

Data File : VV010048.D
Acq On : 01 Apr 2019 15:02
Operator : SY/MD
Sample : VSTD00577
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Quant Time: Apr 01 16:34:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040119S.M
Quant Title : VOC Analysis
QLast Update : Mon Apr 01 16:30:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	282477	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	276073	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	132203	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20587	3.59	ug/L	0.00
7) Chloroethane-d5	1.57	69	18717	3.02	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	51790	3.30	ug/L	0.00
20) 2-Butanone-d5	3.94	46	4347	4.07	ug/L	0.00
24) Chloroform-d	4.40	84	27940	3.88	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	20773	4.80	ug/L	0.00
29) Benzene-d6	5.10	84	72967	5.03	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	20823	4.91	ug/L	0.00
37) Toluene-d8	7.36	98	66141	4.82	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	7446	4.29	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	6815	8.61	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	18589	4.43	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	25968	5.16	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	24540	5.611 ug/L	100
3) Chloromethane	1.25	50	21463	4.247 ug/L	97
5) Vinyl chloride	1.32	62	23017	3.503 ug/L	98
6) Bromomethane	1.51	94	20830	3.178 ug/L	97
8) Chloroethane	1.59	64	15480	2.734 ug/L	94
9) Trichlorofluoromethane	1.76	101	48889	3.488 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	25870	3.176 ug/L	98
12) 1,1-Dichloroethene	2.14	96	22745	3.291 ug/L	94
13) Acetone	2.19	43	10207	6.311 ug/L	95
14) Carbon disulfide	2.31	76	44865	4.799 ug/L	99
15) Methyl Acetate	2.46	43	9220	4.867 ug/L	97
16) Methylene chloride	2.54	84	31219	6.711 ug/L	92
17) Methyl tert-butyl Ether	2.80	73	42145	4.674 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	19464	5.259 ug/L	95
19) 1,1-Dichloroethane	3.23	63	31417	4.641 ug/L	99
21) 2-Butanone	4.02	43	9991	6.937 ug/L	87
22) cis-1,2-Dichloroethene	3.96	96	19111	4.676 ug/L	91
23) Bromochloromethane	4.30	128	9448	5.007 ug/L	99
25) Chloroform	4.43	83	42275	5.649 ug/L	97
27) 1,2-Dichloroethane	5.18	62	22385	4.222 ug/L #	89
30) Cyclohexane	4.73	56	25501	4.581 ug/L	94
31) 1,1,1-Trichloroethane	4.65	97	16710	3.024 ug/L #	44
32) Carbon tetrachloride	4.87	117	26891	5.600 ug/L	97
34) Benzene	5.15	78	72013	4.750 ug/L	100
35) Trichloroethene	5.96	95	20556	5.140 ug/L	98
36) Methylcyclohexane	6.18	83	32932	5.249 ug/L	99
40) 1,2-Dichloropropane	6.22	63	17860	4.715 ug/L #	95
41) Bromodichloromethane	6.56	83	21140	4.487 ug/L #	95
42) cis-1,3-Dichloropropene	7.07	75	22860	4.139 ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	23723	8.775 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Mon Apr 01 16:30:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	80494	4.816	ug/L	98
45) trans-1,3-Dichloropropene	7.70	75	18658	4.127	ug/L	86
46) 1,1,2-Trichloroethane	7.88	97	15108	4.822	ug/L	95
47) Tetrachloroethene	8.02	164	17086	5.415	ug/L	97
49) 2-Hexanone	8.18	43	13971	7.647	ug/L	94
50) Dibromochloromethane	8.29	129	16243	5.000	ug/L	95
51) 1,2-Dibromoethane	8.40	107	14783	4.859	ug/L #	94
52) Chlorobenzene	8.93	112	53138	4.776	ug/L	94
53) Ethylbenzene	9.06	91	85476	4.636	ug/L	98
54) m,p-Xylene	9.18	106	33690	4.653	ug/L	97
55) o-xylene	9.59	106	31475	4.478	ug/L	100
56) Styrene	9.60	104	50500	4.183	ug/L	97
57) Isopropylbenzene	9.97	105	84255	4.621	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	18625	4.410	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	14250	4.675	ug/L	99
62) Bromoform	9.78	173	7990	4.699	ug/L #	97
63) 1,3-Dichlorobenzene	11.23	146	40204	4.917	ug/L	97
64) 1,4-Dichlorobenzene	11.32	146	43102	4.850	ug/L	93
65) 1,2-Dichlorobenzene	11.69	146	39489	4.893	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	2074	4.112	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	30334	5.224	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	17537	4.094	ug/L	97
69) Naphthalene	13.55	128	20000	2.809	ug/L	96
70) 1,2,3-Trichlorobenzene	13.80	180	16242	3.988	ug/L	99

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

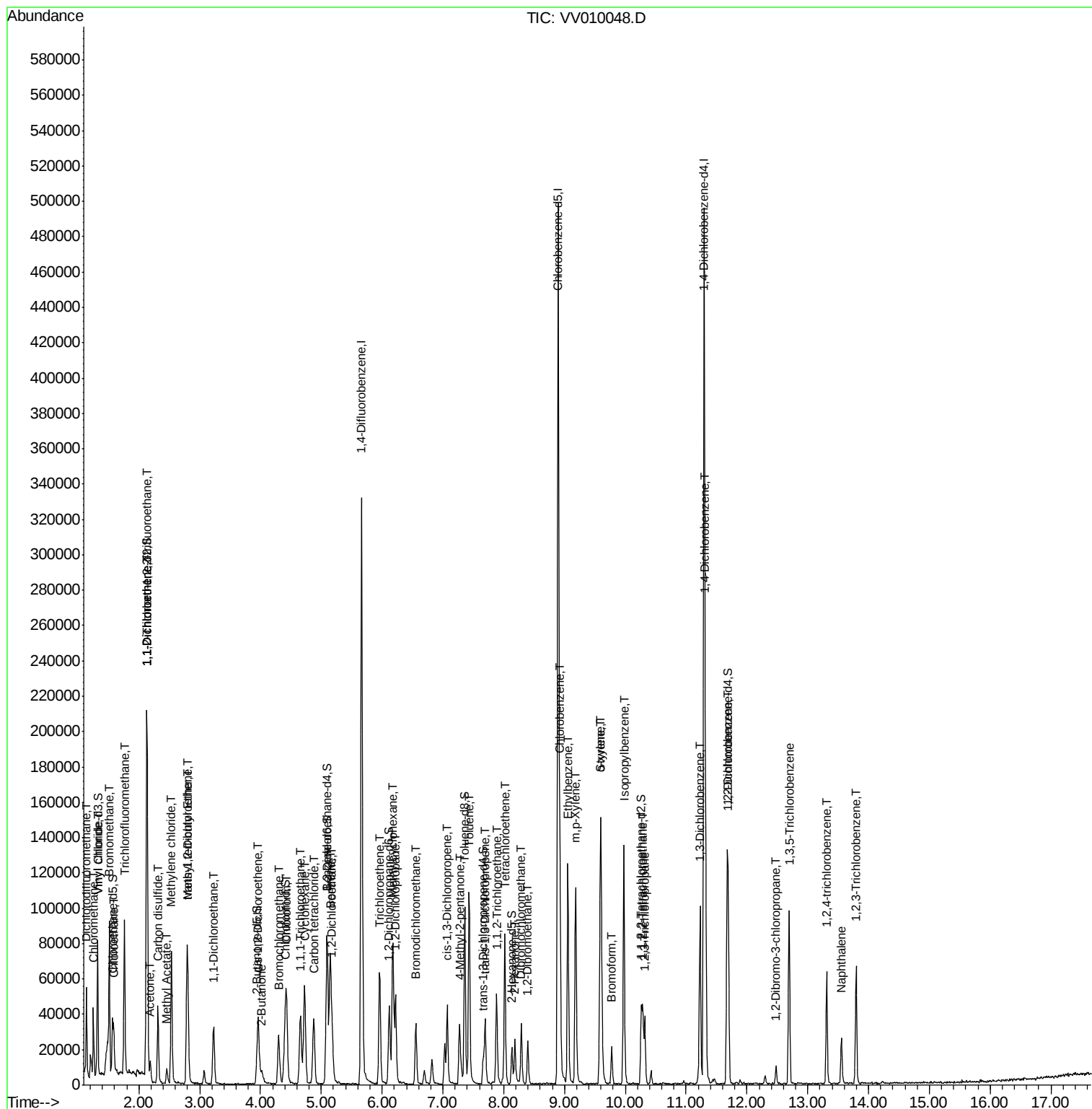
Quant Time: Apr 01 16:34:54 2019

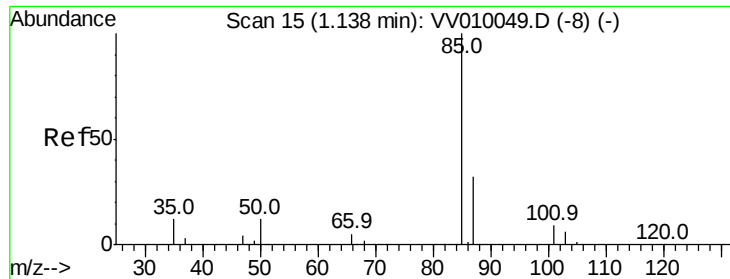
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM040119S.M

Quant Title : VOC Analysis

QLast Update : Mon Apr 01 16:30:50 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.611 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

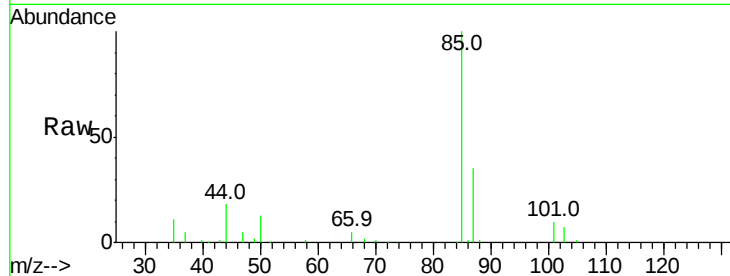
VSTD00562

Tgt Ion: 85 Resp: 24540

Ion Ratio Lower Upper

85 100

87 32.5 22.6 42.0



Abundance Ion 85.00 (84.70 to 85.70): VV010048.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010048.D (-8) (-)

1.14

25000

20000

15000

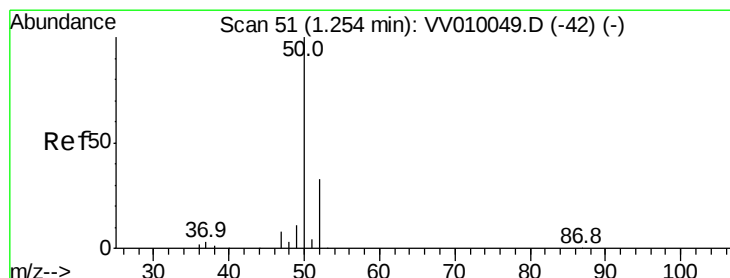
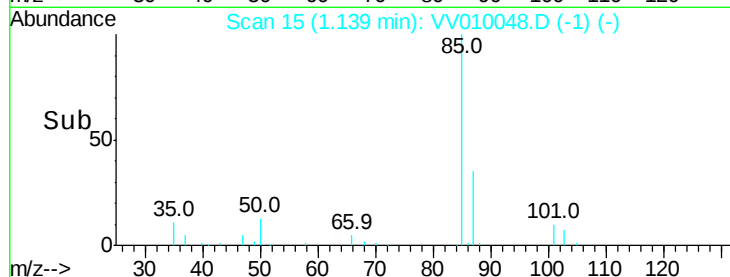
10000

5000

0

Time-->

1.10 1.15



#3

Chloromethane

Concen: 4.247 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010048.D

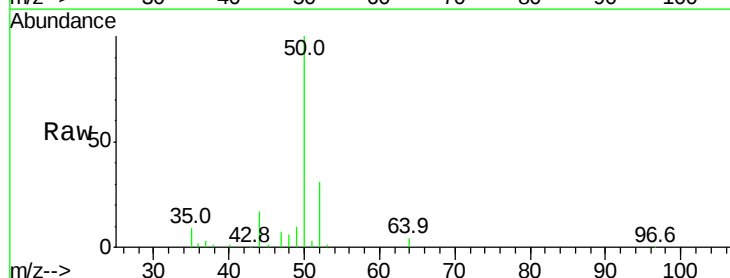
Acq: 01 Apr 2019 15:02

Tgt Ion: 50 Resp: 21463

Ion Ratio Lower Upper

50 100

52 31.0 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV010048.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV010048.D (-42) (-)

1.25

25000

20000

15000

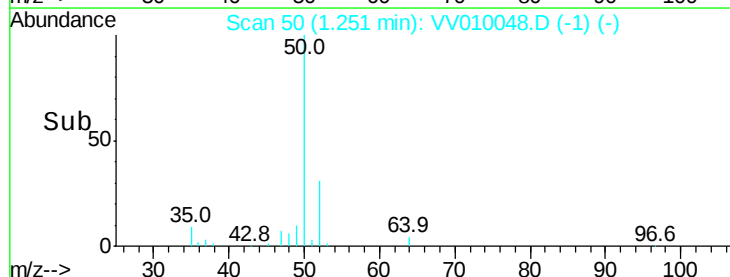
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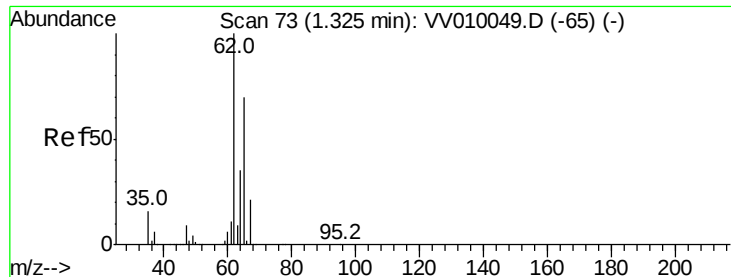
5000

0

Time-->

1.22 1.24 1.26 1.28





#5

Vinyl chloride

Concen: 3.503 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

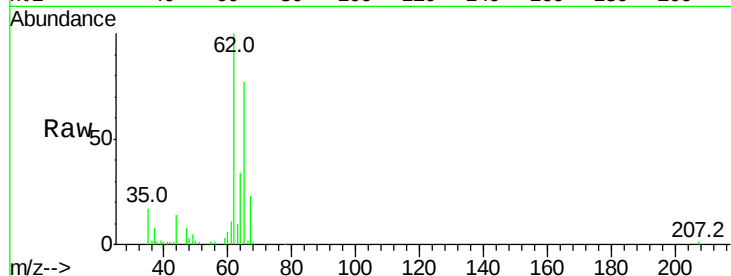
VSTD00562

Tgt Ion: 62 Resp: 23017

Ion Ratio Lower Upper

62 100

64 34.2 24.8 46.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

25000

20000

15000

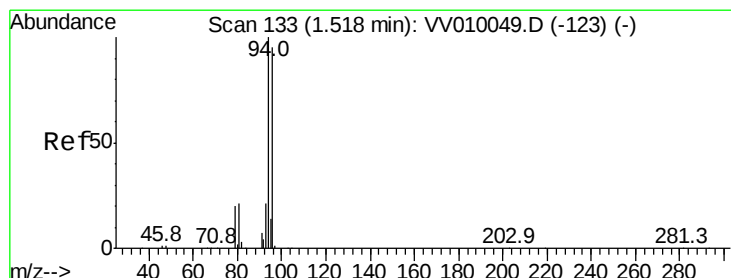
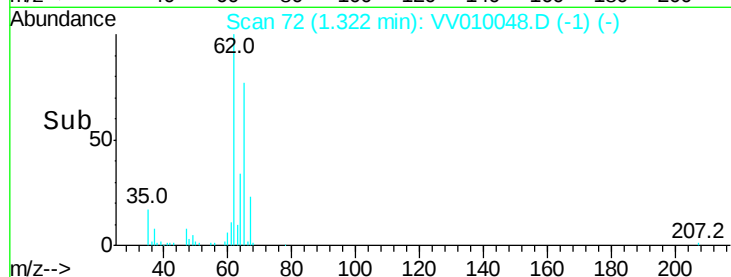
10000

5000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 3.178 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV010048.D

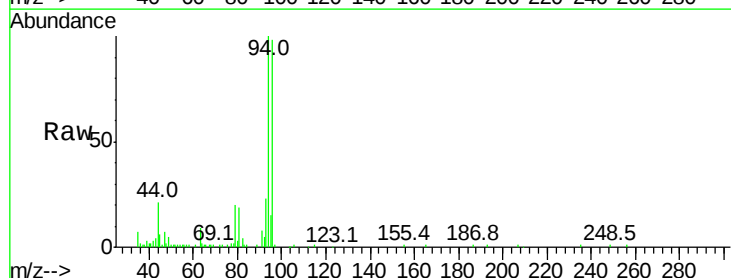
Acq: 01 Apr 2019 15:02

Tgt Ion: 94 Resp: 20830

Ion Ratio Lower Upper

94 100

96 97.1 9.4 179.5



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

25000

20000

15000

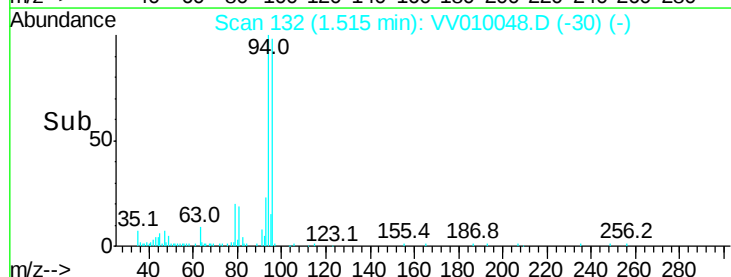
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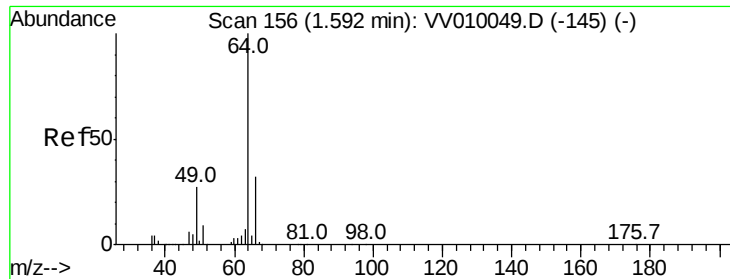
5000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 2.734 ug/L

RT: 1.59 min Scan# 154

Delta R.T. -0.01 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

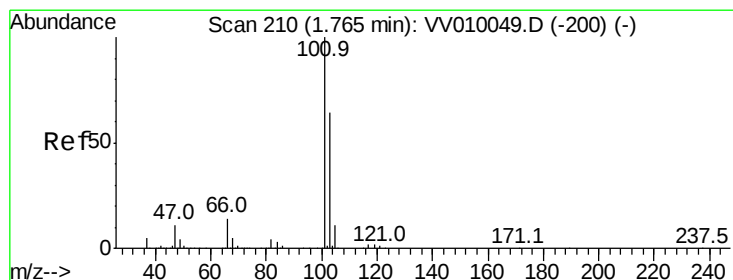
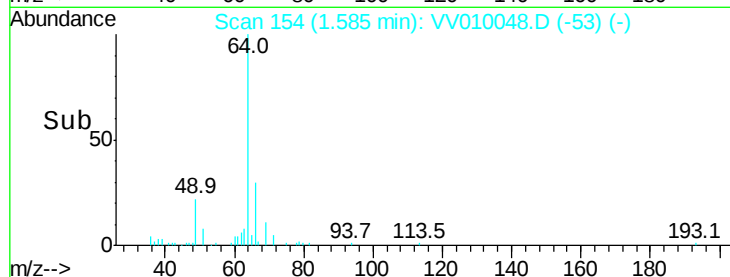
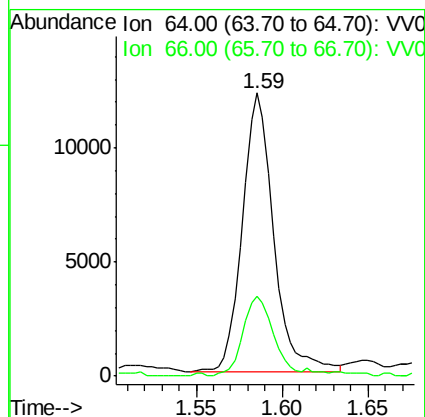
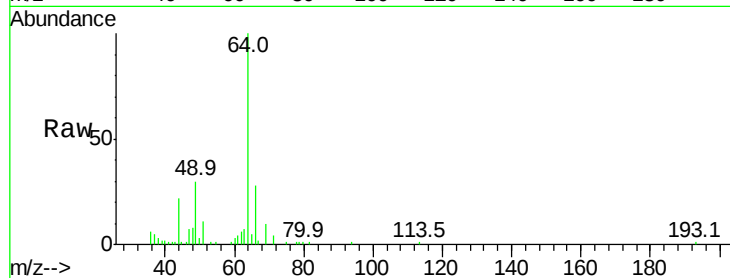
VSTD00562

Tgt Ion: 64 Resp: 15480

Ion Ratio Lower Upper

64 100

66 28.3 22.1 41.1



#9

Trichlorofluoromethane

Concen: 3.488 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV010048.D

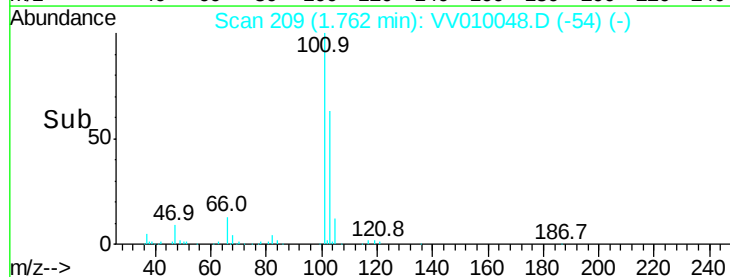
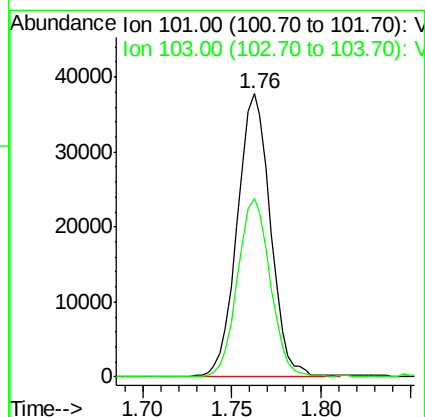
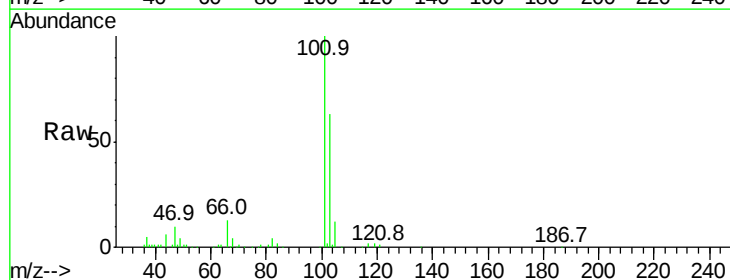
Acq: 01 Apr 2019 15:02

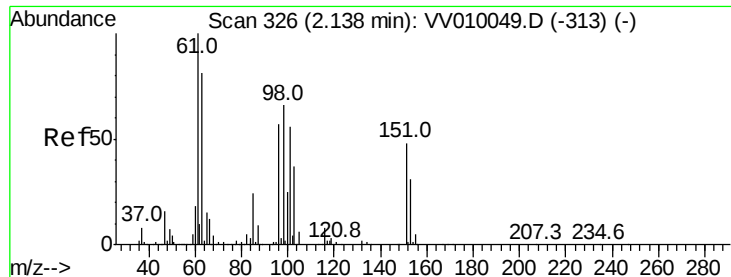
Tgt Ion: 101 Resp: 48889

Ion Ratio Lower Upper

101 100

103 62.2 45.1 83.9





#11

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

Concen: 3.176 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

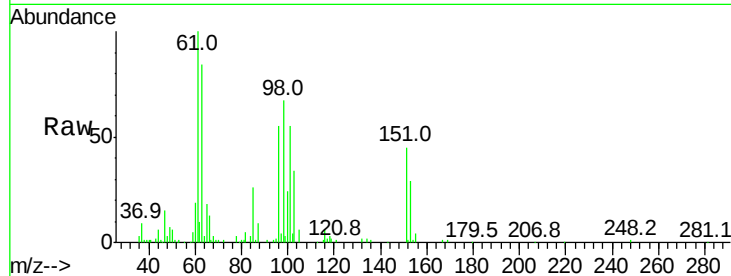
Tgt Ion: 101 Resp: 25870

Ion Ratio Lower Upper

101 100

85 49.2 37.0 55.4

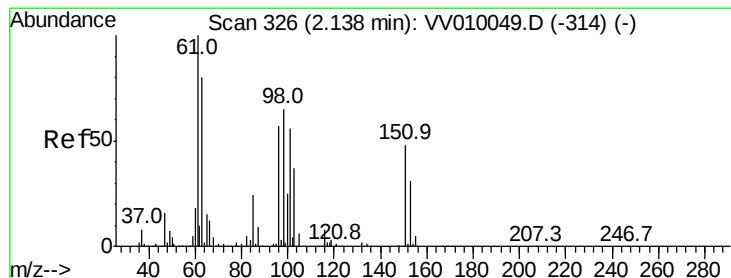
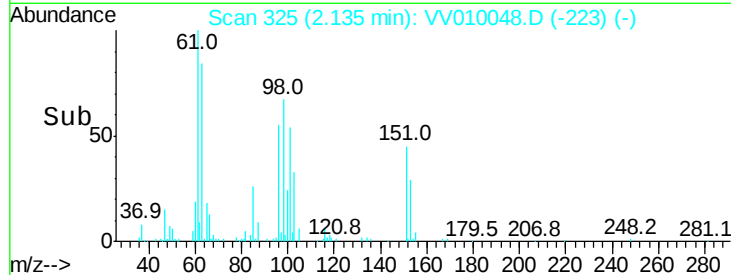
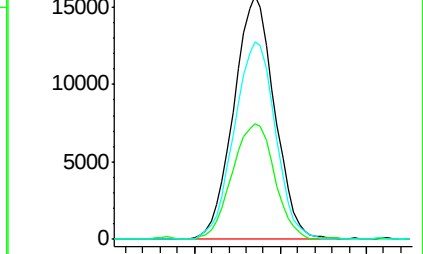
151 81.8 66.4 99.6



Abundance Ion 101.00 (100.70 to 101.70): VV010049.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV010049.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV010049.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 3.291 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

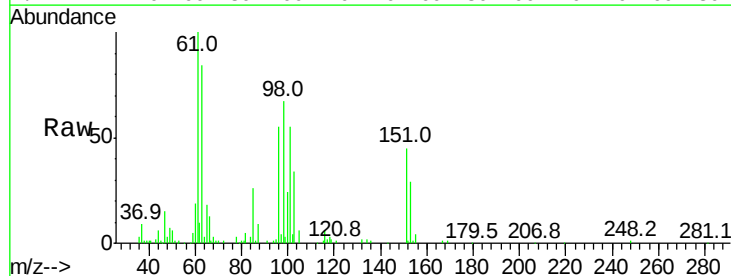
Tgt Ion: 96 Resp: 22745

Ion Ratio Lower Upper

96 100

61 182.4 123.5 229.3

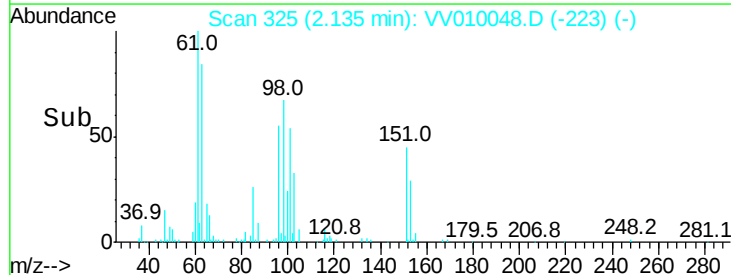
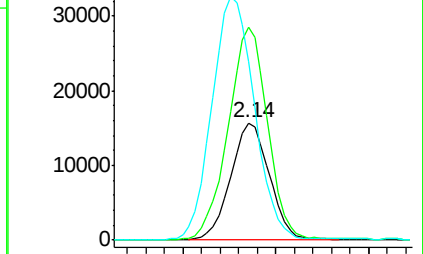
63 152.5 100.1 185.9

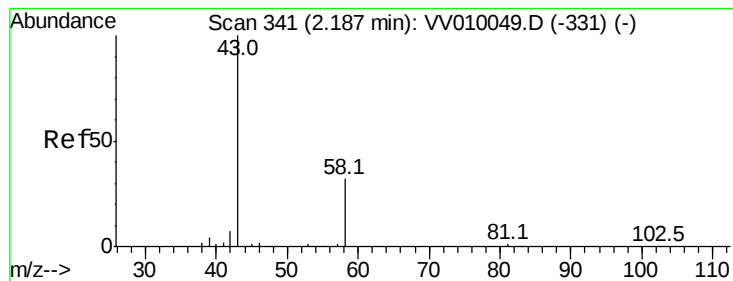


Abundance Ion 96.00 (95.70 to 96.70): VV010048.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV010048.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV010048.D (-223) (-)





#13

Acetone

Concen: 6.311 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

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ClientSampleId :

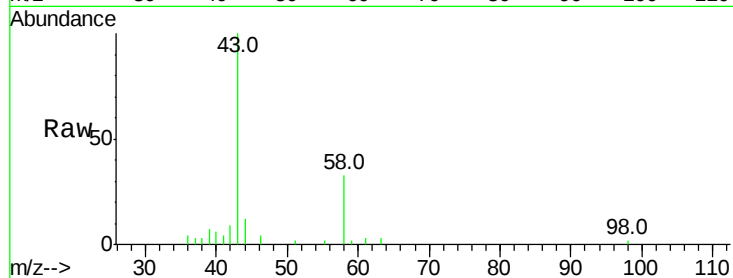
VSTD00562

Tgt Ion: 43 Resp: 10207

Ion Ratio Lower Upper

43 100

58 34.4 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

8000

6000

4000

2000

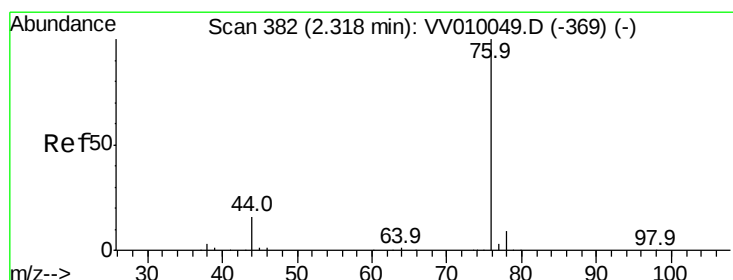
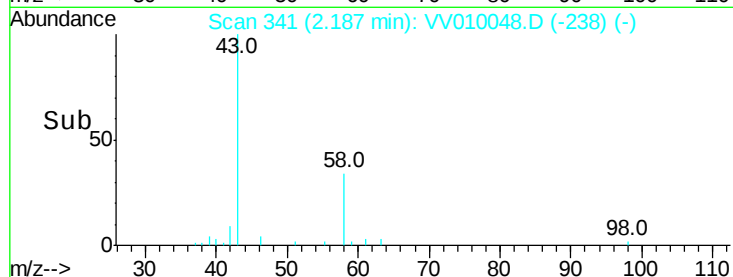
0

Time-->

2.15

2.20

2.25



#14

Carbon disulfide

Concen: 4.799 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.01 min

Lab File: VV010048.D

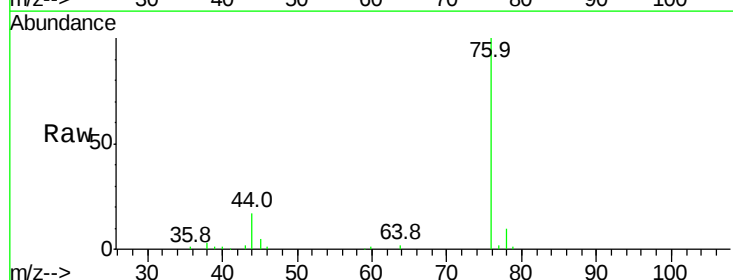
Acq: 01 Apr 2019 15:02

Tgt Ion: 76 Resp: 44865

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

30000

20000

10000

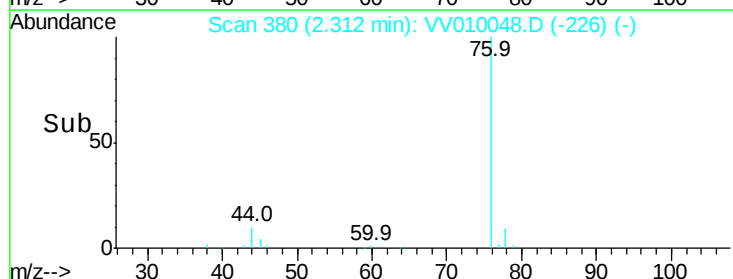
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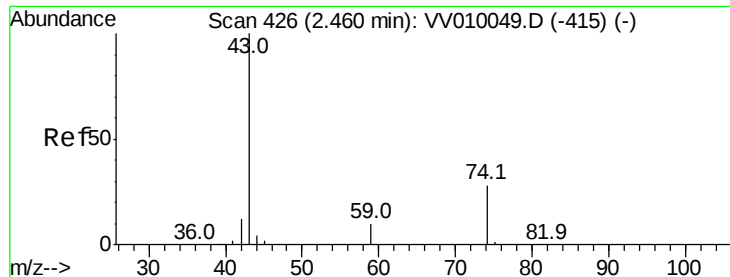
Time-->

2.25

2.30

2.35

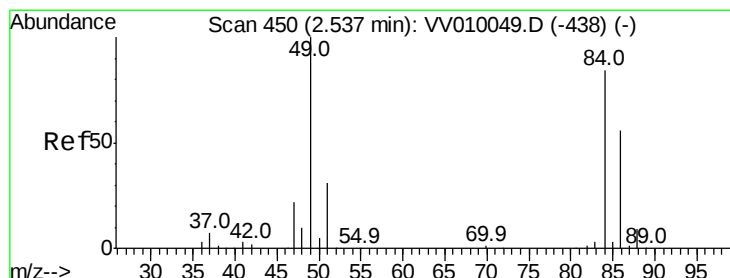
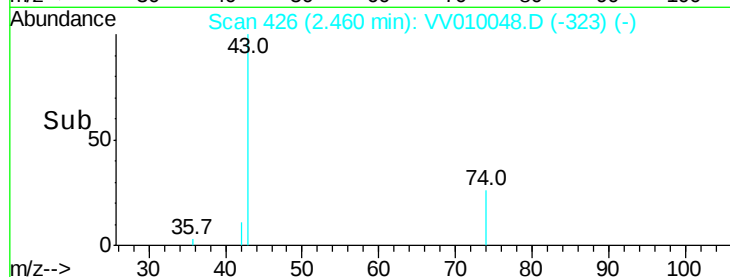
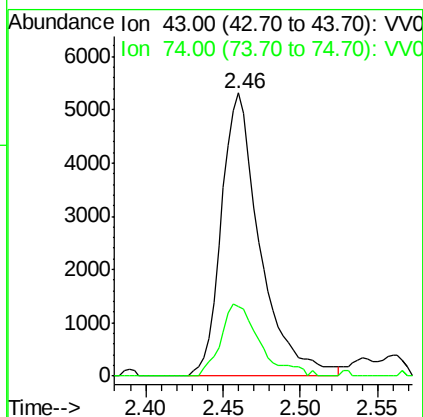
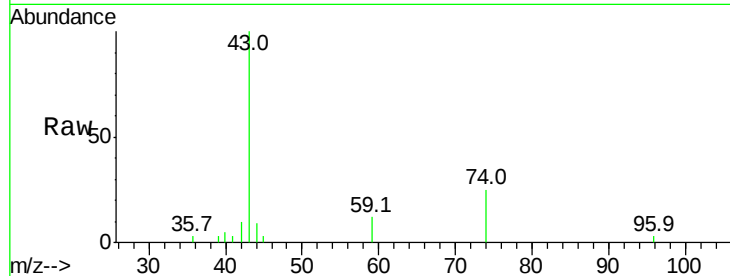




#15
Methyl Acetate
Concen: 4.867 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

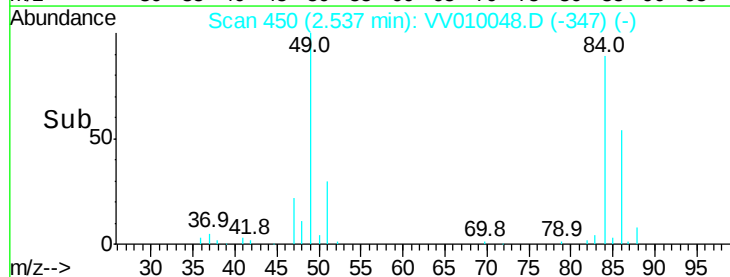
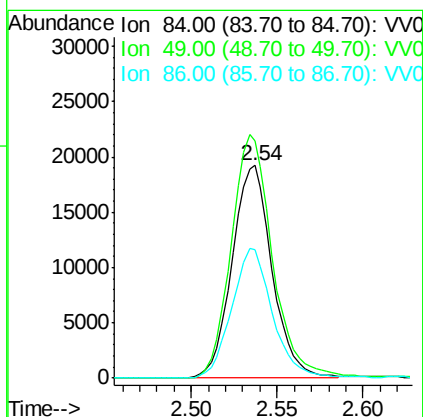
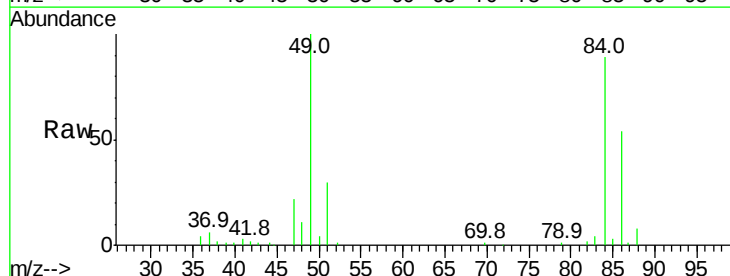
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

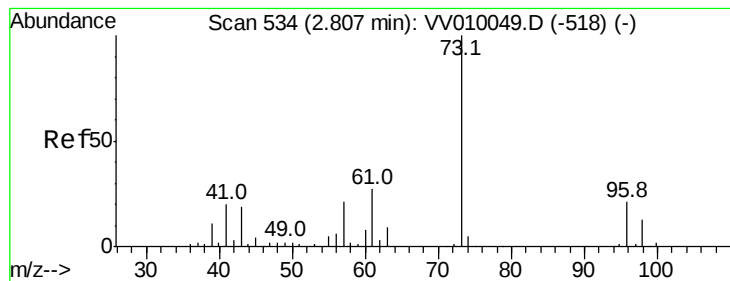
Tgt Ion: 43 Resp: 9220
Ion Ratio Lower Upper
43 100
74 25.3 21.5 32.3



#16
Methylene chloride
Concen: 6.711 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

Tgt Ion: 84 Resp: 31219
Ion Ratio Lower Upper
84 100
49 111.8 83.7 155.5
86 60.1 47.1 87.5





#17

Methyl tert-butyl Ether

Concen: 4.674 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampled :

VSTD00562

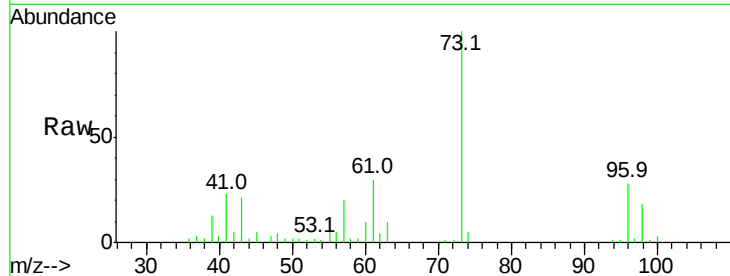
Tgt Ion: 73 Resp: 42145

Ion Ratio Lower Upper

73 100

43 21.4 15.8 23.6

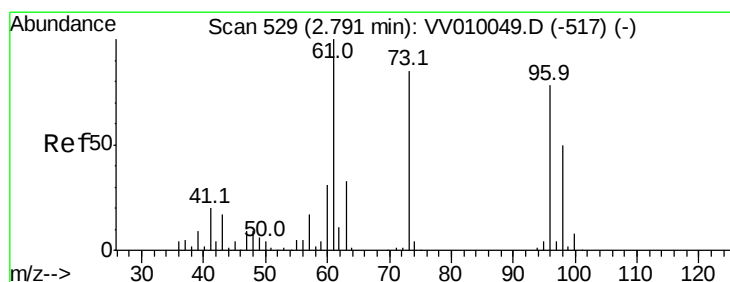
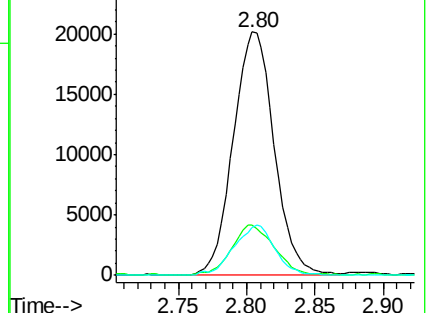
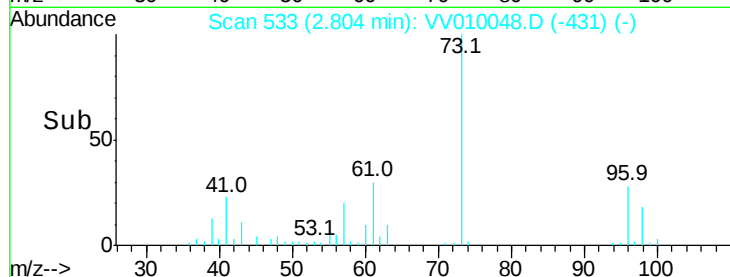
57 19.2 16.2 24.4



Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



#18

trans-1,2-Dichloroethene

Concen: 5.259 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

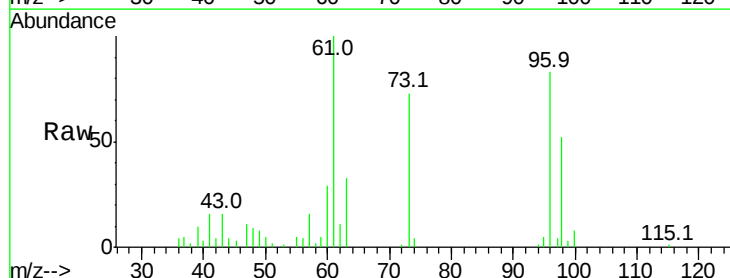
Tgt Ion: 96 Resp: 19464

Ion Ratio Lower Upper

96 100

61 120.8 90.4 168.0

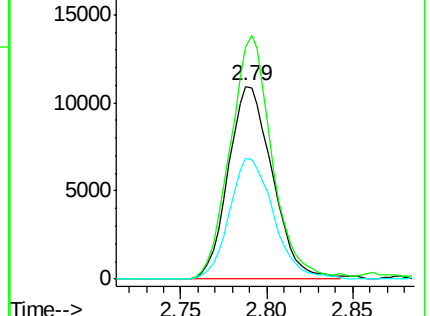
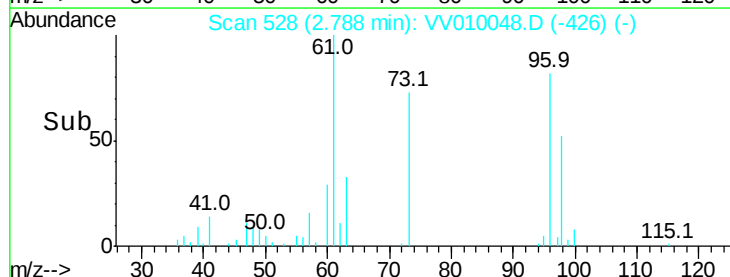
98 62.6 44.9 83.3

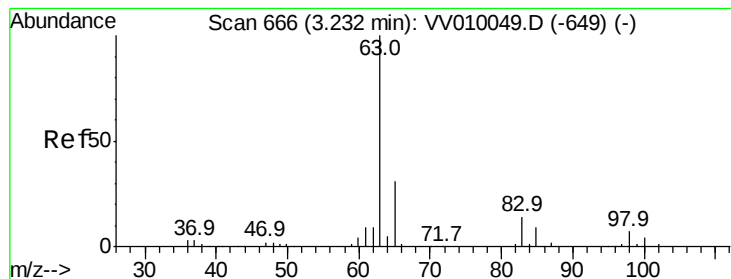


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

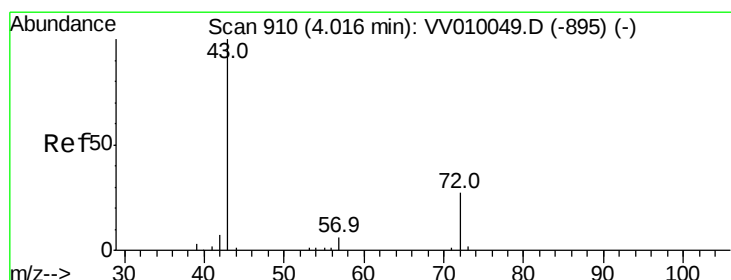
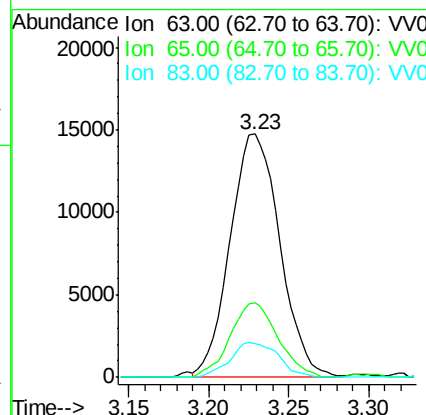
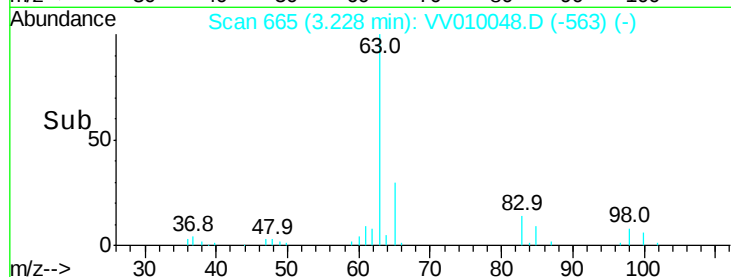
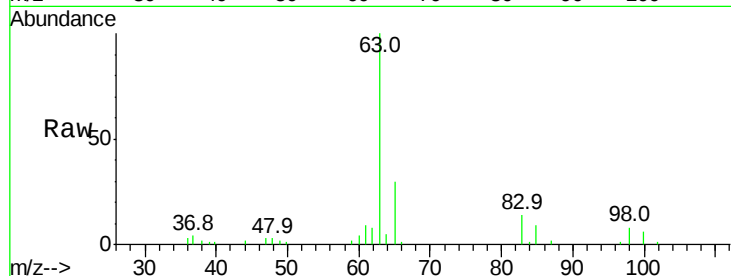




#19
 1,1-Dichloroethane
 Concen: 4.641 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

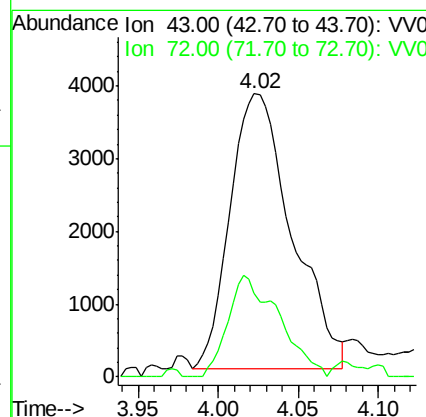
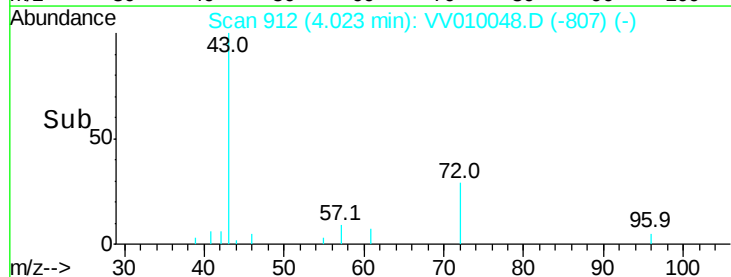
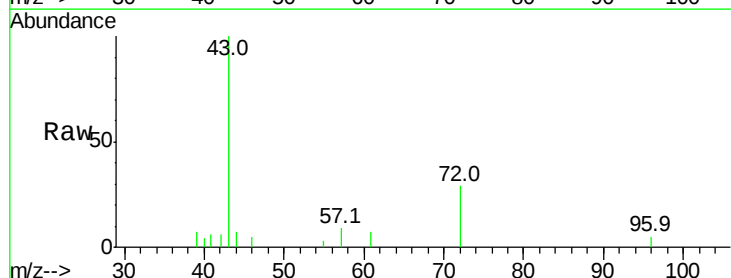
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

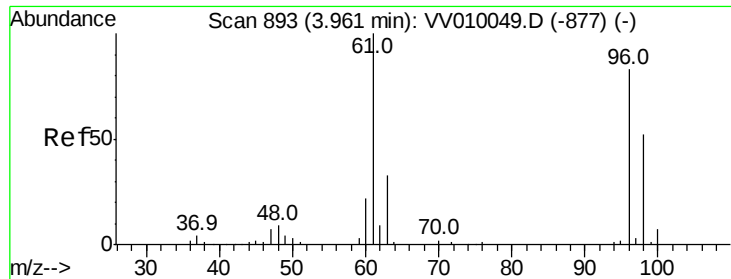
Tgt Ion:	63	Resp:	31417
Ion	Ratio	Lower	Upper
63	100		
65	30.5	21.9	40.7
83	13.6	9.9	18.3



#21
 2-Butanone
 Concen: 6.937 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion:	43	Resp:	9991
Ion	Ratio	Lower	Upper
43	100		
72	17.9	12.3	36.9



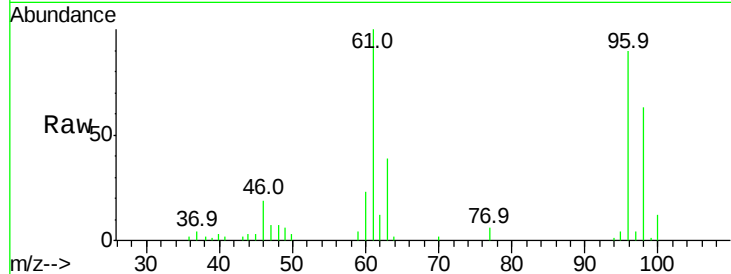


#22

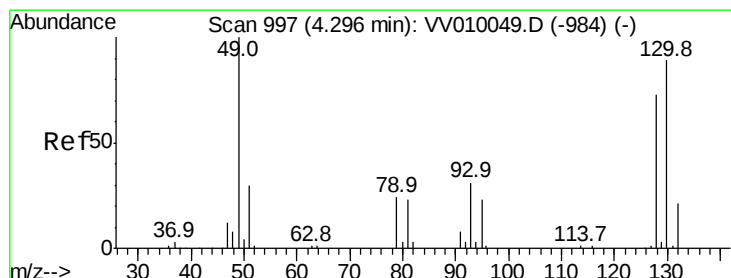
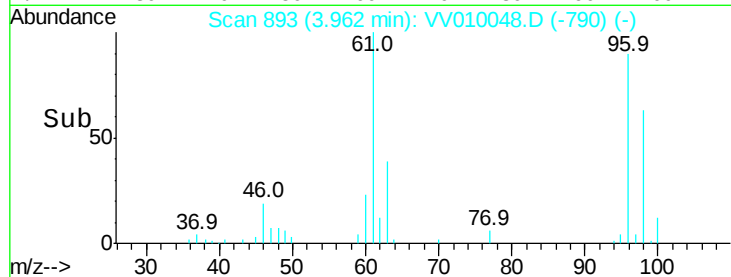
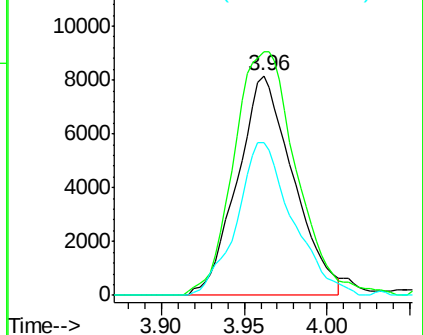
cis-1,2-Dichloroethene
 Concen: 4.676 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tgt Ion: 96 Resp: 19111
 Ion Ratio Lower Upper
 96 100
 61 110.7 84.3 156.5
 98 69.6 44.0 81.8



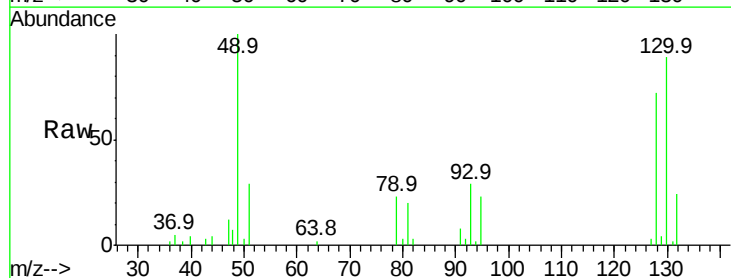
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



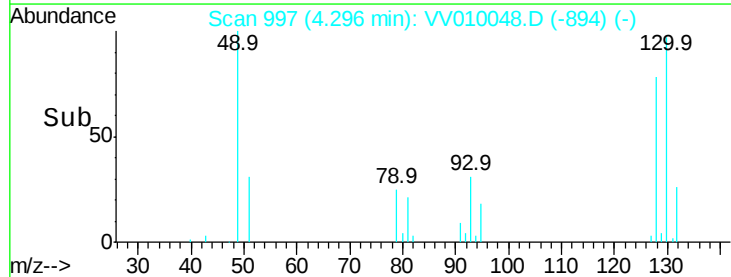
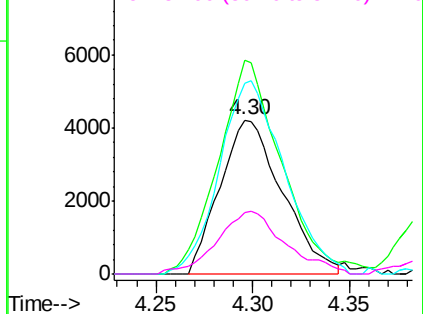
#23

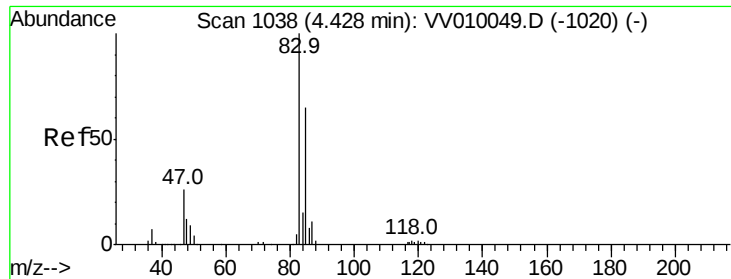
Bromochloromethane
 Concen: 5.007 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion: 128 Resp: 9448
 Ion Ratio Lower Upper
 128 100
 49 138.9 97.2 180.4
 130 124.3 86.2 160.0
 51 40.0 34.0 51.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

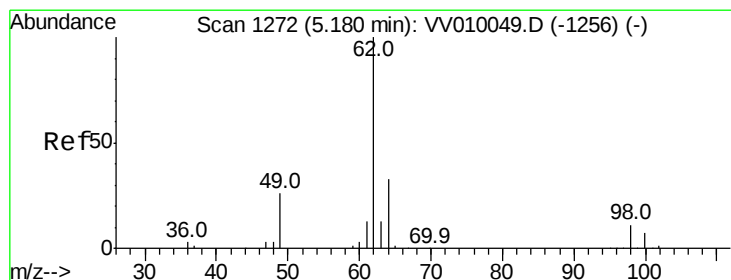
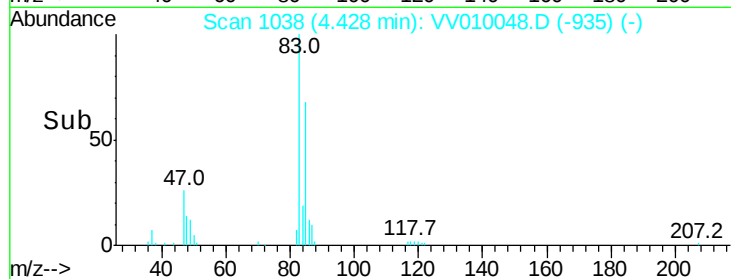
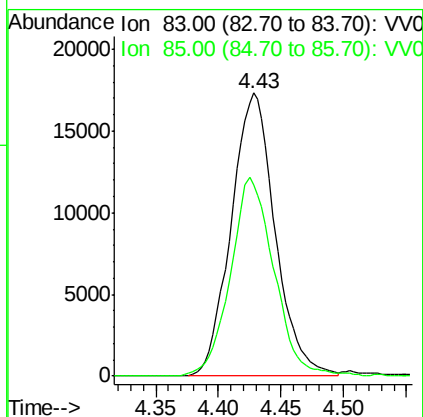
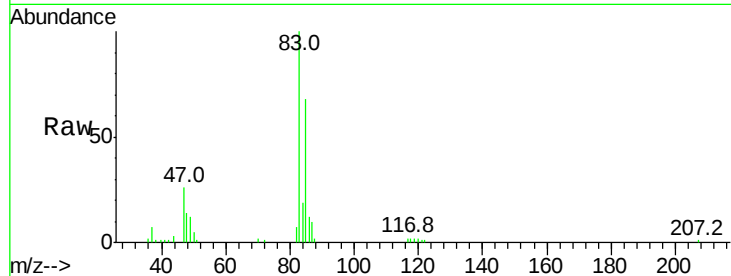




#25
Chloroform
Concen: 5.649 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

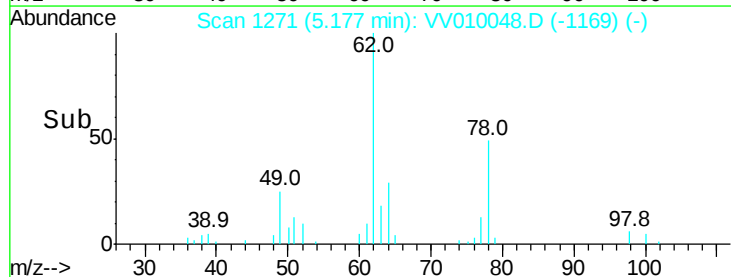
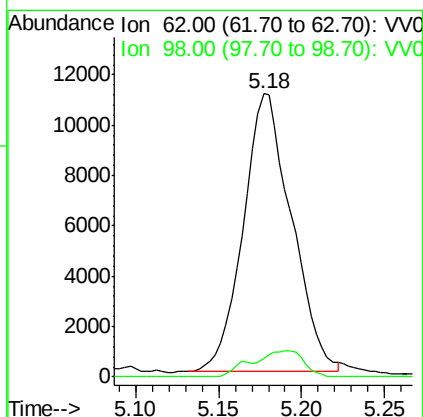
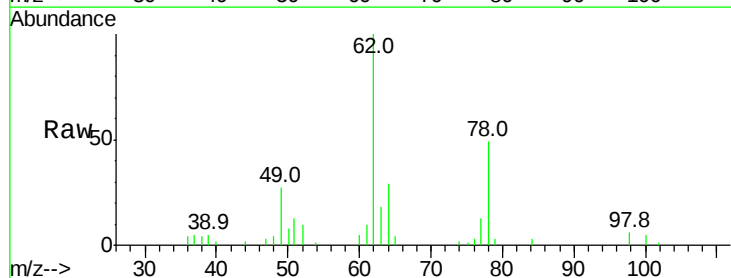
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

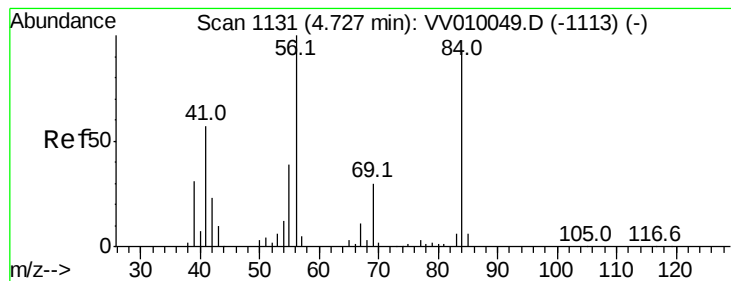
Tgt Ion: 83 Resp: 42275
Ion Ratio Lower Upper
83 100
85 69.0 46.6 86.6



#27
1,2-Dichloroethane
Concen: 4.222 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

Tgt Ion: 62 Resp: 22385
Ion Ratio Lower Upper
62 100
98 6.4 8.4 12.6#





#30

Cyclohexane

Concen: 4.581 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

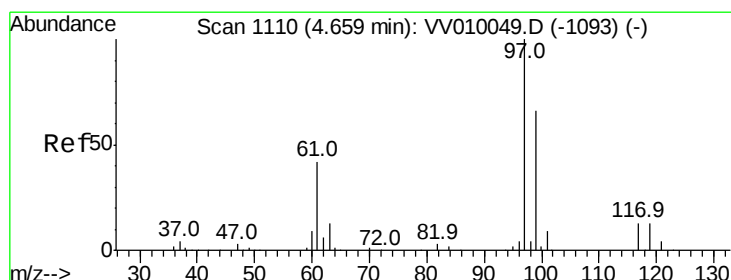
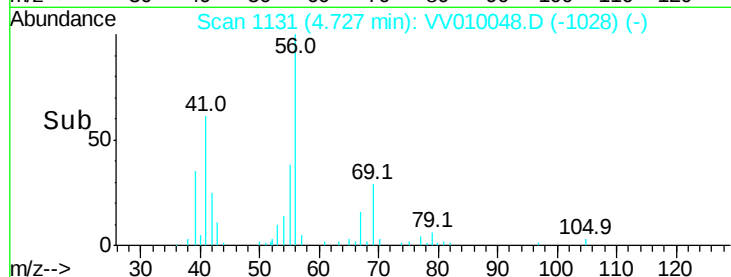
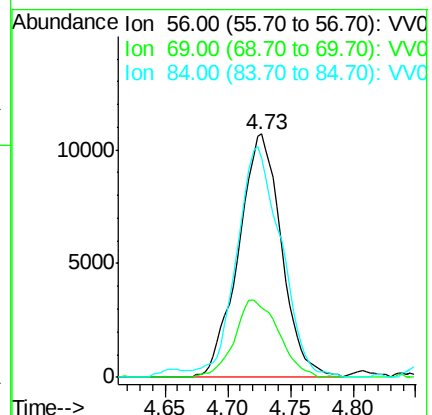
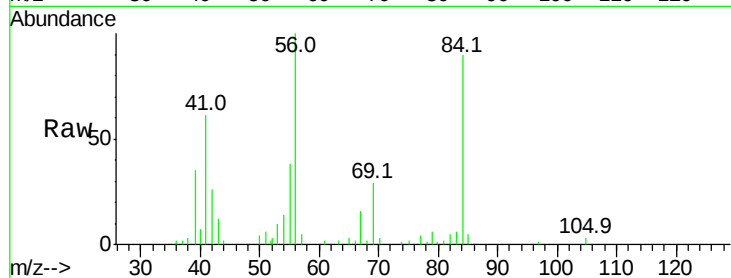
Tgt Ion: 56 Resp: 25501

Ion Ratio Lower Upper

56 100

69 32.8 25.1 37.7

84 98.0 73.4 110.0



#31

1,1,1-Trichloroethane

Concen: 3.024 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

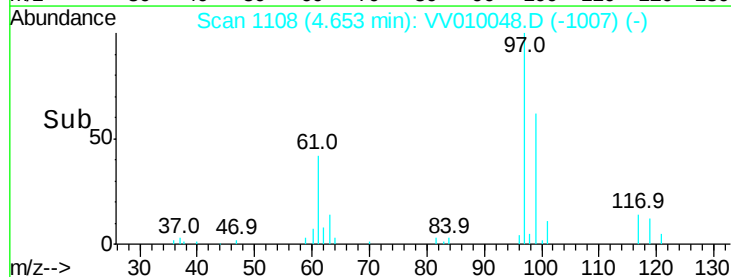
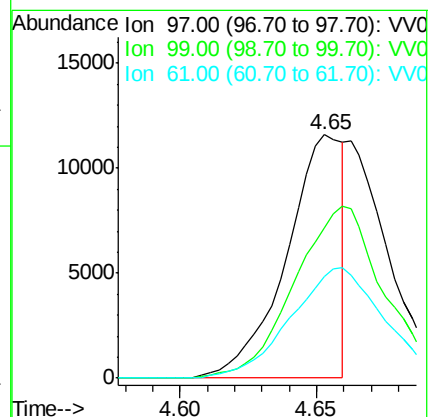
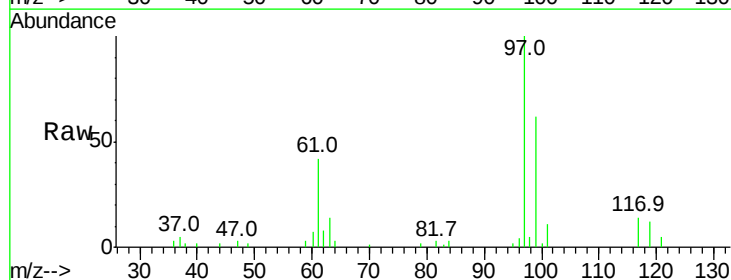
Tgt Ion: 97 Resp: 16710

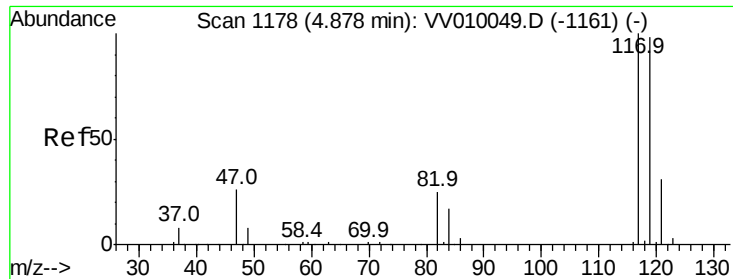
Ion Ratio Lower Upper

97 100

99 111.1 51.4 77.0#

61 75.2 34.2 51.2#





#32

Carbon tetrachloride

Concen: 5.600 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

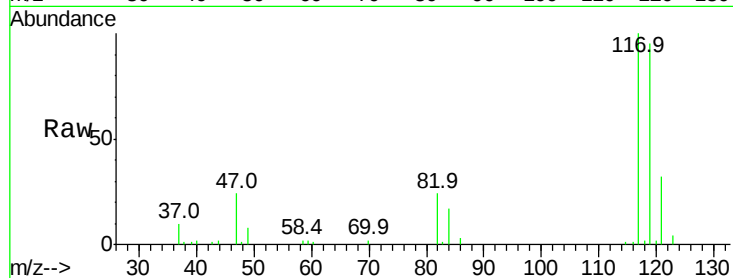
VSTD00562

Tgt Ion:117 Resp: 26891

Ion Ratio Lower Upper

117 100

119 94.9 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

12000

10000

8000

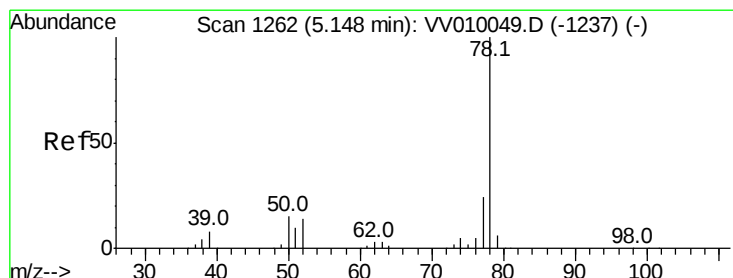
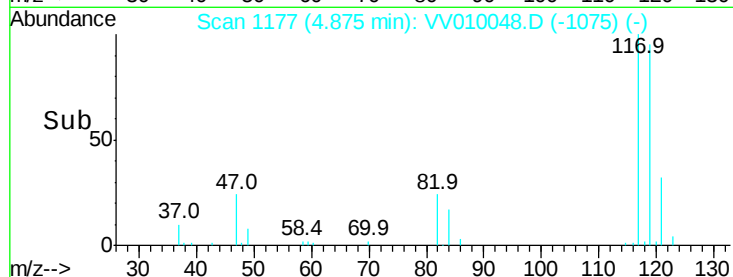
6000

4000

2000

0

Time-->



#34

Benzene

Concen: 4.750 ug/L

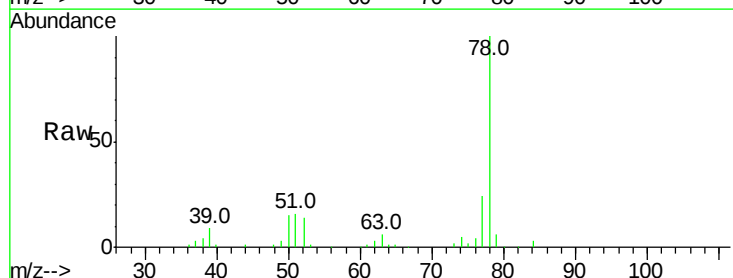
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Tgt Ion: 78 Resp: 72013



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.15

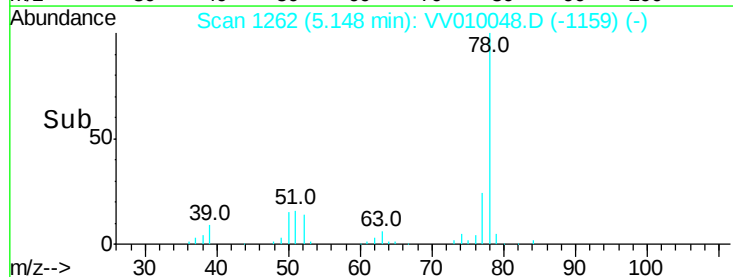
30000

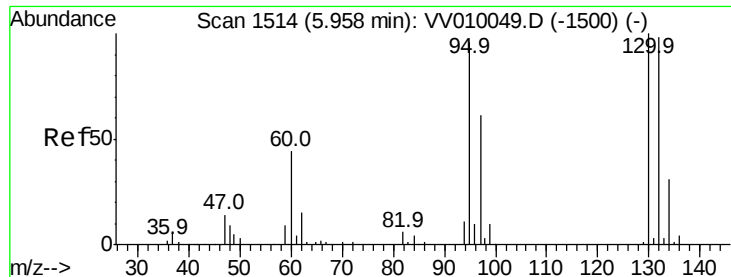
20000

10000

0

Time-->

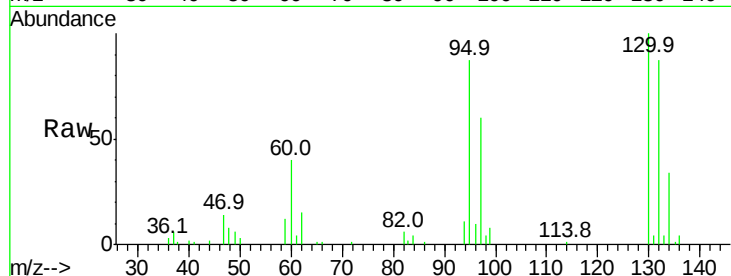




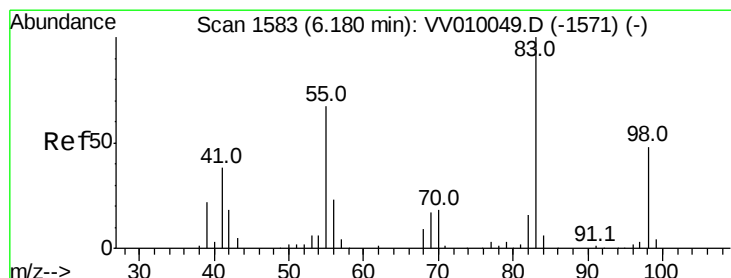
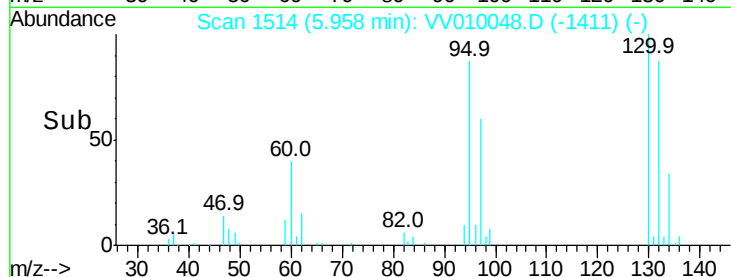
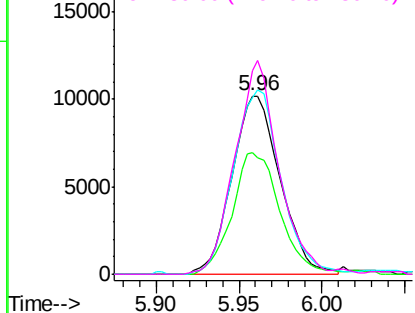
#35
 Trichloroethene
 Concen: 5.140 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tgt Ion: 95 Resp: 20556
 Ion Ratio Lower Upper
 95 100
 97 67.5 45.1 83.9
 132 102.9 71.7 133.3
 130 108.0 74.0 137.4

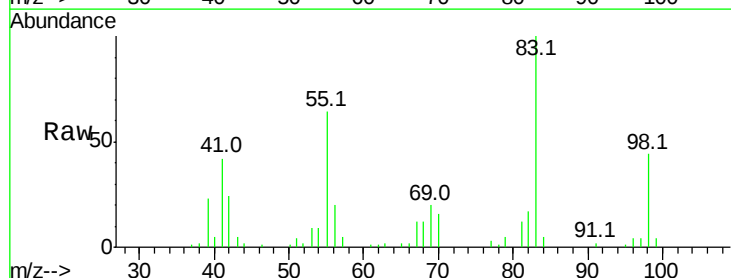


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

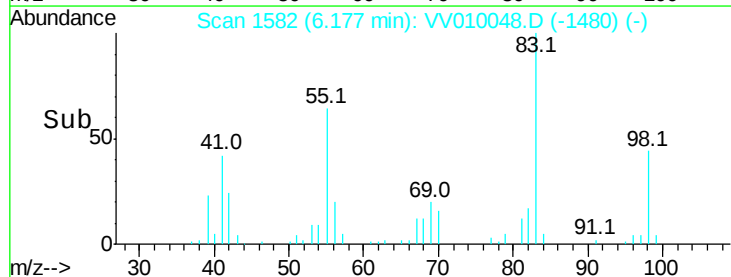
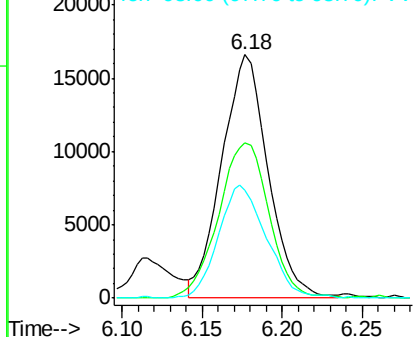


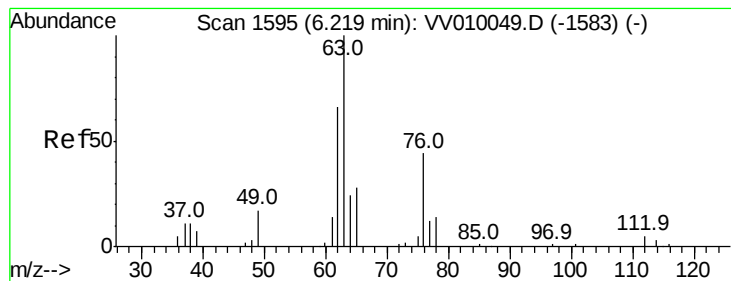
#36
 Methylcyclohexane
 Concen: 5.249 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion: 83 Resp: 32932
 Ion Ratio Lower Upper
 83 100
 55 68.9 54.4 81.6
 98 47.9 38.5 57.7



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: 4.715 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

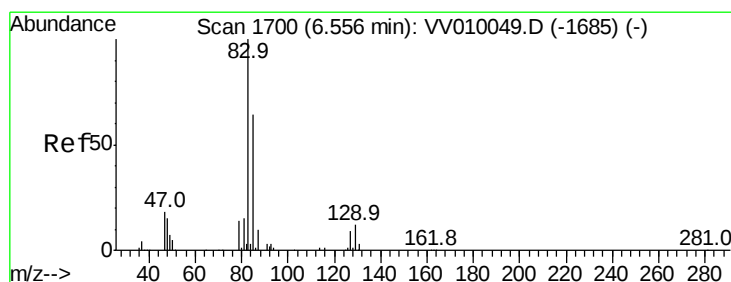
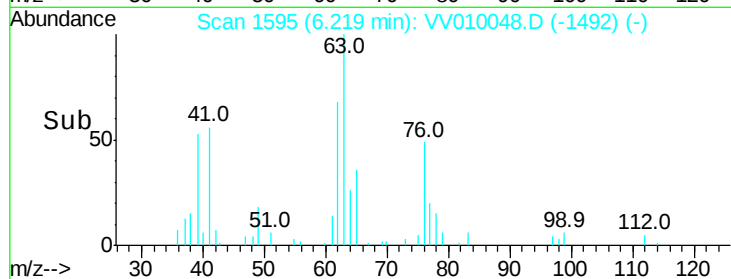
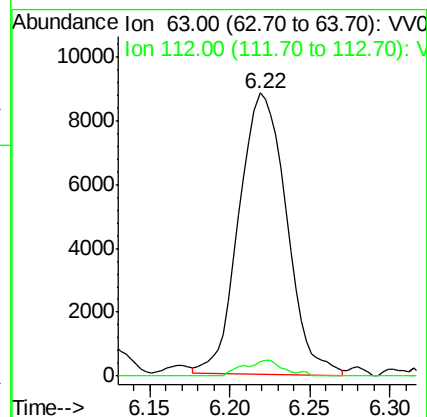
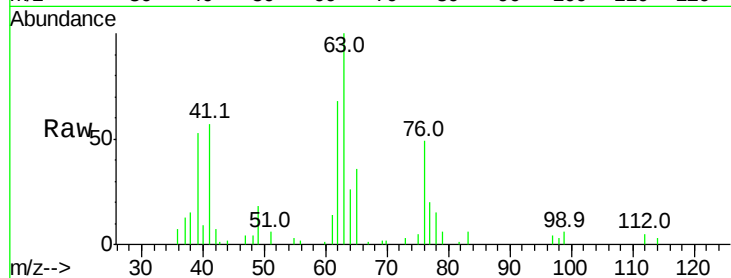
VSTD00562

Tgt Ion: 63 Resp: 17860

Ion Ratio Lower Upper

63 100

112 3.1 3.8 5.8#



#41

Bromodichloromethane

Concen: 4.487 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

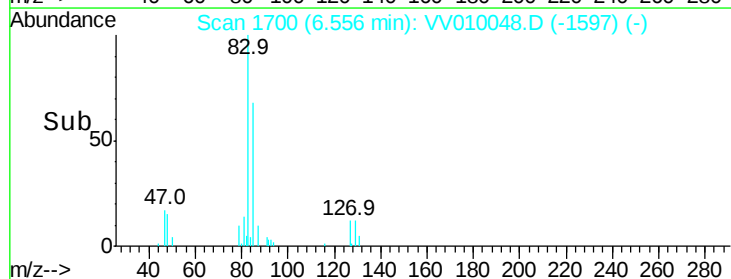
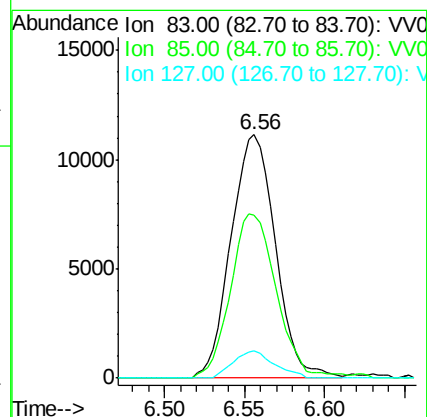
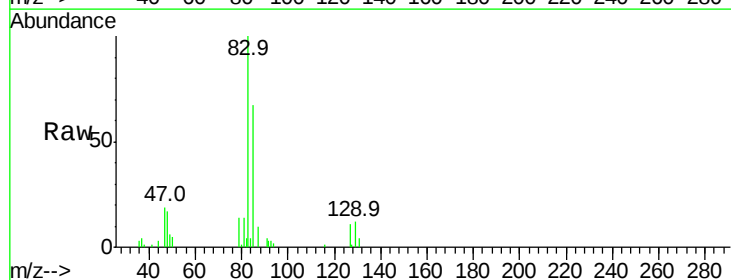
Tgt Ion: 83 Resp: 21140

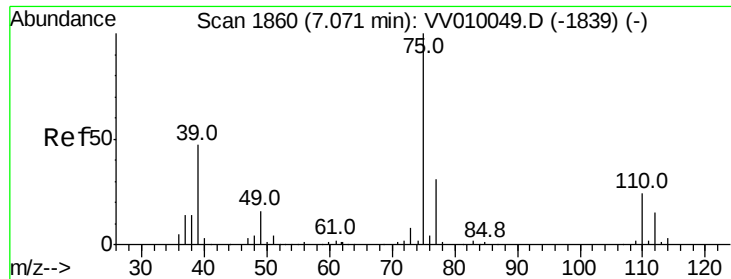
Ion Ratio Lower Upper

83 100

85 67.1 44.9 83.5

127 12.5 7.0 10.4#



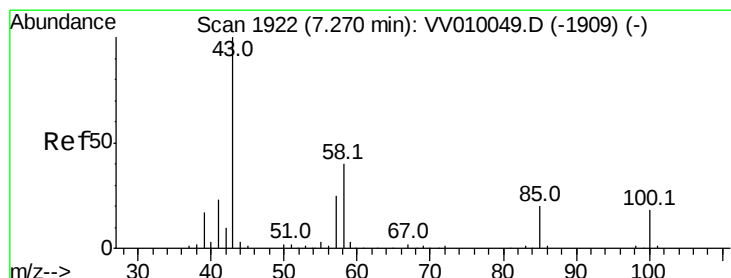
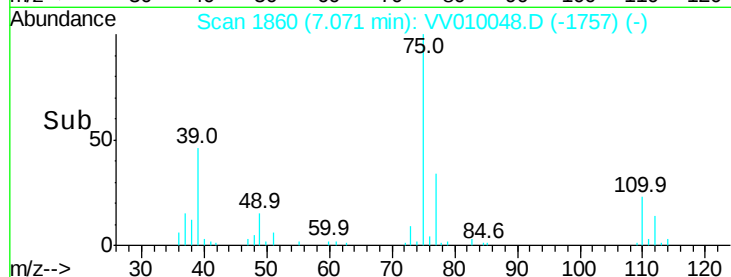
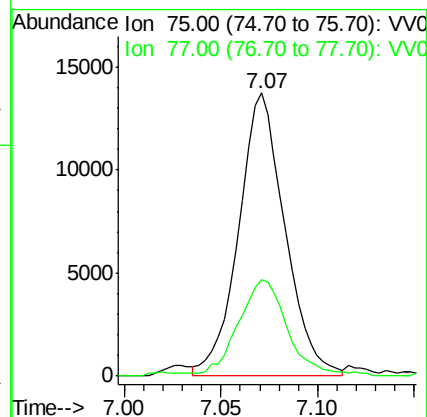
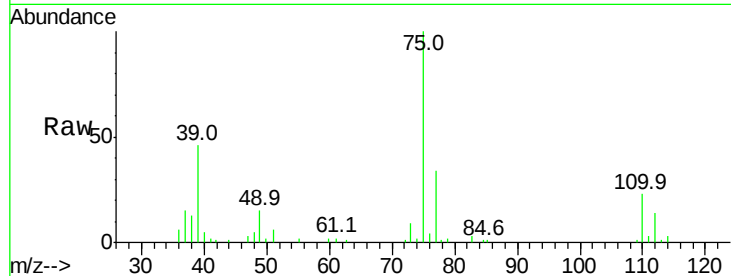


#42

cis-1,3-Dichloropropene
Concen: 4.139 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

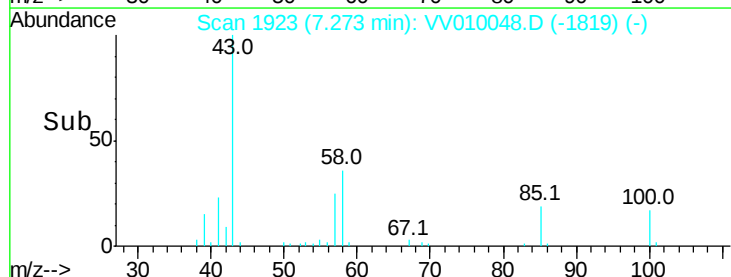
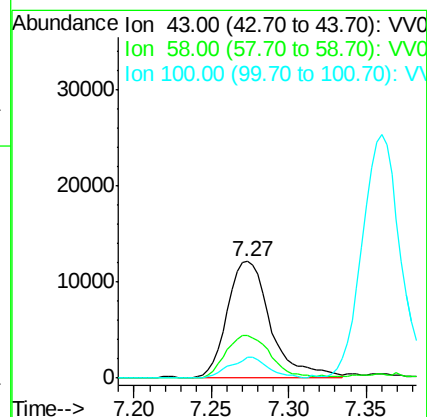
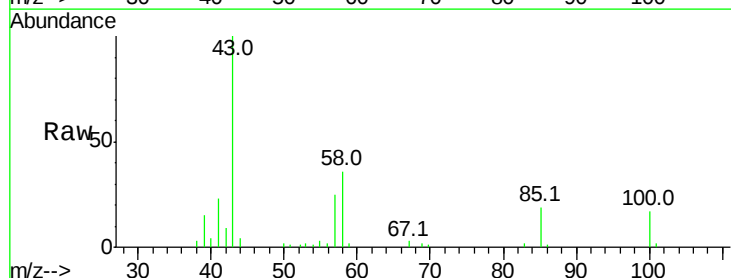
Tgt Ion: 75 Resp: 22860
Ion Ratio Lower Upper
75 100
77 33.9 22.0 40.8

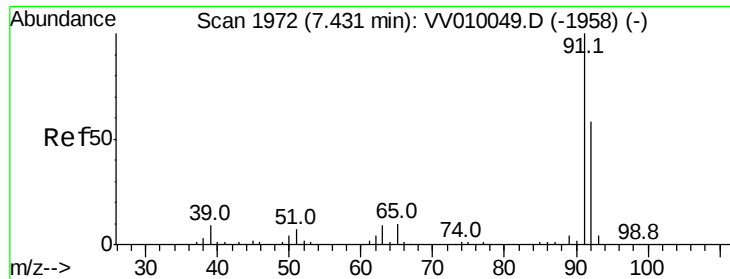


#43

4-Methyl-2-pentanone
Concen: 8.775 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

Tgt Ion: 43 Resp: 23723
Ion Ratio Lower Upper
43 100
58 37.4 31.0 46.6
100 15.4 13.3 19.9





#44

Toluene

Concen: 4.816 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

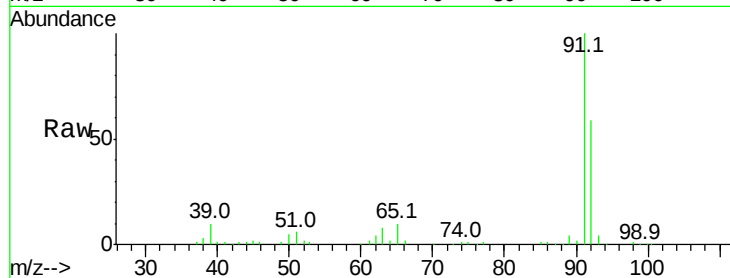
VSTD00562

Tgt Ion: 91 Resp: 80494

Ion Ratio Lower Upper

91 100

92 59.1 40.3 74.9



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

50000

40000

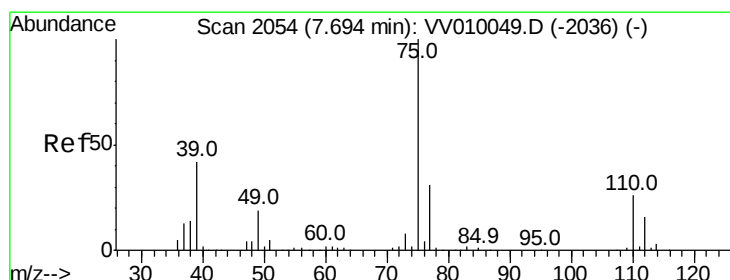
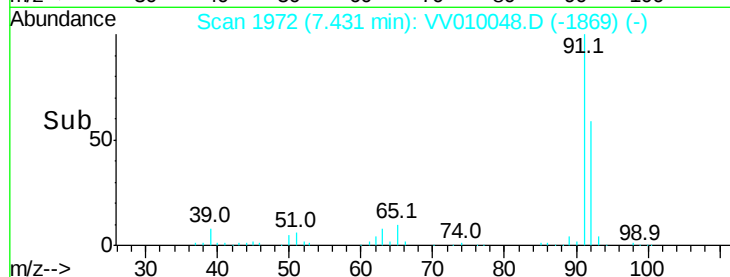
30000

20000

10000

0

Time--> 7.35 7.40 7.45 7.50



#45

trans-1,3-Dichloropropene

Concen: 4.127 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV010048.D

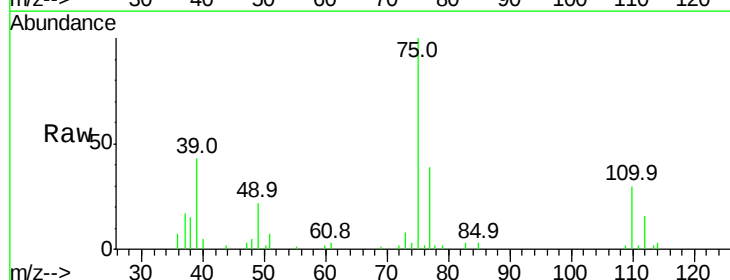
Acq: 01 Apr 2019 15:02

Tgt Ion: 75 Resp: 18658

Ion Ratio Lower Upper

75 100

77 38.6 21.5 39.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.70

12000

10000

8000

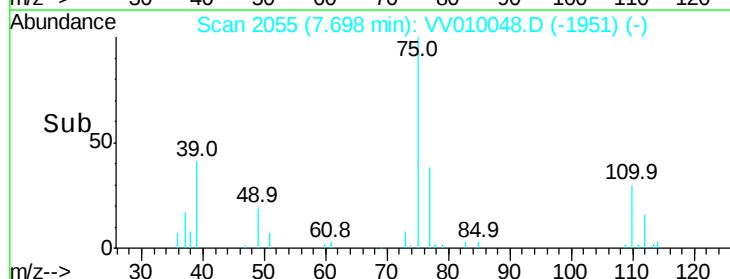
6000

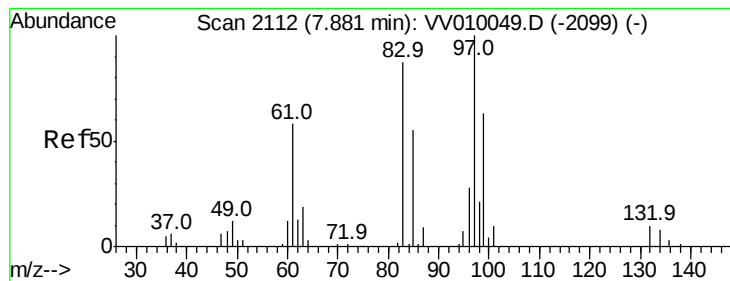
4000

2000

0

Time--> 7.65 7.70 7.75 7.80





#46

1,1,2-Trichloroethane

Concen: 4.822 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tgt Ion: 97 Resp: 15108

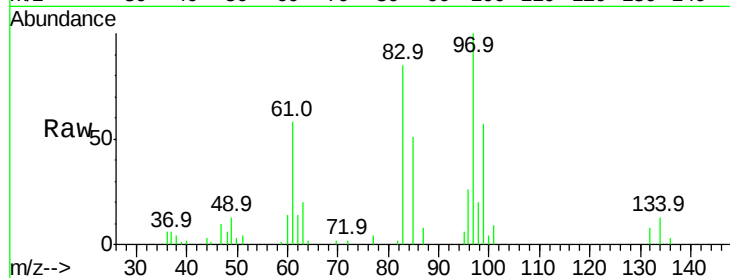
Ion Ratio Lower Upper

97 100

83 85.1 61.1 113.5

85 51.5 38.6 71.8

99 57.3 44.0 81.8

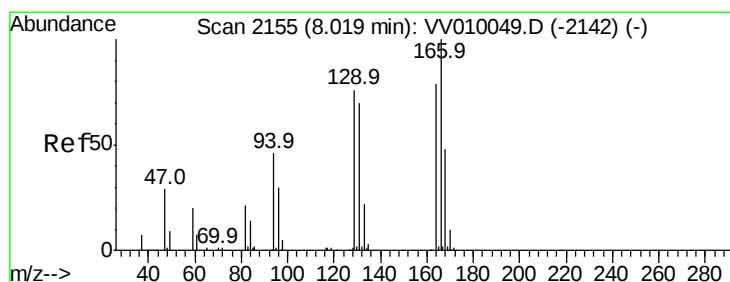
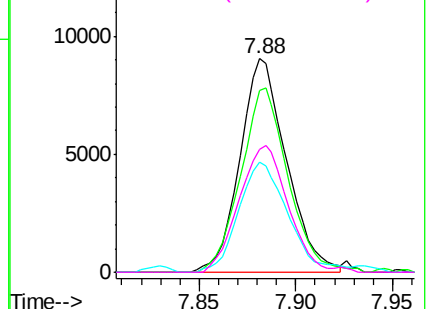
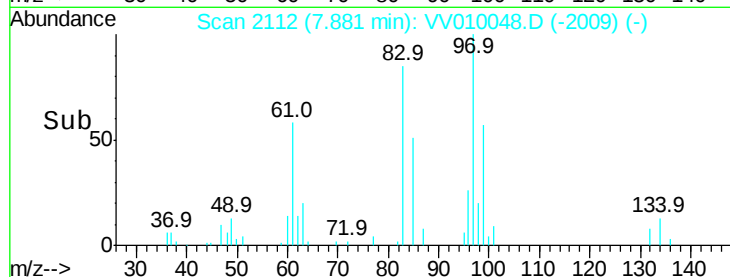


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 5.415 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Tgt Ion: 164 Resp: 17086

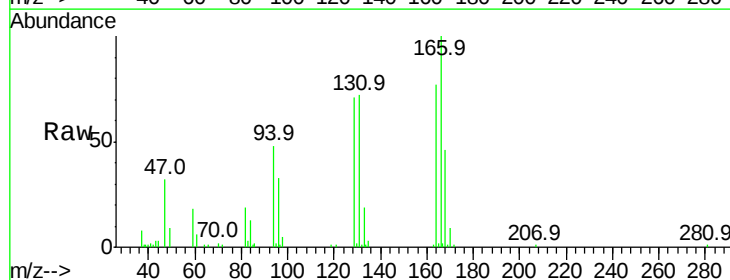
Ion Ratio Lower Upper

164 100

129 92.3 67.1 124.5

131 92.7 62.0 115.2

166 129.5 88.5 164.4

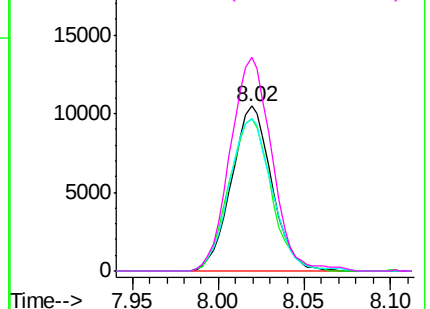
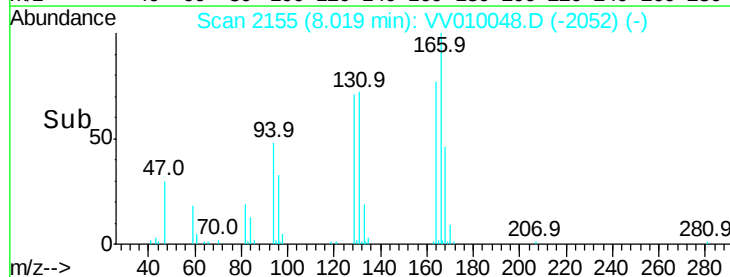


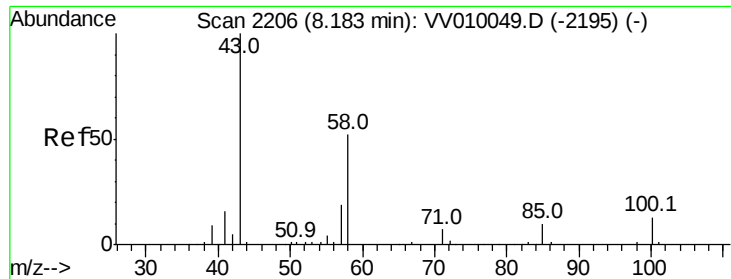
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

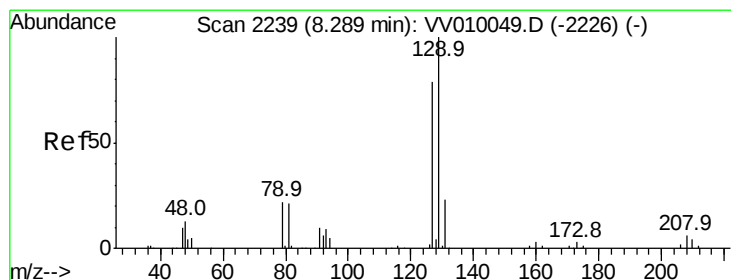
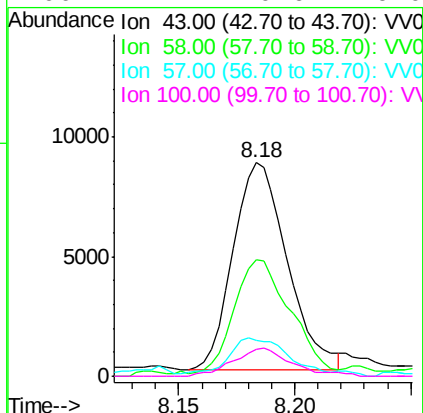
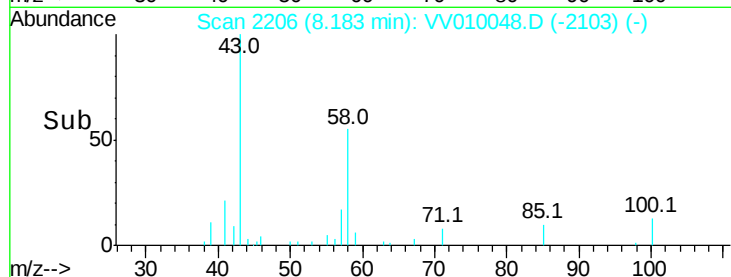
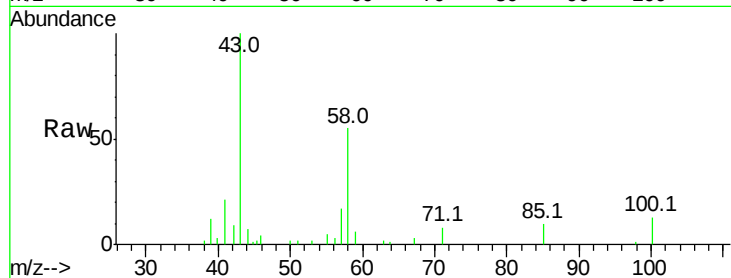




#49
2-Hexanone
Concen: 7.647 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

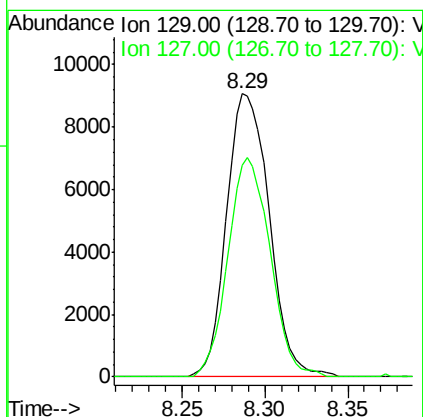
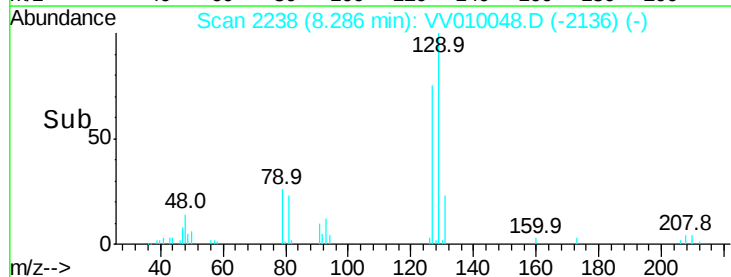
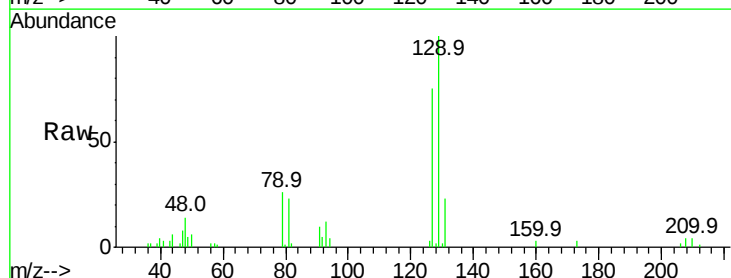
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

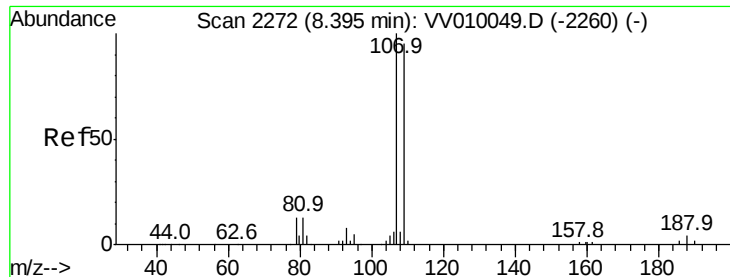
Tgt Ion: 43 Resp: 13971
Ion Ratio Lower Upper
43 100
58 58.1 41.9 62.9
57 18.1 15.2 22.8
100 14.7 10.6 16.0



#50
Dibromochloromethane
Concen: 5.000 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV010048.D
Acq: 01 Apr 2019 15:02

Tgt Ion: 129 Resp: 16243
Ion Ratio Lower Upper
129 100
127 74.6 55.4 103.0

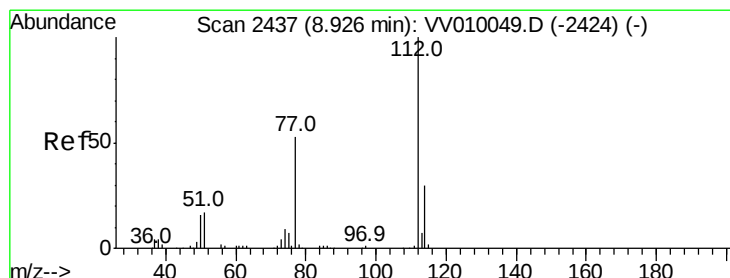
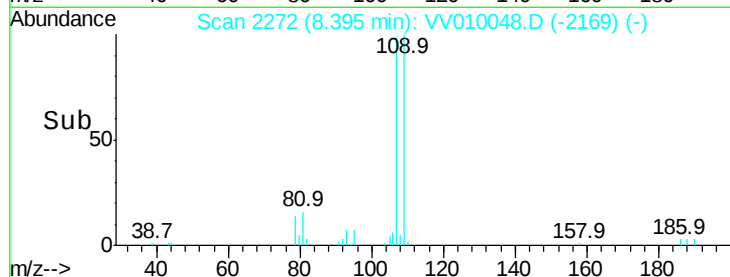
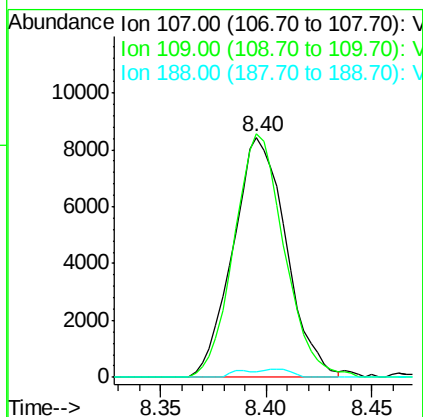
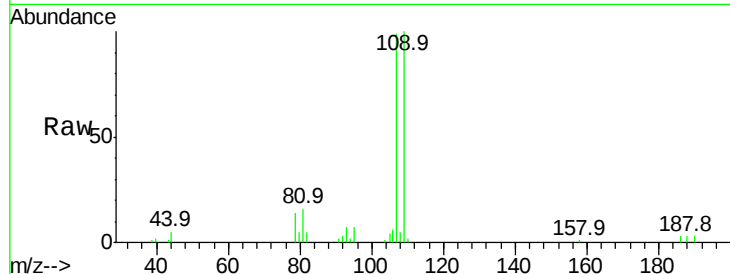




#51
 1,2-Dibromoethane
 Concen: 4.859 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

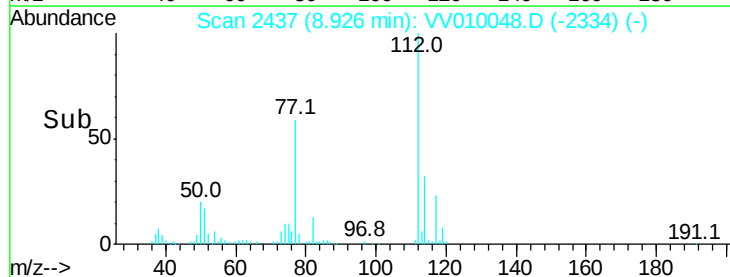
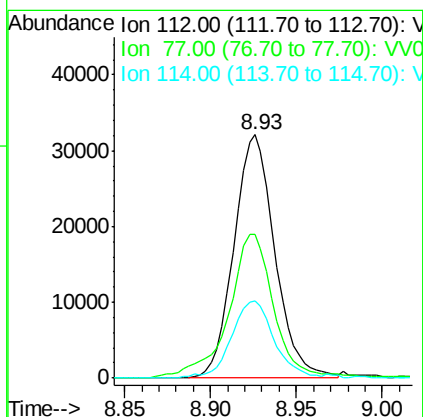
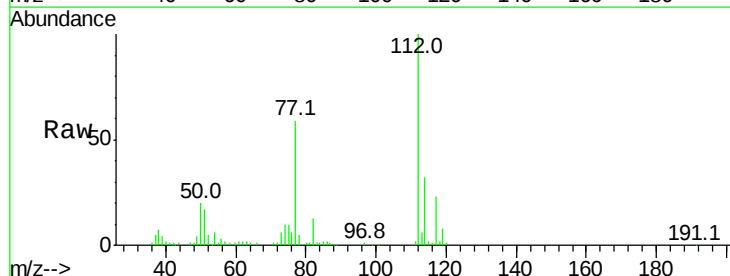
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

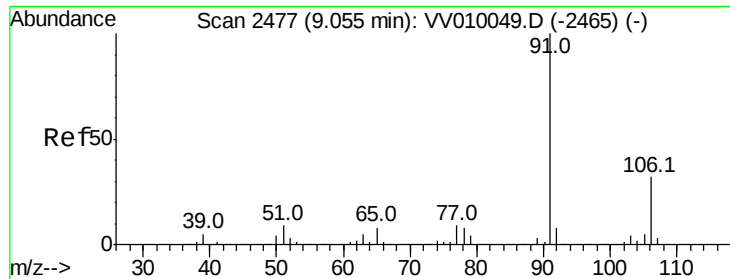
Tgt Ion:107 Resp: 14783
 Ion Ratio Lower Upper
 107 100
 109 101.5 66.8 124.0
 188 2.5 3.5 5.3#



#52
 Chlorobenzene
 Concen: 4.776 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion:112 Resp: 53138
 Ion Ratio Lower Upper
 112 100
 77 59.0 42.6 63.8
 114 31.9 20.9 38.9





#53

Ethylbenzene

Concen: 4.636 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

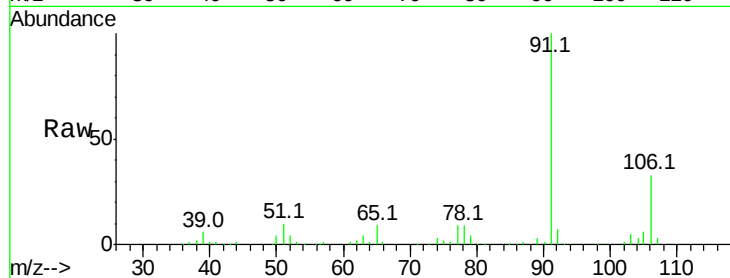
VSTD00562

Tgt Ion: 91 Resp: 85476

Ion Ratio Lower Upper

91 100

106 33.3 22.6 42.0

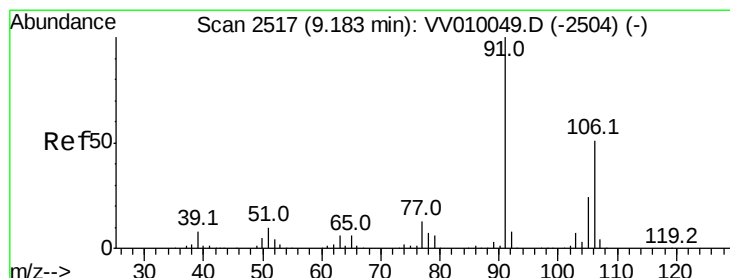
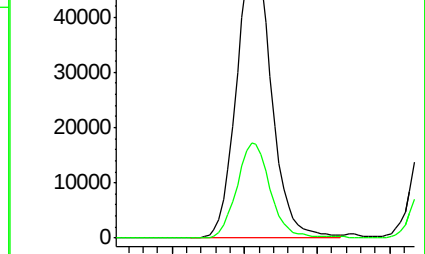
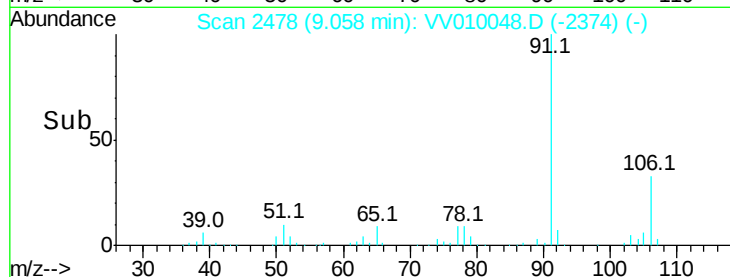


Abundance Ion 91.00 (90.70 to 91.70): VV010049.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV010049.D (-2465) (-)

9.06

Time-->



#54

m,p-Xylene

Concen: 4.653 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010048.D

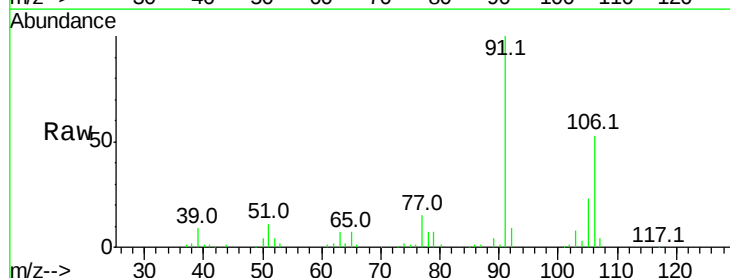
Acq: 01 Apr 2019 15:02

Tgt Ion: 106 Resp: 33690

Ion Ratio Lower Upper

106 100

91 190.2 136.4 253.4

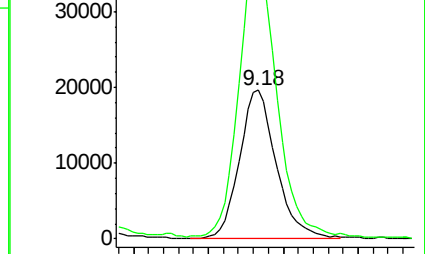
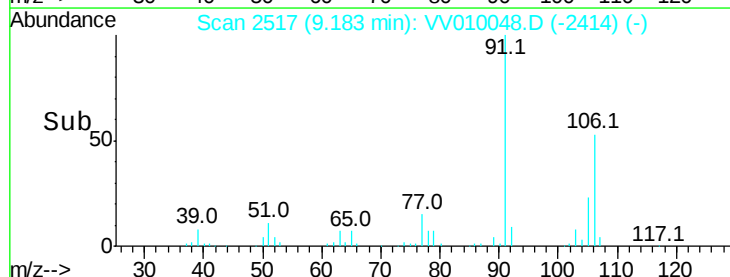


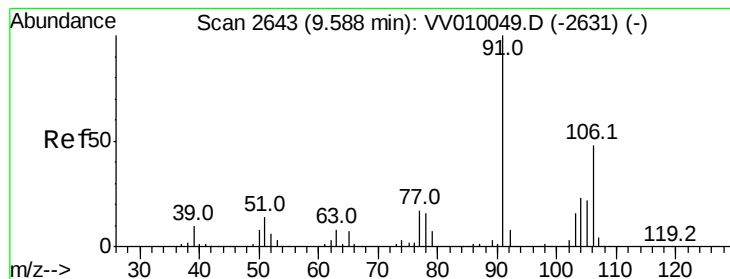
Abundance Ion 106.00 (105.70 to 106.70): VV010049.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV010049.D (-2504) (-)

9.18

Time-->





#55

o-xylene

Concen: 4.478 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

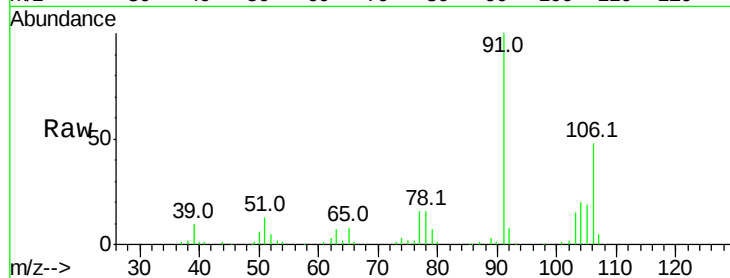
VSTD00562

Tgt Ion:106 Resp: 31475

Ion Ratio Lower Upper

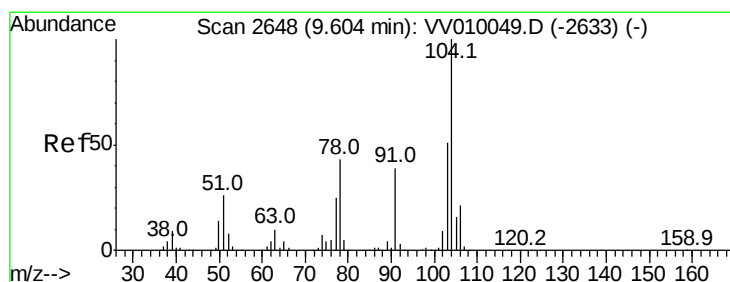
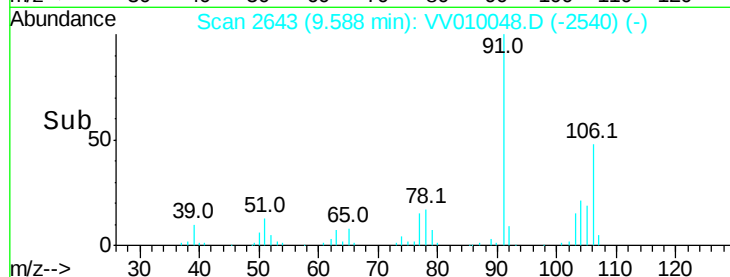
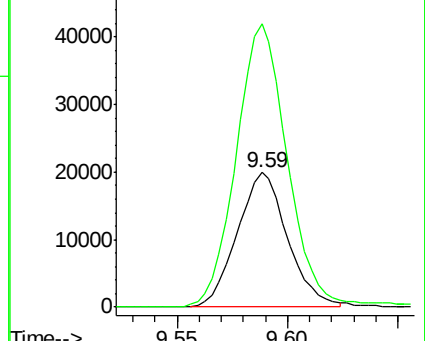
106 100

91 210.4 147.0 273.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.183 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010048.D

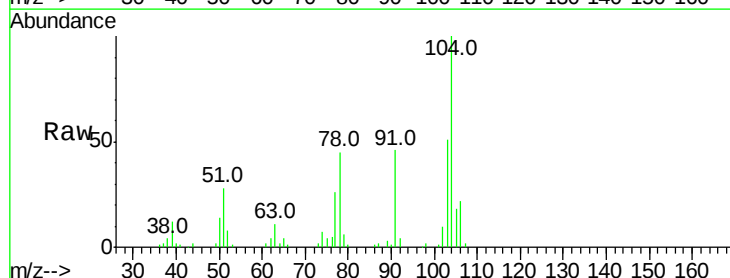
Acq: 01 Apr 2019 15:02

Tgt Ion:104 Resp: 50500

Ion Ratio Lower Upper

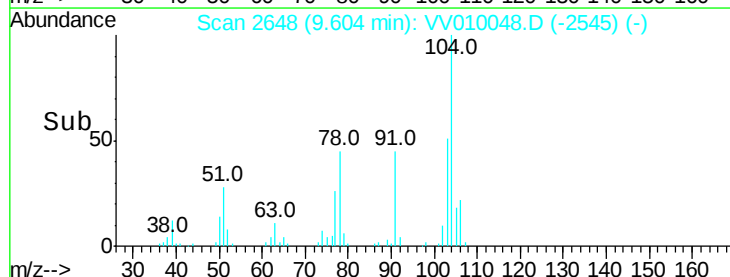
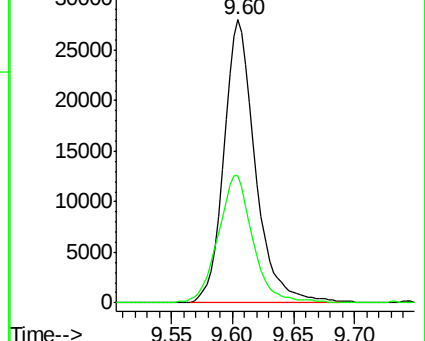
104 100

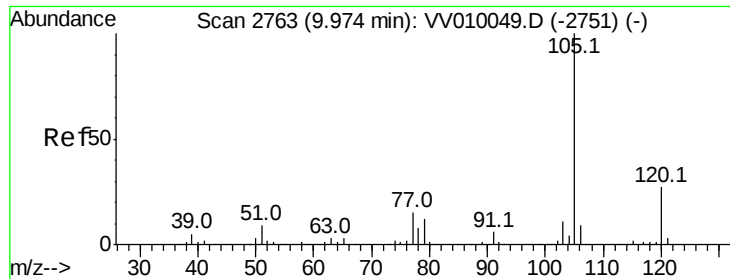
78 44.8 30.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.621 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

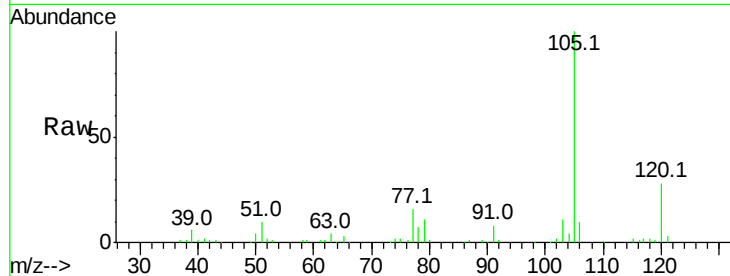
Tgt Ion:105 Resp: 84255

Ion Ratio Lower Upper

105 100

120 27.7 21.9 32.9

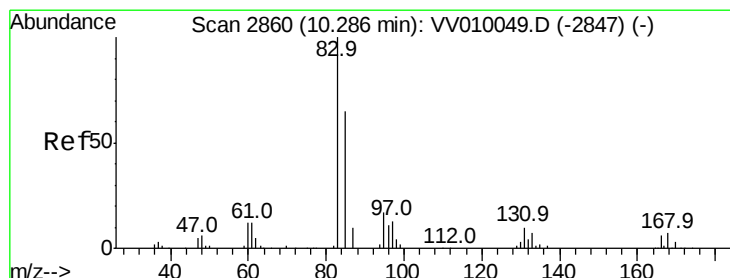
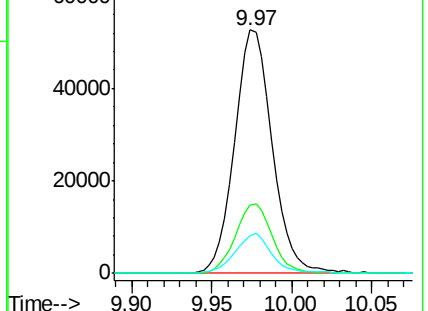
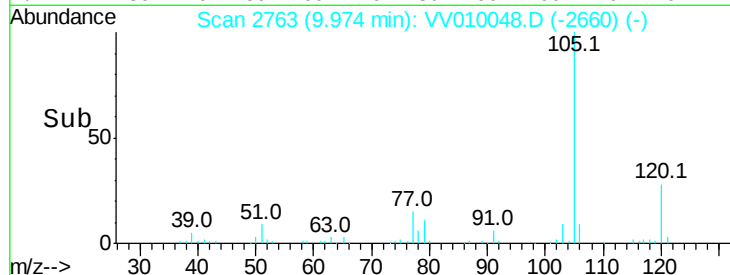
77 15.6 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.410 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

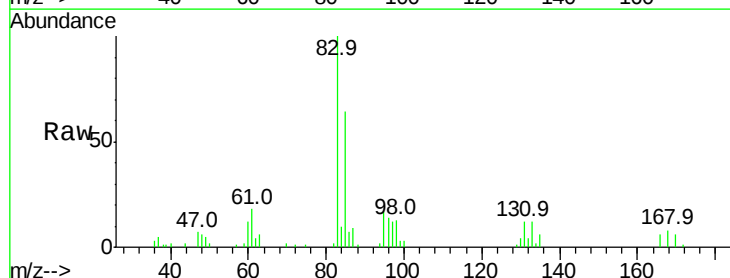
Tgt Ion: 83 Resp: 18625

Ion Ratio Lower Upper

83 100

85 64.0 45.7 84.9

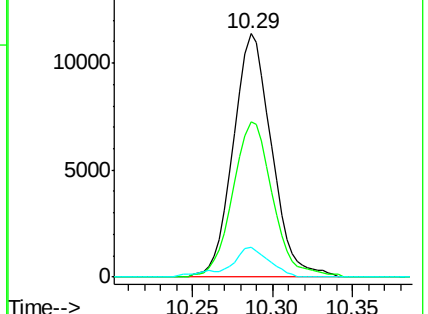
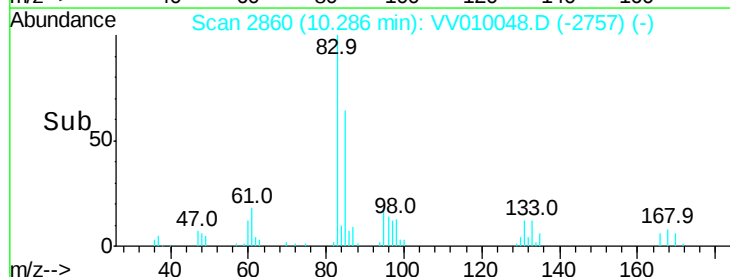
131 12.1 8.8 13.2

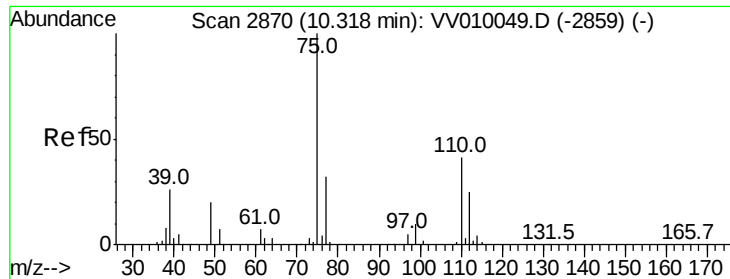


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.675 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

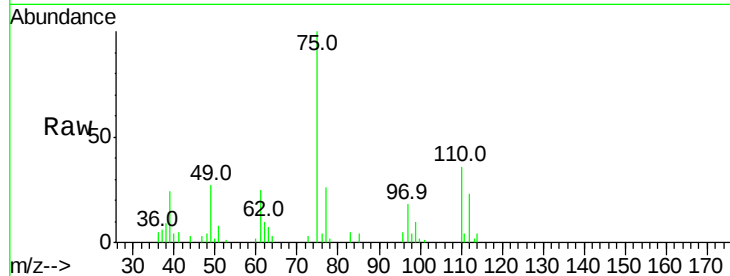
VSTD00562

Tgt Ion: 75 Resp: 14250

Ion Ratio Lower Upper

75 100

77 31.6 25.8 38.6



Abundance Ion 75.00 (74.70 to 75.70): VV010049.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV010049.D (-2859) (-)

10.32

10000

8000

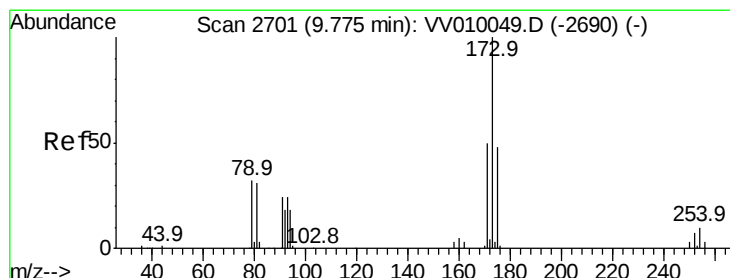
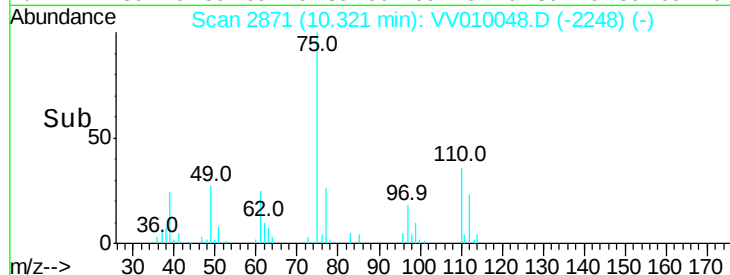
6000

4000

2000

0

Time--> 10.25 10.30 10.35



#62

Bromoform

Concen: 4.699 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

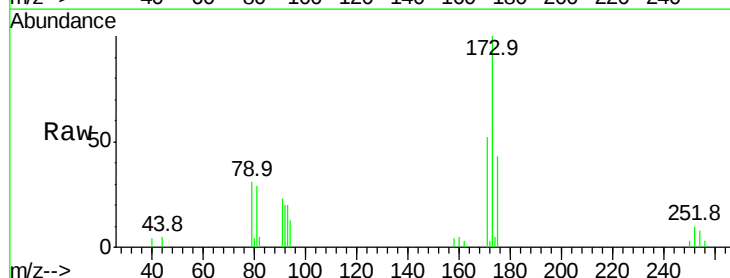
Tgt Ion: 173 Resp: 7990

Ion Ratio Lower Upper

173 100

175 49.2 38.6 58.0

254 5.4 7.6 11.4#



Abundance Ion 173.00 (172.70 to 173.70): VV010049.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010049.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010049.D (-2690) (-)

9.78

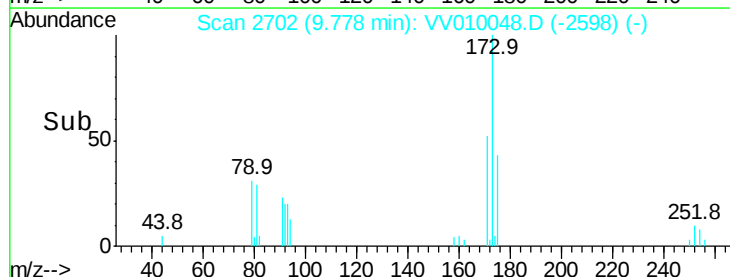
6000

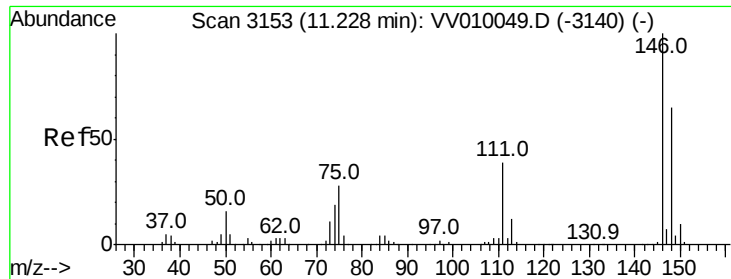
4000

2000

0

Time--> 9.75 9.80

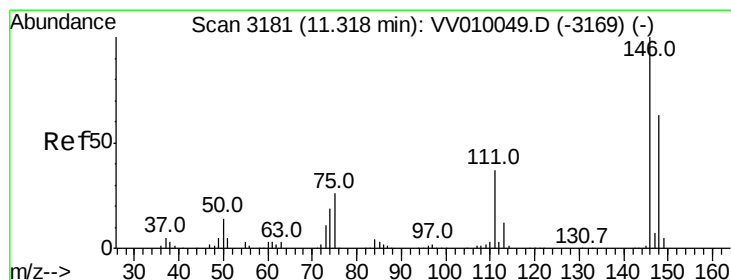
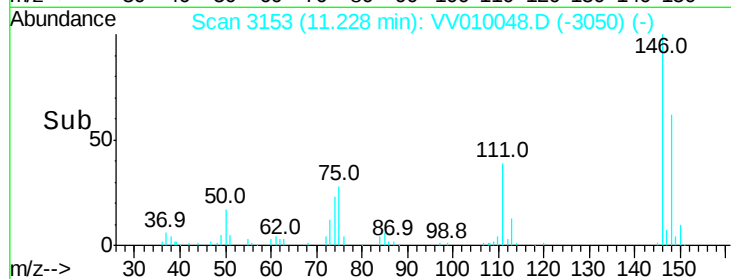
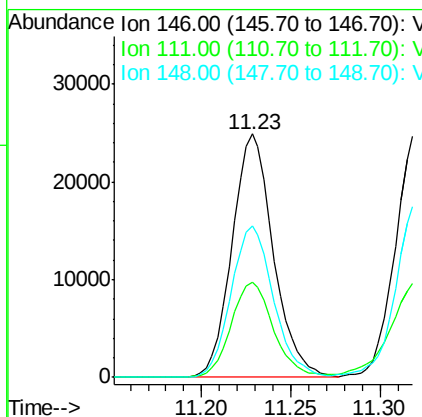
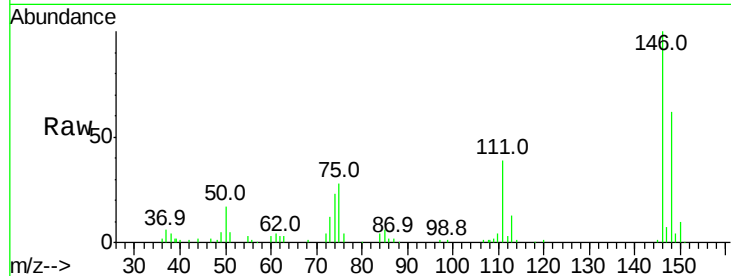




#63
 1,3-Dichlorobenzene
 Concen: 4.917 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

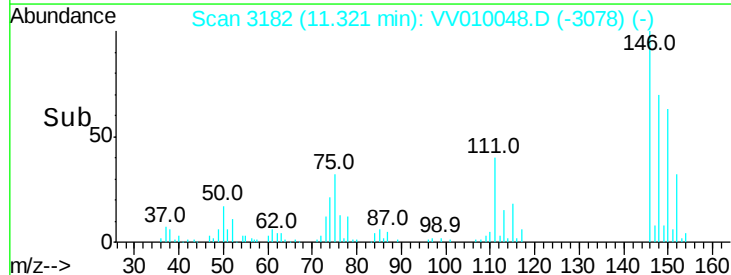
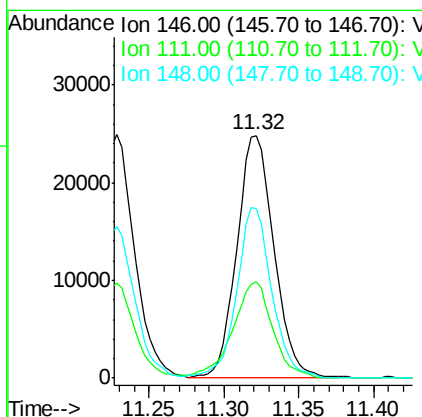
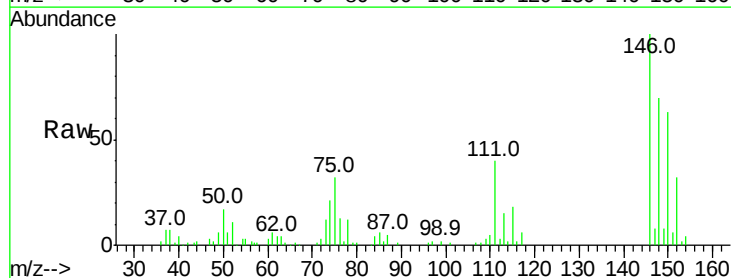
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

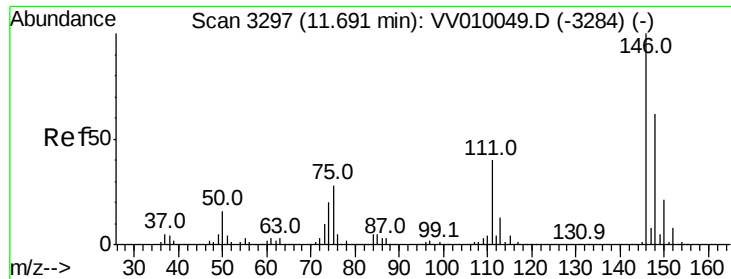
Tgt Ion:146 Resp: 40204
 Ion Ratio Lower Upper
 146 100
 111 38.9 27.4 51.0
 148 62.1 45.8 85.2



#64
 1,4-Dichlorobenzene
 Concen: 4.850 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion:146 Resp: 43102
 Ion Ratio Lower Upper
 146 100
 111 39.9 26.2 48.8
 148 69.8 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 4.893 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

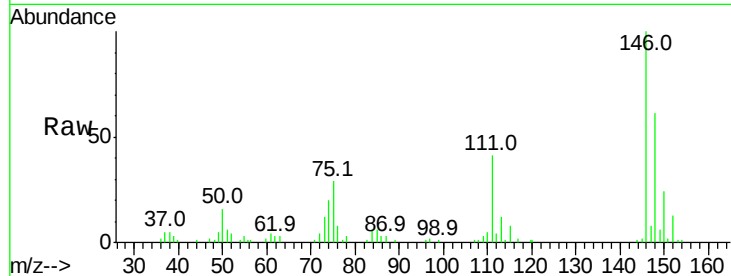
Tgt Ion: 146 Resp: 39489

Ion Ratio Lower Upper

146 100

111 40.5 32.2 48.4

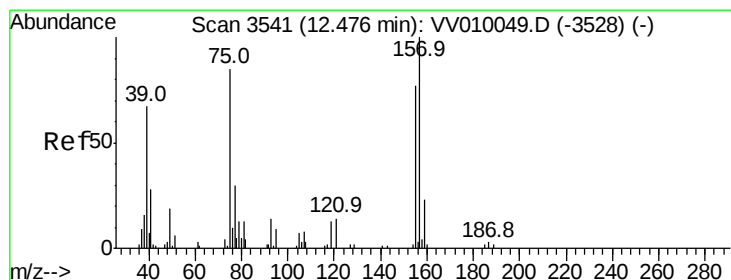
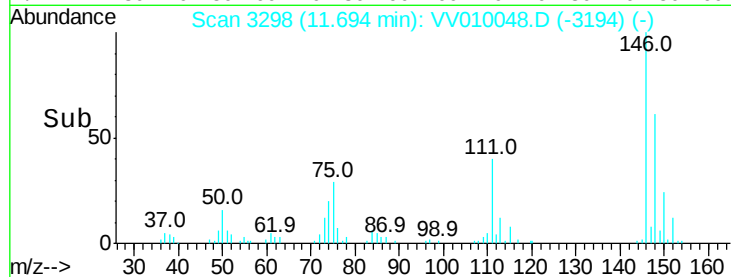
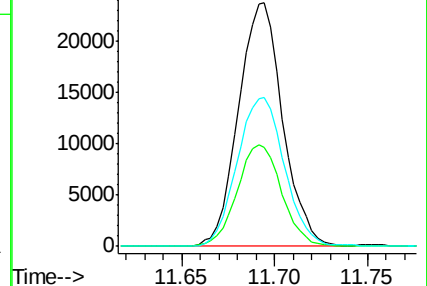
148 61.1 49.9 74.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.112 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

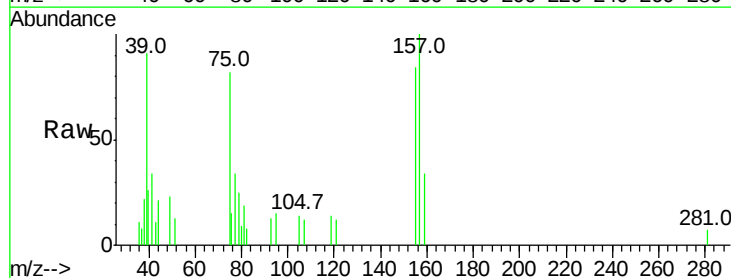
Tgt Ion: 75 Resp: 2074

Ion Ratio Lower Upper

75 100

157 121.8 94.2 141.4

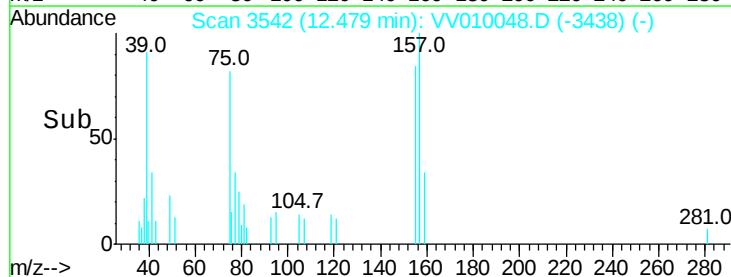
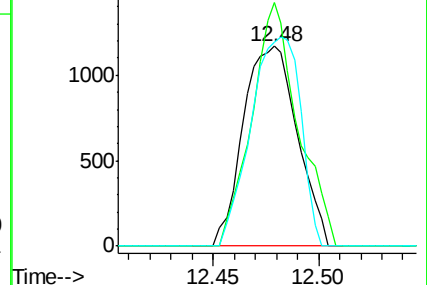
155 102.0 72.2 108.4

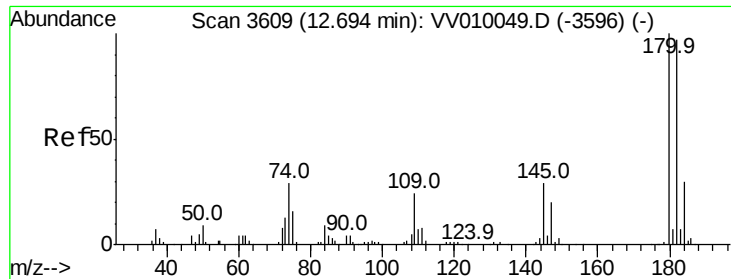


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

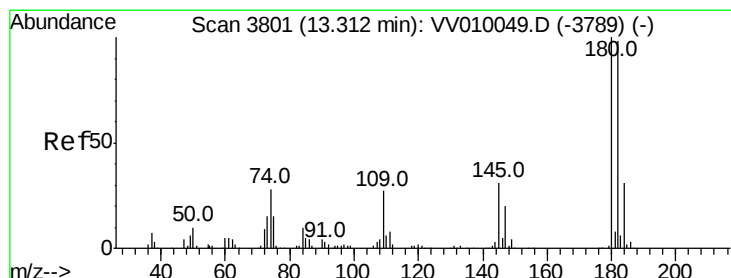
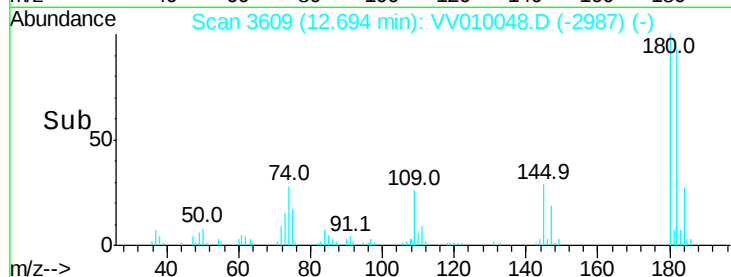
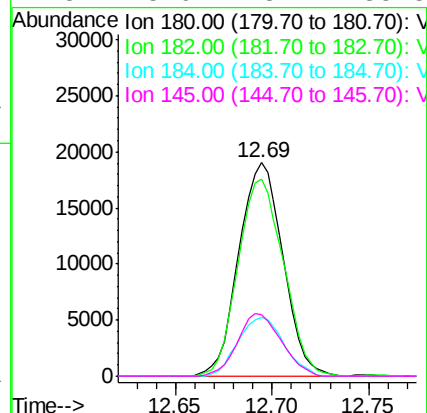
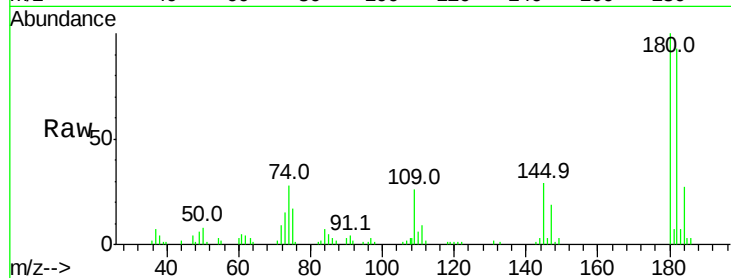




#67
 1,3,5-Trichlorobenzene
 Concen: 5.224 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

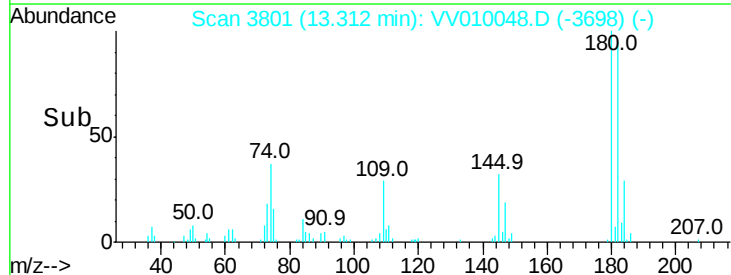
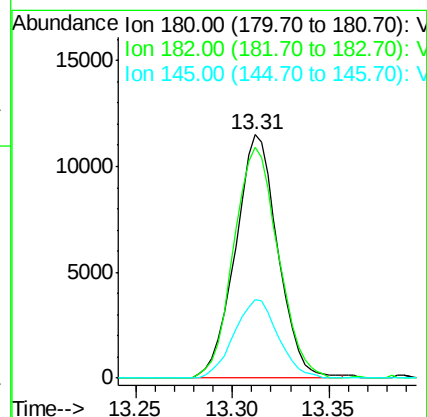
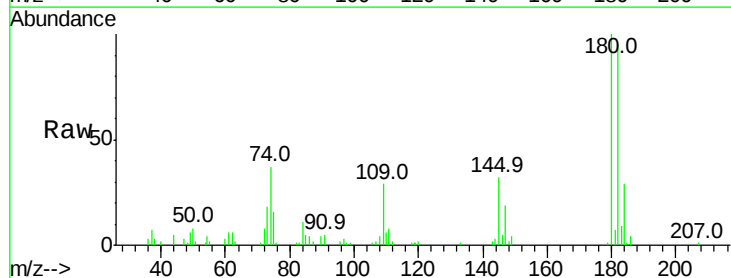
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

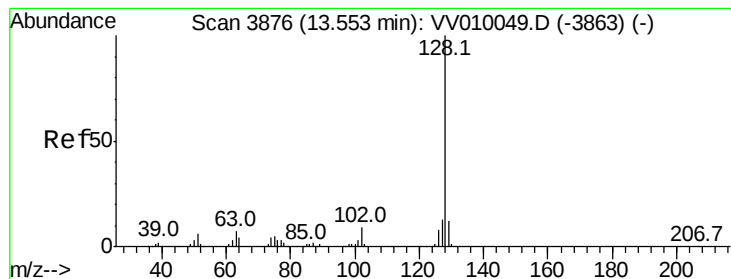
Tgt Ion:	180	Resp:	30334
Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.3	115.9
184	28.4	24.3	36.5
145	28.9	23.7	35.5



#68
 1,2,4-trichlorobenzene
 Concen: 4.094 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010048.D
 Acq: 01 Apr 2019 15:02

Tgt Ion:	180	Resp:	17537
Ion	Ratio	Lower	Upper
180	100		
182	99.4	76.8	115.2
145	33.4	25.1	37.7





#69

Naphthalene

Concen: 2.809 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

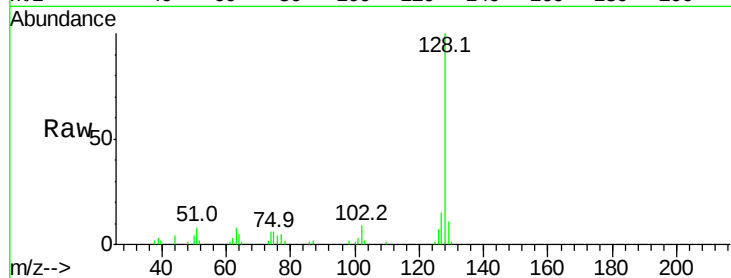
Tgt Ion:128 Resp: 20000

Ion Ratio Lower Upper

128 100

129 9.9 8.8 13.2

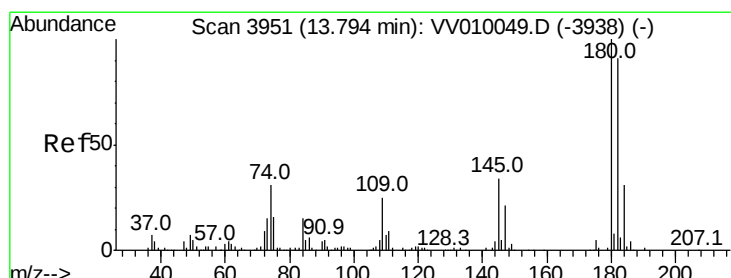
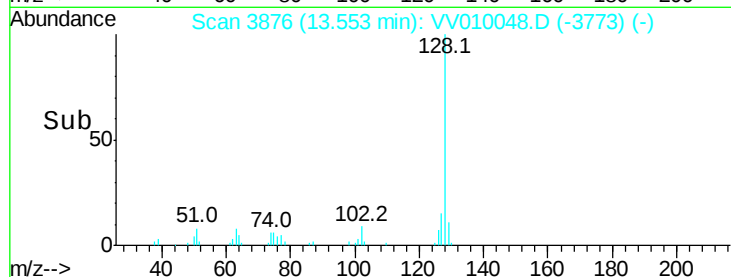
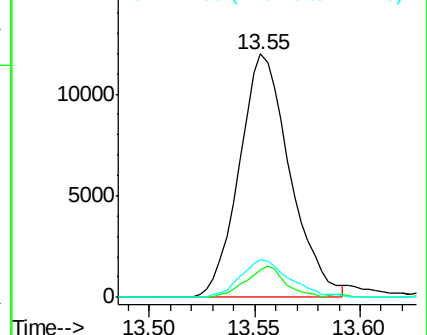
127 15.0 10.6 15.8



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: 3.988 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV010048.D

Acq: 01 Apr 2019 15:02

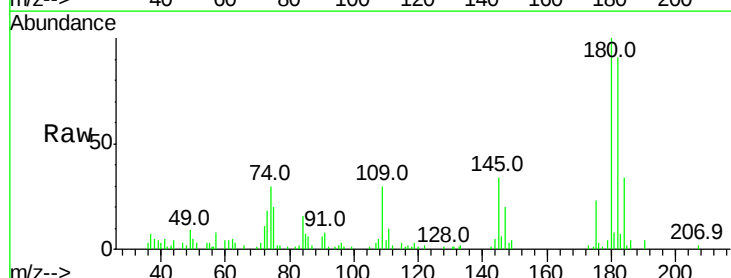
Tgt Ion:180 Resp: 16242

Ion Ratio Lower Upper

180 100

182 93.5 74.2 111.2

145 34.9 26.7 40.1



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

