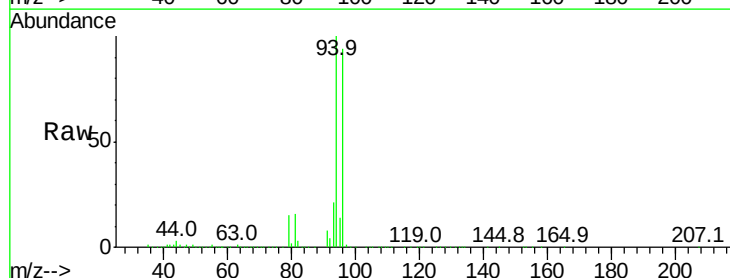
Acq: 26 Feb 2019 11:27

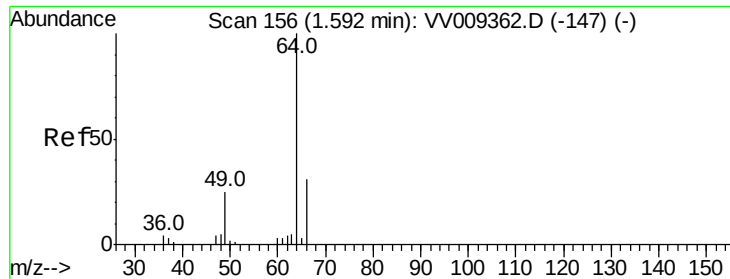
Tgt Ion: 94 Resp: 126825

Ion Ratio Lower Upper

94 100

96 94.8 9.4 178.6





#8

Chloroethane

Concen: 37.210 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

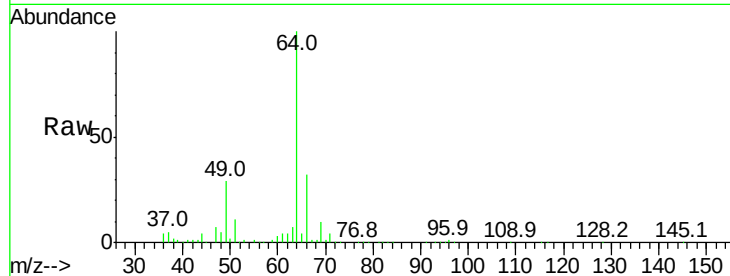
VSTD05084

Tgt Ion: 64 Resp: 93722

Ion Ratio Lower Upper

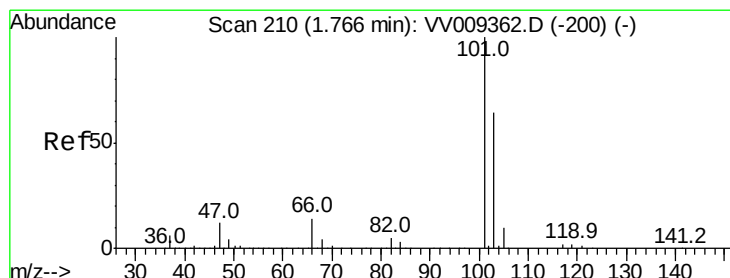
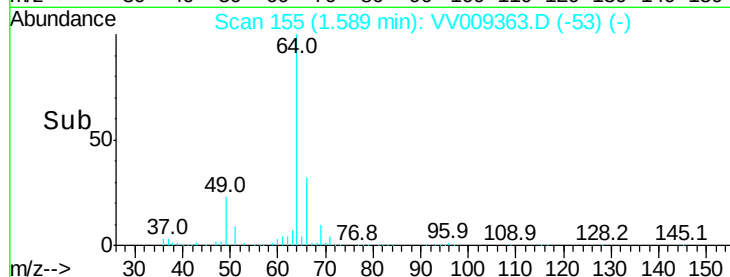
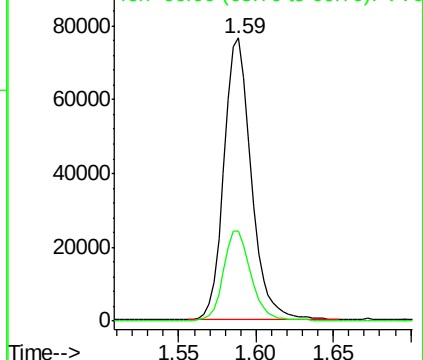
64 100

66 31.8 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0



#9

Trichlorofluoromethane

Concen: 47.995 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV009363.D

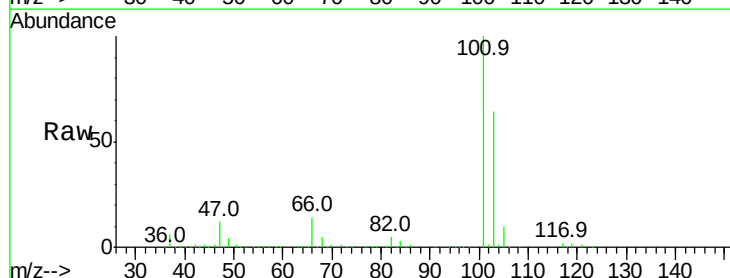
Acq: 26 Feb 2019 11:27

Tgt Ion: 101 Resp: 269626

Ion Ratio Lower Upper

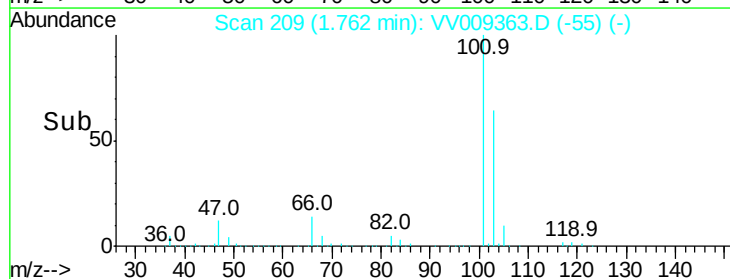
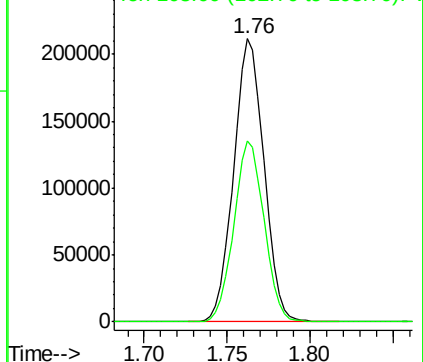
101 100

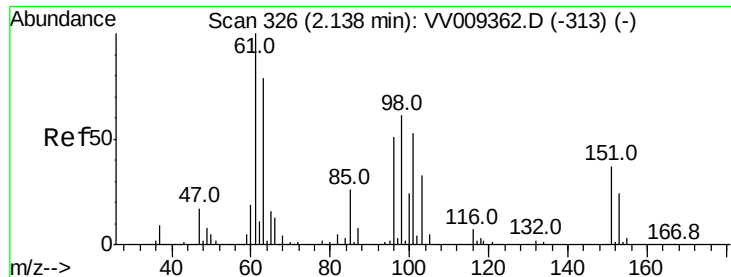
103 63.8 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

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

Concen: 46.077 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

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ClientSampleId :

VSTD05084

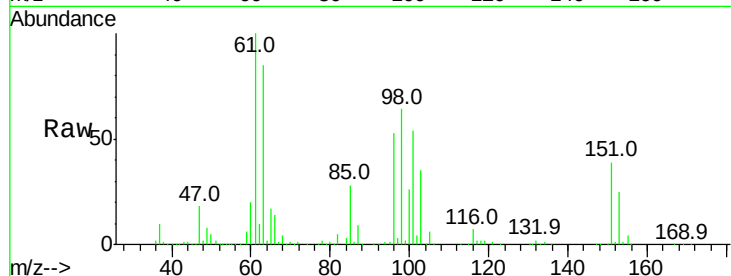
Tgt Ion: 101 Resp: 148030

Ion Ratio Lower Upper

101 100

85 50.9 39.1 58.7

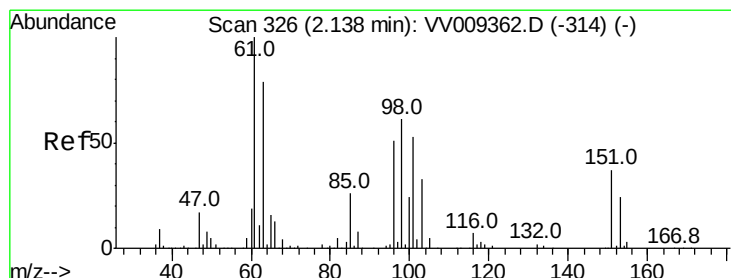
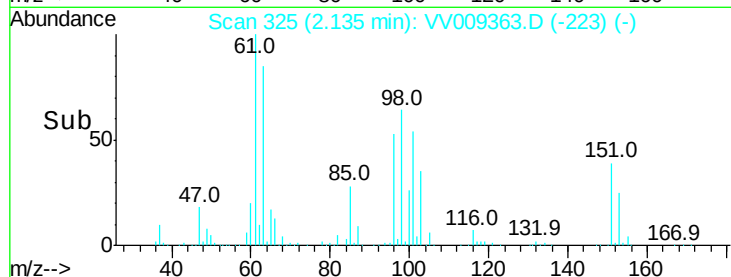
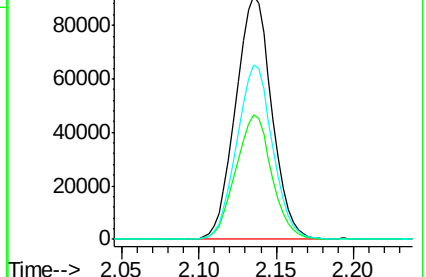
151 71.2 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV009362.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV009362.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV009362.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 46.582 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

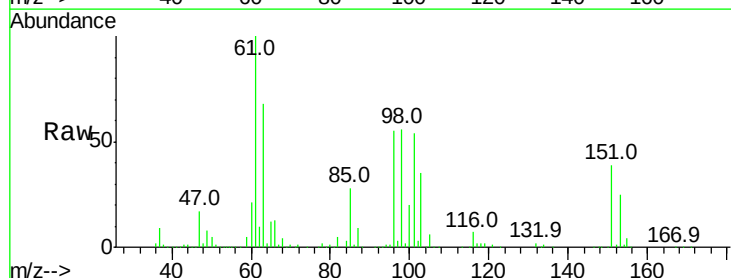
Tgt Ion: 96 Resp: 126115

Ion Ratio Lower Upper

96 100

61 180.3 123.3 228.9

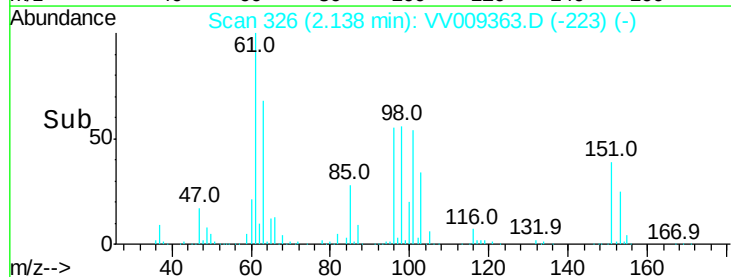
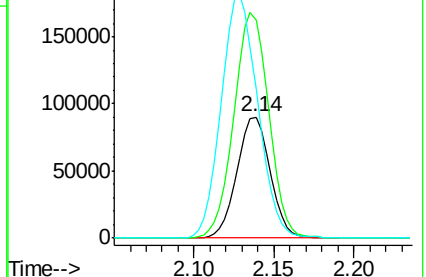
63 123.2 88.4 164.2

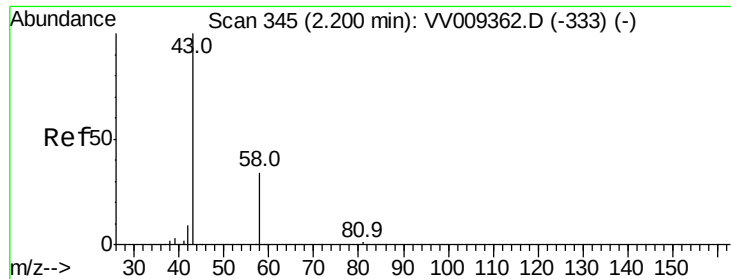


Abundance Ion 96.00 (95.70 to 96.70): VV009362.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV009362.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV009362.D (-314) (-)





#13

Acetone

Concen: 108.314 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.00 min

Lab File: VV009363.D

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ClientSampleId :

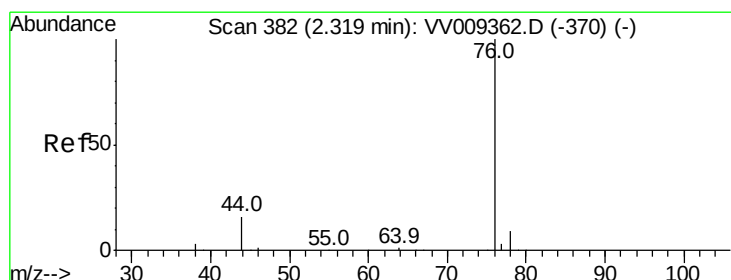
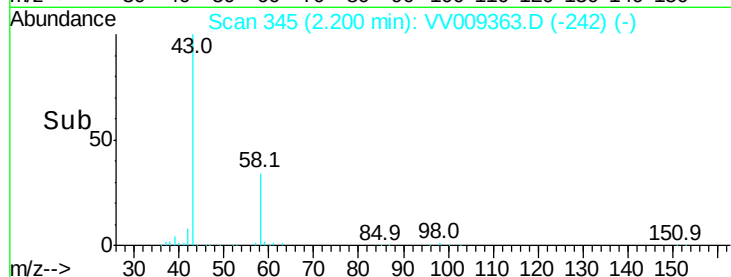
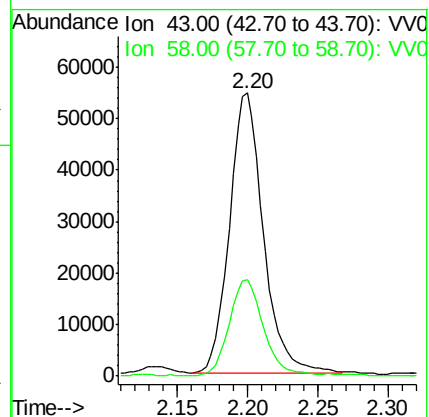
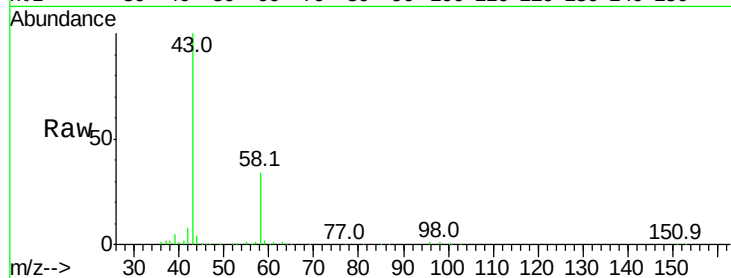
VSTD05084

Tgt Ion: 43 Resp: 90970

Ion Ratio Lower Upper

43 100

58 35.1 0.0 72.0



#14

Carbon disulfide

Concen: 47.454 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009363.D

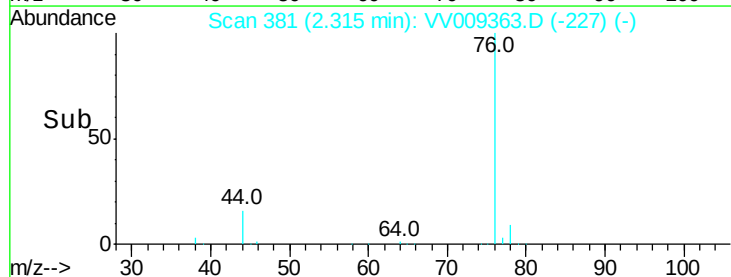
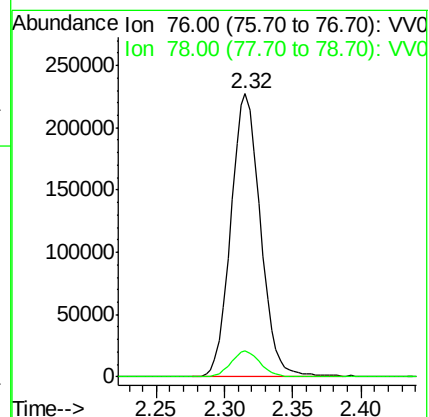
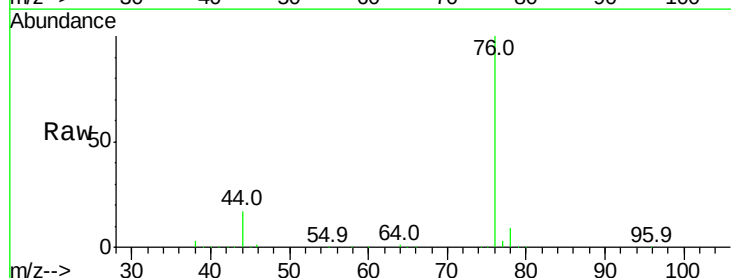
Acq: 26 Feb 2019 11:27

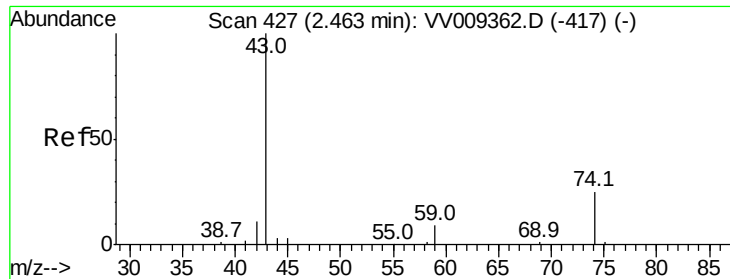
Tgt Ion: 76 Resp: 343786

Ion Ratio Lower Upper

76 100

78 9.1 6.9 10.3

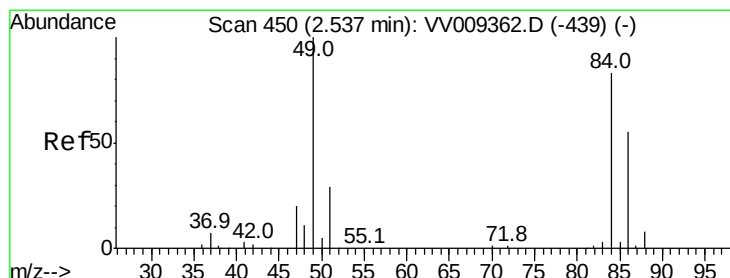
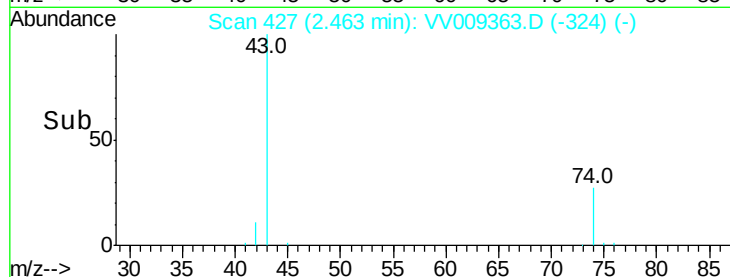
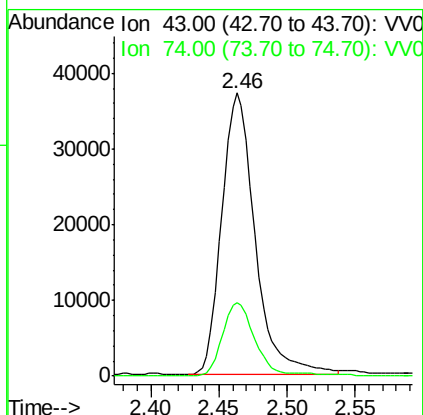
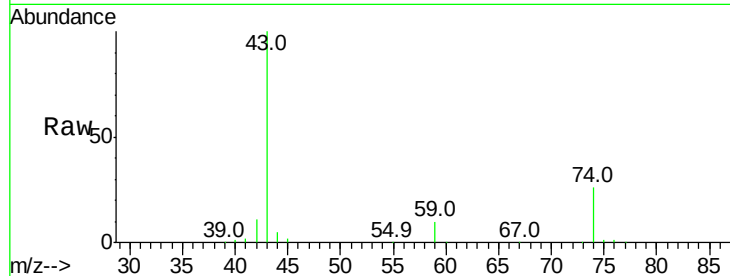




#15
Methyl Acetate
Concen: 51.844 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

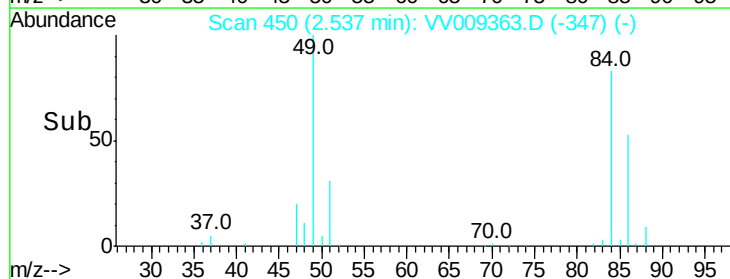
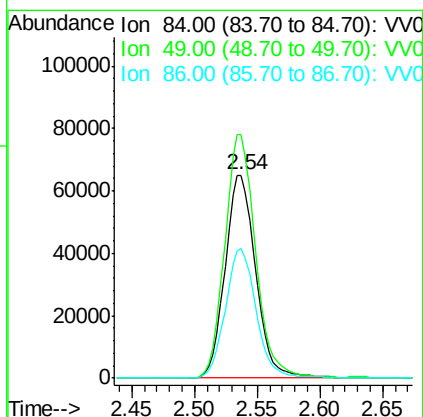
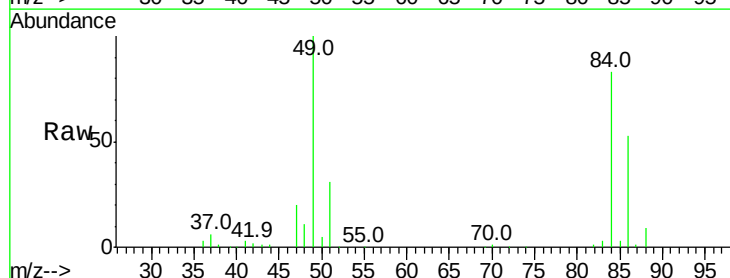
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

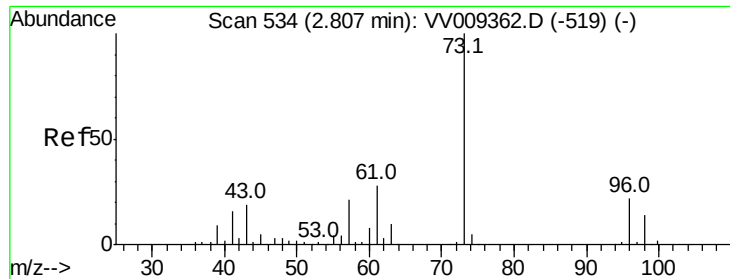
Tgt Ion: 43 Resp: 63491
Ion Ratio Lower Upper
43 100
74 24.8 21.8 32.6



#16
Methylene chloride
Concen: 39.471 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 84 Resp: 110177
Ion Ratio Lower Upper
84 100
49 119.8 78.7 146.1
86 63.8 44.0 81.6

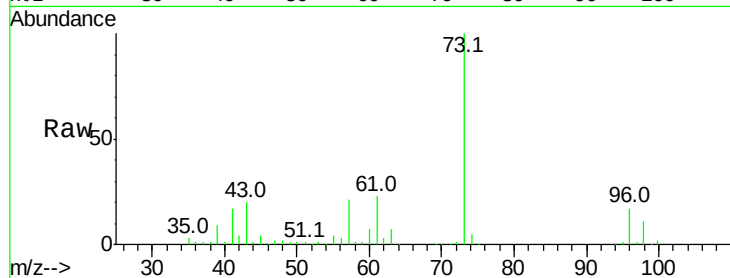




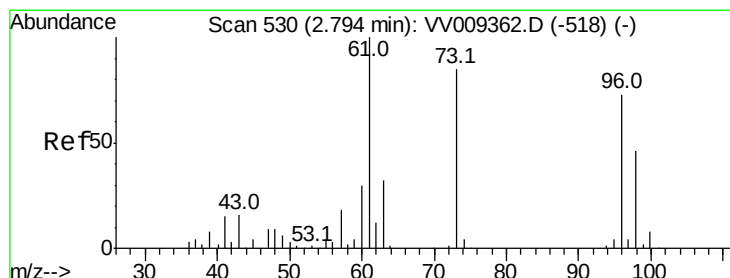
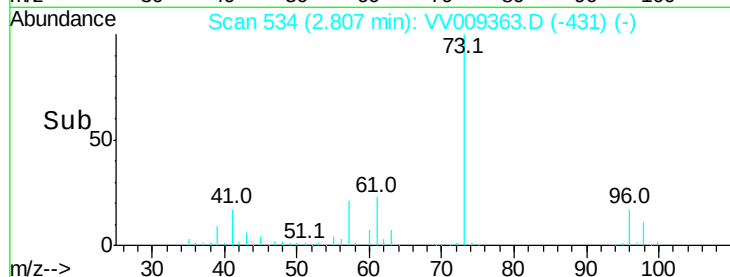
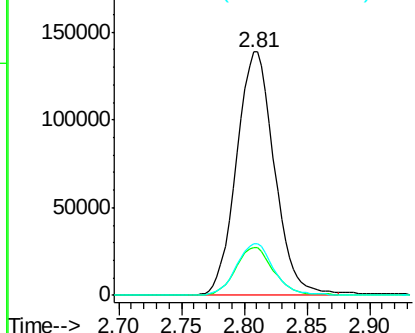
#17
Methyl tert-butyl Ether
Concen: 48.847 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tgt Ion: 73 Resp: 292937
Ion Ratio Lower Upper
73 100
43 19.4 14.0 21.0
57 21.2 17.0 25.4

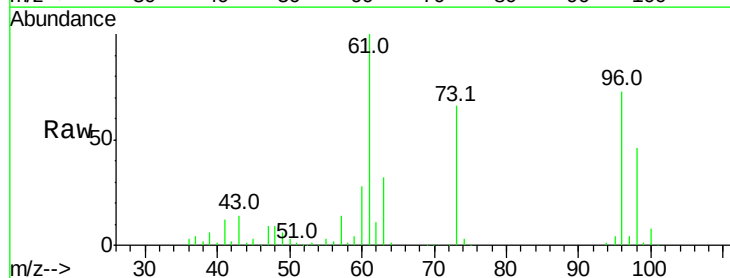


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

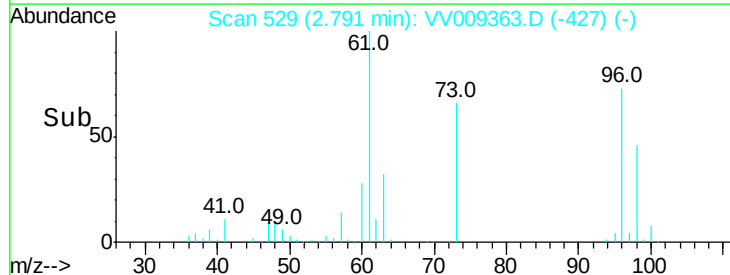
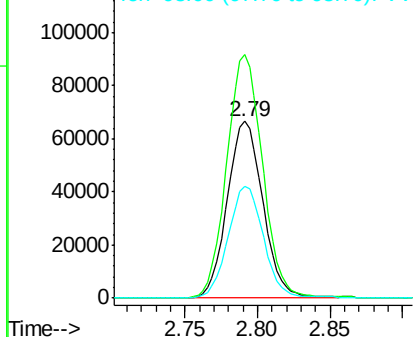


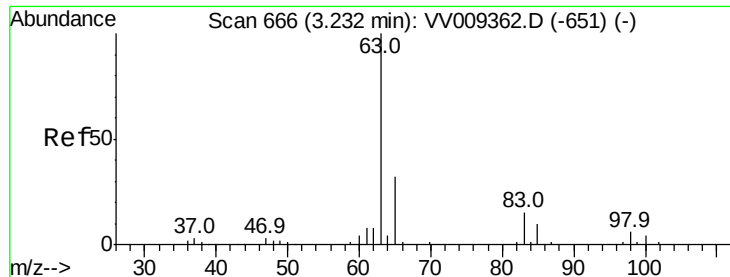
#18
trans-1,2-Dichloroethene
Concen: 46.643 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 96 Resp: 113762
Ion Ratio Lower Upper
96 100
61 137.8 88.8 165.0
98 63.6 43.0 79.8



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

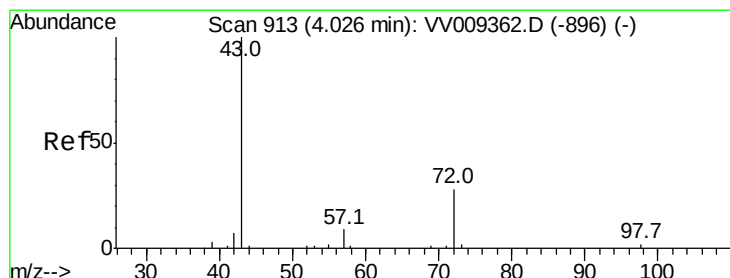
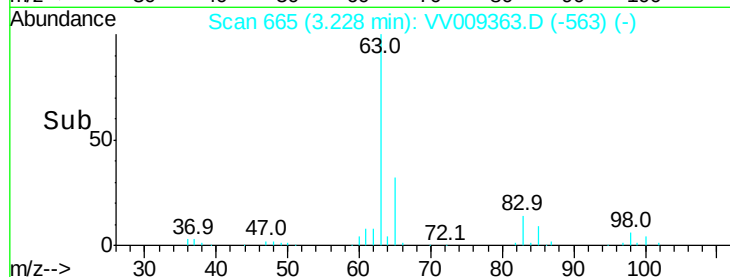
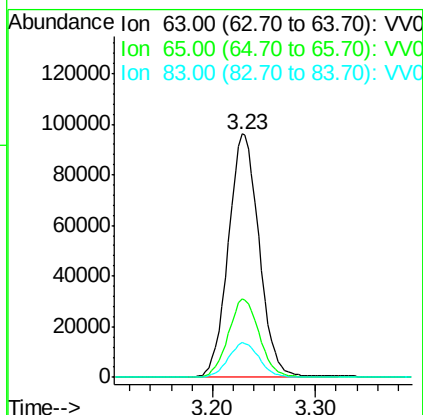
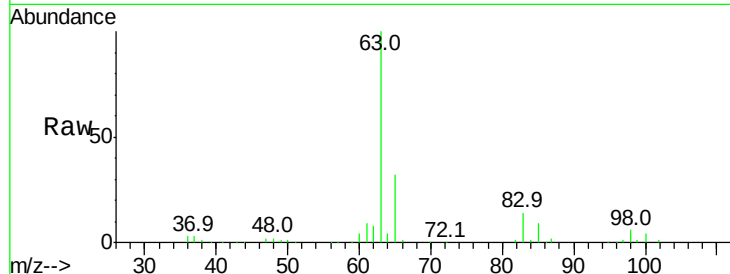




#19
 1,1-Dichloroethane
 Concen: 49.392 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

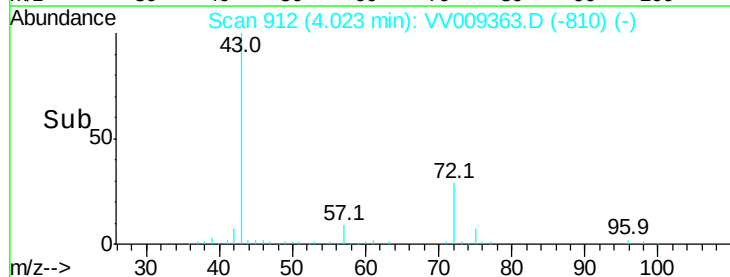
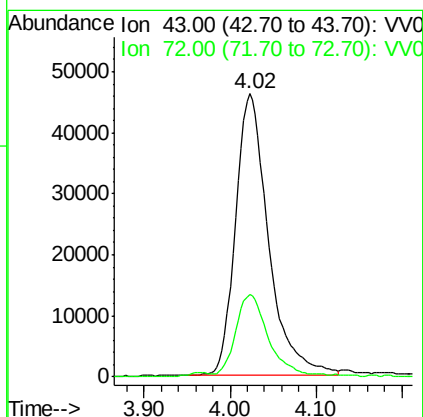
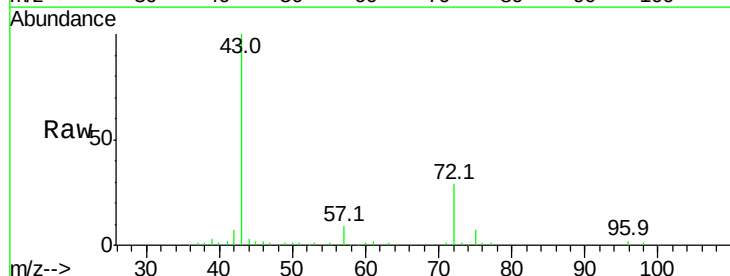
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

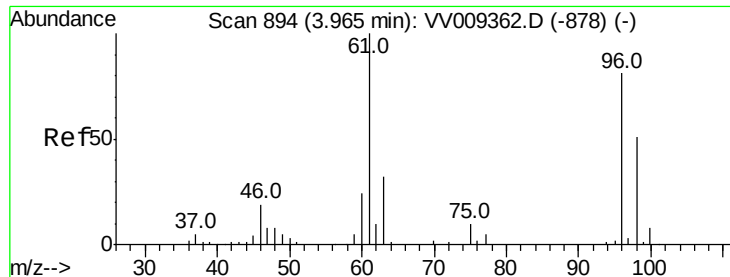
Tgt Ion: 63 Resp: 200094
 Ion Ratio Lower Upper
 63 100
 65 32.3 21.6 40.2
 83 14.2 10.1 18.9



#21
 2-Butanone
 Concen: 128.174 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Tgt Ion: 43 Resp: 123326
 Ion Ratio Lower Upper
 43 100
 72 27.8 15.4 46.2



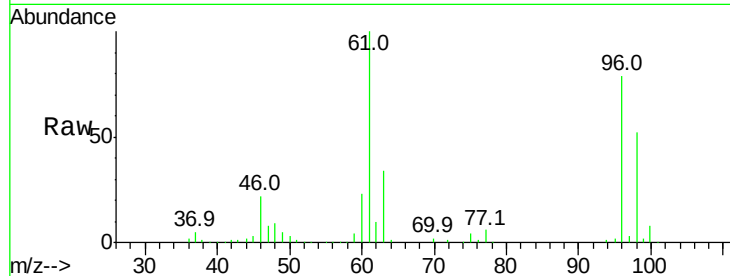


#22

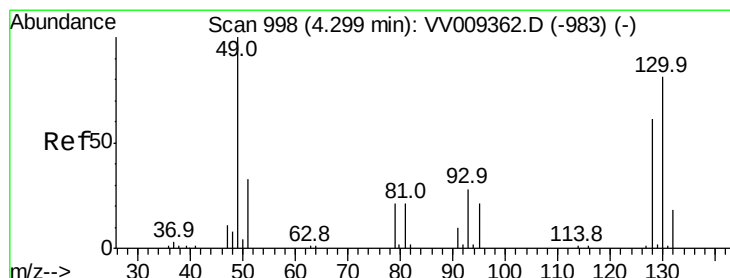
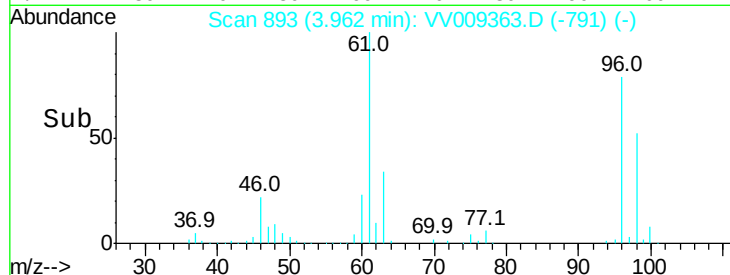
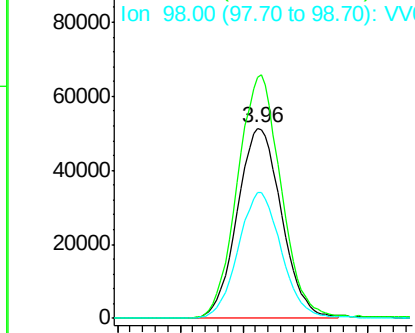
cis-1,2-Dichloroethene
Concen: 47.466 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tgt Ion: 96 Resp: 126467
Ion Ratio Lower Upper
96 100
61 127.0 86.2 160.0
98 66.1 46.8 87.0



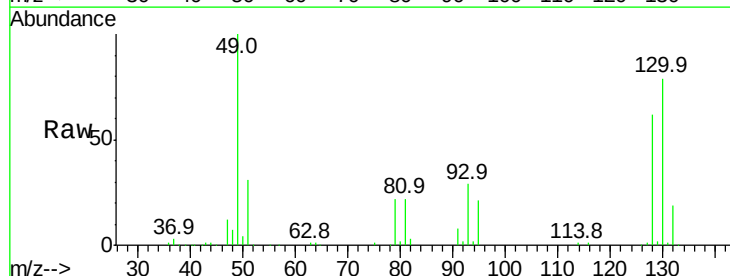
Abundance Ion 96.00 (95.70 to 96.70): VV009362.D (-878) (-)
Ion 61.00 (60.70 to 61.70): VV009362.D (-878) (-)
Ion 98.00 (97.70 to 98.70): VV009362.D (-878) (-)



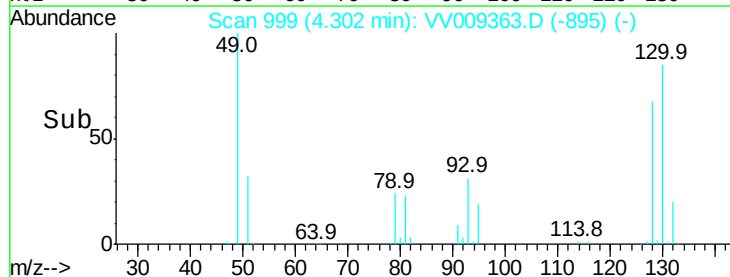
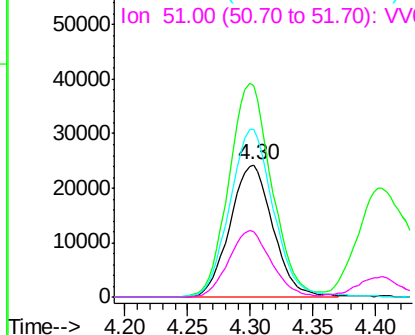
#23

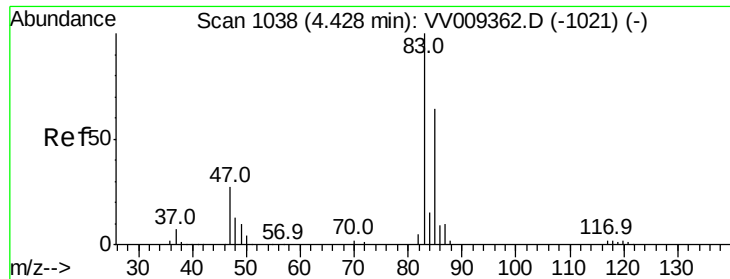
Bromochloromethane
Concen: 47.253 ug/L
RT: 4.30 min Scan# 999
Delta R.T. 0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 128 Resp: 57617
Ion Ratio Lower Upper
128 100
49 160.4 103.0 191.4
130 126.8 93.3 173.3
51 49.4 36.5 54.7



Abundance Ion 128.00 (127.70 to 128.70): VV009362.D (-983) (-)
Ion 49.00 (48.70 to 49.70): VV009362.D (-983) (-)
Ion 130.00 (129.70 to 130.70): VV009362.D (-983) (-)
Ion 51.00 (50.70 to 51.70): VV009362.D (-983) (-)

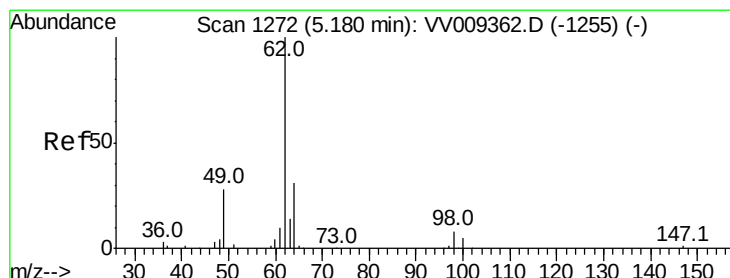
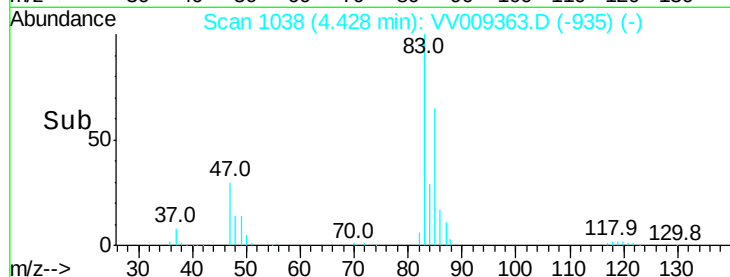
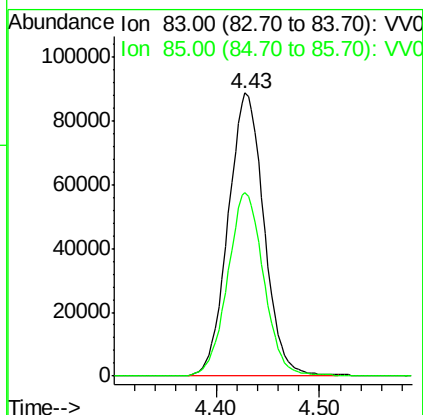
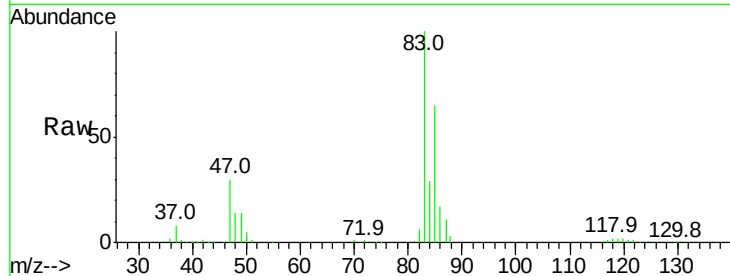




#25
Chloroform
Concen: 49.816 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

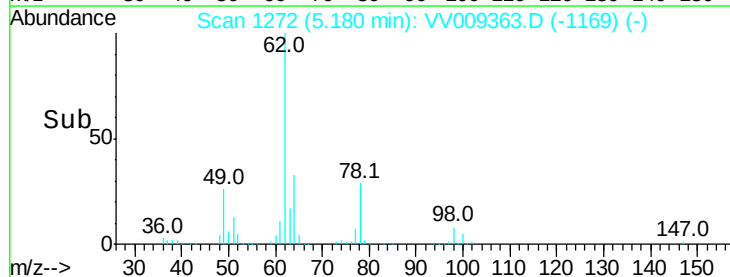
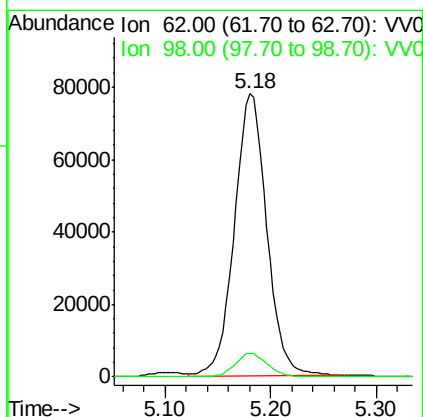
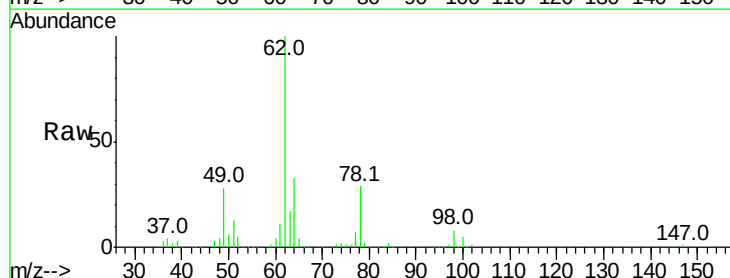
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

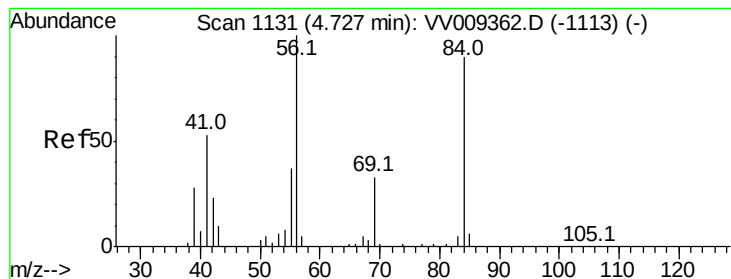
Tgt Ion: 83 Resp: 214747
Ion Ratio Lower Upper
83 100
85 65.4 47.5 88.3



#27
1,2-Dichloroethane
Concen: 56.820 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 62 Resp: 165862
Ion Ratio Lower Upper
62 100
98 8.4 8.5 12.7#





#30

Cyclohexane

Concen: 49.610 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

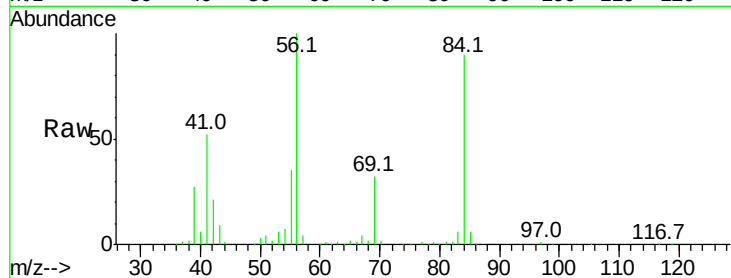
Tgt Ion: 56 Resp: 205884

Ion Ratio Lower Upper

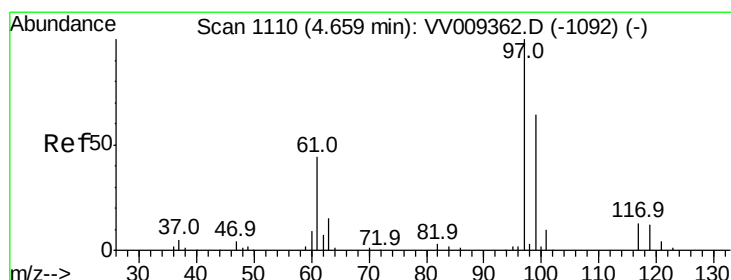
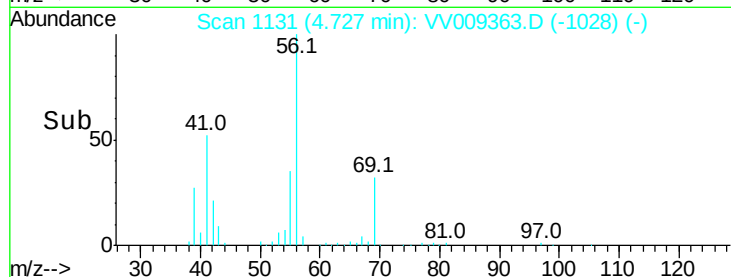
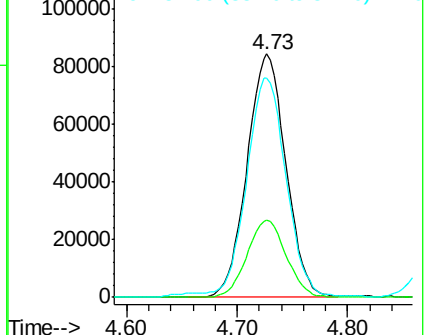
56 100

69 31.8 25.7 38.5

84 90.9 77.2 115.8



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



#31

1,1,1-Trichloroethane

Concen: 49.527 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

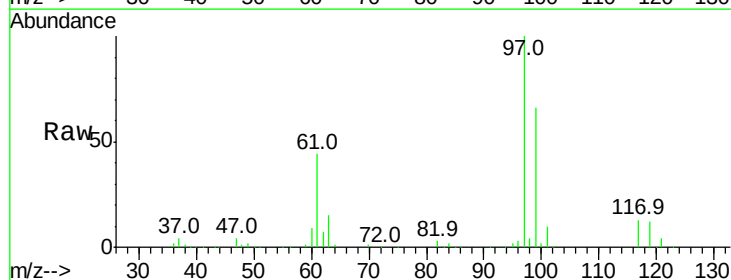
Tgt Ion: 97 Resp: 200246

Ion Ratio Lower Upper

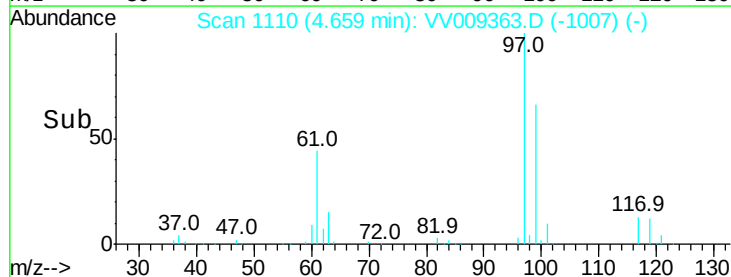
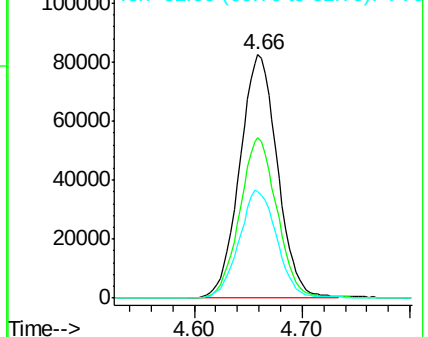
97 100

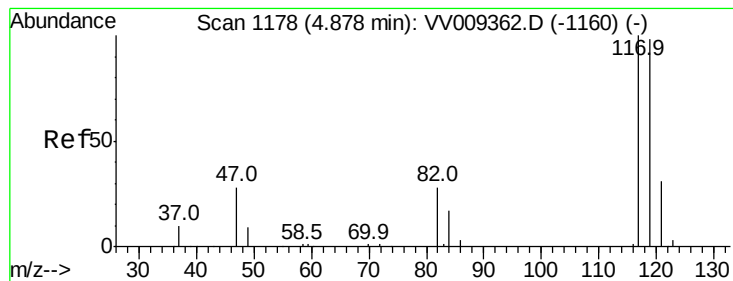
99 64.9 51.7 77.5

61 44.3 34.0 51.0



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 51.890 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

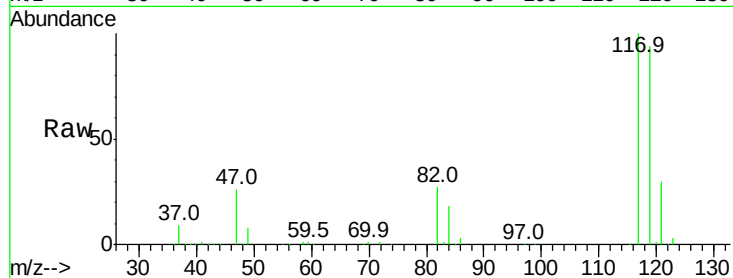
VSTD05084

Tgt Ion:117 Resp: 177292

Ion Ratio Lower Upper

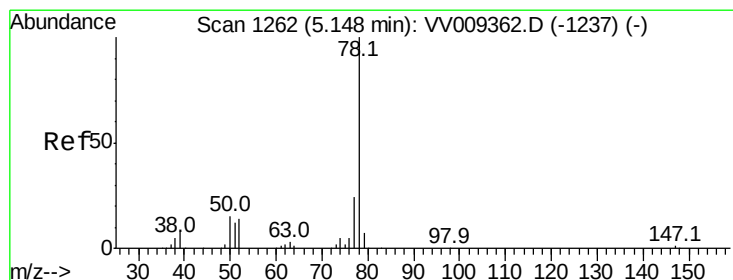
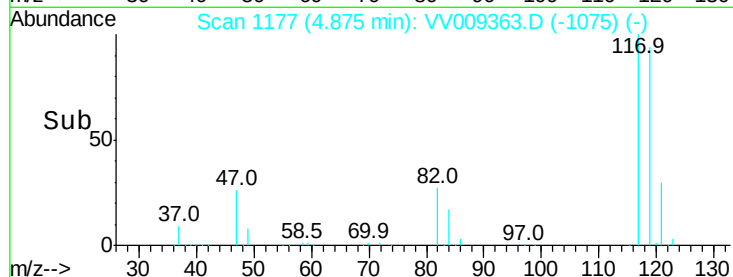
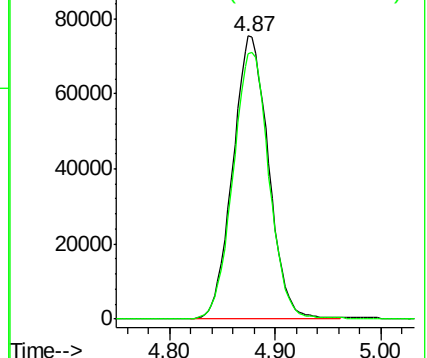
117 100

119 94.8 76.7 115.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 51.038 ug/L

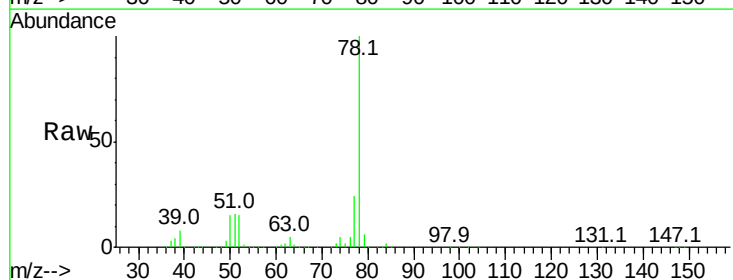
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

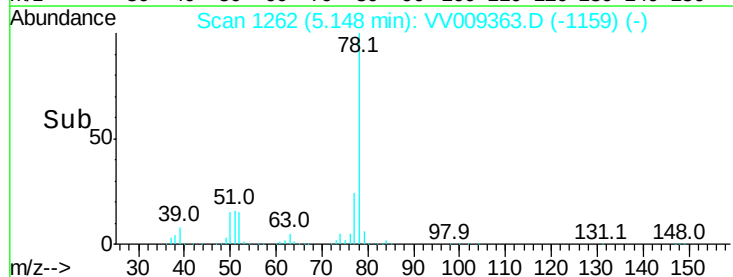
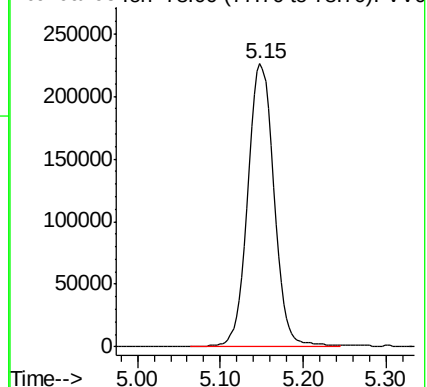
Lab File: VV009363.D

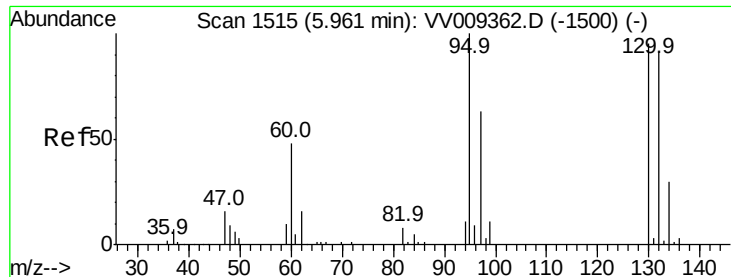
Acq: 26 Feb 2019 11:27

Tgt Ion: 78 Resp: 499625



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 50.316 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

Tgt Ion: 95 Resp: 137005

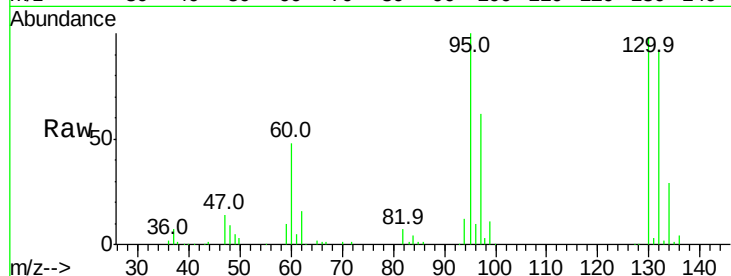
Ion Ratio Lower Upper

95 100

97 63.0 45.0 83.6

132 94.8 68.7 127.5

130 98.6 72.2 134.0

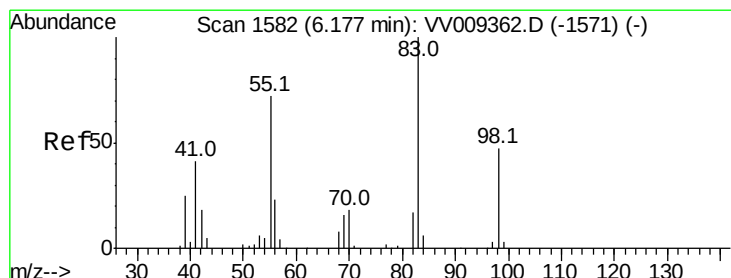
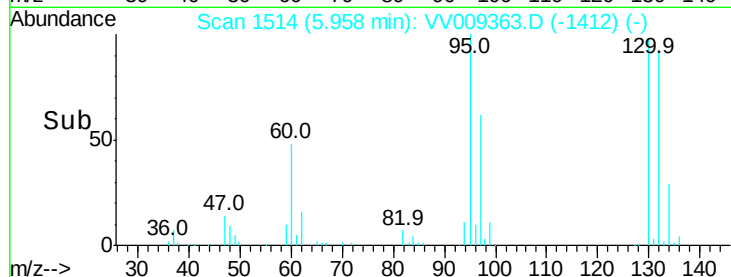
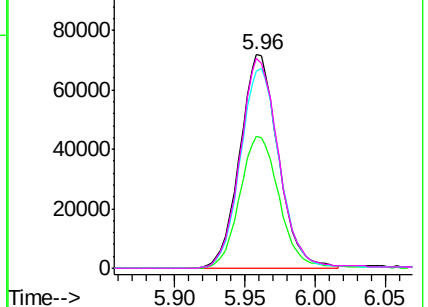


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 49.578 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

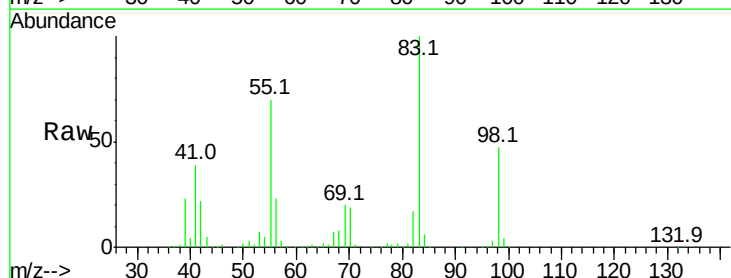
Tgt Ion: 83 Resp: 236124

Ion Ratio Lower Upper

83 100

55 70.2 55.8 83.6

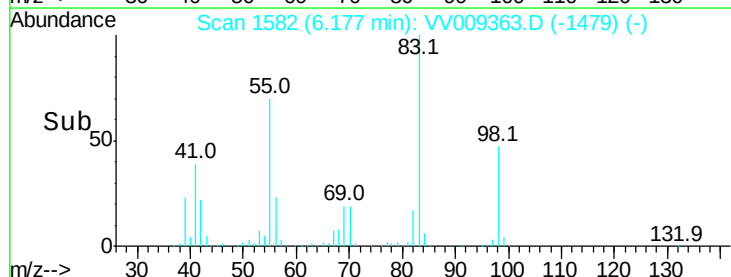
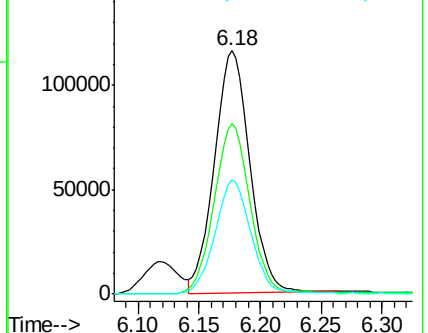
98 47.1 40.3 60.5

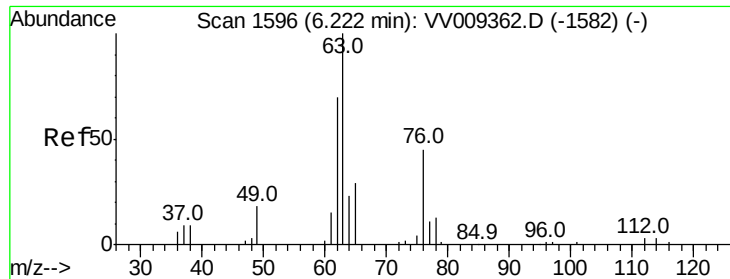


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

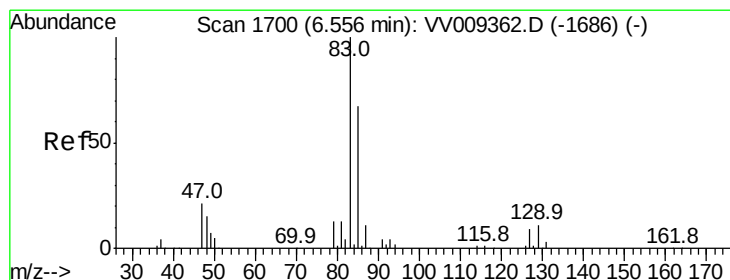
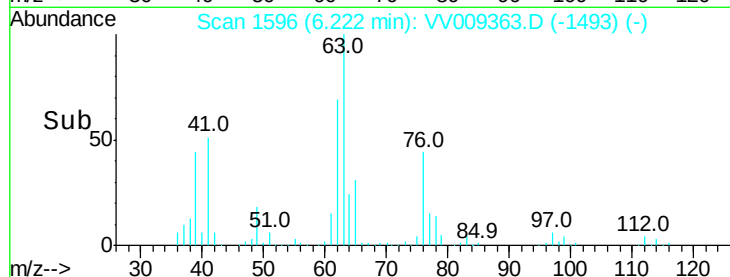
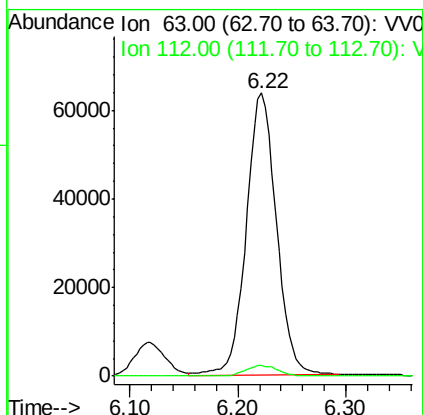
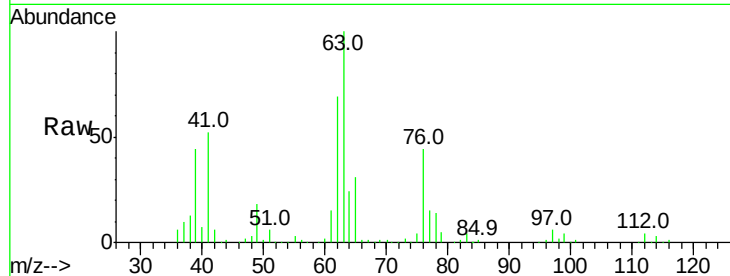




#40
 1,2-Dichloropropane
 Concen: 52.090 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

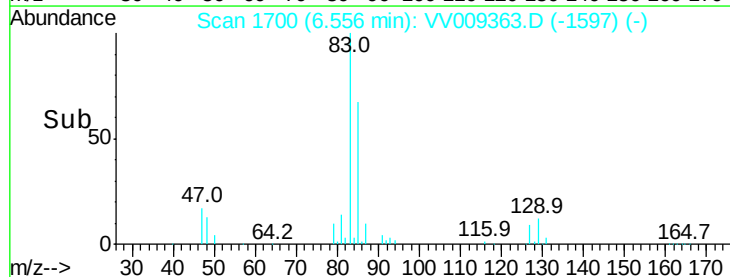
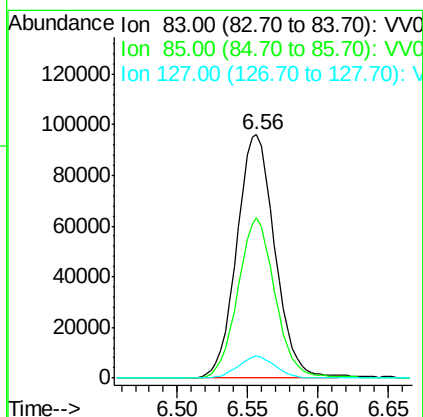
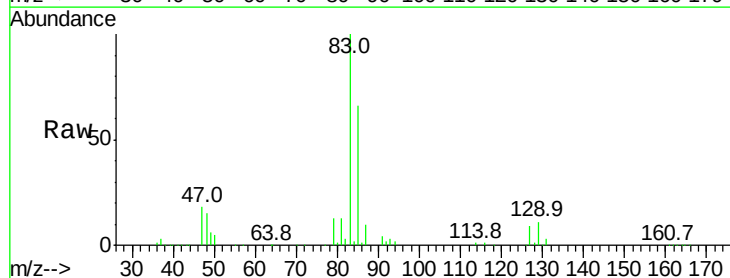
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

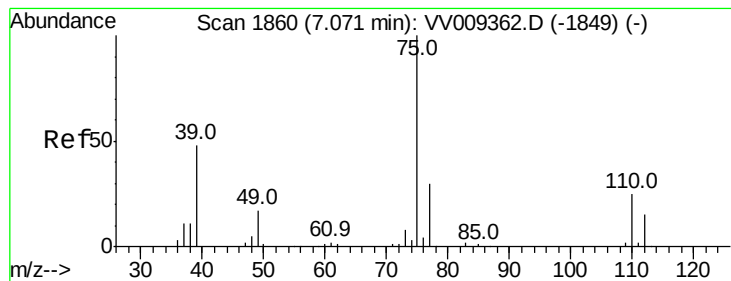
Tgt Ion: 63 Resp: 123763
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.8 5.8



#41
 Bromodichloromethane
 Concen: 53.474 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Tgt Ion: 83 Resp: 180943
 Ion Ratio Lower Upper
 83 100
 85 65.8 44.9 83.5
 127 8.9 6.3 9.5



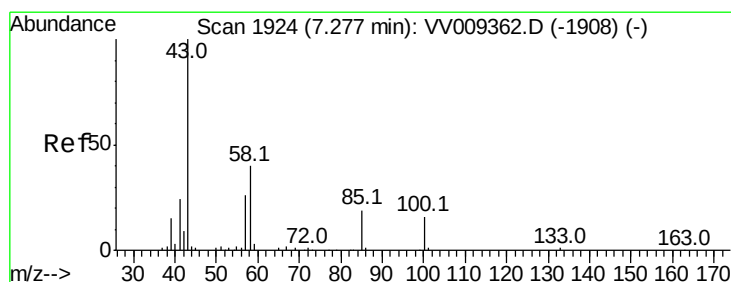
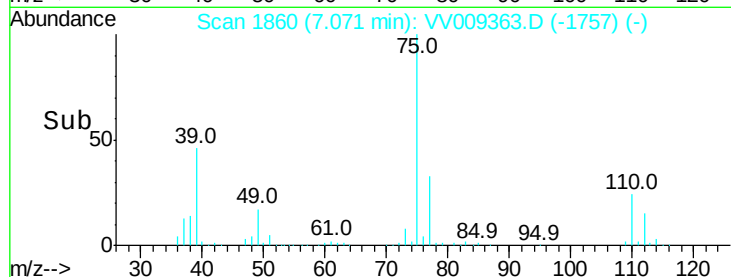
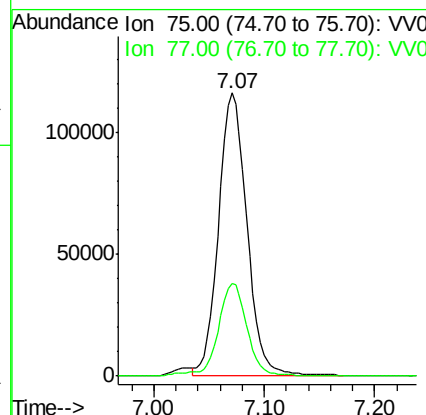
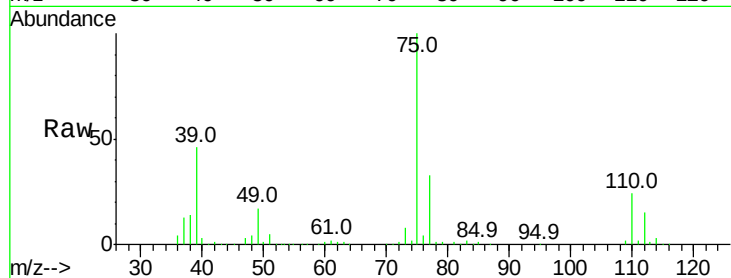


#42

cis-1,3-Dichloropropene
Concen: 51.481 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Instrument :
MSVOA_V
ClientSampled :
VSTD05084

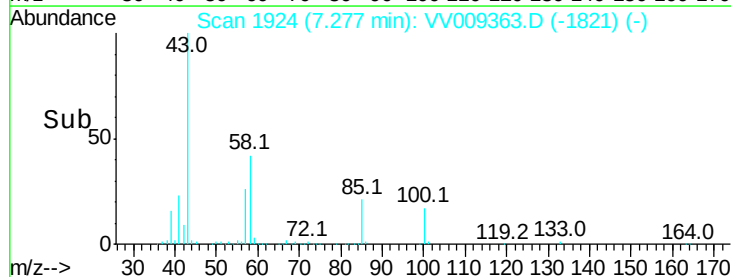
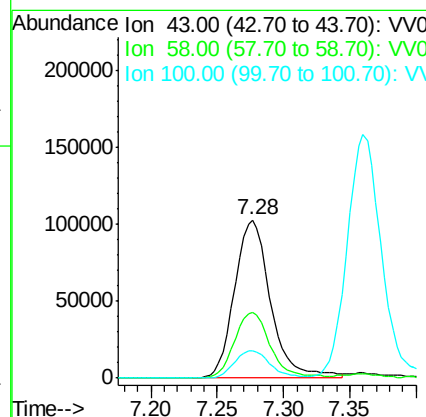
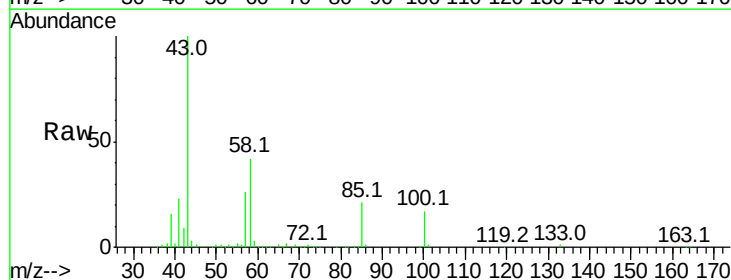
Tgt Ion: 75 Resp: 207577
Ion Ratio Lower Upper
75 100
77 32.8 22.0 40.8

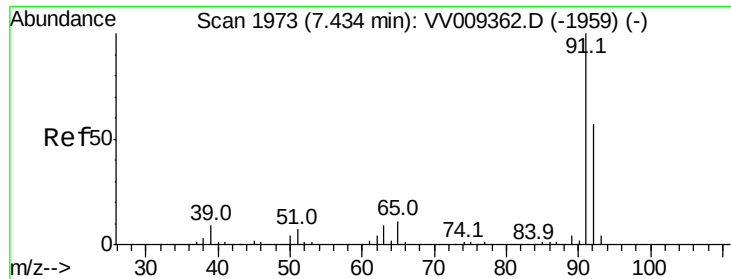


#43

4-Methyl-2-pentanone
Concen: 97.099 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 43 Resp: 193660
Ion Ratio Lower Upper
43 100
58 41.3 34.2 51.4
100 17.1 15.1 22.7





#44

Toluene

Concen: 53.105 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

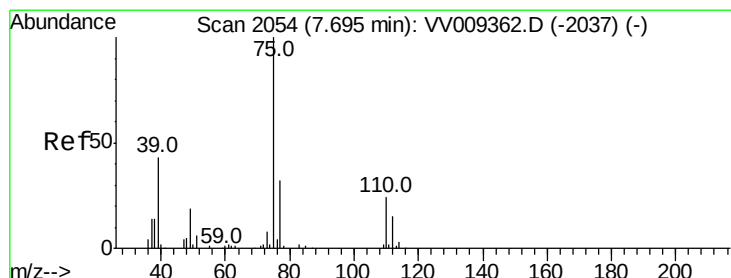
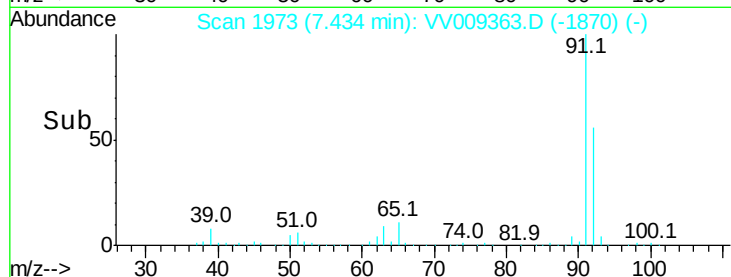
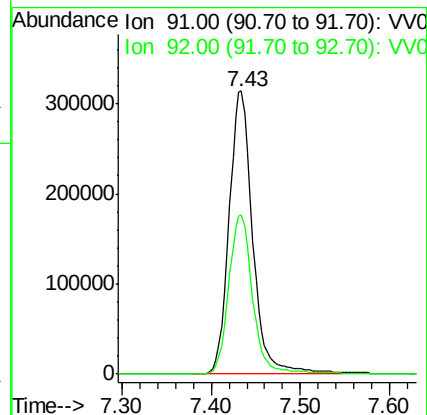
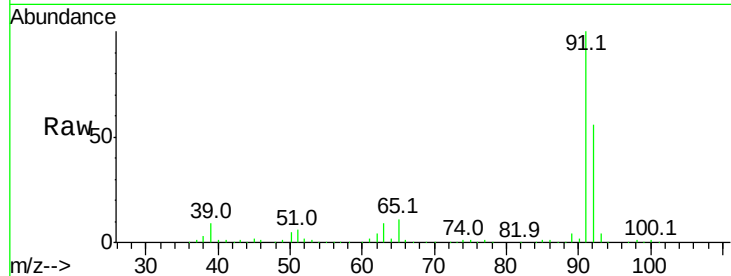
VSTD05084

Tgt Ion: 91 Resp: 576574

Ion Ratio Lower Upper

91 100

92 56.1 40.5 75.3



#45

trans-1,3-Dichloropropene

Concen: 54.396 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009363.D

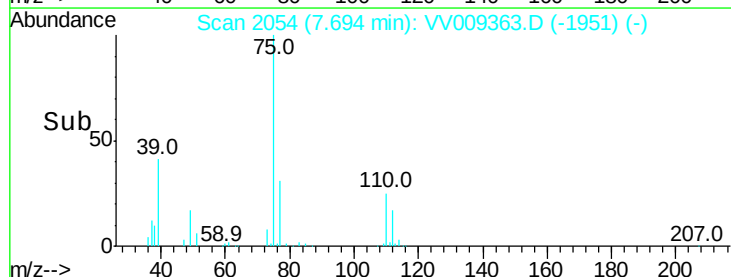
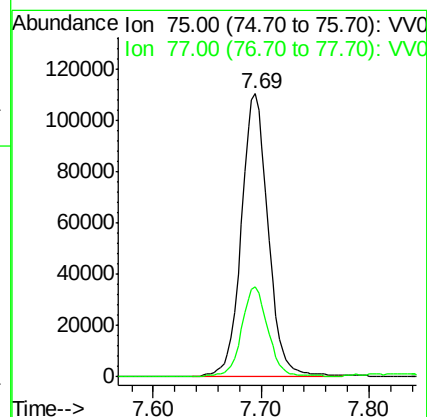
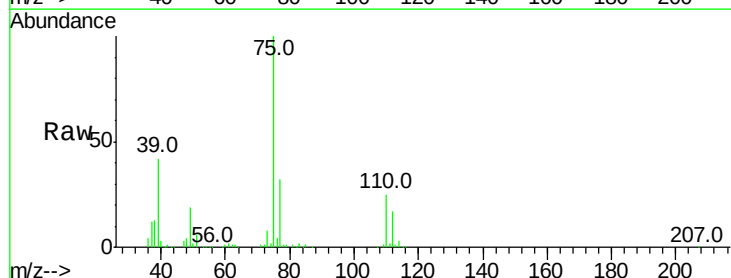
Acq: 26 Feb 2019 11:27

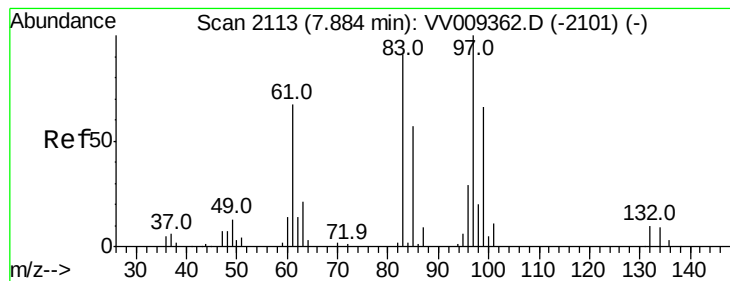
Tgt Ion: 75 Resp: 192061

Ion Ratio Lower Upper

75 100

77 31.7 22.6 42.0





#46

1,1,2-Trichloroethane

Concen: 51.270 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

Tgt Ion: 97 Resp: 108474

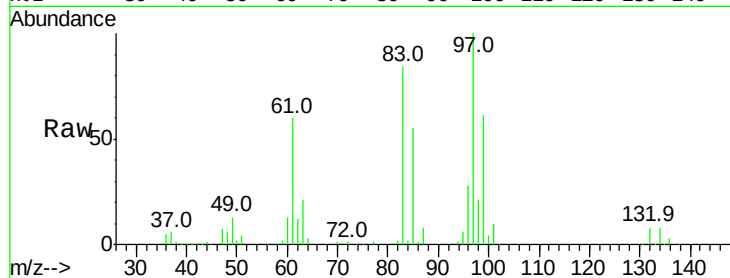
Ion Ratio Lower Upper

97 100

83 84.2 58.1 107.9

85 55.4 38.4 71.2

99 61.5 44.7 83.1

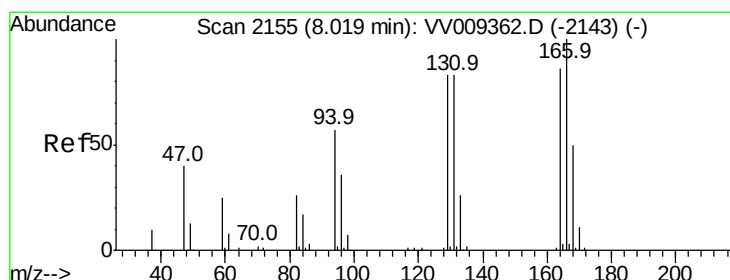
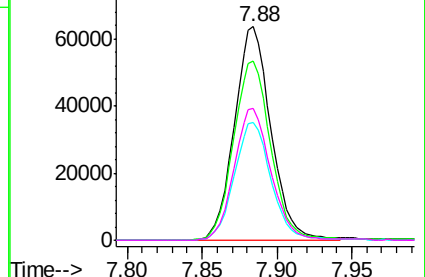
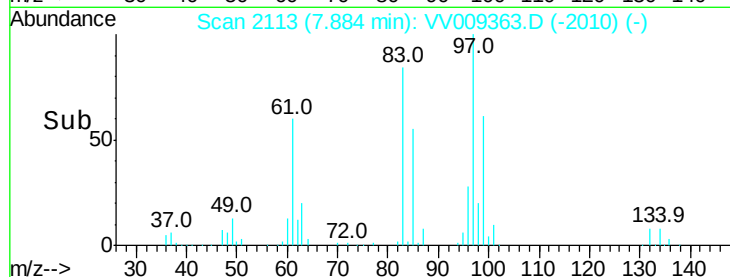


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 50.359 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Tgt Ion: 164 Resp: 107167

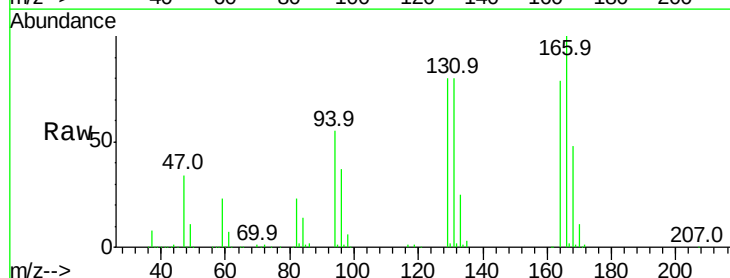
Ion Ratio Lower Upper

164 100

129 101.4 67.0 124.4

131 101.0 65.0 120.8

166 126.3 89.9 167.0

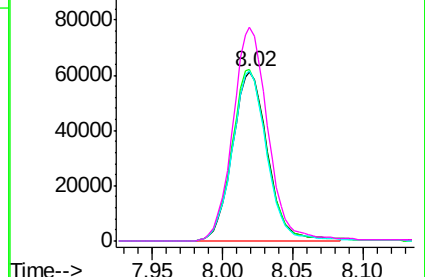
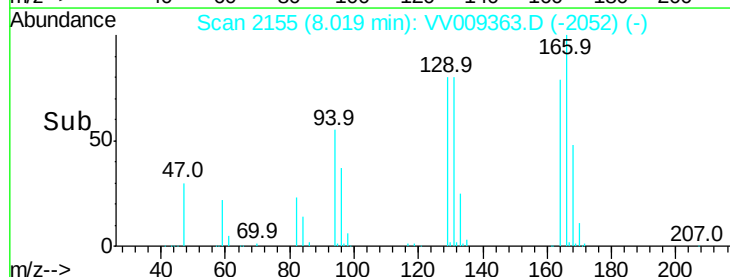


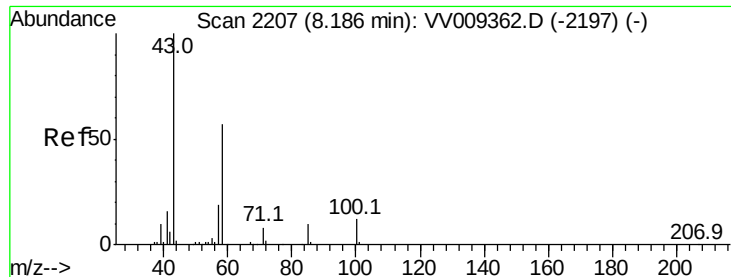
Abundance Ion 164.00 (163.70 to 164.70): V

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

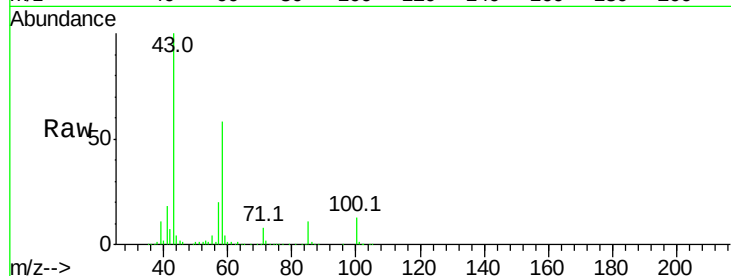




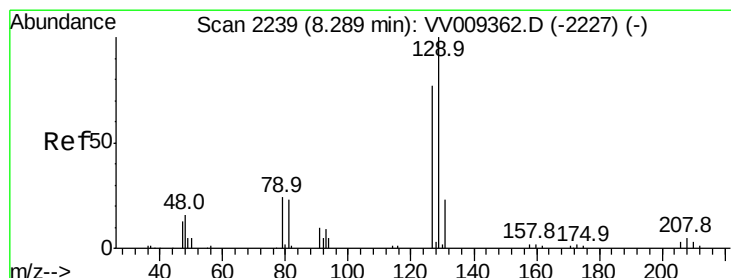
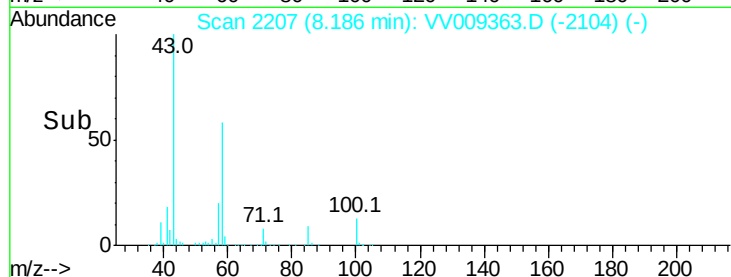
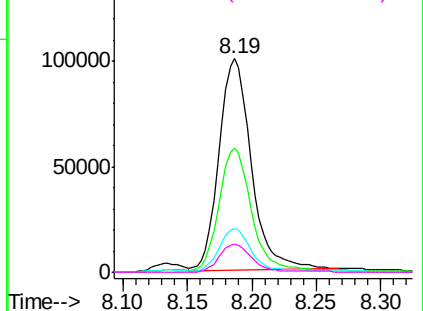
#49
2-Hexanone
Concen: 113.993 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

Tgt Ion: 43 Resp: 174851
Ion Ratio Lower Upper
43 100
58 57.5 46.8 70.2
57 20.2 14.2 21.2
100 13.6 11.0 16.6

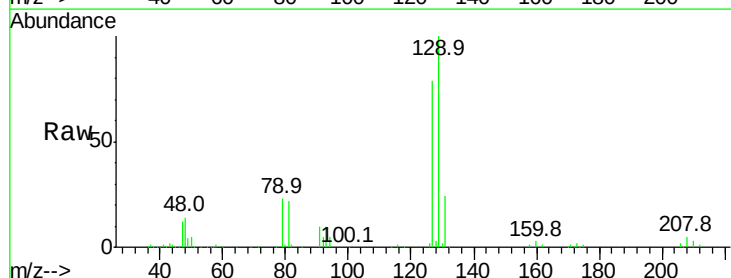


Abundance Ion 43.00 (42.70 to 43.70): VV009363.D (-2104) (-)
Ion 58.00 (57.70 to 58.70): VV009363.D (-2104) (-)
Ion 57.00 (56.70 to 57.70): VV009363.D (-2104) (-)
Ion 100.00 (99.70 to 100.70): VV009363.D (-2104) (-)

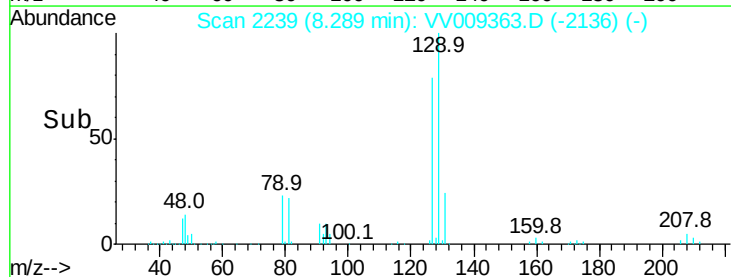
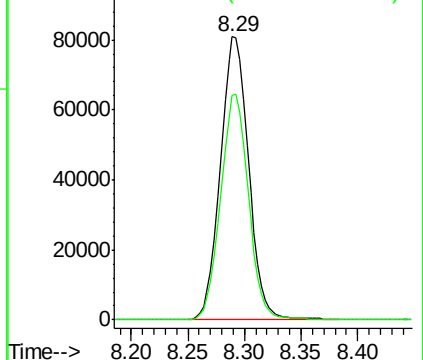


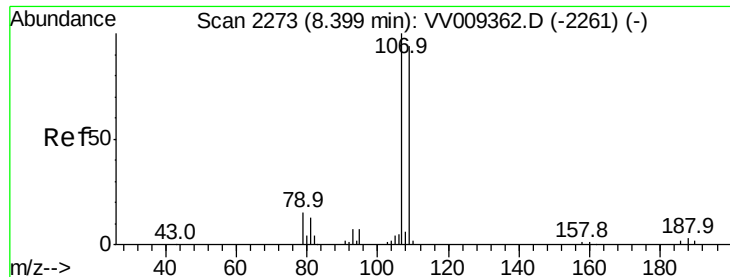
#50
Dibromochloromethane
Concen: 55.235 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 129 Resp: 140910
Ion Ratio Lower Upper
129 100
127 79.1 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): VV009363.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV009363.D (-2136) (-)

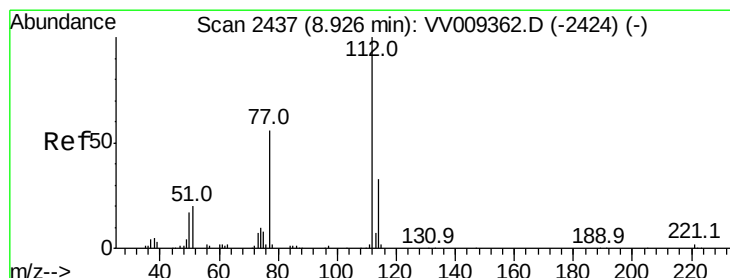
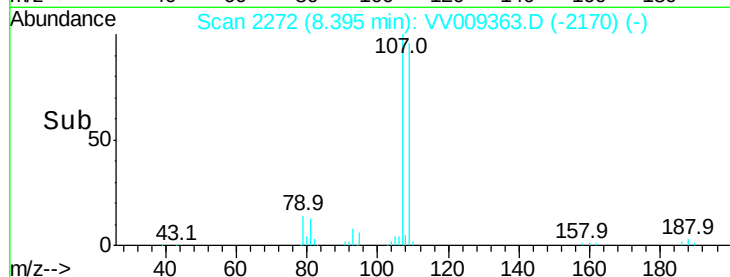
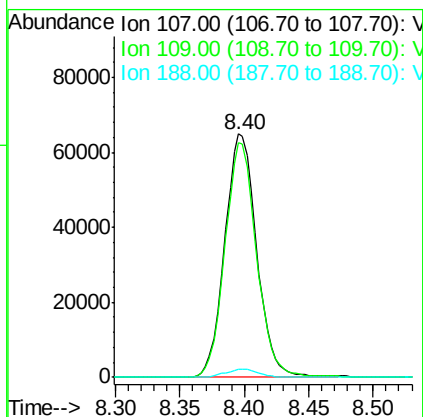
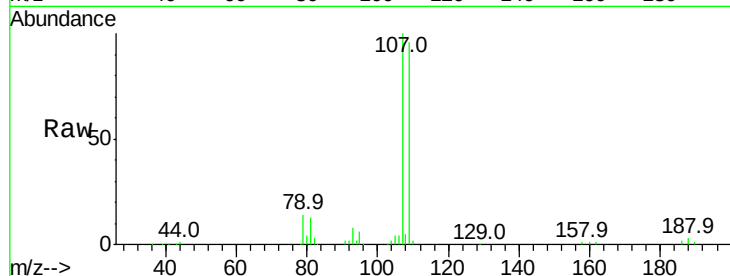




#51
 1,2-Dibromoethane
 Concen: 52.590 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

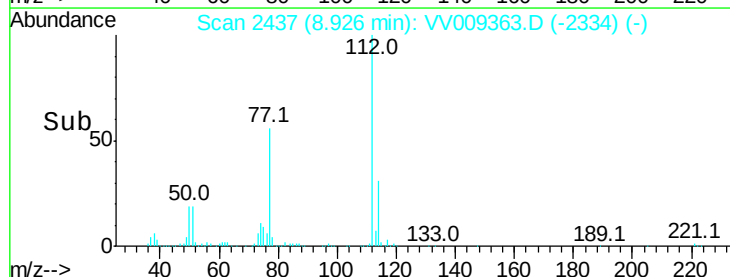
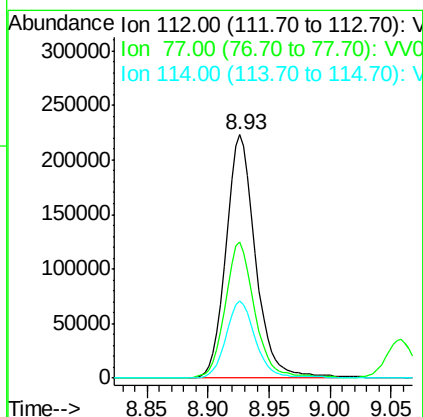
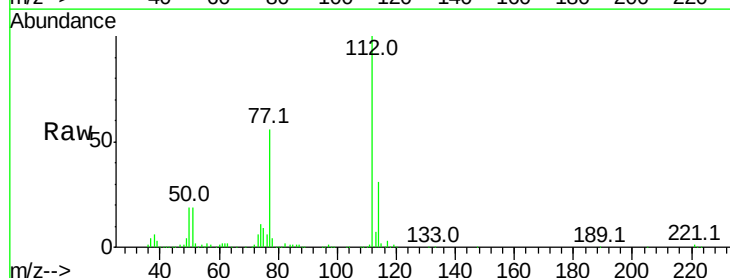
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

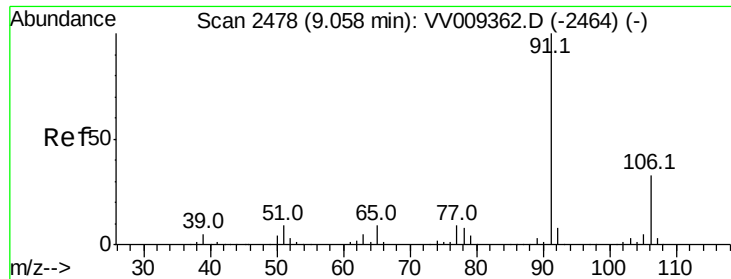
Tgt Ion:107 Resp: 111599
 Ion Ratio Lower Upper
 107 100
 109 96.3 64.5 119.9
 188 3.3 2.8 4.2



#52
 Chlorobenzene
 Concen: 53.588 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Tgt Ion:112 Resp: 378847
 Ion Ratio Lower Upper
 112 100
 77 55.8 45.0 67.4
 114 31.5 22.0 41.0

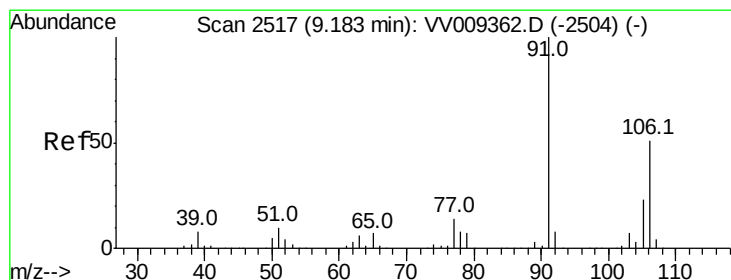
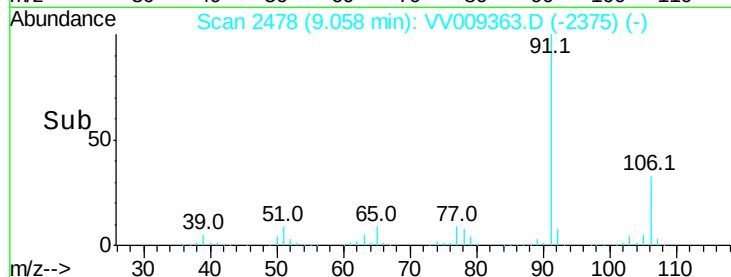
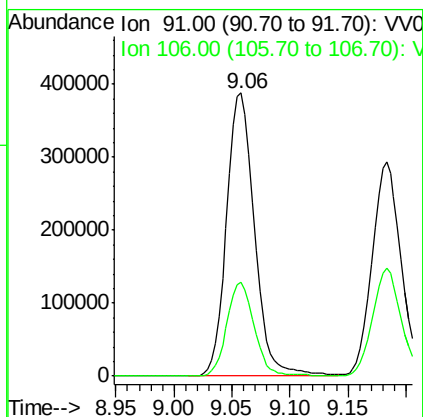
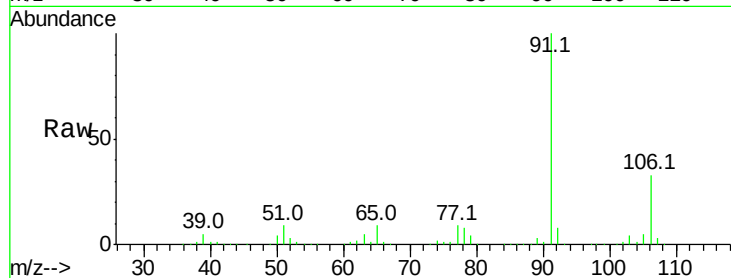




#53
Ethylbenzene
Concen: 53.050 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

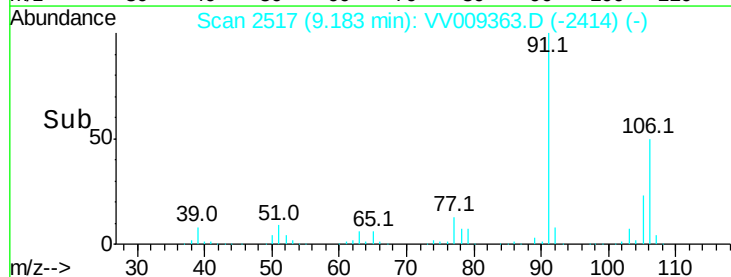
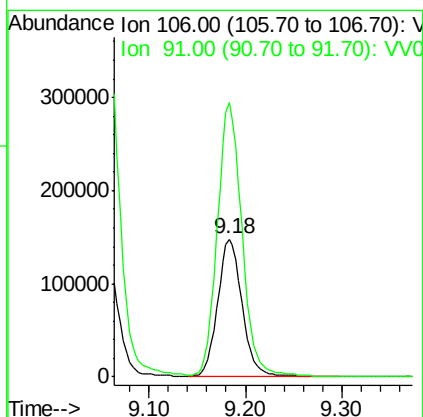
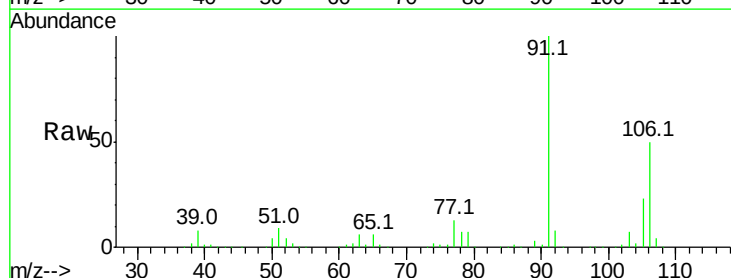
Instrument :
MSVOA_V
ClientSampleId :
VSTD05084

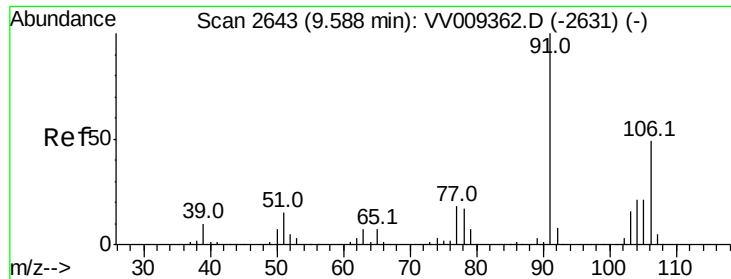
Tgt Ion: 91 Resp: 650697
Ion Ratio Lower Upper
91 100
106 33.1 22.2 41.2



#54
m,p-Xylene
Concen: 54.554 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009363.D
Acq: 26 Feb 2019 11:27

Tgt Ion: 106 Resp: 261095
Ion Ratio Lower Upper
106 100
91 198.6 141.4 262.6





#55

o-xylene

Concen: 55.627 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

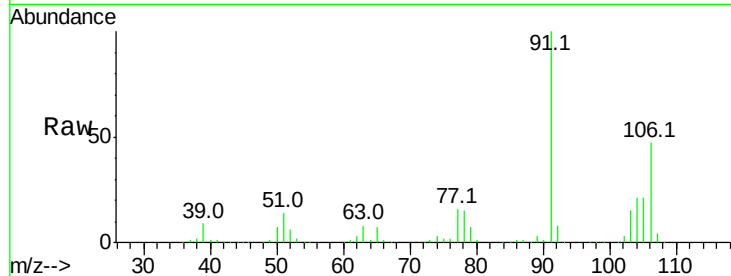
VSTD05084

Tgt Ion:106 Resp: 249890

Ion Ratio Lower Upper

106 100

91 210.8 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

300000

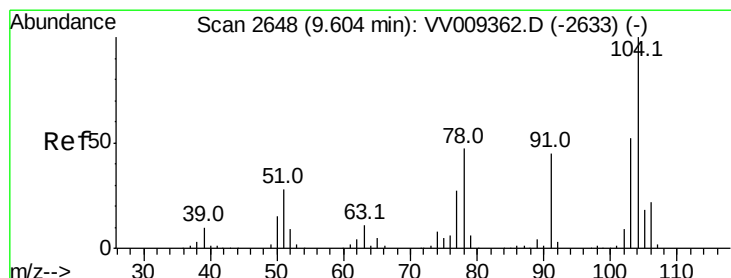
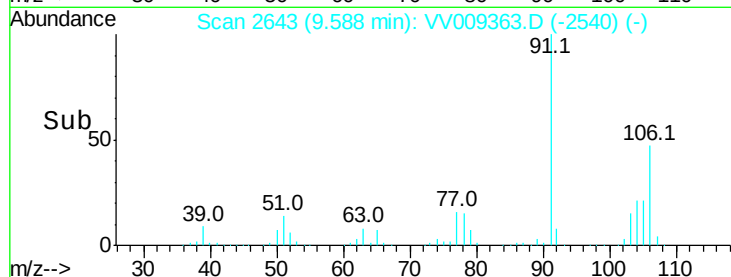
200000

100000

0

9.50 9.55 9.60 9.65 9.70

Time-->



#56

Styrene

Concen: 55.260 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009363.D

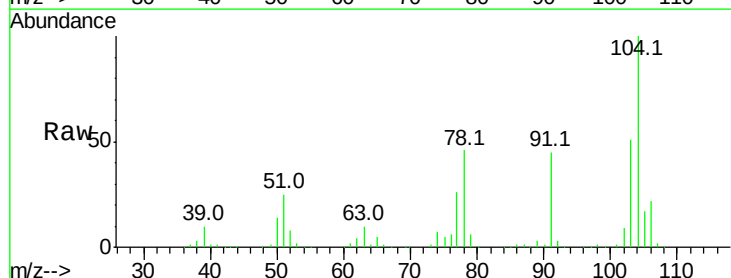
Acq: 26 Feb 2019 11:27

Tgt Ion:104 Resp: 426002

Ion Ratio Lower Upper

104 100

78 46.4 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

300000

250000

200000

150000

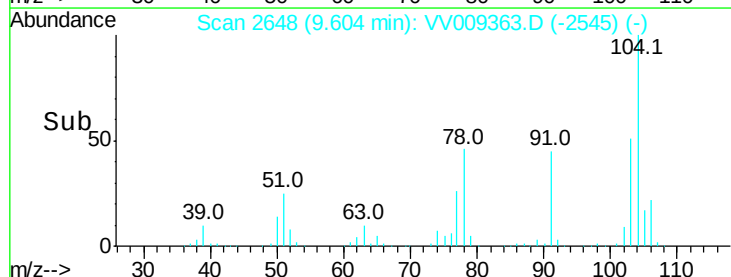
100000

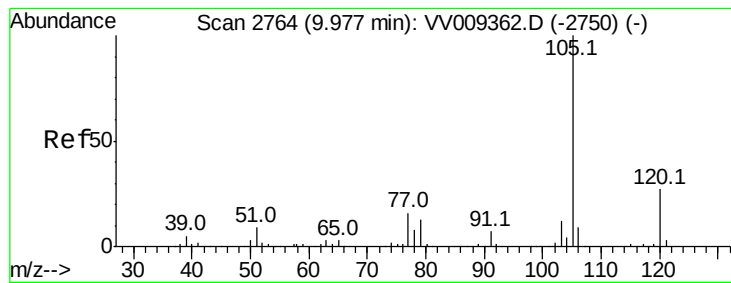
50000

0

9.50 9.60 9.70

Time-->





#57

Isopropylbenzene

Concen: 54.402 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

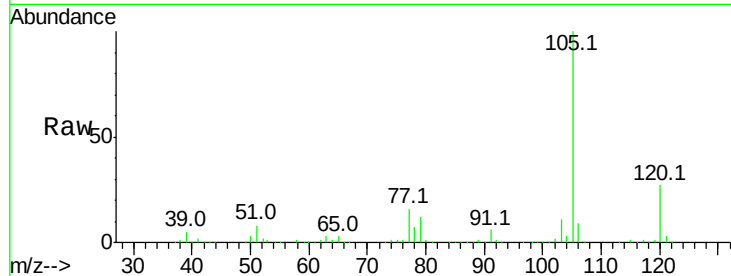
Tgt Ion:105 Resp: 676546

Ion Ratio Lower Upper

105 100

120 26.7 21.7 32.5

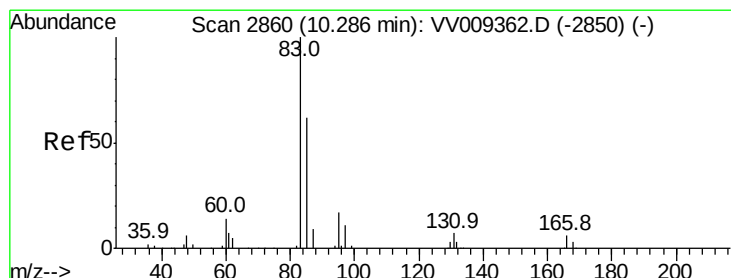
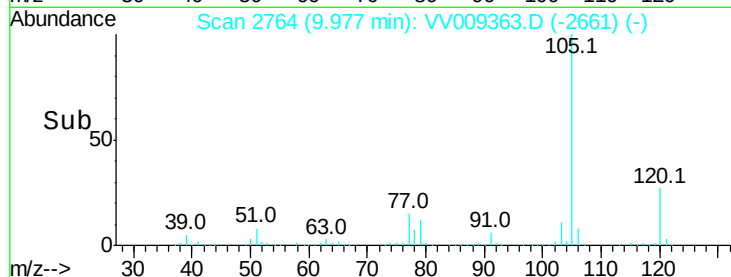
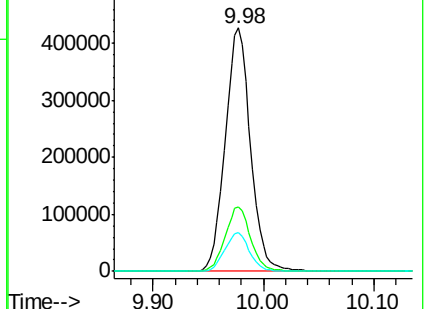
77 15.9 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.782 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

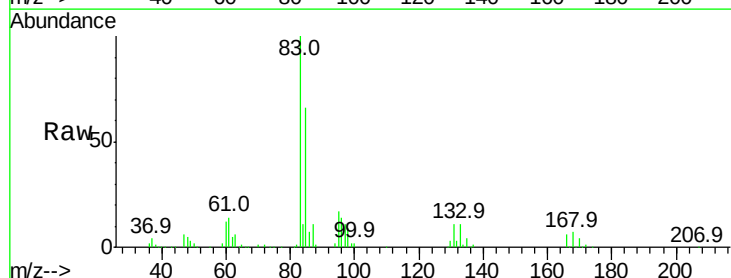
Tgt Ion: 83 Resp: 151617

Ion Ratio Lower Upper

83 100

85 66.1 44.7 83.1

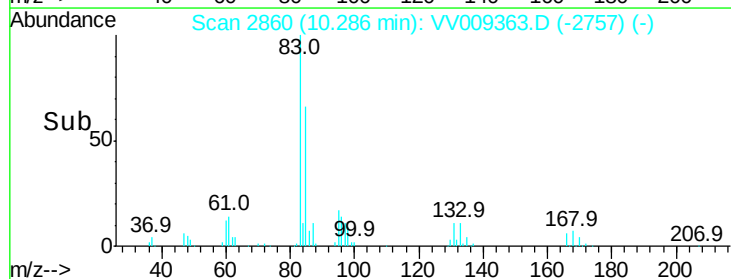
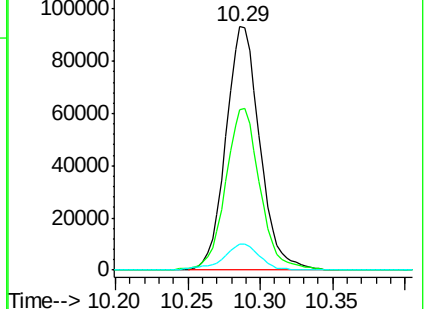
131 10.5 8.1 12.1

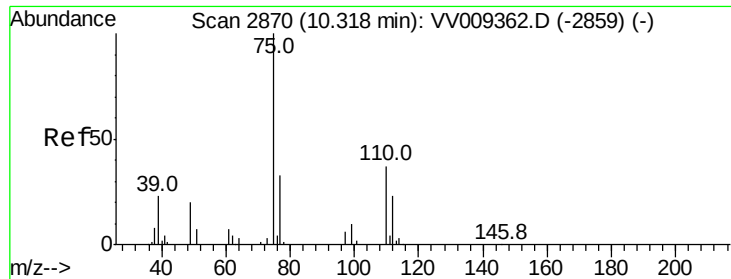


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.922 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

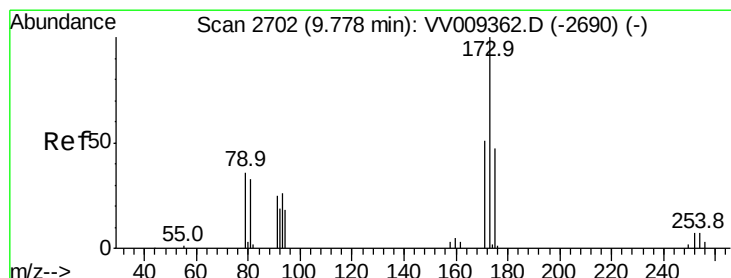
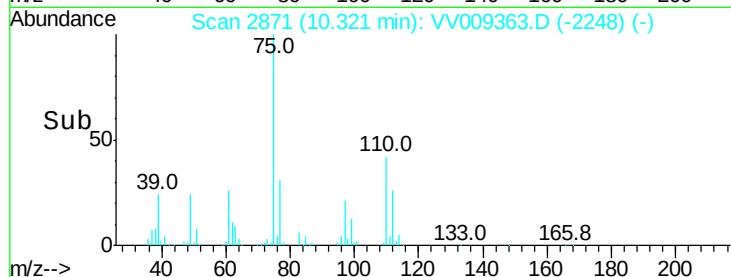
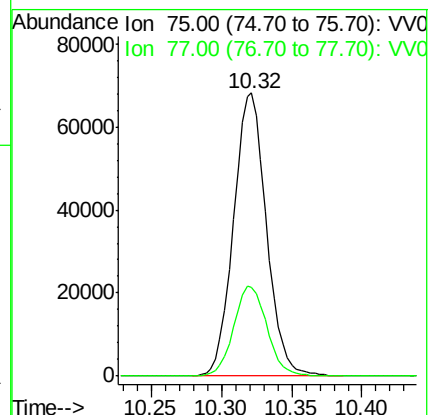
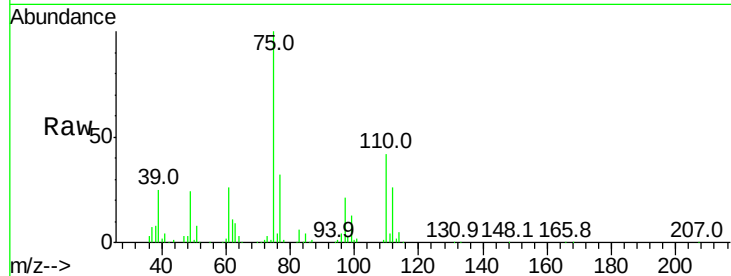
VSTD05084

Tgt Ion: 75 Resp: 111086

Ion Ratio Lower Upper

75 100

77 32.5 26.3 39.5



#62

Bromoform

Concen: 55.686 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

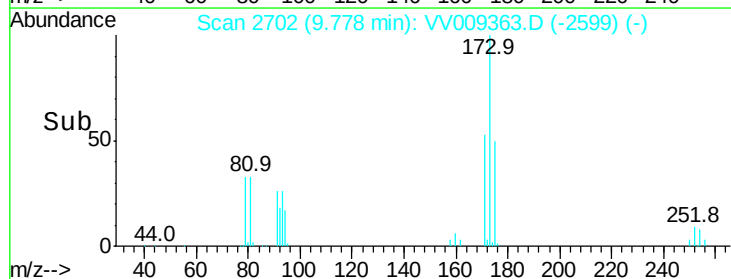
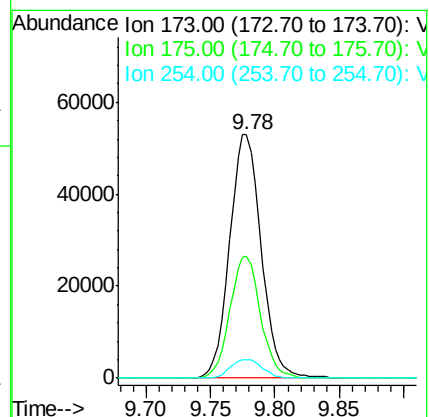
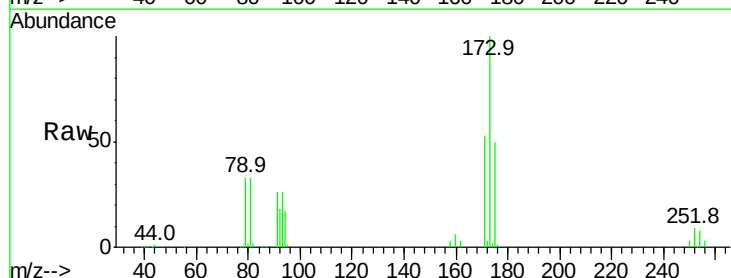
Tgt Ion: 173 Resp: 89948

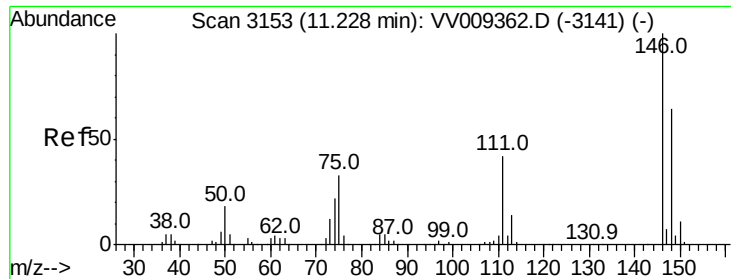
Ion Ratio Lower Upper

173 100

175 48.3 39.1 58.7

254 7.6 5.7 8.5

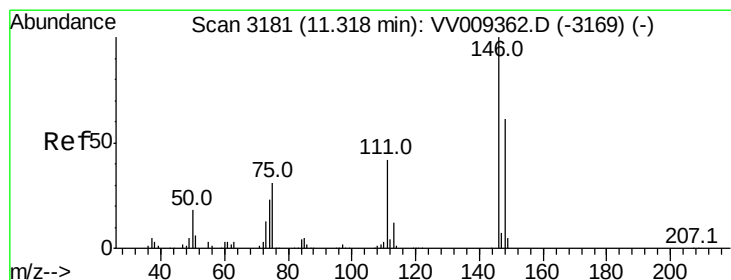
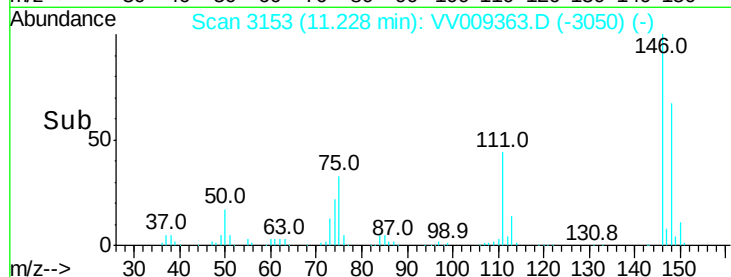
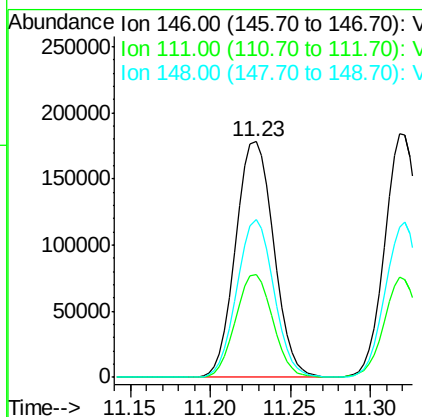
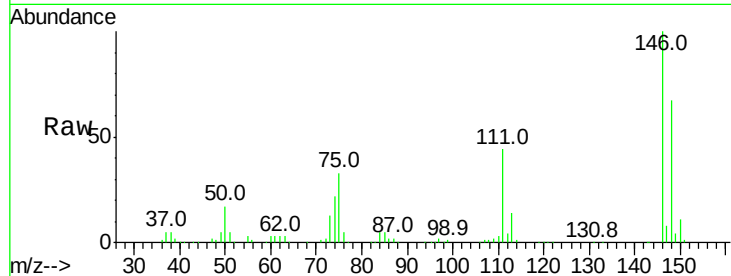




#63
 1,3-Dichlorobenzene
 Concen: 51.577 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

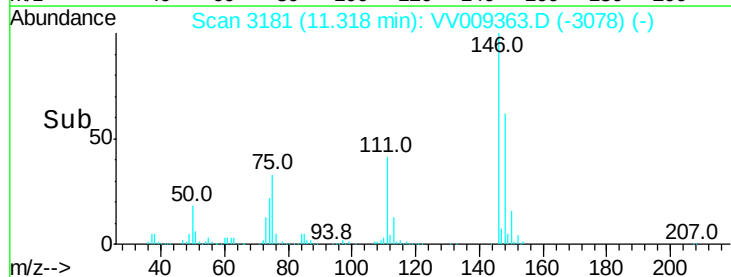
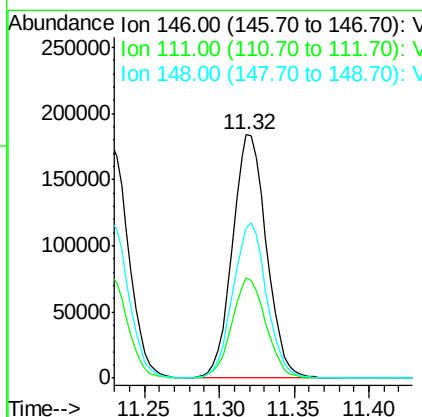
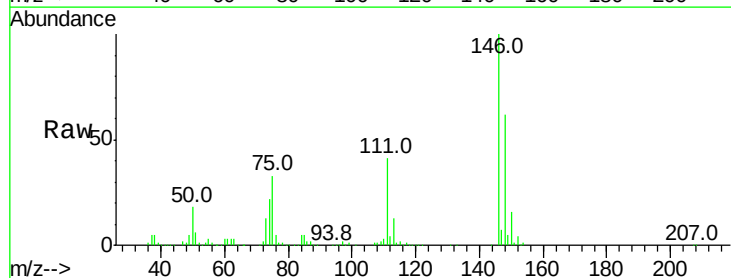
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

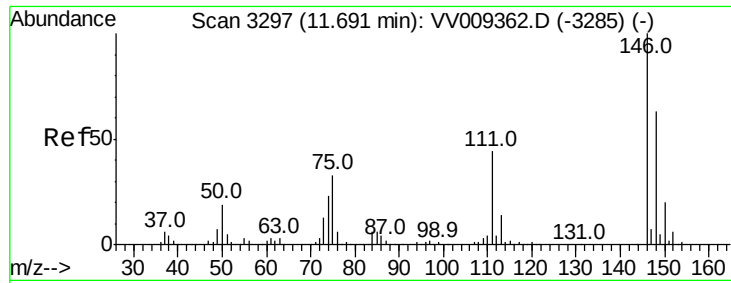
Tgt Ion:146 Resp: 289472
 Ion Ratio Lower Upper
 146 100
 111 43.6 27.6 51.4
 148 66.8 45.4 84.4



#64
 1,4-Dichlorobenzene
 Concen: 52.016 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Tgt Ion:146 Resp: 291003
 Ion Ratio Lower Upper
 146 100
 111 40.9 26.9 50.1
 148 61.9 44.1 81.9

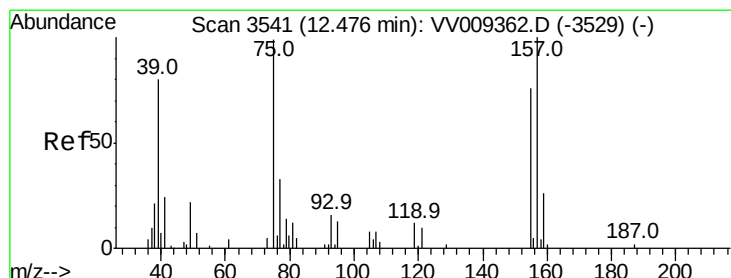
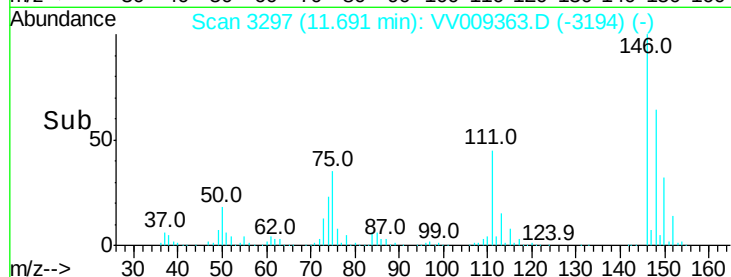
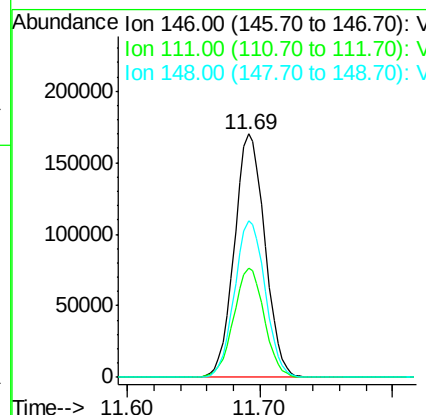
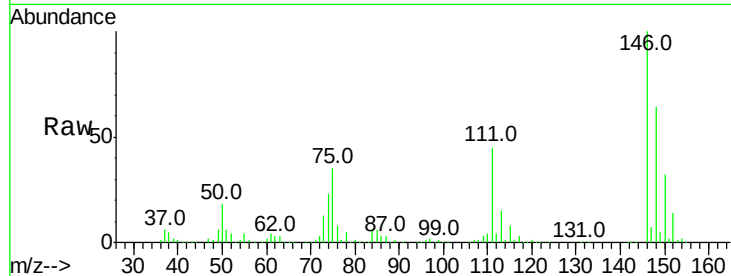




#65
 1,2-Dichlorobenzene
 Concen: 51.599 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

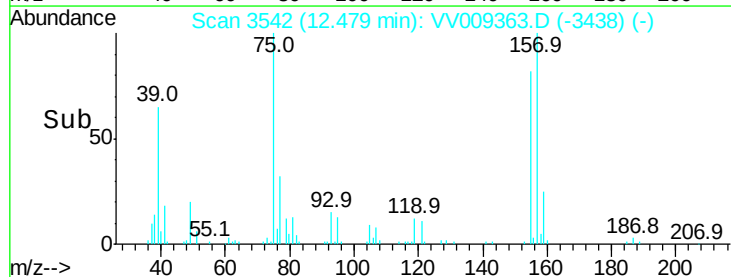
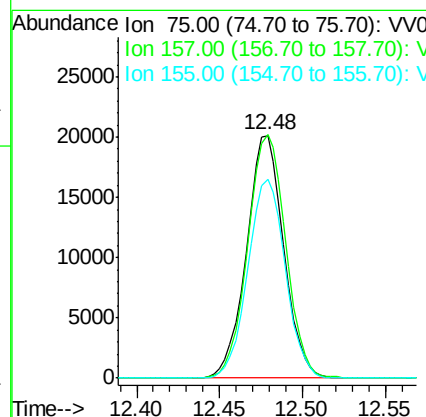
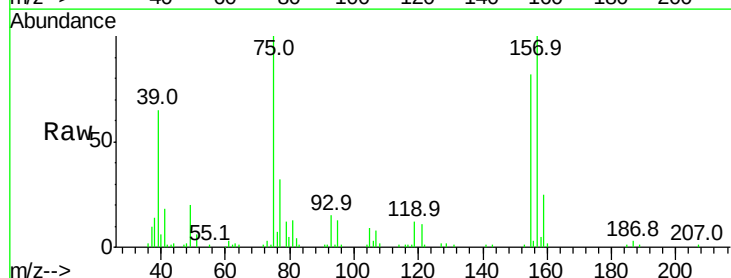
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

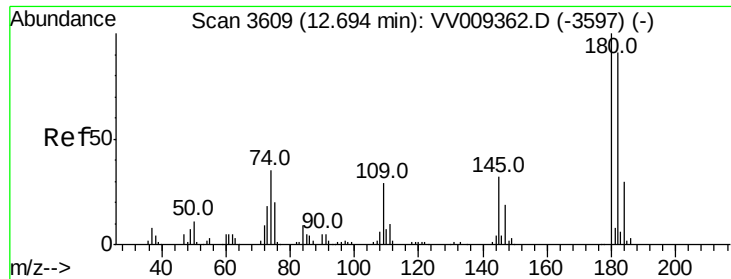
Tgt Ion: 146 Resp: 271535
 Ion Ratio Lower Upper
 146 100
 111 44.9 32.6 48.8
 148 64.4 51.1 76.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 53.553 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Tgt Ion: 75 Resp: 31298
 Ion Ratio Lower Upper
 75 100
 157 100.3 88.6 133.0
 155 81.8 66.6 100.0

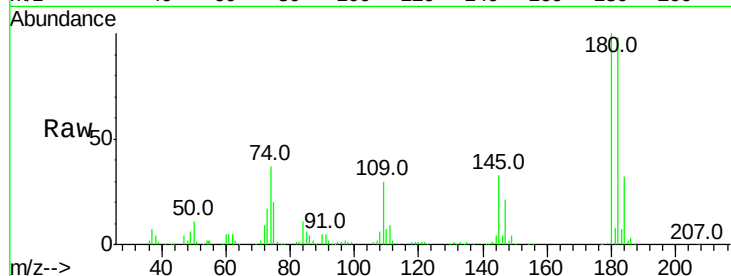




#67
 1,3,5-Trichlorobenzene
 Concen: 50.830 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05084

Tgt Ion:	180	Resp:	206426
Ion Ratio	Lower	Upper	
180	100		
182	97.0	77.4	116.2
184	30.5	24.9	37.3
145	33.5	24.3	36.5

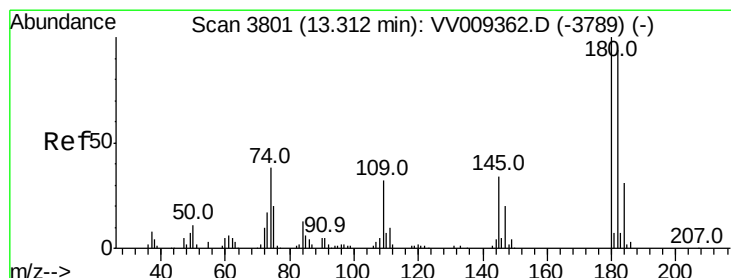
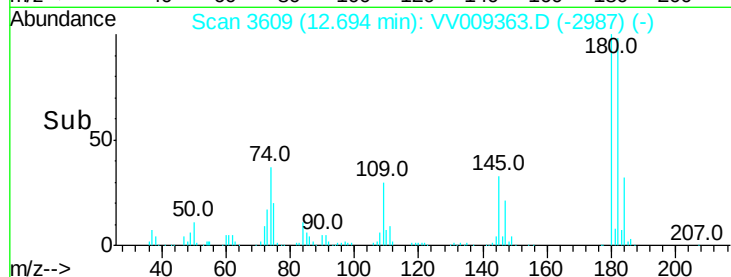
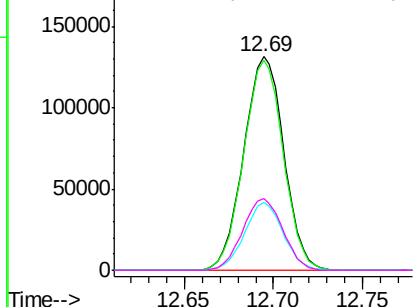


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

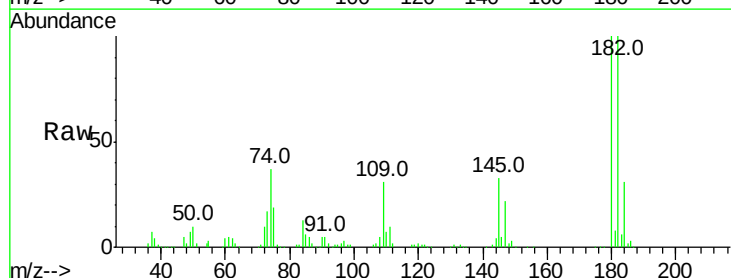
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 52.504 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009363.D
 Acq: 26 Feb 2019 11:27

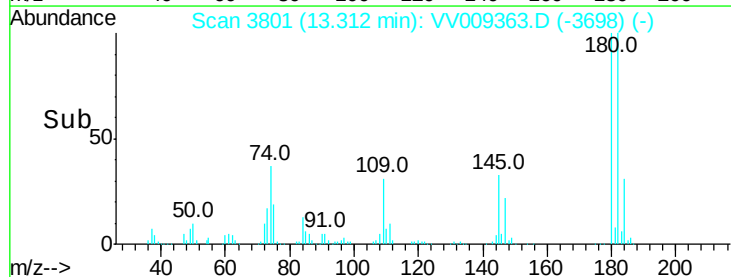
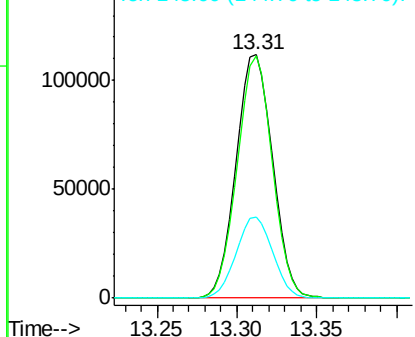
Tgt Ion:	180	Resp:	173978
Ion Ratio	Lower	Upper	
180	100		
182	95.6	76.7	115.1
145	33.4	25.1	37.7

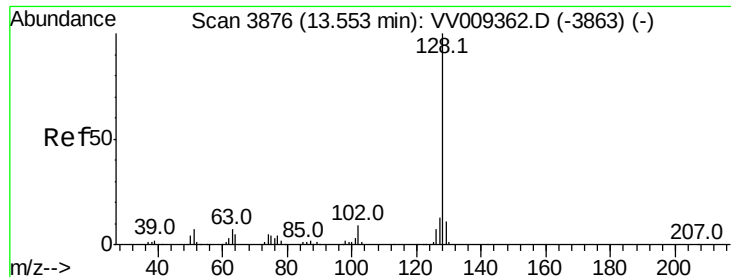


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 56.572 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

Instrument :

MSVOA_V

ClientSampleId :

VSTD05084

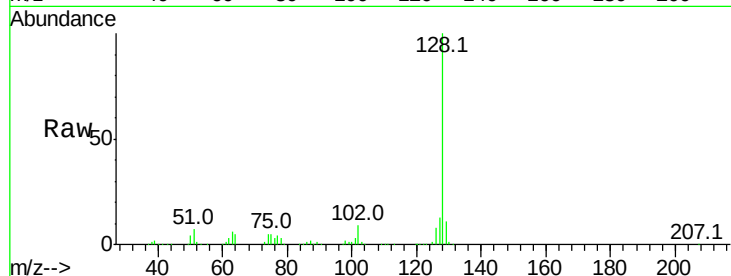
Tgt Ion:128 Resp: 401799

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

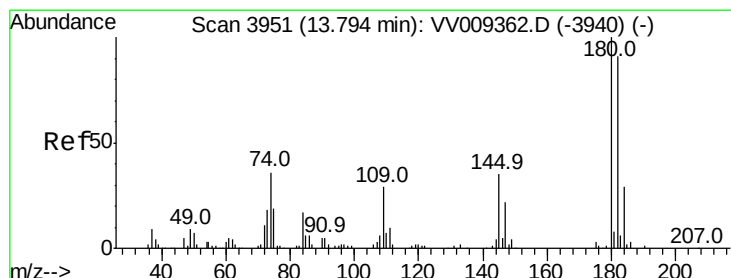
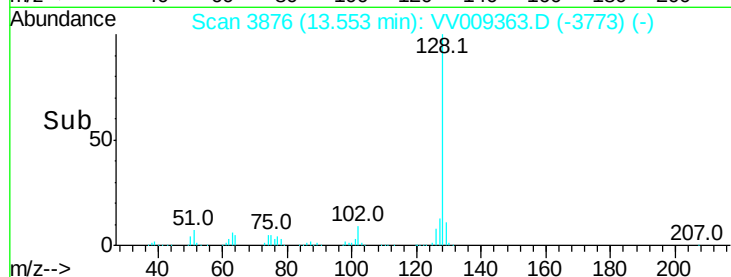
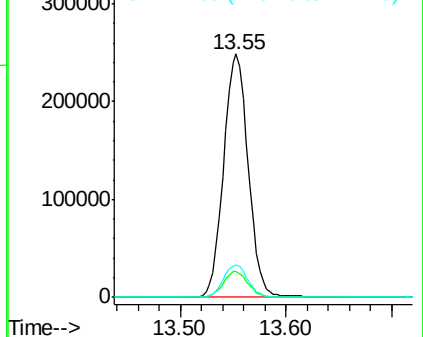
127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 52.949 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009363.D

Acq: 26 Feb 2019 11:27

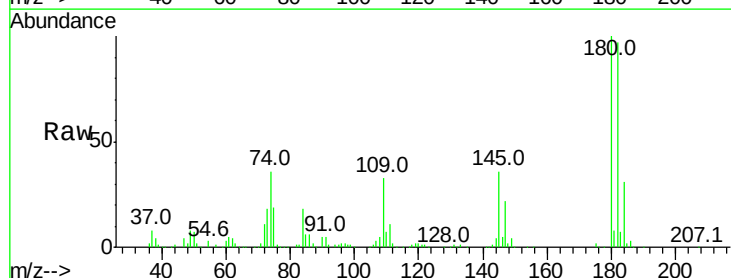
Tgt Ion:180 Resp: 161922

Ion Ratio Lower Upper

180 100

182 95.6 73.6 110.4

145 35.7 26.1 39.1



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

