

Data File : VV009657.D
Acq On : 14 Mar 2019 00:54
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Quant Time: Mar 14 07:43:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 14 07:37:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	126083	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	122809	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	59969	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	35223	21.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.40%
7) Chloroethane-d5	1.56	69	37958	19.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	76.32%
10) 1,1-Dichloroethene-d2	2.12	63	100260	23.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.04%
20) 2-Butanone-d5	3.93	46	31317	74.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	148.32%#
24) Chloroform-d	4.40	84	79849	24.84	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	99.36%
26) 1,2-Dichloroethane-d4	5.08	65	49796	27.38	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.52%
29) Benzene-d6	5.10	84	157683	24.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.92%
33) 1,2-Dichloropropane-d6	6.12	67	47921	25.46	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	101.84%
37) Toluene-d8	7.36	98	150171	24.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	96.36%
38) trans-1,3-Dichloropropene-	7.66	79	21686	25.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.28%
39) 2-Hexanone-d5	8.13	63	24799	71.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	143.10%#
48) 1,1,2,2-Tetrachloroethane-	10.26	84	52684	29.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	118.24%
61) 1,2-Dichlorobenzene-d4	11.67	152	55190	23.76	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	42236	21.651 ug/L	98
3) Chloromethane	1.24	50	41587	23.928 ug/L	99
5) Vinyl chloride	1.32	62	42876	22.961 ug/L	98
6) Bromomethane	1.51	94	41065	19.870 ug/L	99
8) Chloroethane	1.58	64	33909	21.146 ug/L	97
9) Trichlorofluoromethane	1.76	101	90469	22.838 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	50265	23.335 ug/L	99
12) 1,1-Dichloroethene	2.13	96	44377	23.482 ug/L	97
13) Acetone	2.19	43	32421	63.687 ug/L	99
14) Carbon disulfide	2.31	76	109778	23.196 ug/L	99
15) Methyl Acetate	2.46	43	26511	35.694 ug/L	100
16) Methylene chloride	2.53	84	45167	24.608 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	110083	28.043 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	40991	24.885 ug/L	99
19) 1,1-Dichloroethane	3.23	63	75296	26.189 ug/L	98
21) 2-Butanone	4.02	43	37996	60.457 ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	49059	26.577 ug/L	96

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	22792	26.708	ug/L	95
25) Chloroform	4.42	83	85466	26.089	ug/L	98
27) 1,2-Dichloroethane	5.18	62	62552	27.654	ug/L	100
30) Cyclohexane	4.72	56	60648	21.860	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	68380	23.777	ug/L	98
32) Carbon tetrachloride	4.87	117	57241	23.490	ug/L	99
34) Benzene	5.14	78	175473	25.204	ug/L	100
35) Trichloroethene	5.96	95	46469	24.037	ug/L	99
36) Methylcyclohexane	6.18	83	67028	20.879	ug/L	97
40) 1,2-Dichloropropane	6.22	63	42285	24.999	ug/L	98
41) Bromodichloromethane	6.55	83	58703	25.224	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	68529	26.684	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	76844	66.436	ug/L	99
44) Toluene	7.43	91	191947	24.753	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	58456	26.358	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	39460	27.921	ug/L	97
47) Tetrachloroethene	8.02	164	34108	22.335	ug/L	98
49) 2-Hexanone	8.18	43	54836	63.126	ug/L	99
50) Dibromochloromethane	8.29	129	44064	27.492	ug/L	97
51) 1,2-Dibromoethane	8.40	107	40850	29.182	ug/L	94
52) Chlorobenzene	8.93	112	125977	24.967	ug/L	99
53) Ethylbenzene	9.05	91	213435	24.885	ug/L	99
54) m,p-Xylene	9.18	106	80523	24.872	ug/L	99
55) o-xylene	9.59	106	80939	25.473	ug/L	98
56) Styrene	9.60	104	136830	26.403	ug/L	99
57) Isopropylbenzene	9.97	105	205453	24.381	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	55916	30.514	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	40946	31.125	ug/L	97
62) Bromoform	9.77	173	24807	27.071	ug/L	97
63) 1,3-Dichlorobenzene	11.23	146	94269	24.091	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	95569	23.994	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	93614	25.712	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	9176	34.042	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	64015	23.491	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	49269	25.505	ug/L	97
69) Naphthalene	13.55	128	97375	30.519	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	48398	27.245	ug/L	98

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

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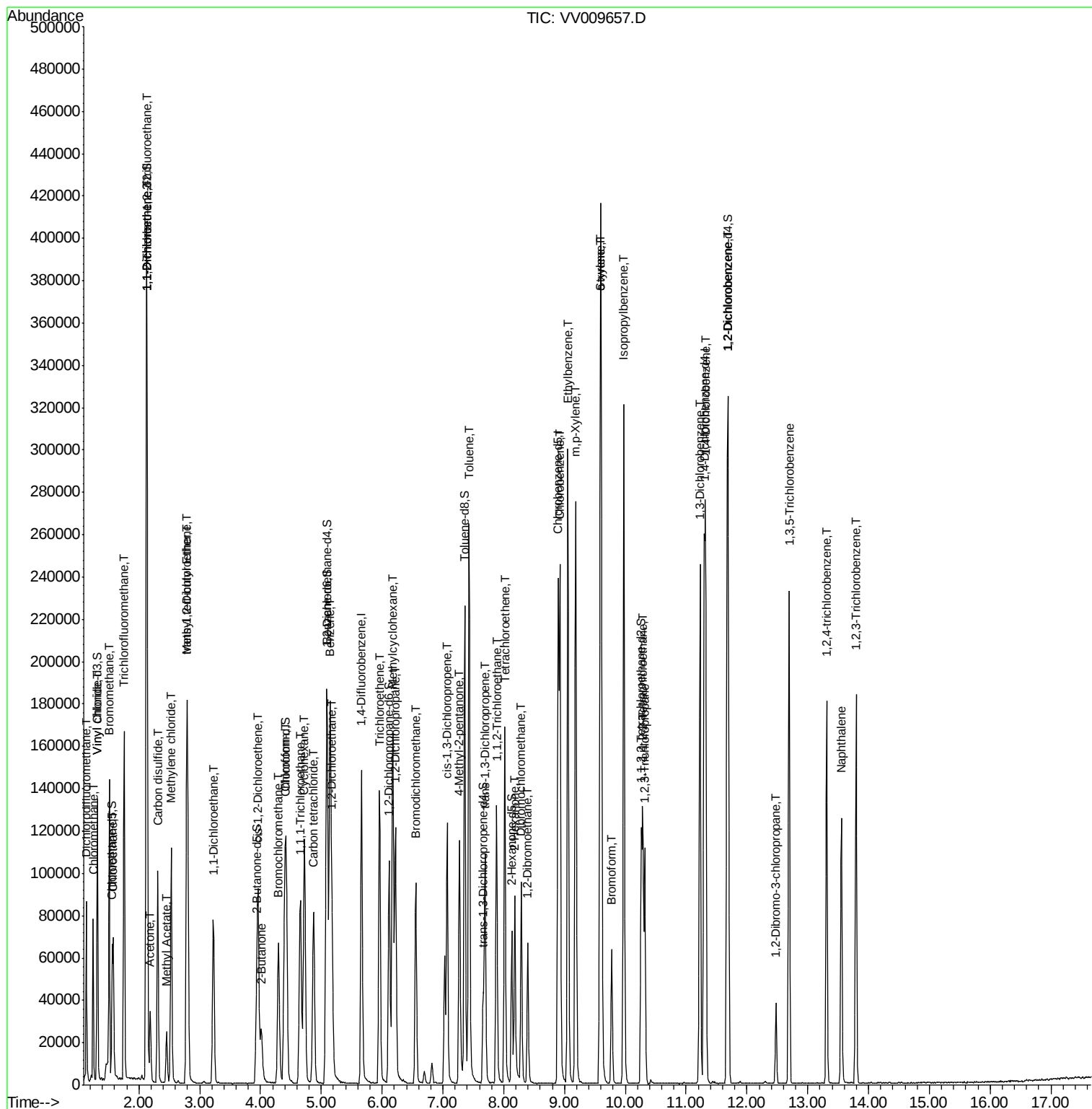
Quant Time: Mar 14 07:43:20 2019

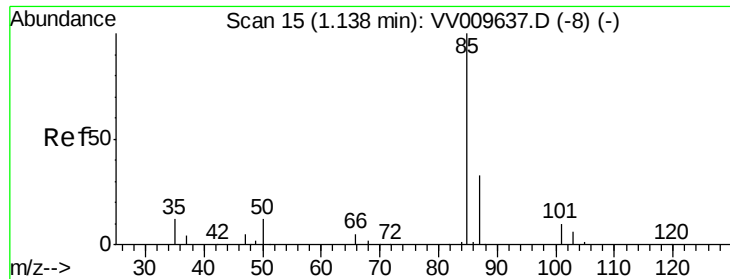
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM031319S.M

Quant Title : VOC Analysis

QLast Update : Thu Mar 14 07:37:27 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.651 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

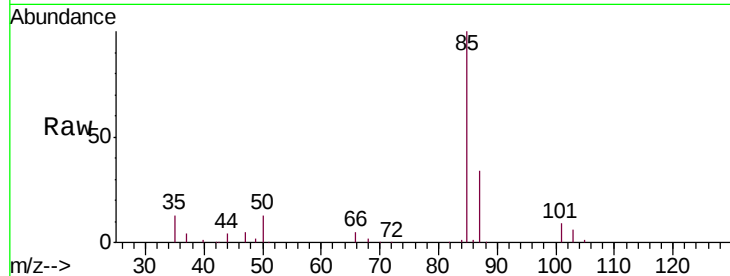
VSTD02562

Tgt Ion: 85 Resp: 42236

Ion Ratio Lower Upper

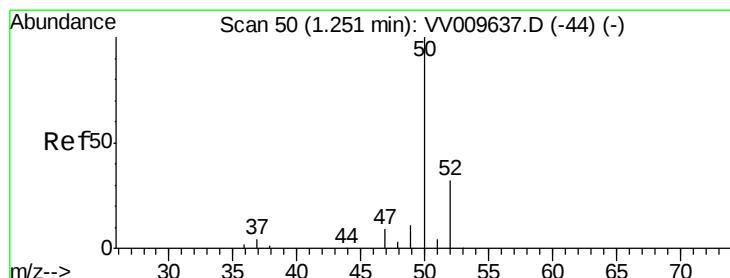
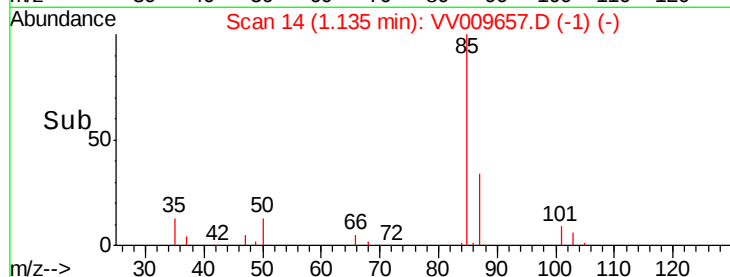
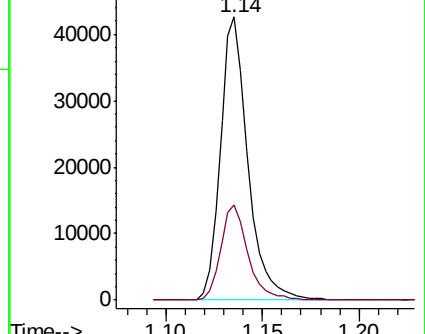
85 100

87 33.2 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009637.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009637.D (-8) (-)



#3

Chloromethane

Concen: 23.928 ug/L

RT: 1.24 min Scan# 48

Delta R.T. -0.01 min

Lab File: VV009657.D

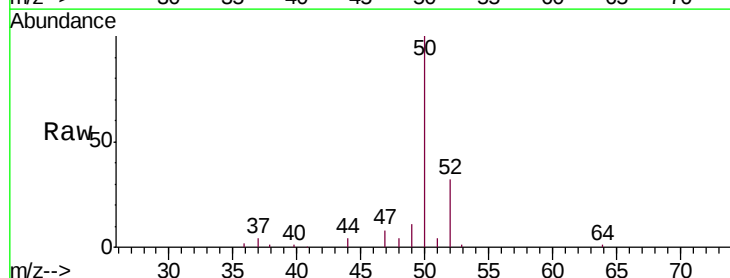
Acq: 14 Mar 2019 00:54

Tgt Ion: 50 Resp: 41587

Ion Ratio Lower Upper

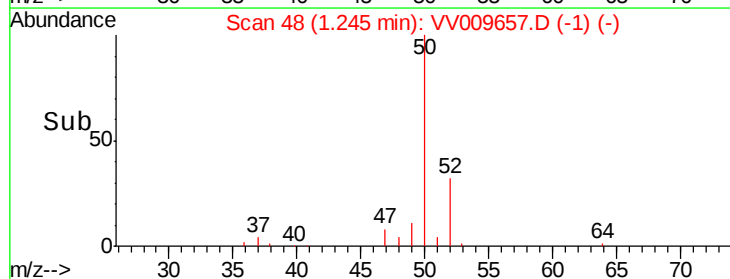
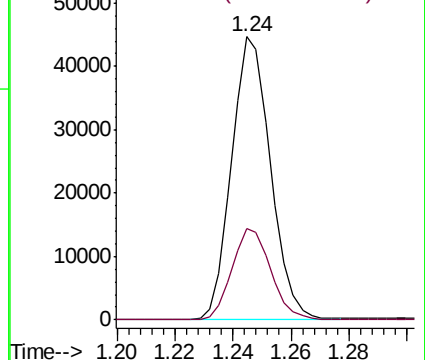
50 100

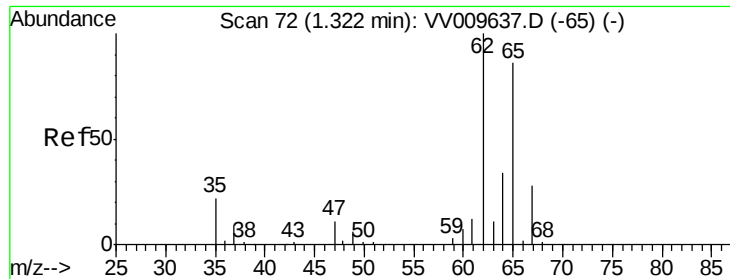
52 32.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV009637.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV009637.D (-44) (-)





#5

Vinyl chloride

Concen: 22.961 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

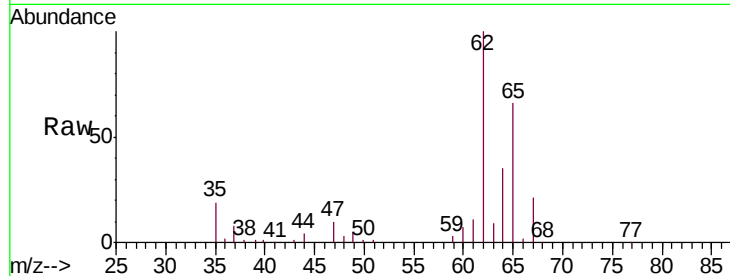
VSTD02562

Tgt Ion: 62 Resp: 42876

Ion Ratio Lower Upper

62 100

64 34.9 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

40000

30000

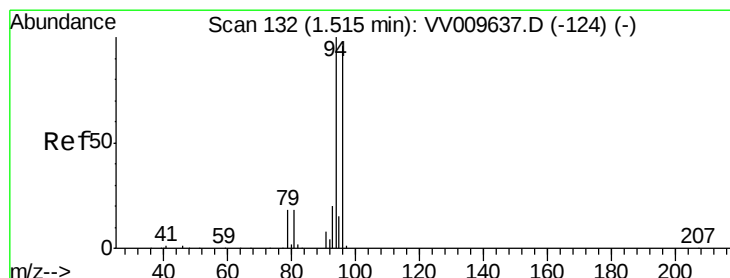
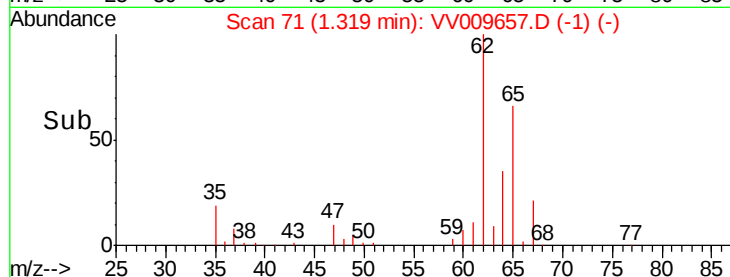
20000

10000

0

1.30 1.35

Time-->



#6

Bromomethane

Concen: 19.870 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.00 min

Lab File: VV009657.D

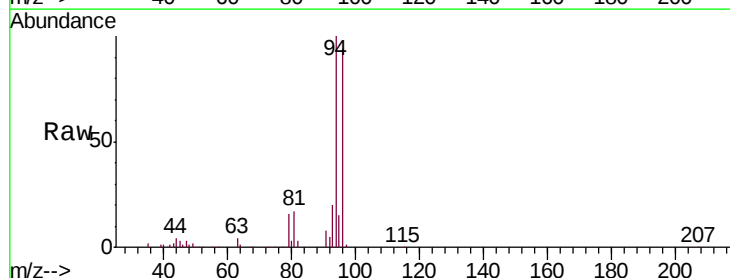
Acq: 14 Mar 2019 00:54

Tgt Ion: 94 Resp: 41065

Ion Ratio Lower Upper

94 100

96 94.6 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.51

50000

40000

30000

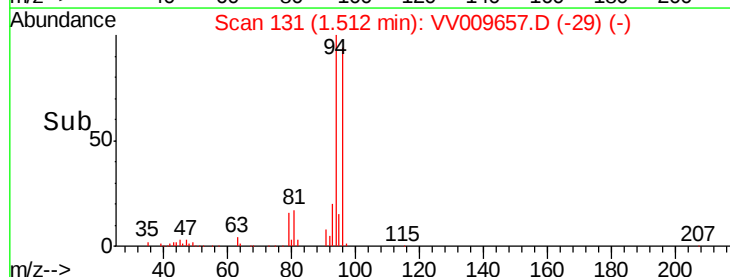
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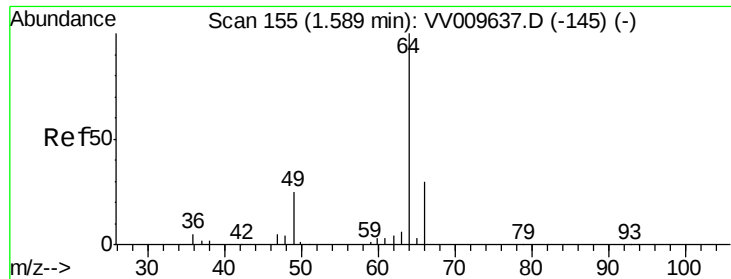
10000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 21.146 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.01 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

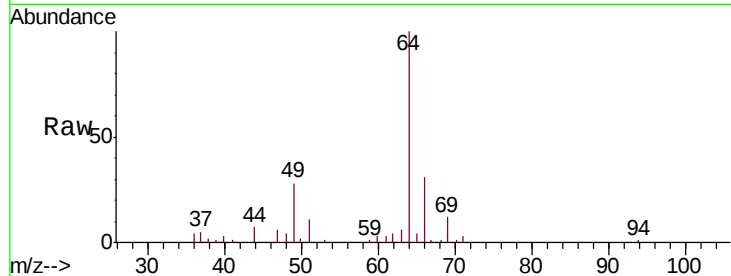
VSTD02562

Tgt Ion: 64 Resp: 33909

Ion Ratio Lower Upper

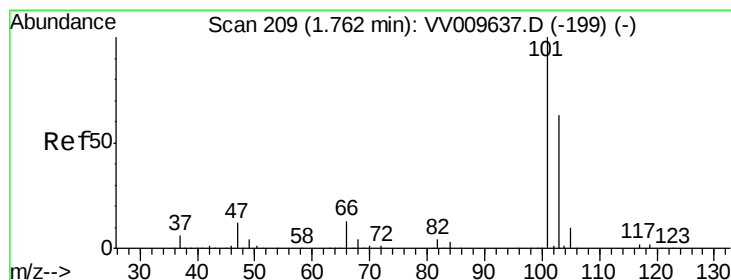
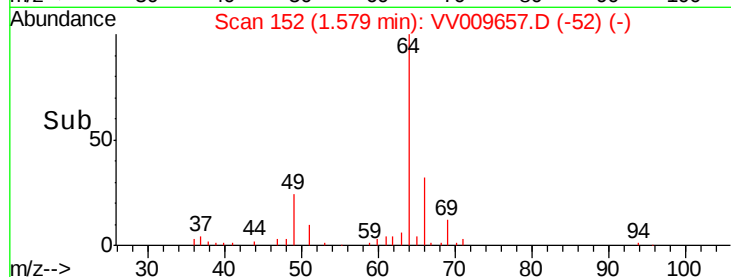
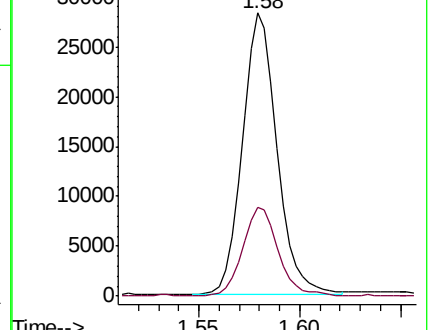
64 100

66 31.4 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VV009637.D (-145) (-)

Ion 66.00 (65.70 to 66.70): VV009637.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 22.838 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.01 min

Lab File: VV009657.D

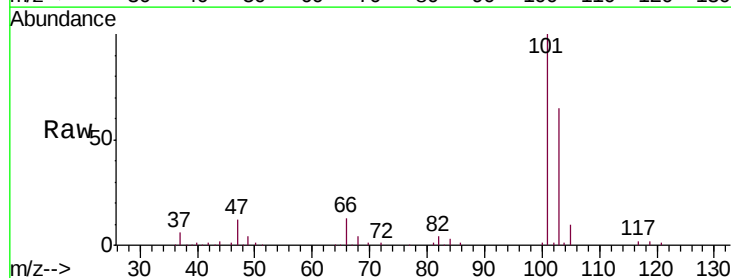
Acq: 14 Mar 2019 00:54

Tgt Ion: 101 Resp: 90469

Ion Ratio Lower Upper

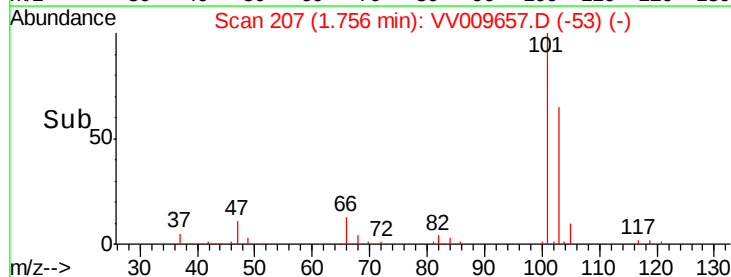
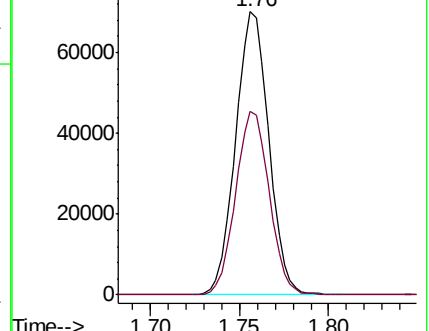
101 100

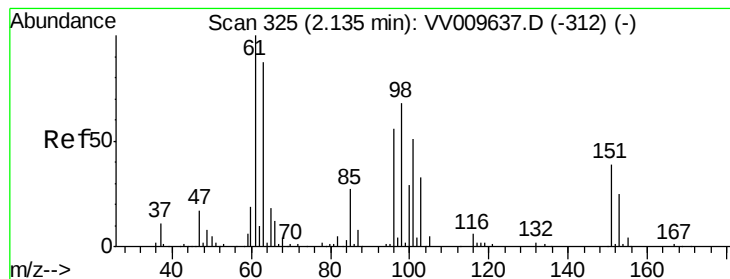
103 65.6 45.4 84.2



Abundance Ion 101.00 (100.70 to 101.70): VV009637.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009637.D (-199) (-)





#11

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

Concen: 23.335 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV009657.D

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Instrument :

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ClientSampleId :

VSTD02562

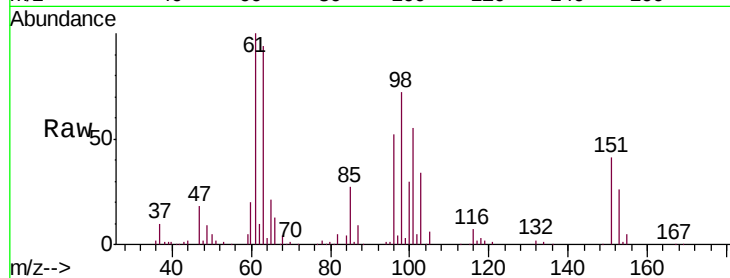
Tgt Ion: 101 Resp: 50265

Ion Ratio Lower Upper

101 100

85 49.1 38.7 58.1

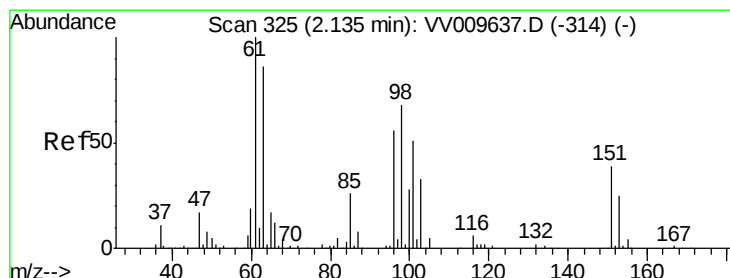
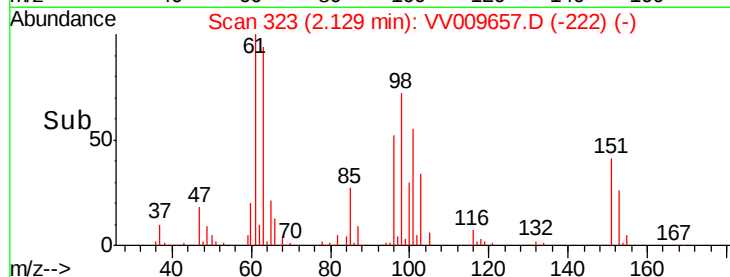
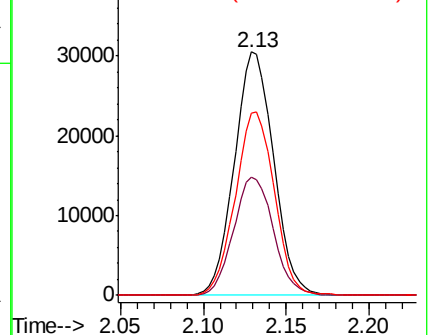
151 74.6 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 23.482 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

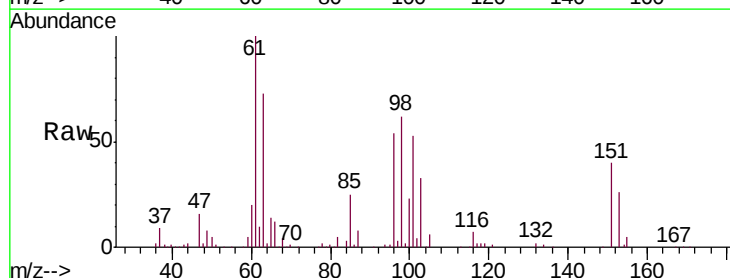
Tgt Ion: 96 Resp: 44377

Ion Ratio Lower Upper

96 100

61 183.9 128.4 238.5

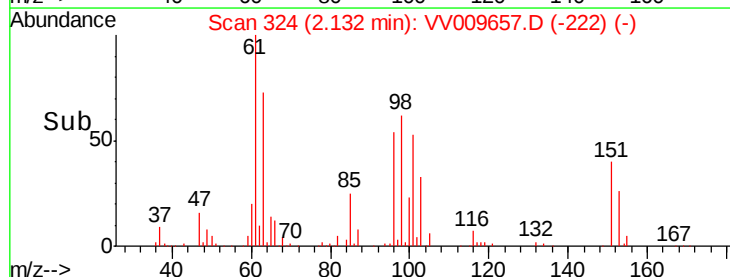
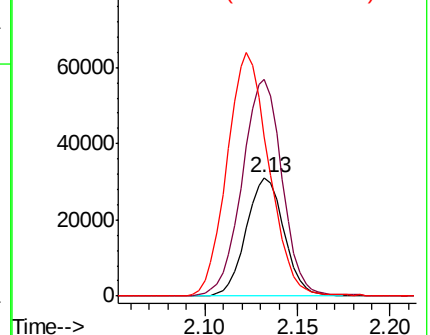
63 134.8 100.7 186.9

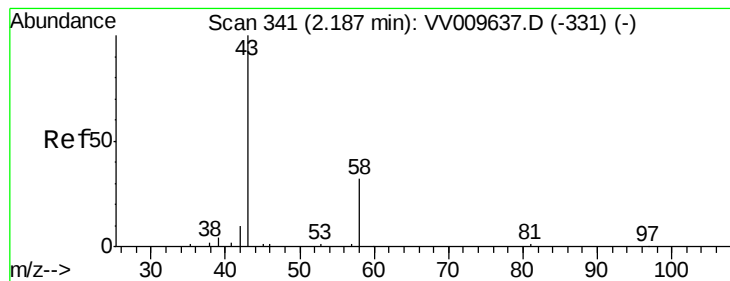


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 63.687 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

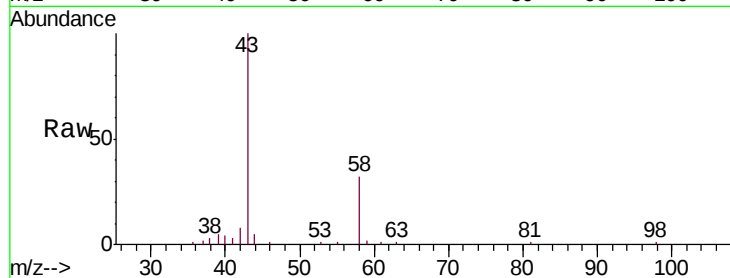
VSTD02562

Tgt Ion: 43 Resp: 32421

Ion Ratio Lower Upper

43 100

58 31.7 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV009637.D (-331) (-)

2.19

20000

15000

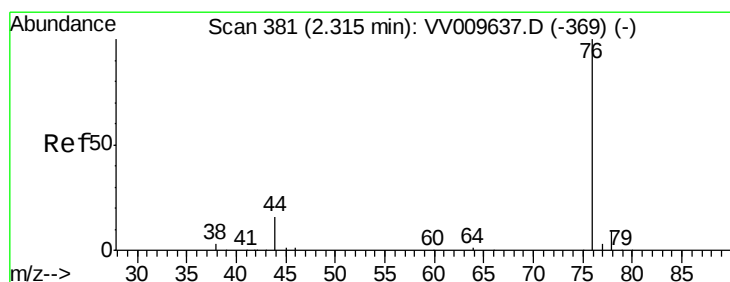
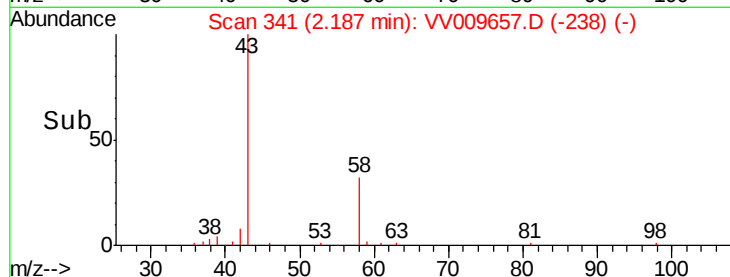
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5000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 23.196 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.01 min

Lab File: VV009657.D

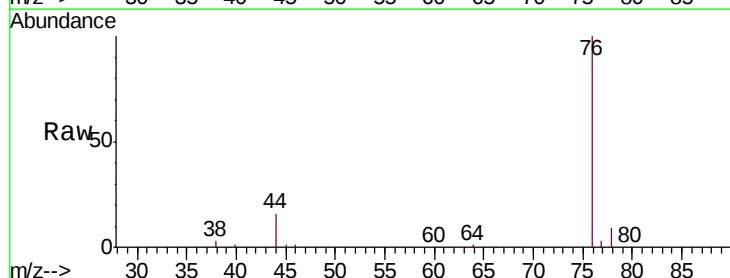
Acq: 14 Mar 2019 00:54

Tgt Ion: 76 Resp: 109778

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009637.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV009637.D (-369) (-)

2.31

80000

60000

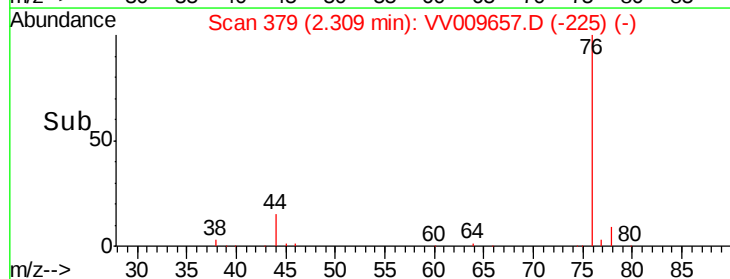
40000

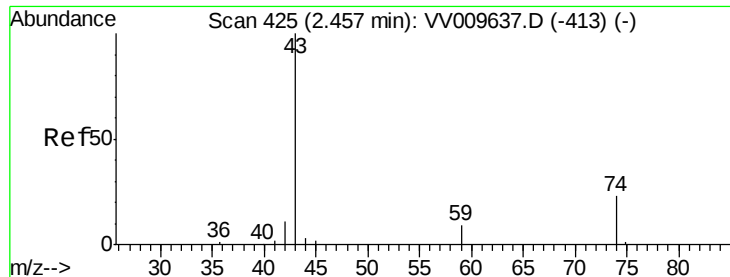
20000

0

2.25 2.30 2.35 2.40

Time-->





#15

Methyl Acetate

Concen: 35.694 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

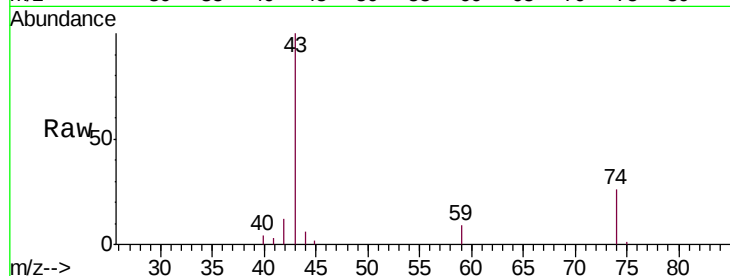
VSTD02562

Tgt Ion: 43 Resp: 26511

Ion Ratio Lower Upper

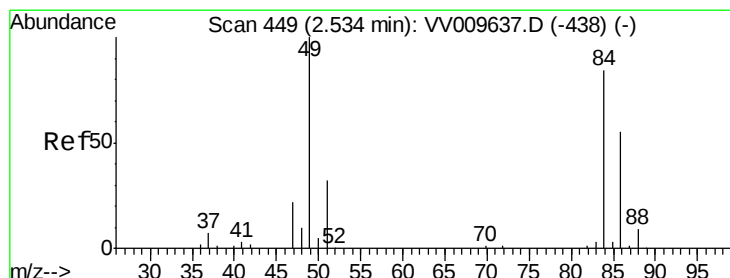
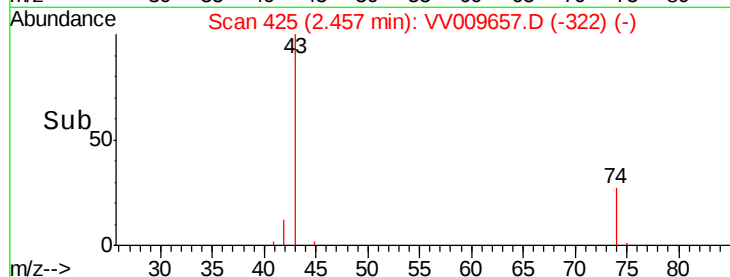
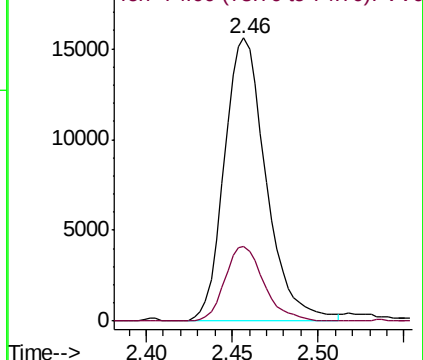
43 100

74 24.6 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-413) (-)

Ion 74.00 (73.70 to 74.70): VV009637.D (-413) (-)



#16

Methylene chloride

Concen: 24.608 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

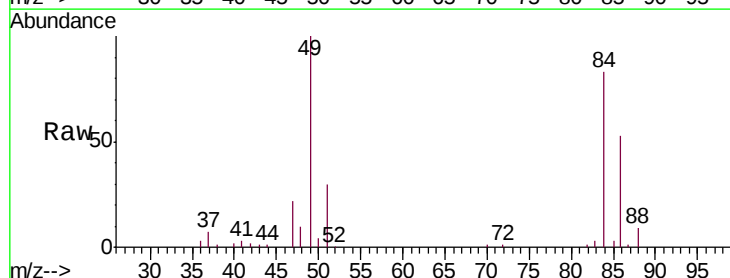
Tgt Ion: 84 Resp: 45167

Ion Ratio Lower Upper

84 100

49 120.1 86.1 159.9

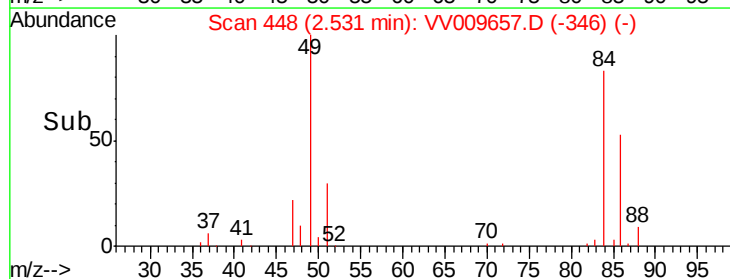
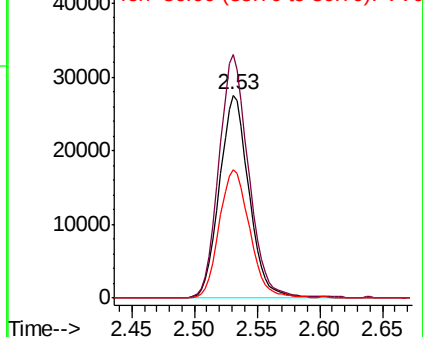
86 63.5 45.2 84.0

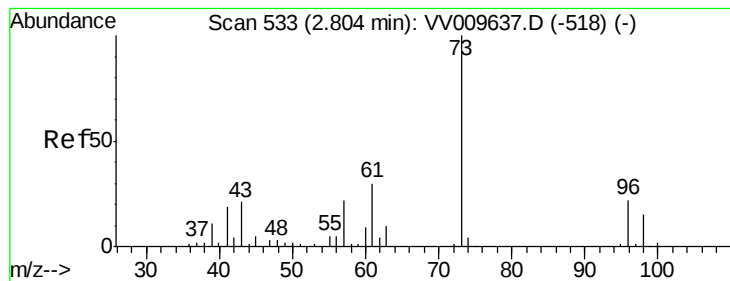


Abundance Ion 84.00 (83.70 to 84.70): VV009637.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV009637.D (-438) (-)

Ion 86.00 (85.70 to 86.70): VV009637.D (-438) (-)





#17

Methyl tert-butyl Ether

Concen: 28.043 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

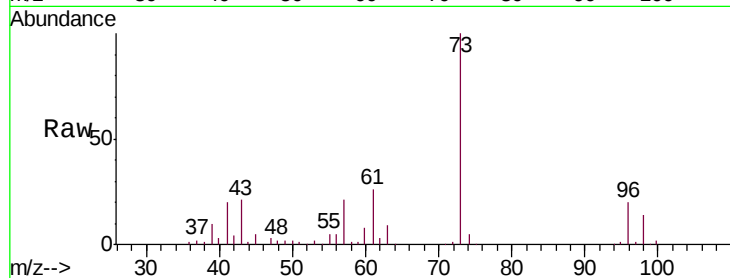
Tgt Ion: 73 Resp: 110083

Ion Ratio Lower Upper

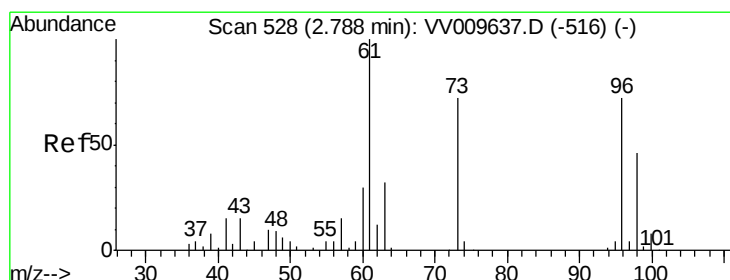
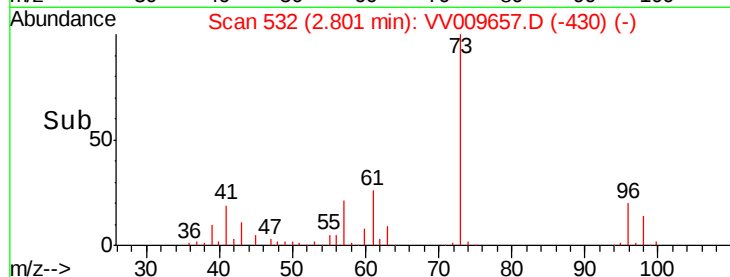
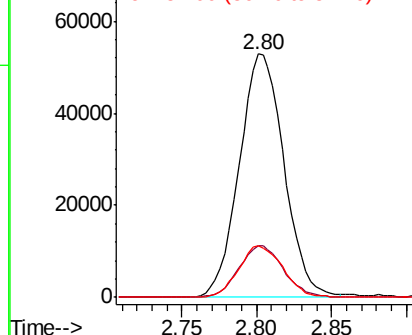
73 100

43 21.3 16.3 24.5

57 21.1 16.7 25.1



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: 24.885 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

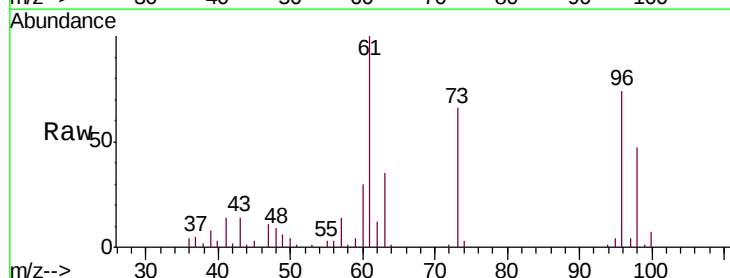
Tgt Ion: 96 Resp: 40991

Ion Ratio Lower Upper

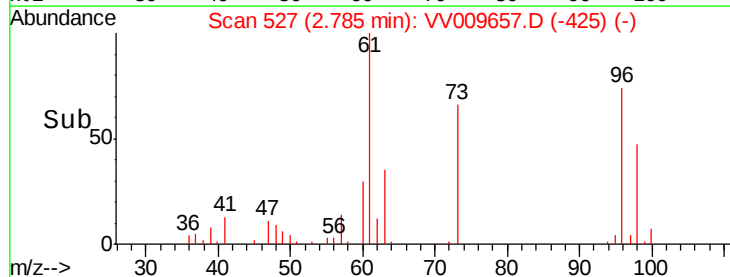
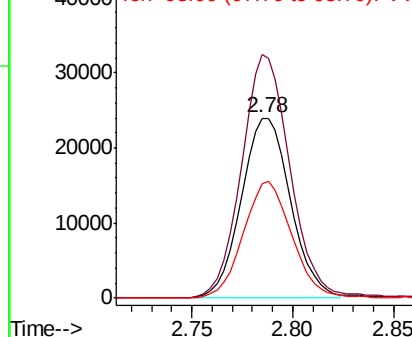
96 100

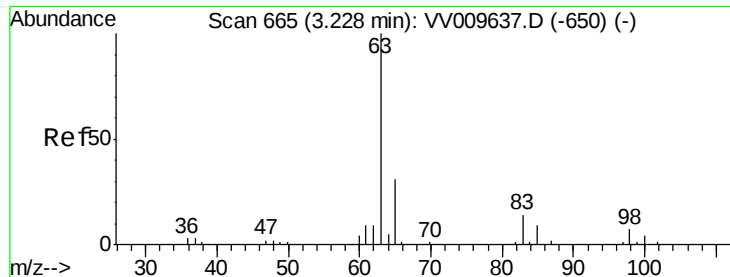
61 135.2 94.4 175.2

98 63.1 45.4 84.4



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

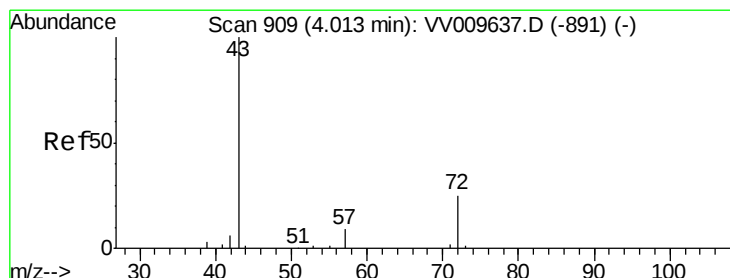
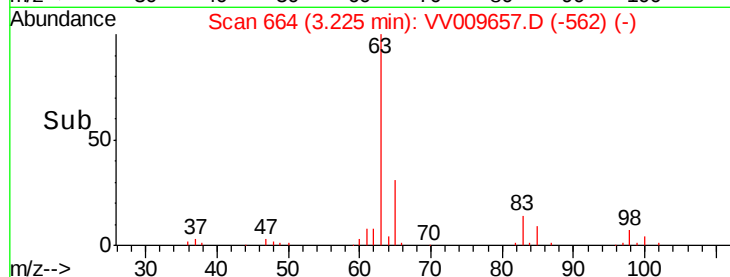
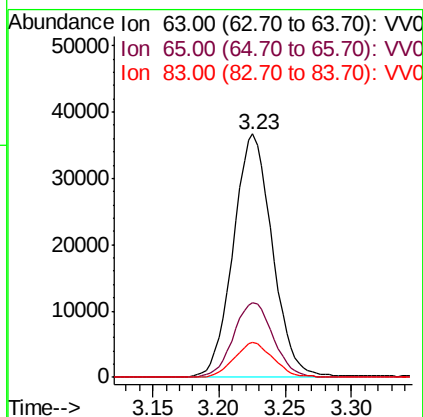
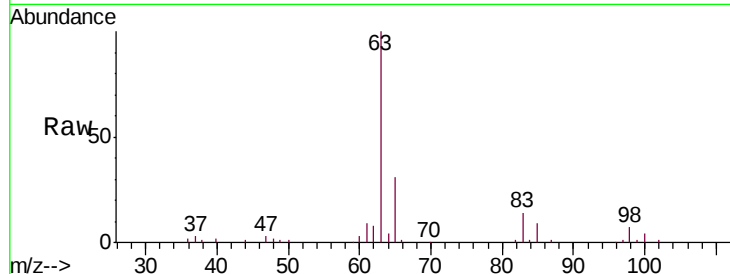




#19
 1,1-Dichloroethane
 Concen: 26.189 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

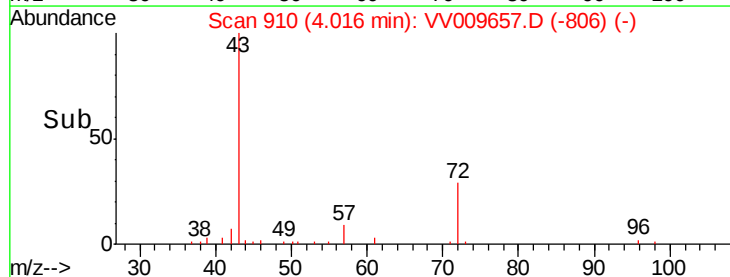
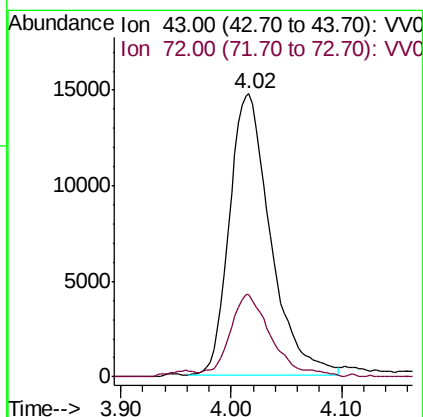
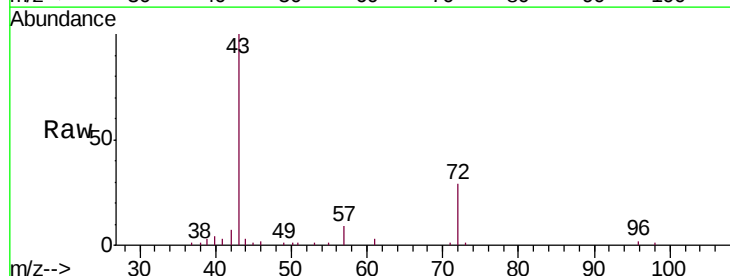
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

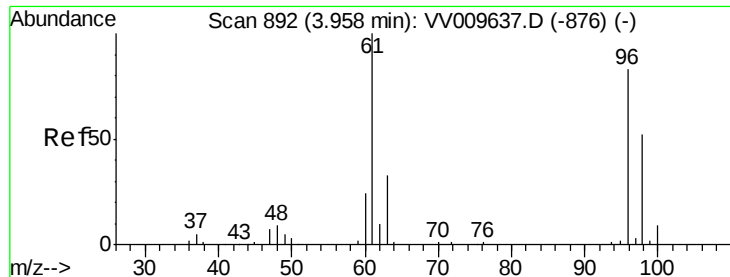
Tgt Ion: 63 Resp: 75296
 Ion Ratio Lower Upper
 63 100
 65 30.8 20.9 38.9
 83 14.3 10.4 19.4



#21
 2-Butanone
 Concen: 60.457 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion: 43 Resp: 37996
 Ion Ratio Lower Upper
 43 100
 72 26.0 14.5 43.5



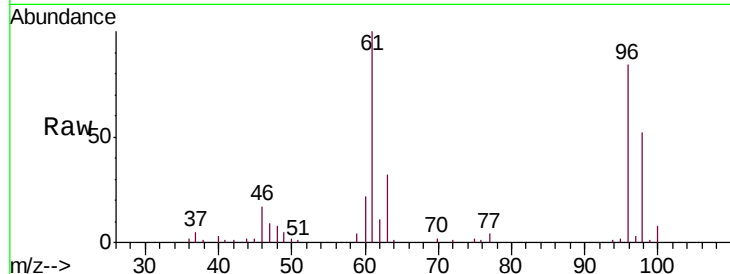


#22

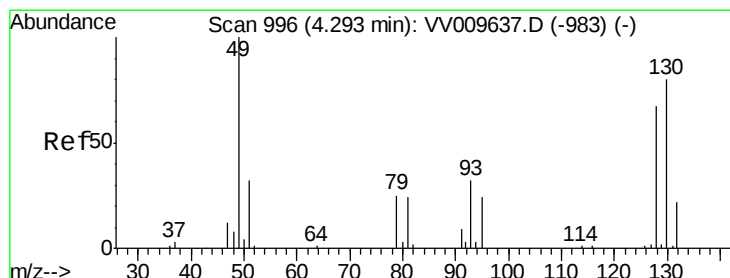
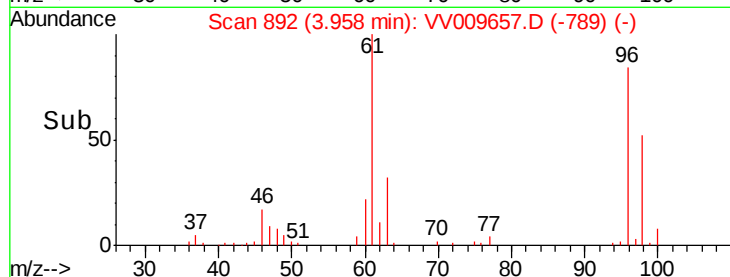
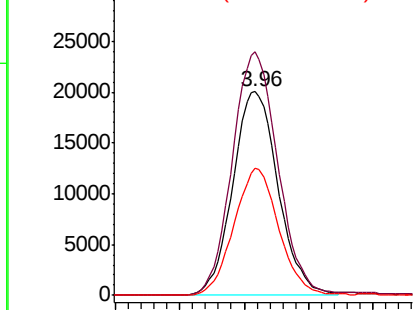
cis-1,2-Dichloroethene
 Concen: 26.577 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion: 96 Resp: 49059
 Ion Ratio Lower Upper
 96 100
 61 119.6 86.2 160.0
 98 62.3 46.5 86.3



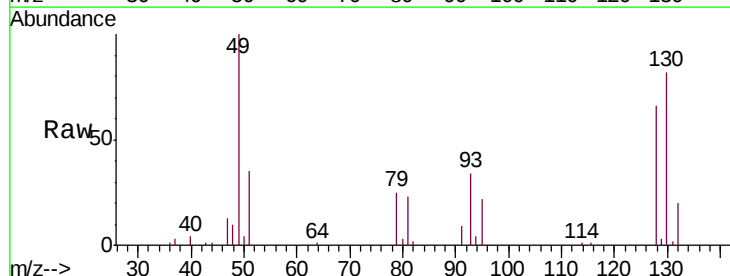
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



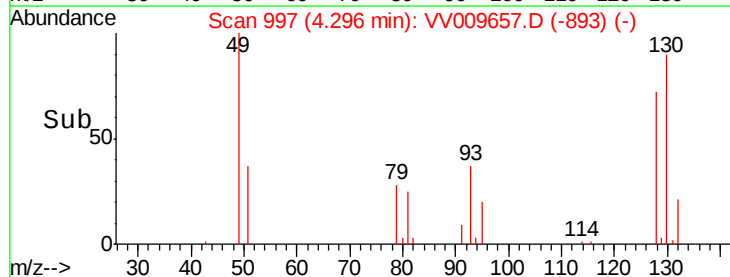
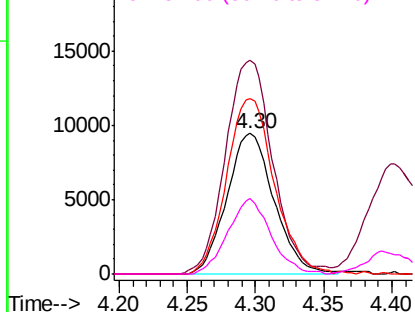
#23

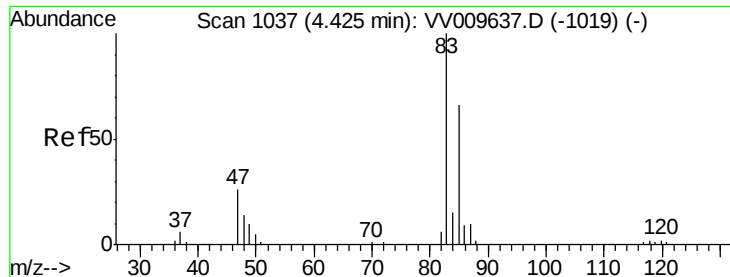
Bromochloromethane
 Concen: 26.708 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion: 128 Resp: 22792
 Ion Ratio Lower Upper
 128 100
 49 151.8 110.0 204.2
 130 124.8 90.4 168.0
 51 53.3 38.1 57.1



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

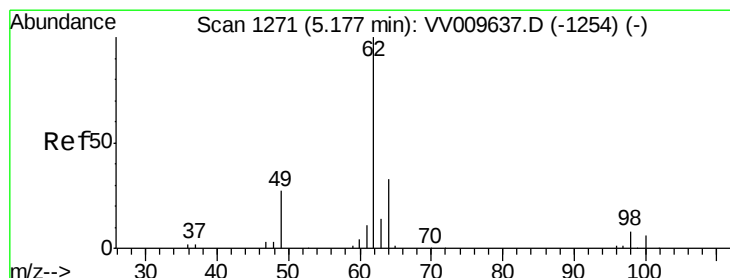
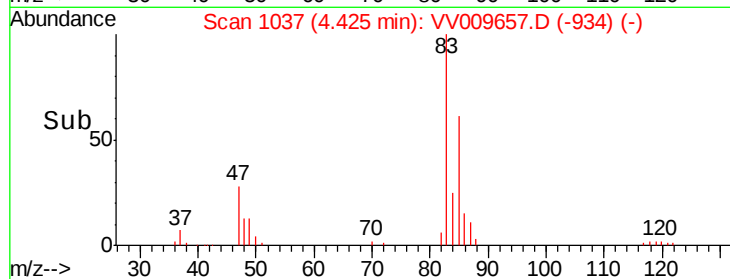
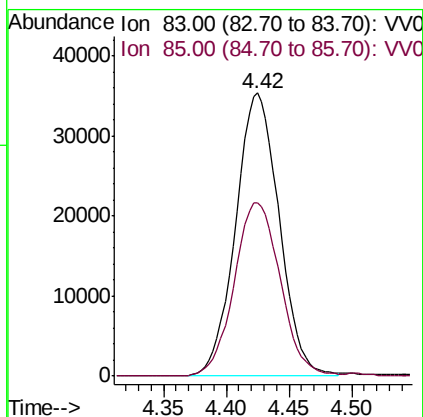
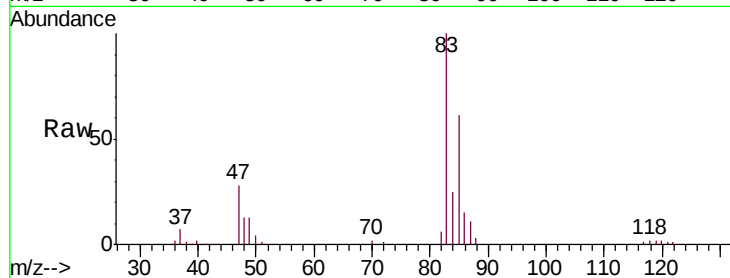




#25
Chloroform
Concen: 26.089 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009657.D
Acq: 14 Mar 2019 00:54

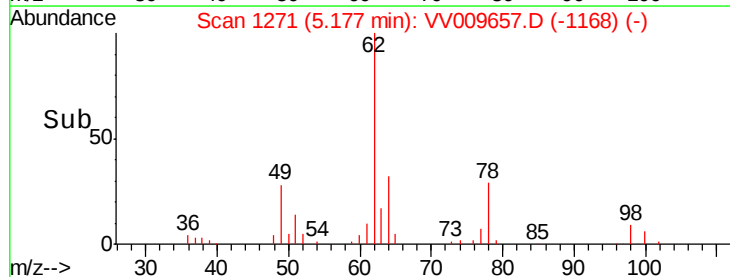
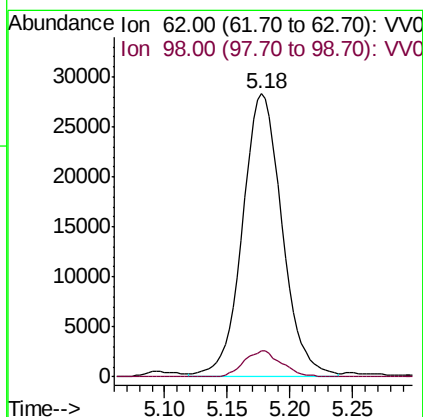
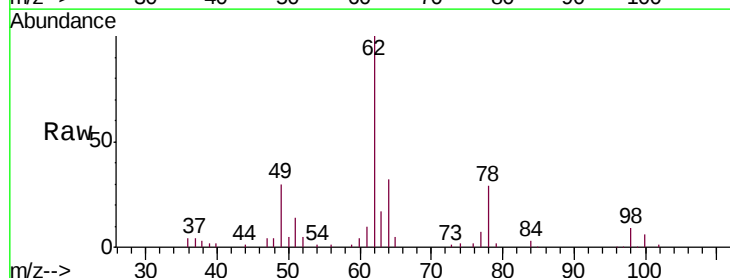
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

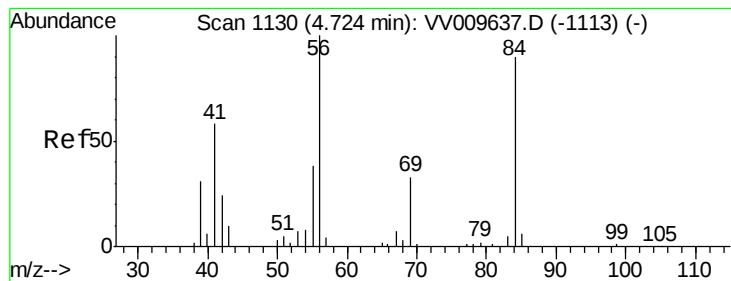
Tgt Ion: 83 Resp: 85466
Ion Ratio Lower Upper
83 100
85 64.7 46.4 86.2



#27
1,2-Dichloroethane
Concen: 27.654 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009657.D
Acq: 14 Mar 2019 00:54

Tgt Ion: 62 Resp: 62552
Ion Ratio Lower Upper
62 100
98 9.1 7.2 10.8





#30

Cyclohexane

Concen: 21.860 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

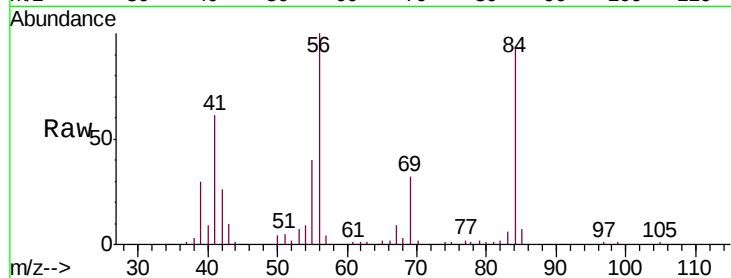
Tgt Ion: 56 Resp: 60648

Ion Ratio Lower Upper

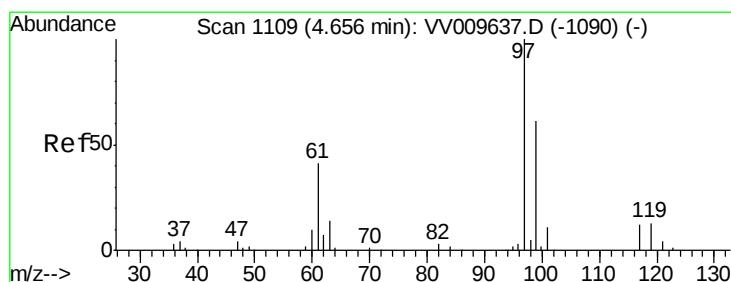
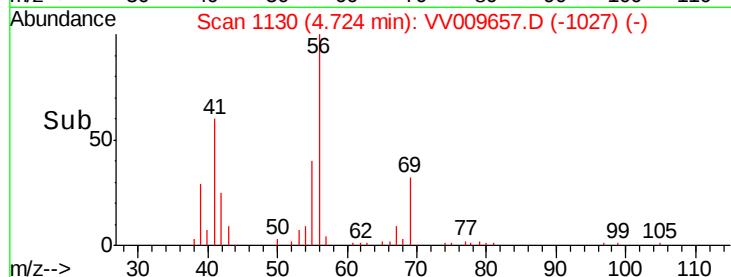
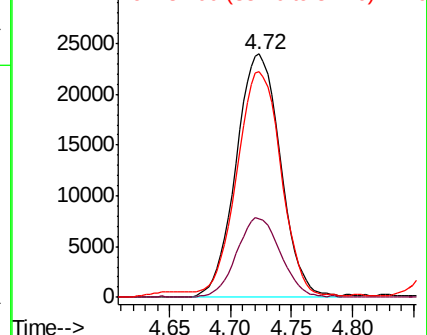
56 100

69 32.0 25.4 38.0

84 89.3 72.6 109.0



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: 23.777 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

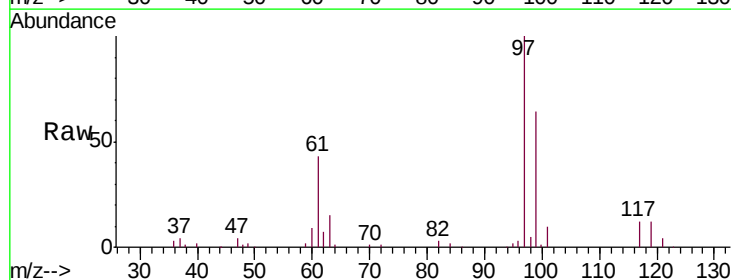
Tgt Ion: 97 Resp: 68380

Ion Ratio Lower Upper

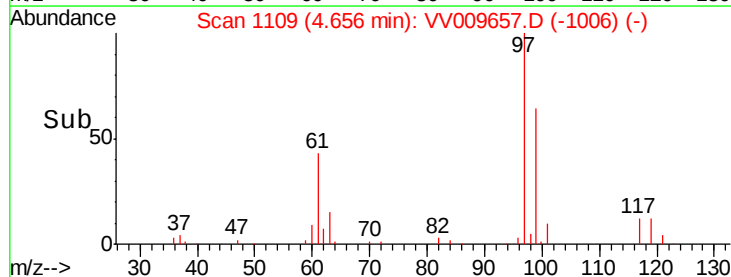
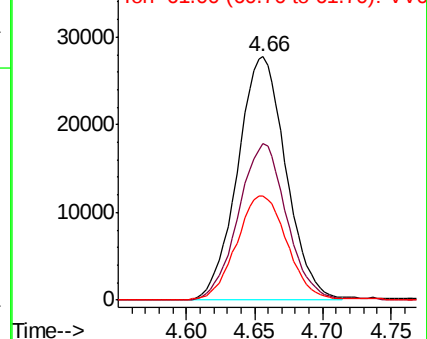
97 100

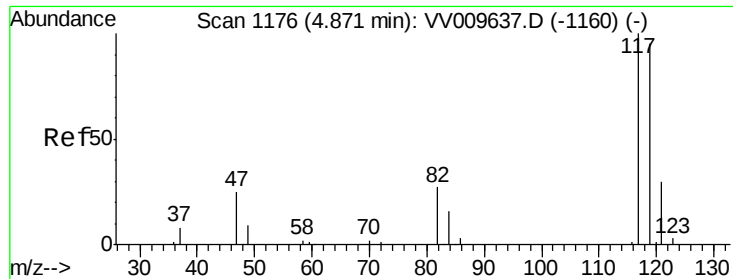
99 63.9 51.0 76.6

61 44.7 33.7 50.5



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: 23.490 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

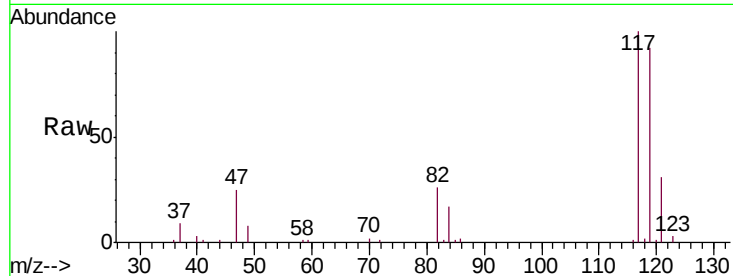
VSTD02562

Tgt Ion:117 Resp: 57241

Ion Ratio Lower Upper

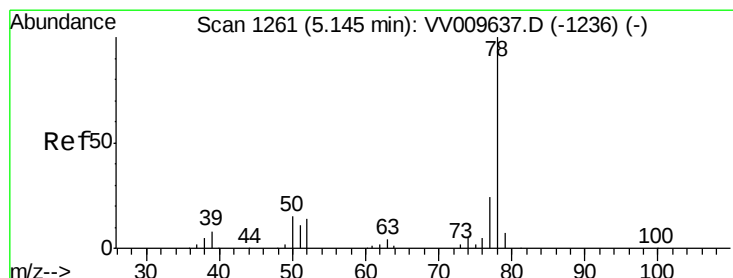
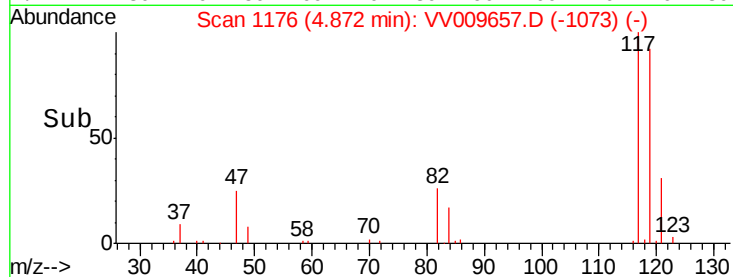
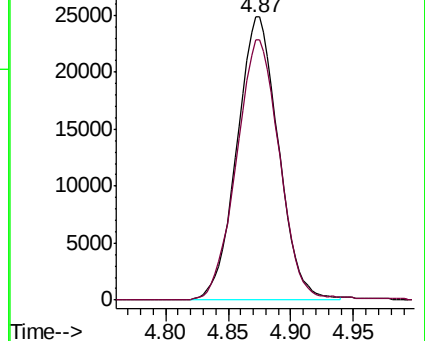
117 100

119 94.4 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.204 ug/L

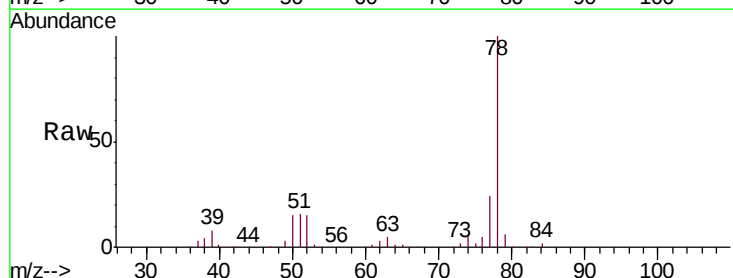
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

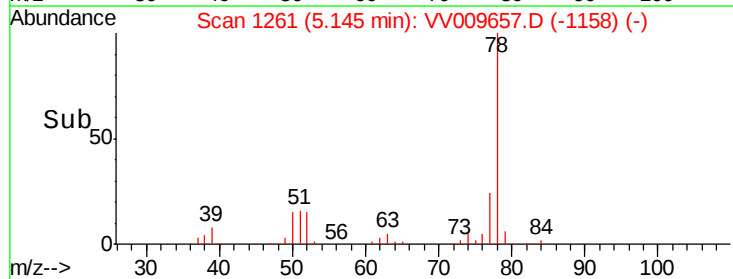
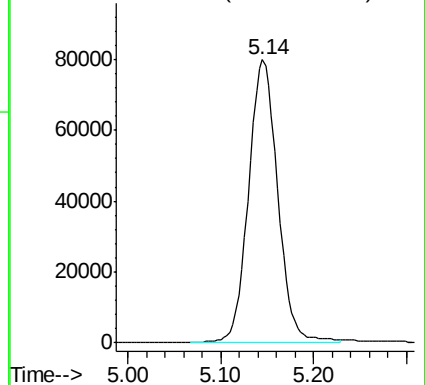
Lab File: VV009657.D

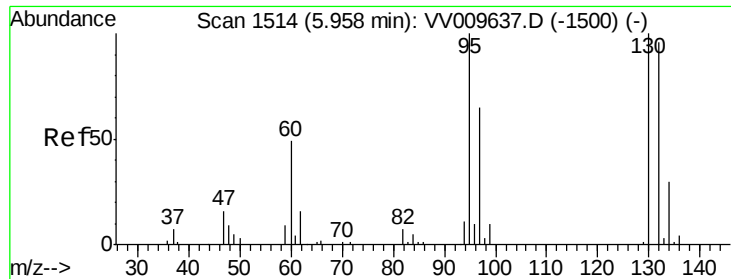
Acq: 14 Mar 2019 00:54

Tgt Ion: 78 Resp: 175473



Abundance Ion 78.00 (77.70 to 78.70): VV0

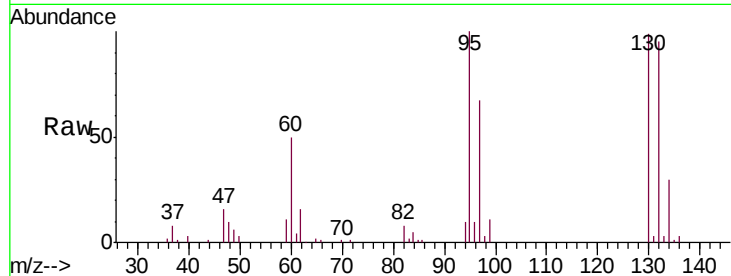




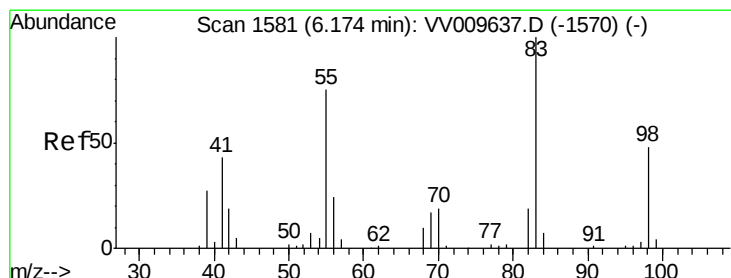
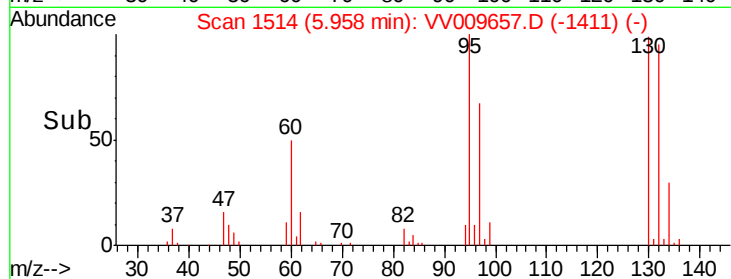
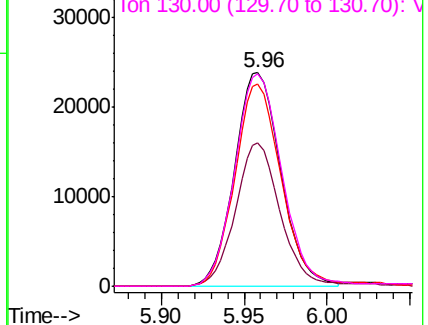
#35
 Trichloroethene
 Concen: 24.037 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion: 95 Resp: 46469
 Ion Ratio Lower Upper
 95 100
 97 65.3 44.9 83.5
 132 94.1 66.4 123.2
 130 101.4 70.2 130.4

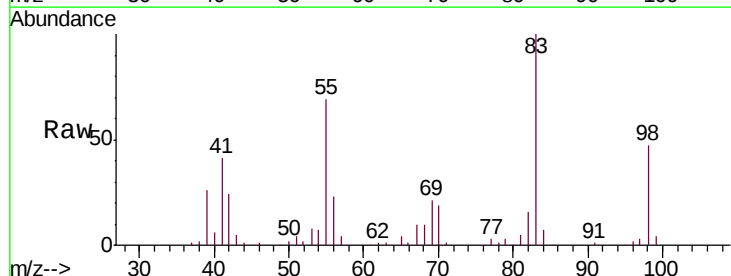


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

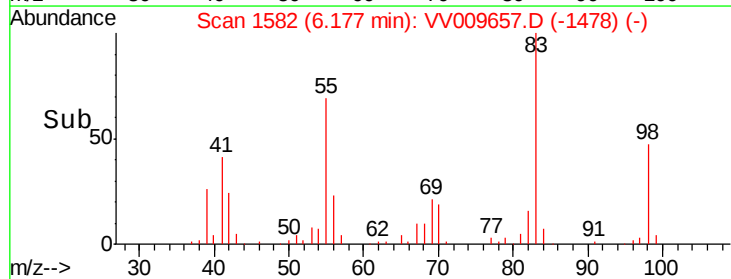
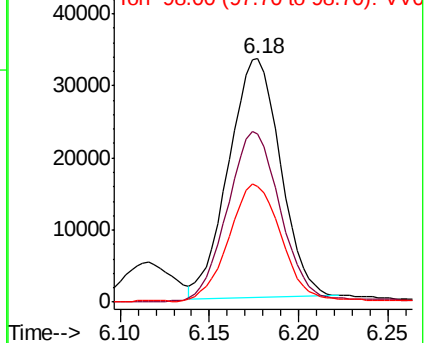


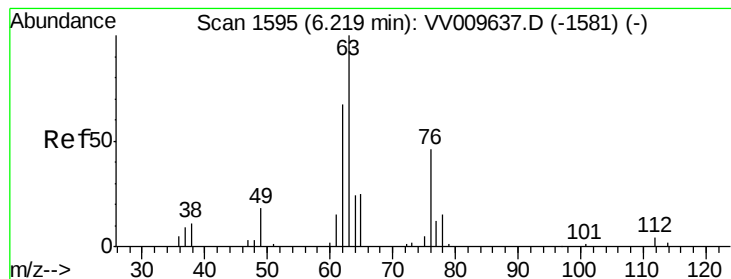
#36
 Methylcyclohexane
 Concen: 20.879 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion: 83 Resp: 67028
 Ion Ratio Lower Upper
 83 100
 55 73.8 57.4 86.0
 98 49.4 37.1 55.7



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: 24.999 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

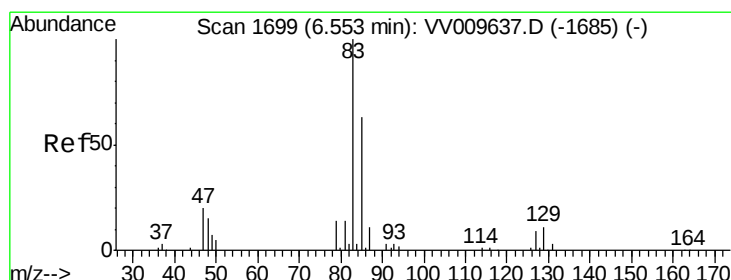
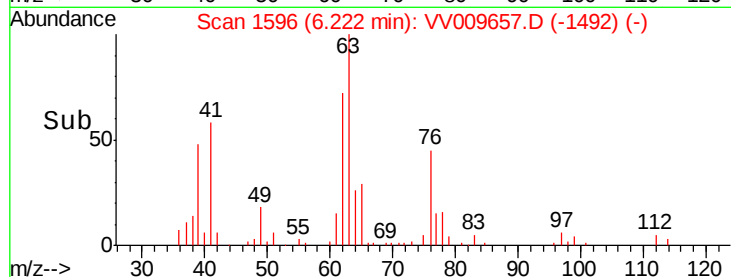
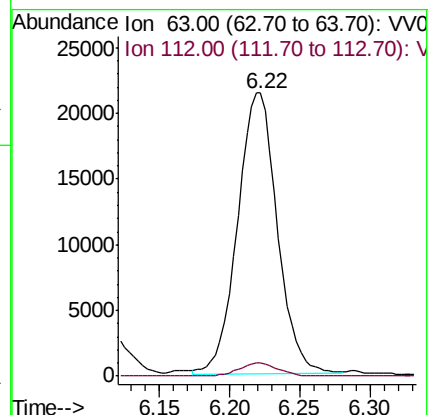
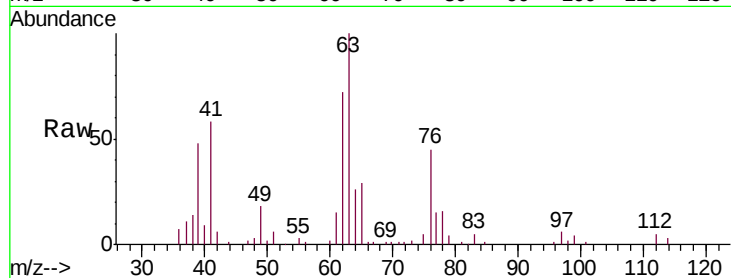
VSTD02562

Tgt Ion: 63 Resp: 42285

Ion Ratio Lower Upper

63 100

112 4.5 3.2 4.8



#41

Bromodichloromethane

Concen: 25.224 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

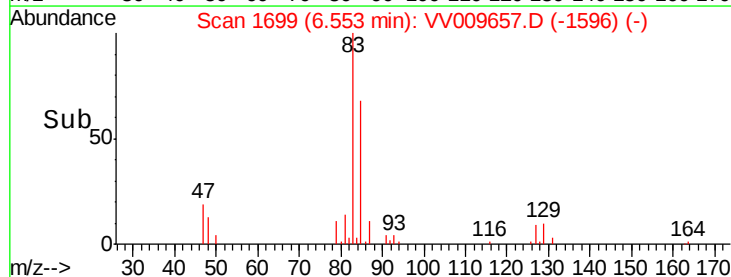
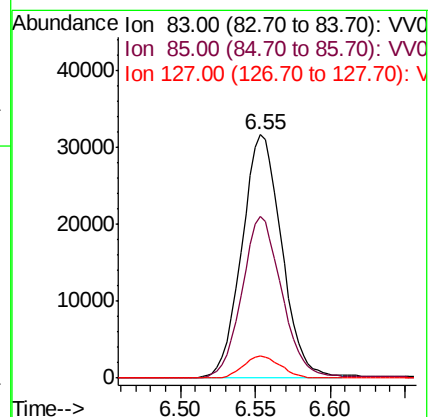
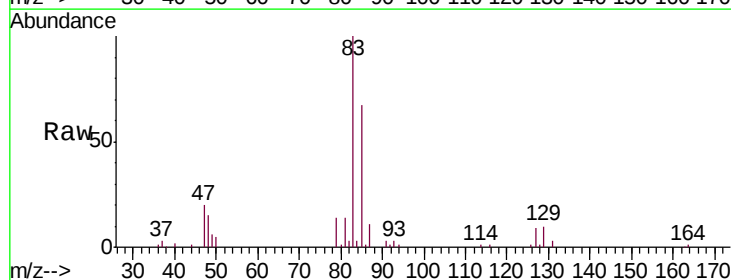
Tgt Ion: 83 Resp: 58703

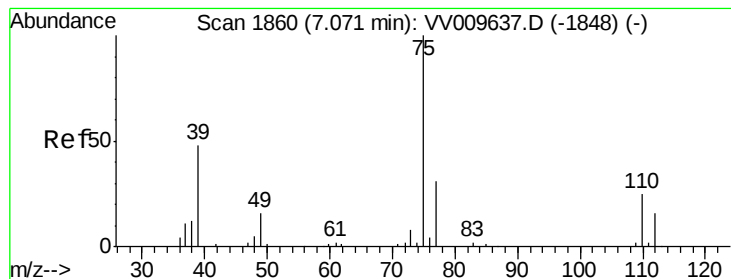
Ion Ratio Lower Upper

83 100

85 66.6 44.4 82.4

127 9.0 6.7 10.1



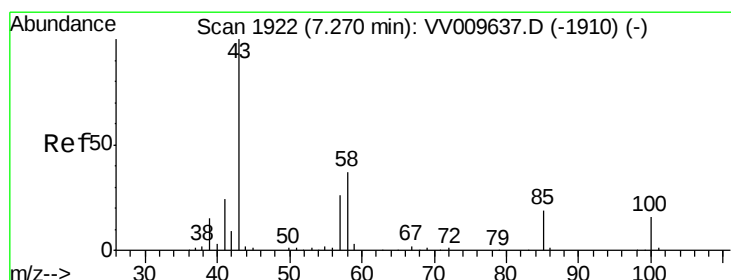
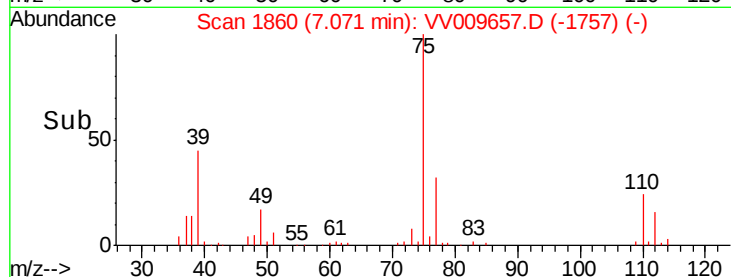
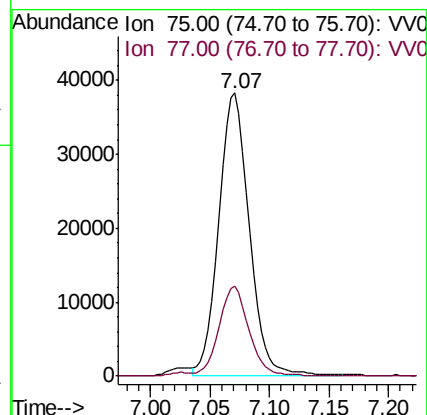
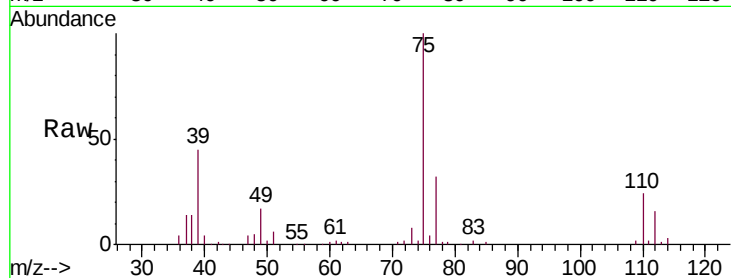


#42

cis-1,3-Dichloropropene
 Concen: 26.684 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

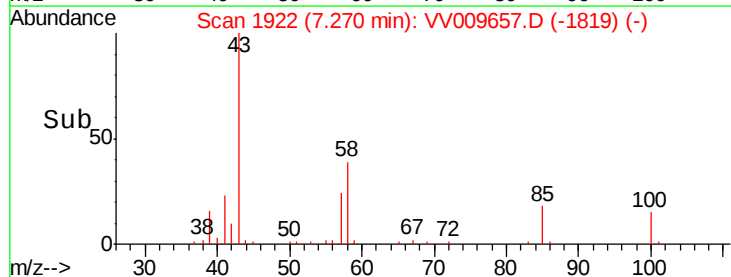
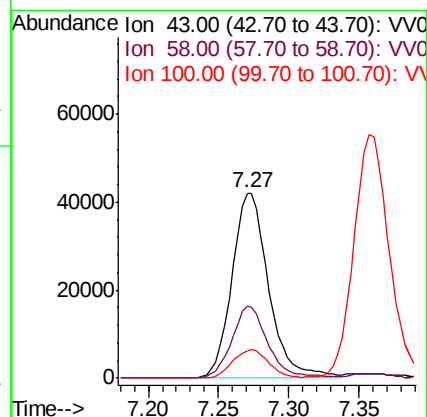
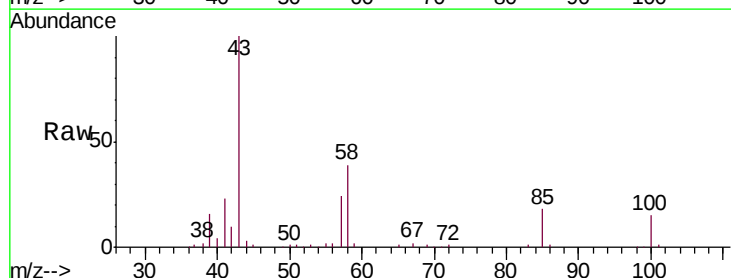
Tgt Ion: 75 Resp: 68529
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.0 40.8

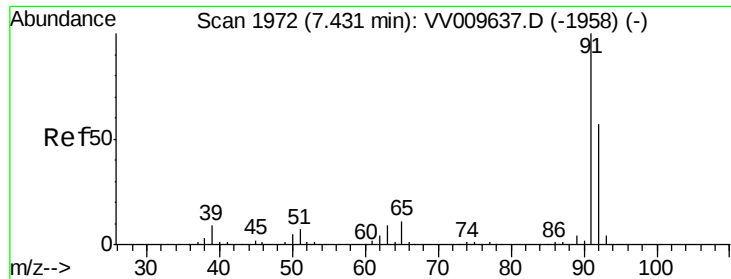


#43

4-Methyl-2-pentanone
 Concen: 66.436 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion: 43 Resp: 76844
 Ion Ratio Lower Upper
 43 100
 58 37.9 30.9 46.3
 100 15.0 11.8 17.6





#44

Toluene

Concen: 24.753 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

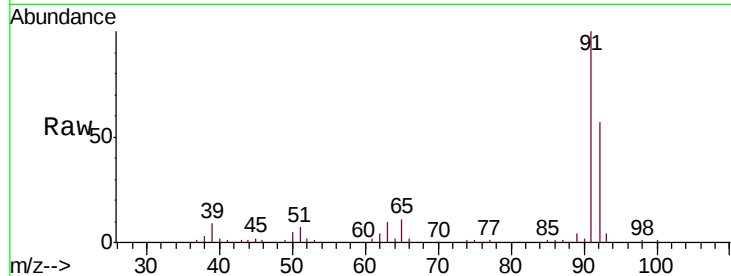
VSTD02562

Tgt Ion: 91 Resp: 191947

Ion Ratio Lower Upper

91 100

92 57.0 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VV009637.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009637.D (-1958) (-)

7.43

120000

100000

80000

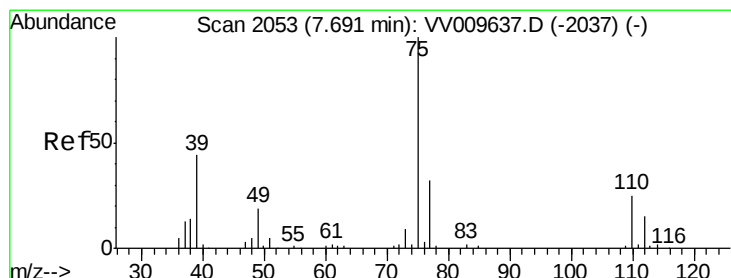
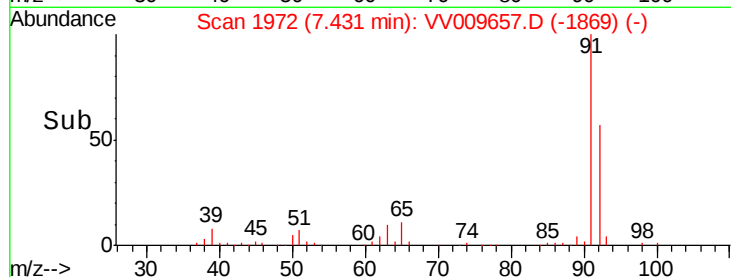
60000

40000

20000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.358 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009657.D

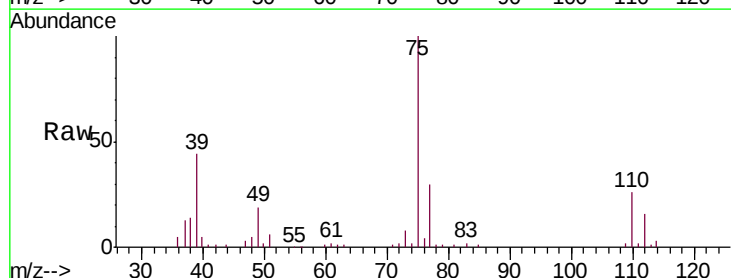
Acq: 14 Mar 2019 00:54

Tgt Ion: 75 Resp: 58456

Ion Ratio Lower Upper

75 100

77 30.5 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV009637.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009637.D (-2037) (-)

7.69

40000

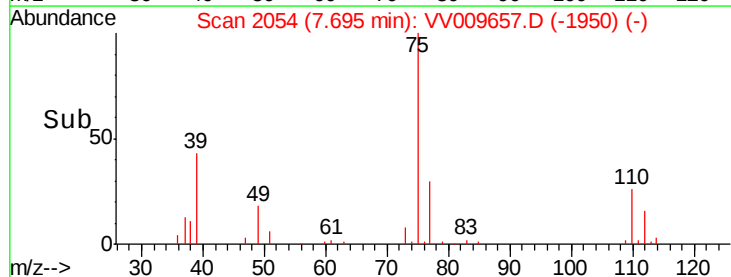
30000

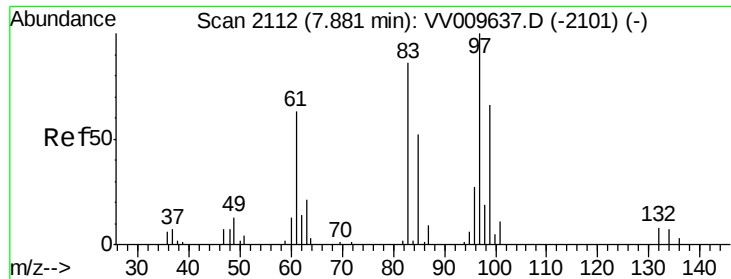
20000

10000

0

Time-->

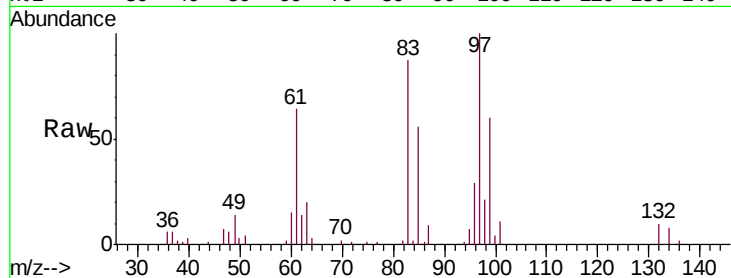




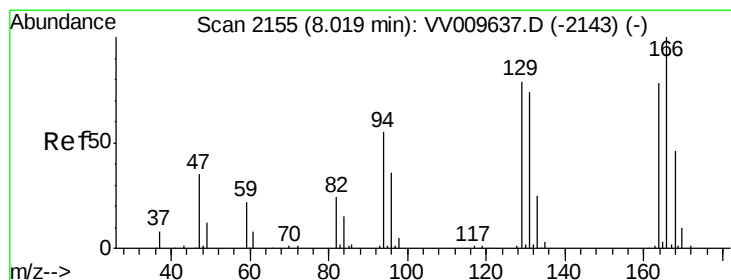
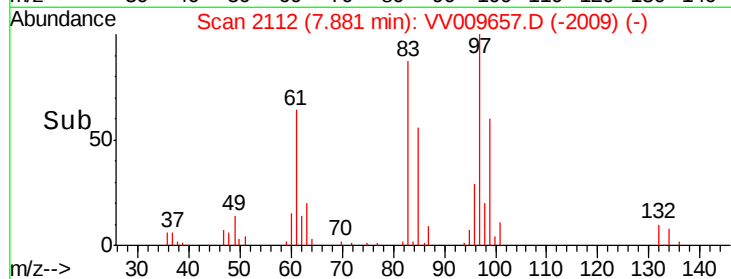
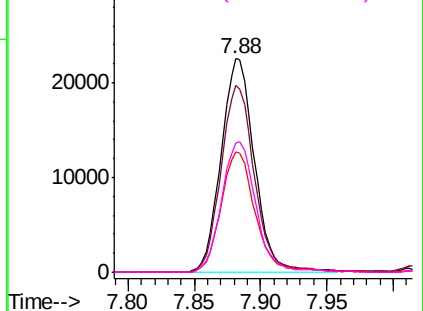
#46
 1,1,2-Trichloroethane
 Concen: 27.921 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:	97	Resp:	39460
Ion	Ratio	Lower	Upper
97	100		
83	87.3	62.9	116.7
85	56.4	40.0	74.2
99	60.4	44.9	83.3

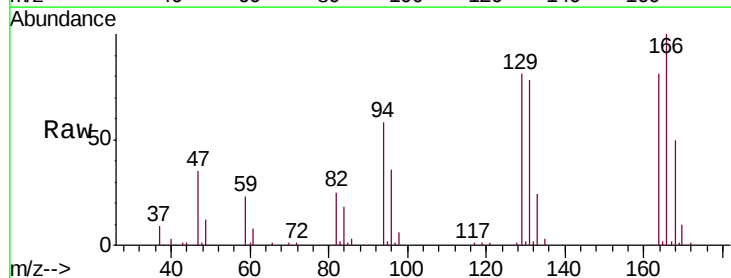


Abundance Ion 97.00 (96.70 to 97.70): VV009637.D (-2101) (-)

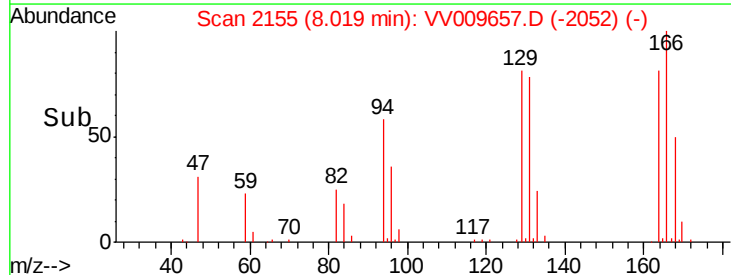
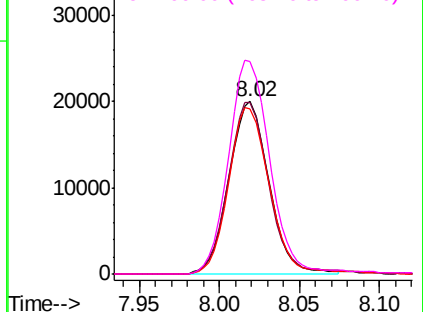


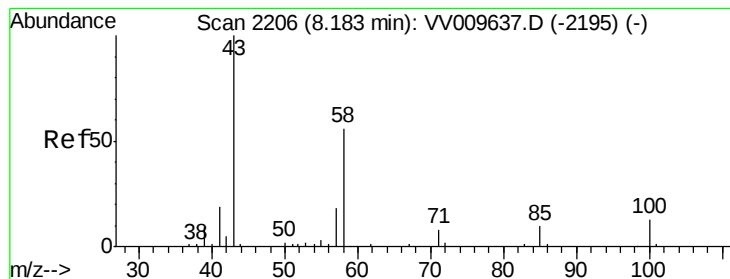
#47
 Tetrachloroethene
 Concen: 22.335 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion:	164	Resp:	34108
Ion	Ratio	Lower	Upper
164	100		
129	99.2	69.0	128.1
131	95.9	65.7	122.1
166	122.8	89.4	166.0



Abundance Ion 164.00 (163.70 to 164.70): VV009637.D (-2143) (-)





#49

2-Hexanone

Concen: 63.126 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

Tgt Ion: 43 Resp: 54836

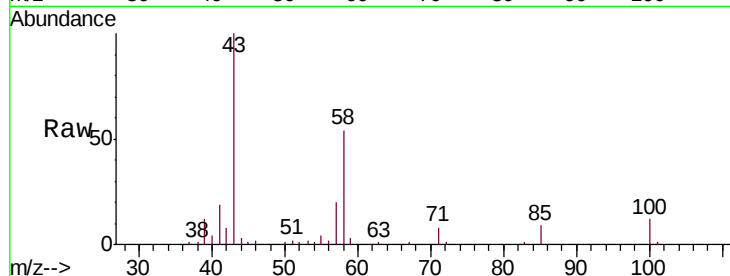
Ion Ratio Lower Upper

43 100

58 55.9 44.9 67.3

57 19.4 14.5 21.7

100 11.6 9.3 13.9

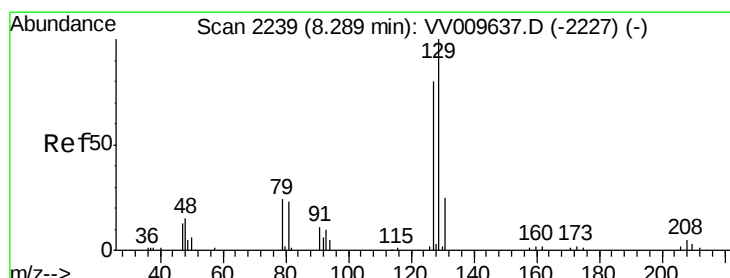
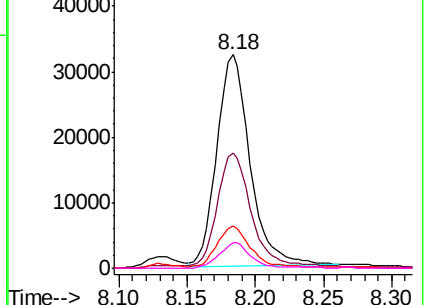
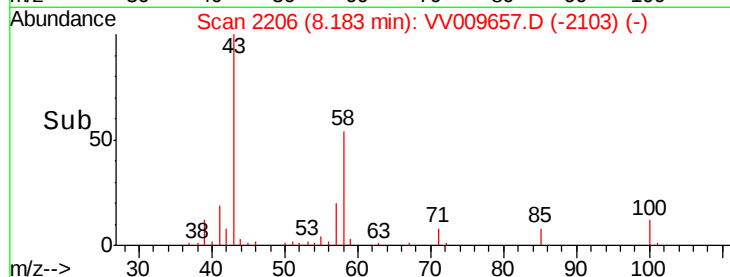


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#50

Dibromochloromethane

Concen: 27.492 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV009657.D

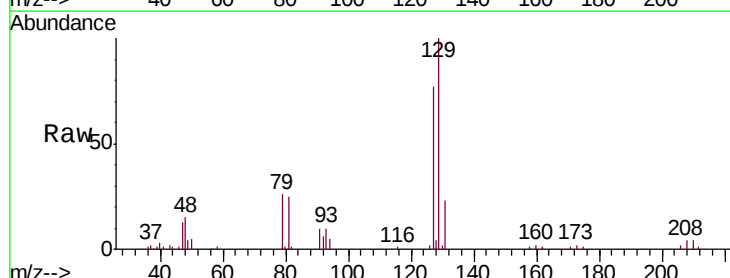
Acq: 14 Mar 2019 00:54

Tgt Ion: 129 Resp: 44064

Ion Ratio Lower Upper

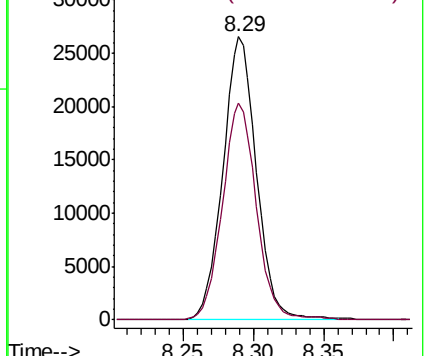
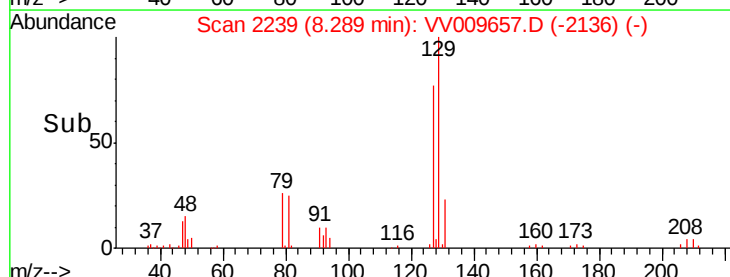
129 100

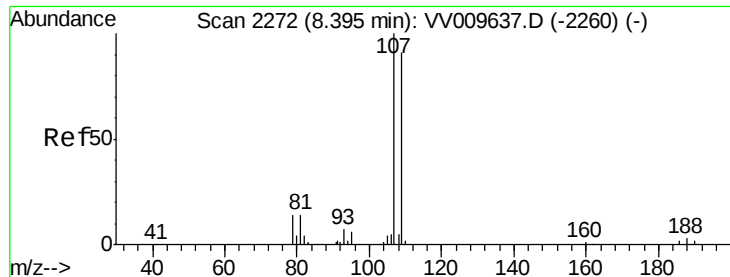
127 76.6 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

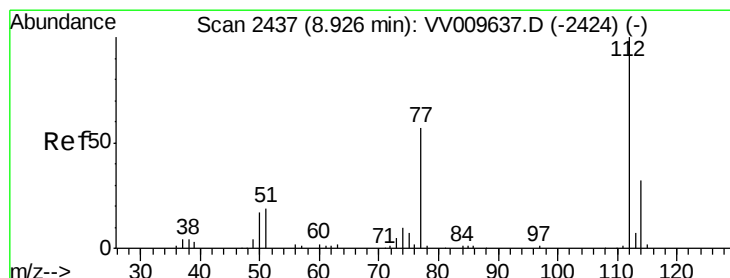
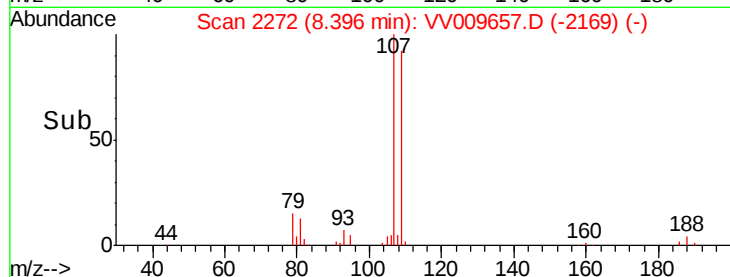
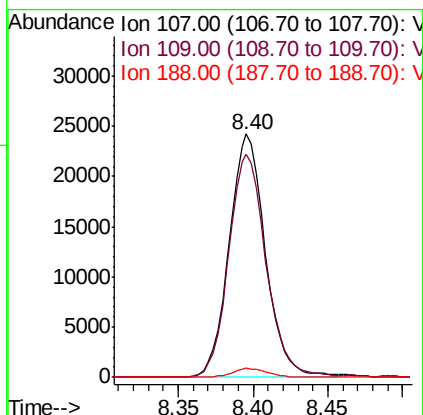
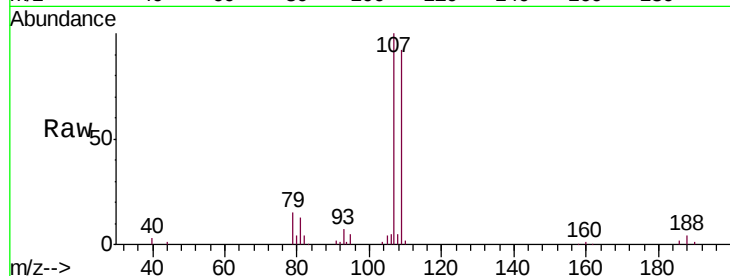




#51
 1,2-Dibromoethane
 Concen: 29.182 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

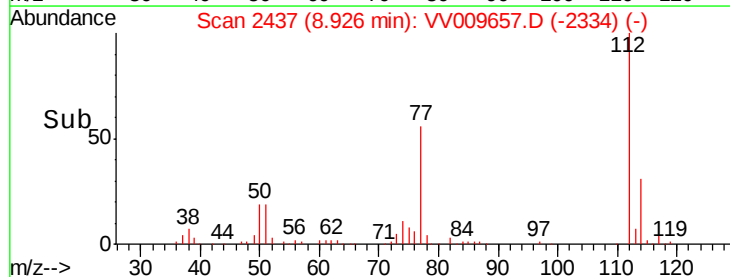
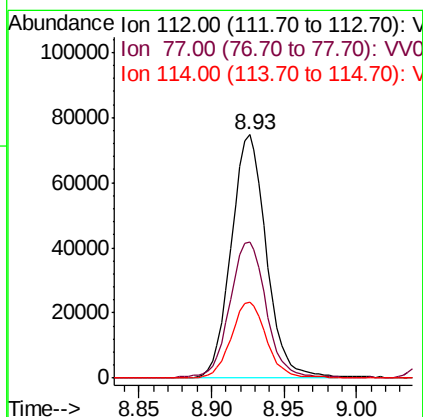
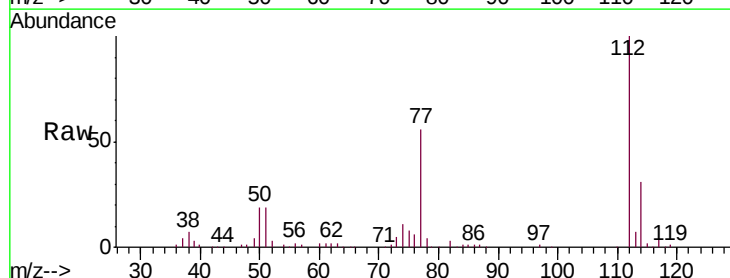
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

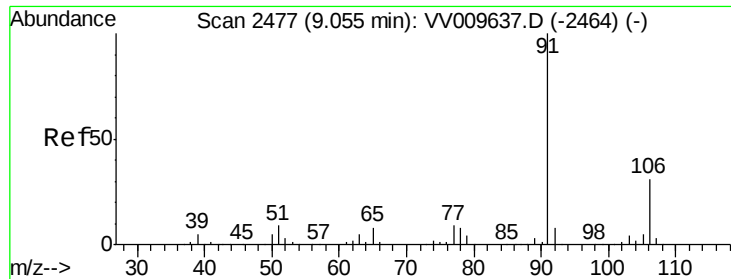
Tgt Ion:107 Resp: 40850
 Ion Ratio Lower Upper
 107 100
 109 91.7 68.4 127.0
 188 3.7 2.6 3.8



#52
 Chlorobenzene
 Concen: 24.967 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion:112 Resp: 125977
 Ion Ratio Lower Upper
 112 100
 77 56.1 45.6 68.4
 114 31.2 22.3 41.5

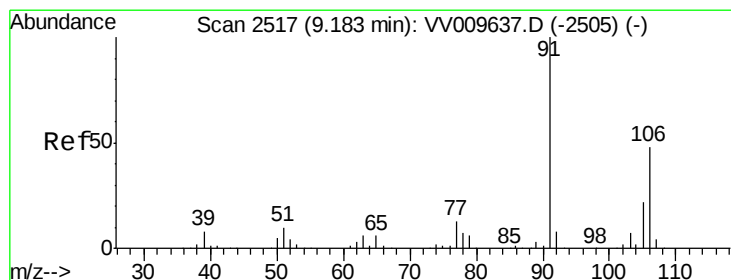
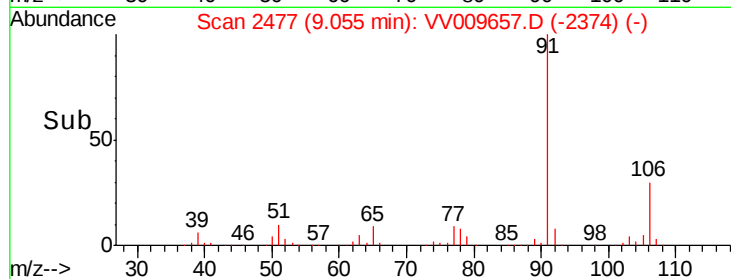
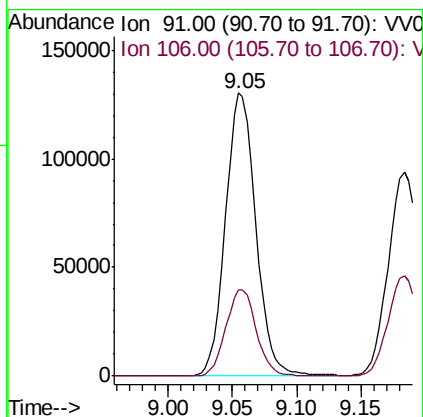
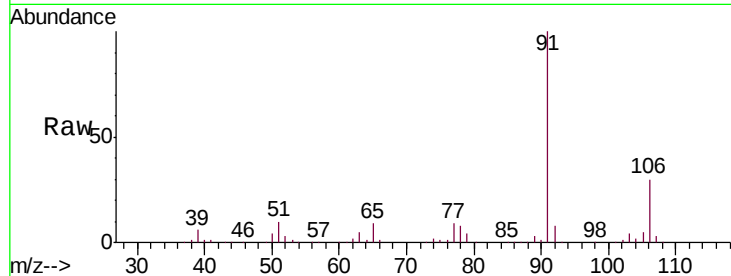




#53
Ethylbenzene
Concen: 24.885 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV009657.D
Acq: 14 Mar 2019 00:54

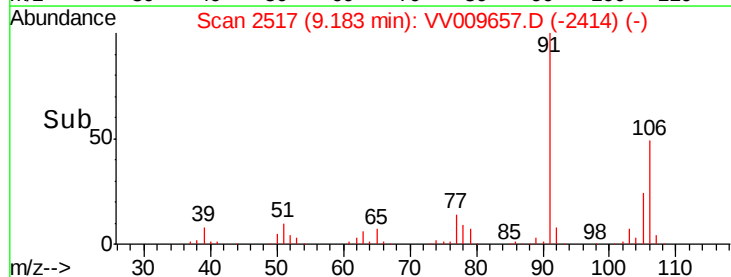
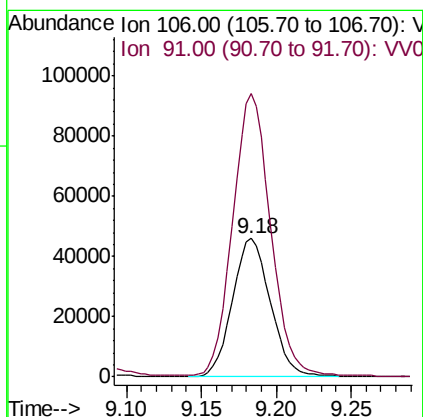
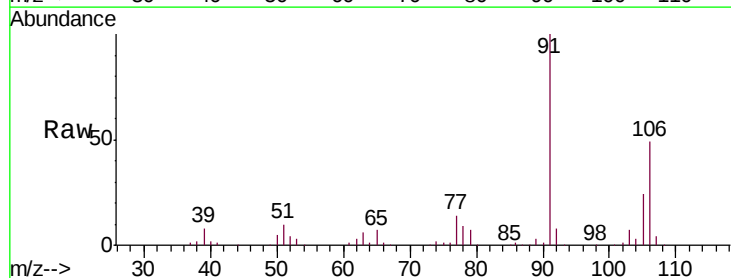
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

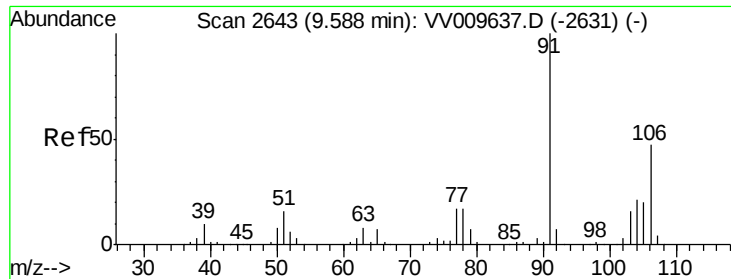
Tgt Ion: 91 Resp: 213435
Ion Ratio Lower Upper
91 100
106 30.4 21.1 39.1



#54
m,p-Xylene
Concen: 24.872 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV009657.D
Acq: 14 Mar 2019 00:54

Tgt Ion: 106 Resp: 80523
Ion Ratio Lower Upper
106 100
91 204.1 141.4 262.6





#55

o-xylene

Concen: 25.473 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

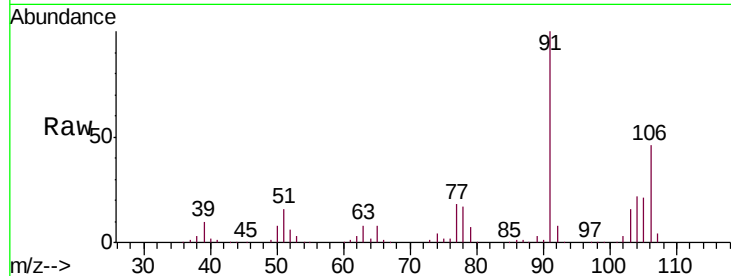
VSTD02562

Tgt Ion:106 Resp: 80939

Ion Ratio Lower Upper

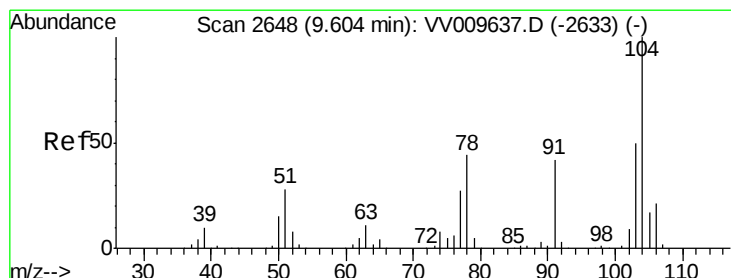
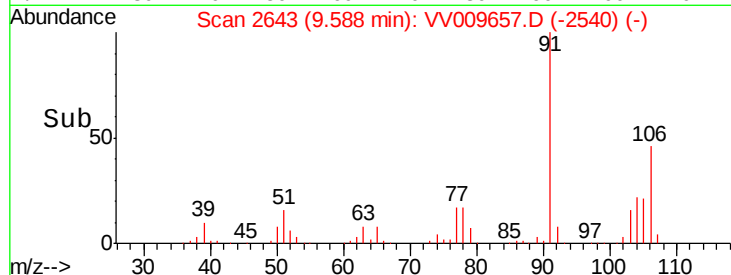
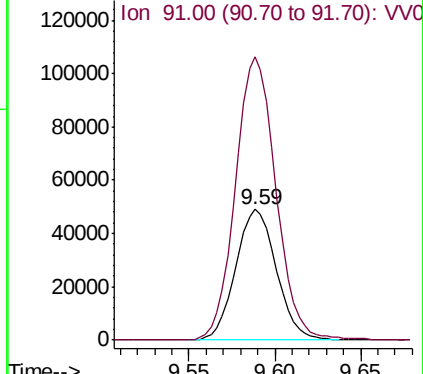
106 100

91 216.6 149.7 278.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.403 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009657.D

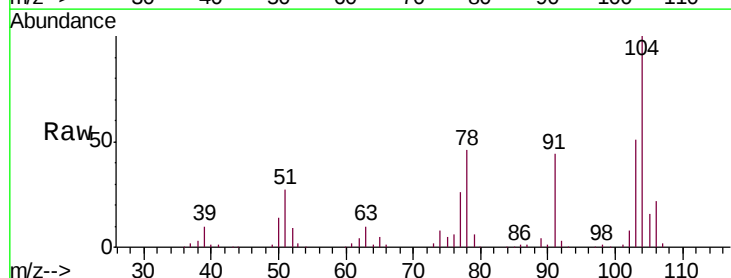
Acq: 14 Mar 2019 00:54

Tgt Ion:104 Resp: 136830

Ion Ratio Lower Upper

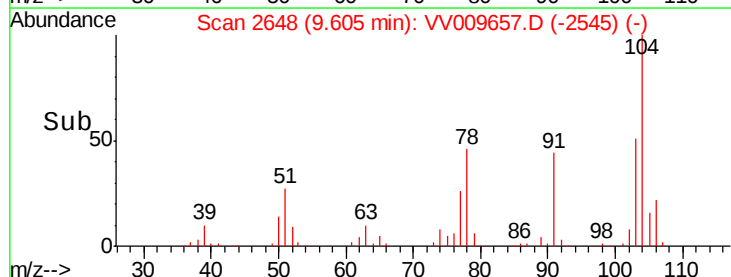
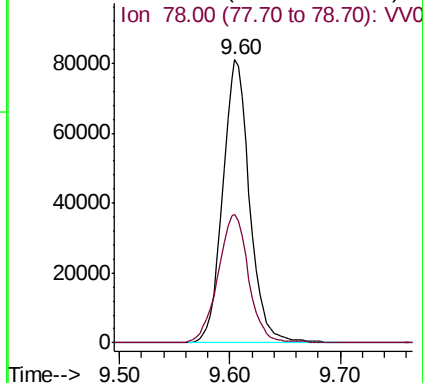
104 100

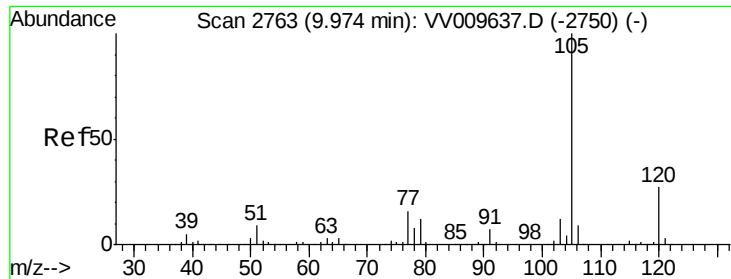
78 45.6 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.381 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

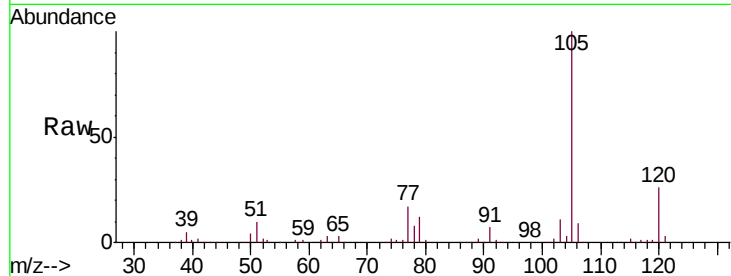
Tgt Ion: 105 Resp: 205453

Ion Ratio Lower Upper

105 100

120 26.3 21.5 32.3

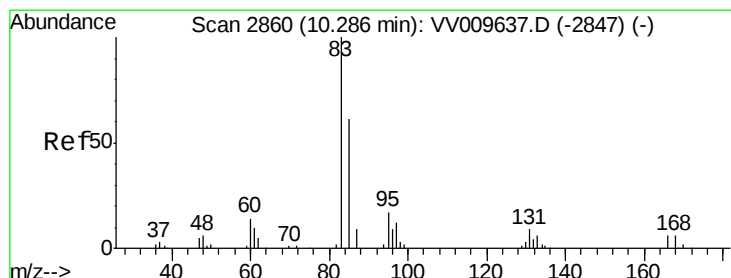
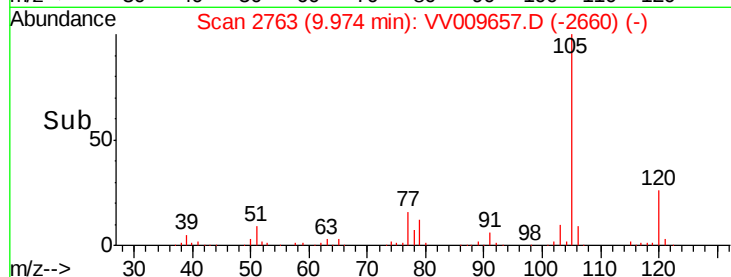
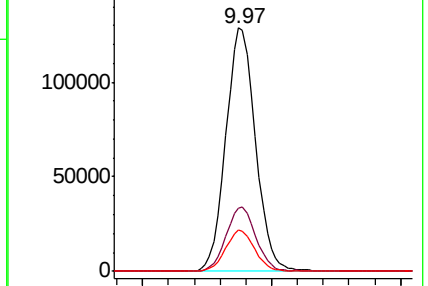
77 16.4 12.9 19.3



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: 30.514 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

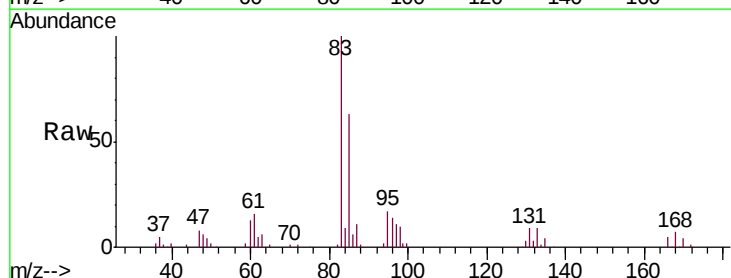
Tgt Ion: 83 Resp: 55916

Ion Ratio Lower Upper

83 100

85 63.0 46.1 85.7

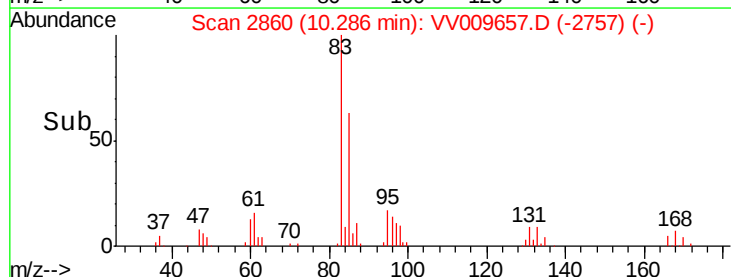
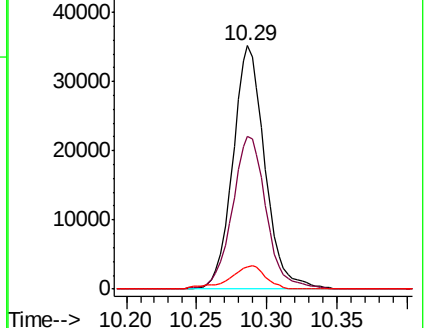
131 9.2 8.0 12.0

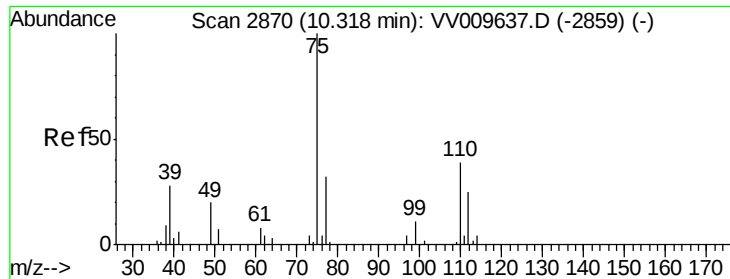


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 31.125 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

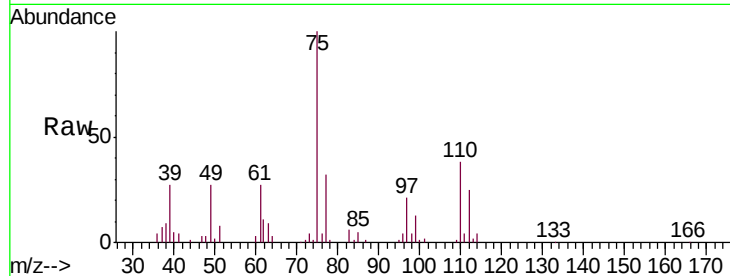
VSTD02562

Tgt Ion: 75 Resp: 40946

Ion Ratio Lower Upper

75 100

77 33.4 25.3 37.9

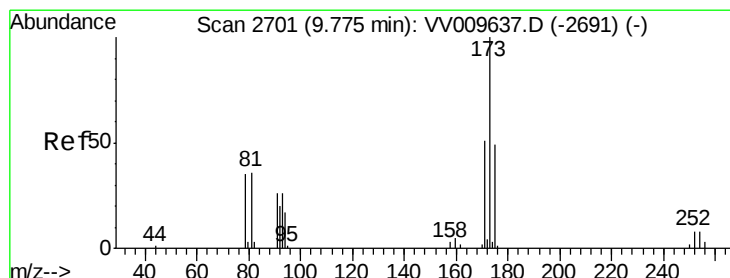
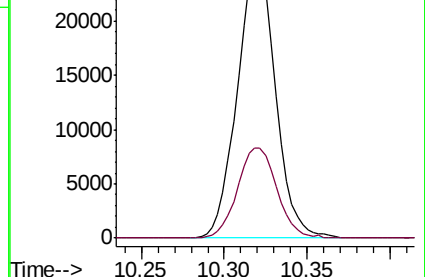
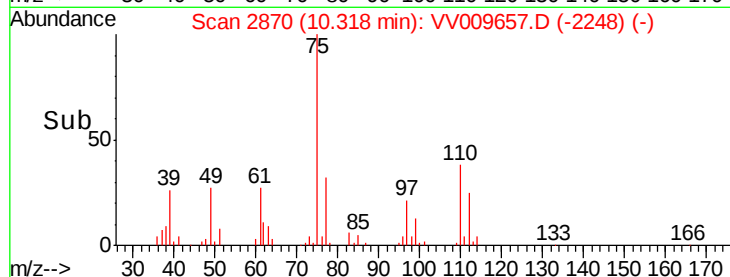


Abundance Ion 75.00 (74.70 to 75.70): VV009637.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009637.D (-2859) (-)

10.32

Time-->



#62

Bromoform

Concen: 27.071 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

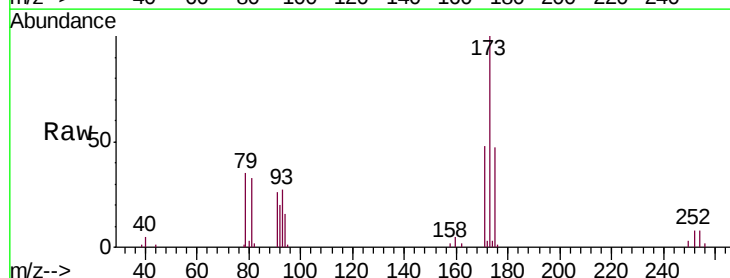
Tgt Ion: 173 Resp: 24807

Ion Ratio Lower Upper

173 100

175 49.6 37.8 56.6

254 7.5 6.1 9.1



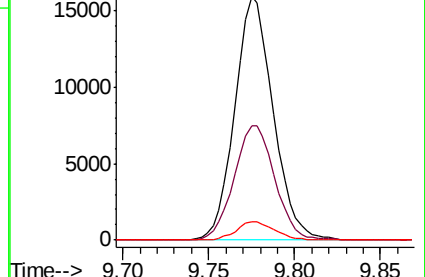
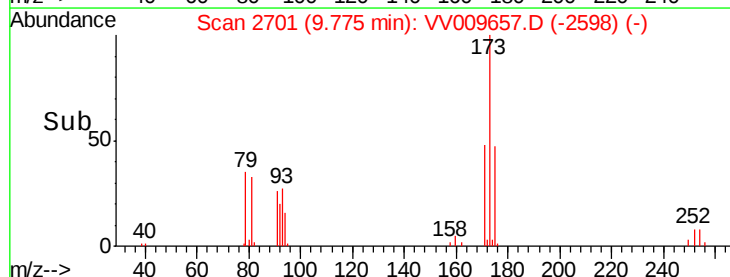
Abundance Ion 173.00 (172.70 to 173.70): VV009637.D (-2691) (-)

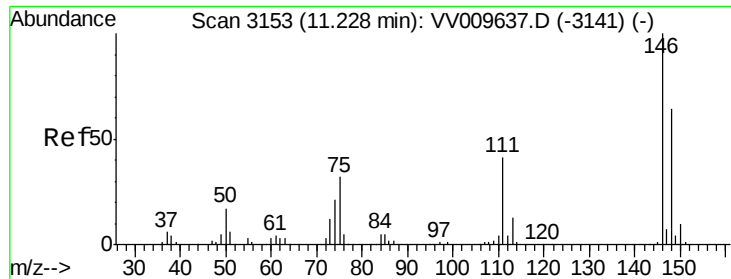
Ion 175.00 (174.70 to 175.70): VV009637.D (-2691) (-)

Ion 254.00 (253.70 to 254.70): VV009637.D (-2691) (-)

9.77

Time-->

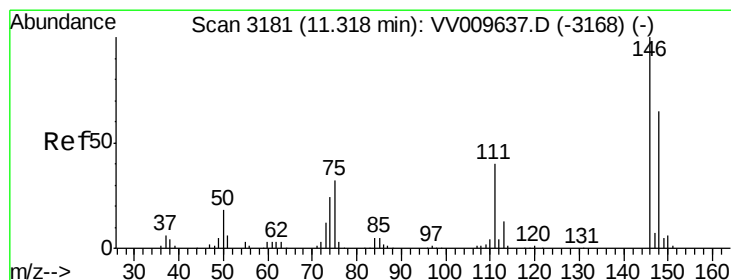
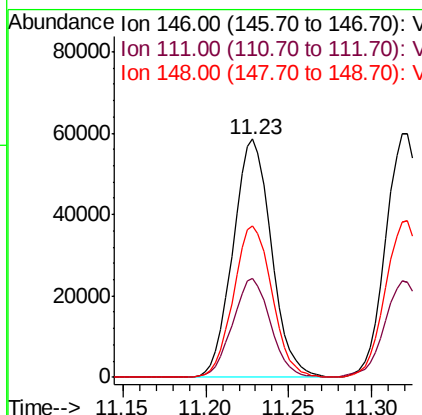
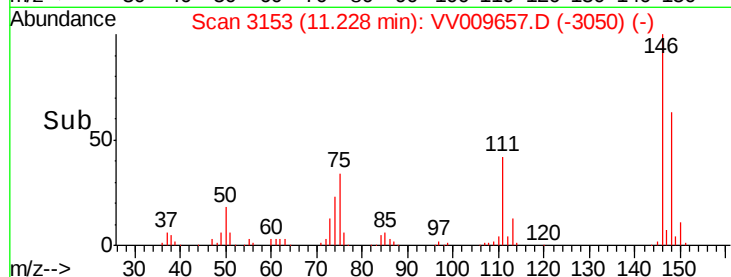
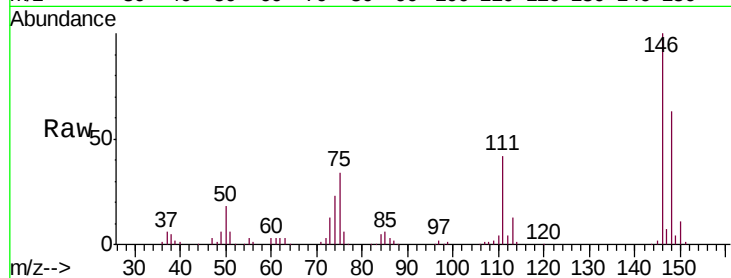




#63
 1,3-Dichlorobenzene
 Concen: 24.091 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

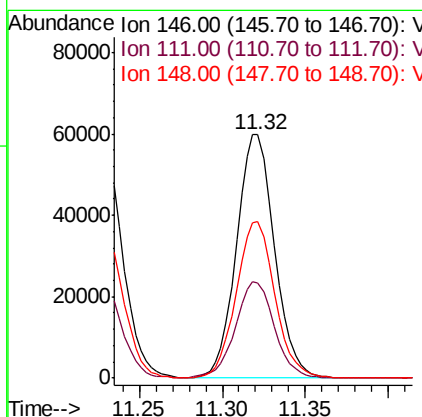
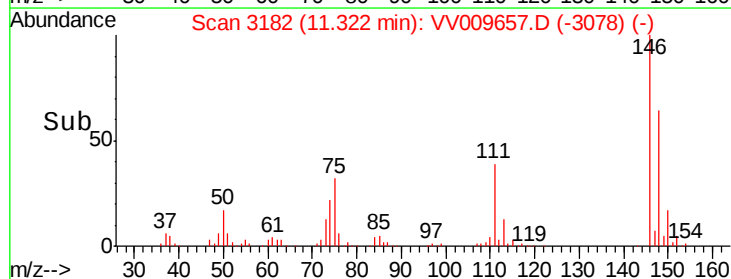
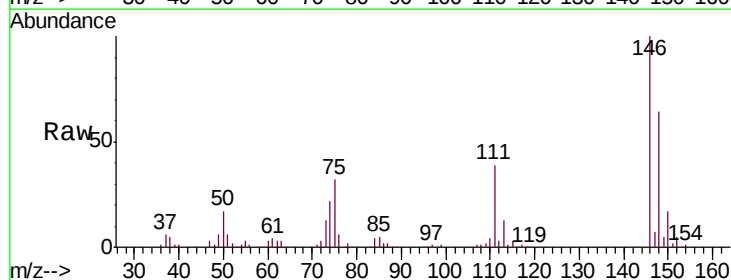
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

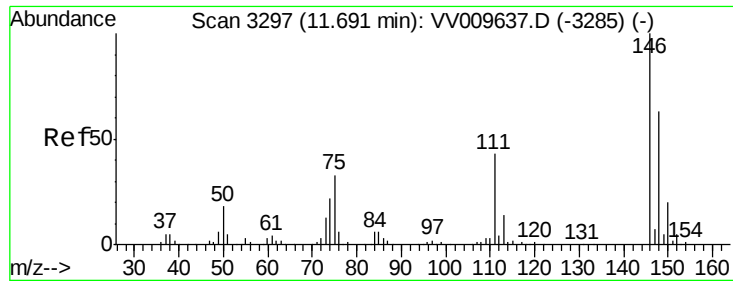
Tgt Ion:146 Resp: 94269
 Ion Ratio Lower Upper
 146 100
 111 41.6 28.8 53.6
 148 63.5 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 23.994 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion:146 Resp: 95569
 Ion Ratio Lower Upper
 146 100
 111 39.1 28.2 52.4
 148 64.3 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 25.712 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

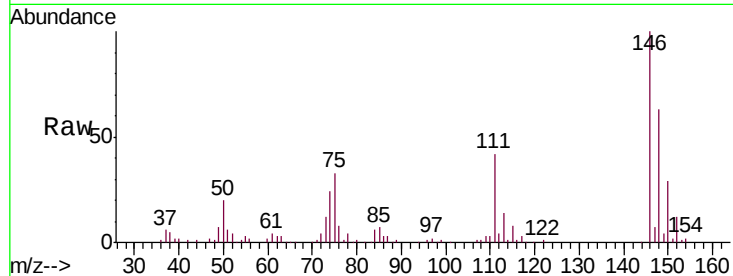
Tgt Ion:146 Resp: 93614

Ion Ratio Lower Upper

146 100

111 41.8 33.8 50.6

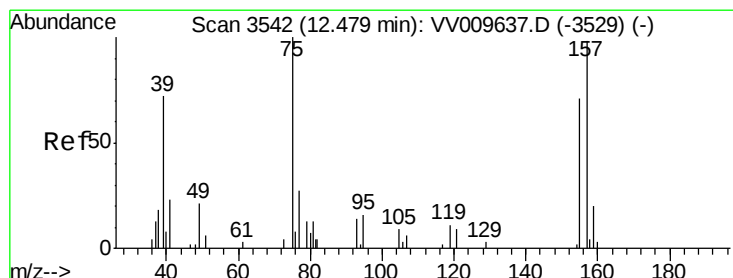
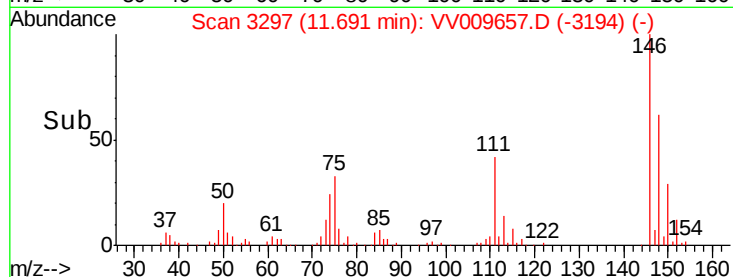
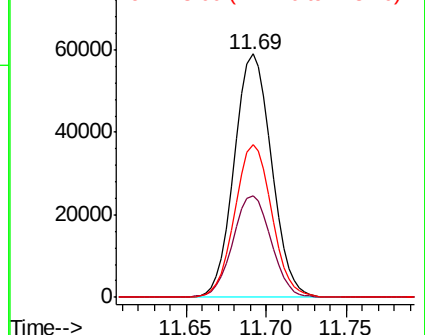
148 62.5 49.1 73.7



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: 34.042 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

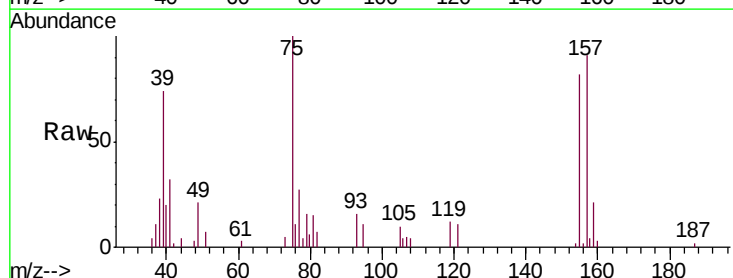
Tgt Ion: 75 Resp: 9176

Ion Ratio Lower Upper

75 100

157 91.2 78.6 118.0

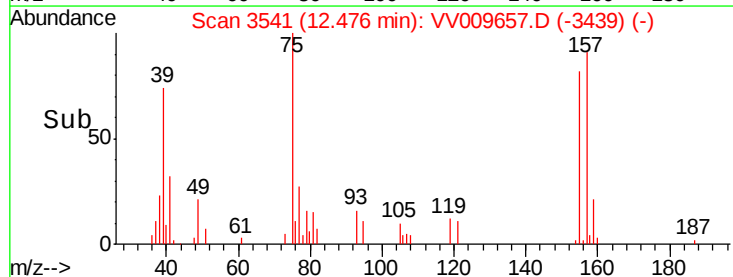
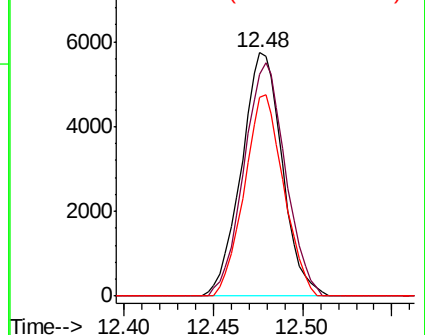
155 81.6 60.0 90.0

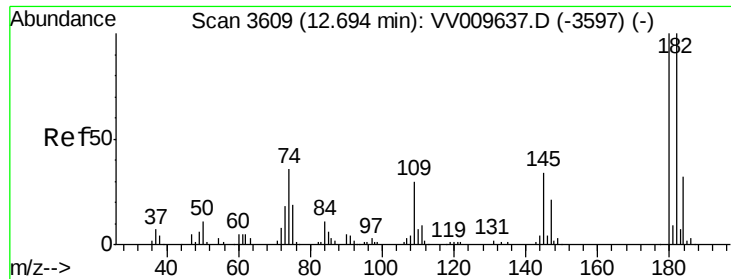


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

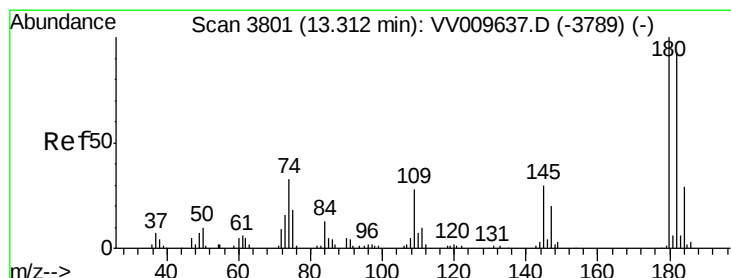
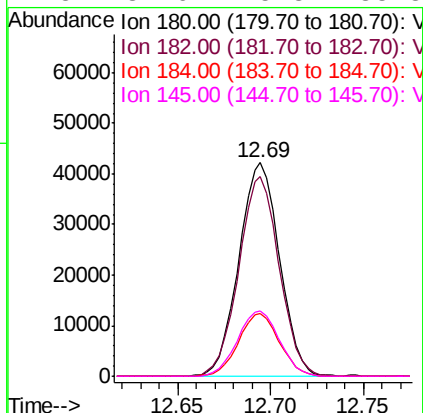
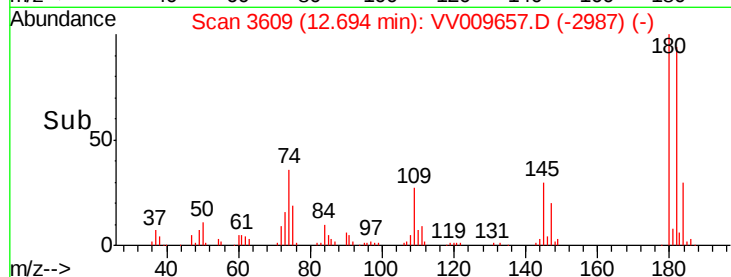
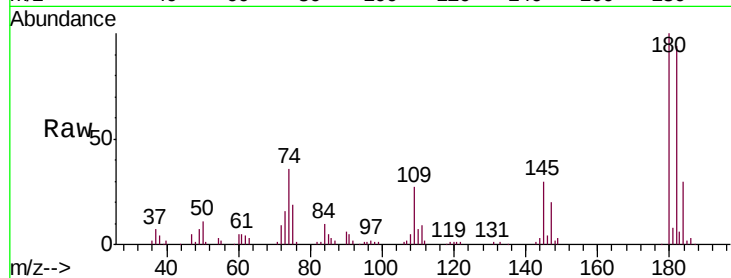




#67
 1,3,5-Trichlorobenzene
 Concen: 23.491 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

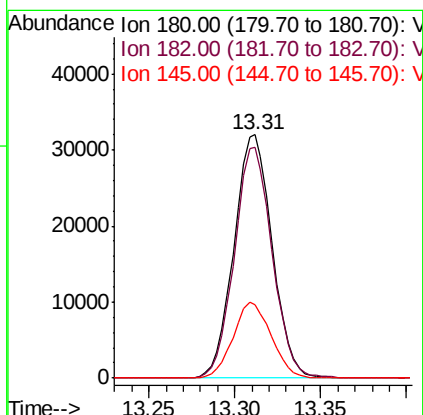
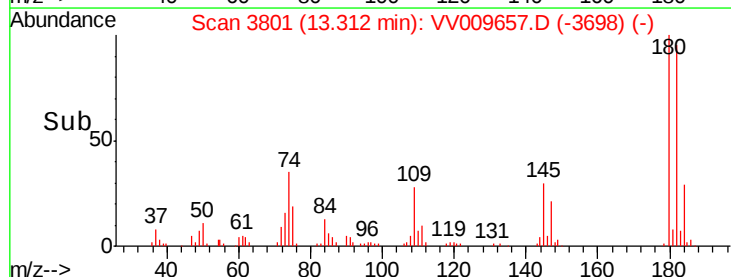
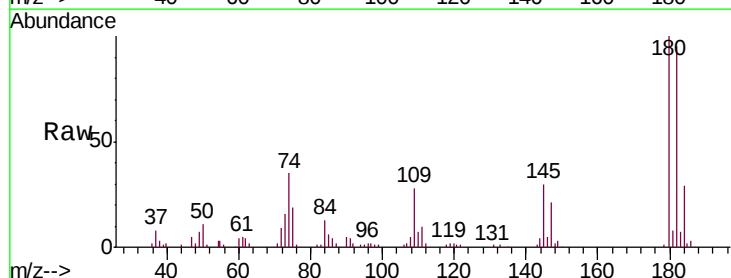
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

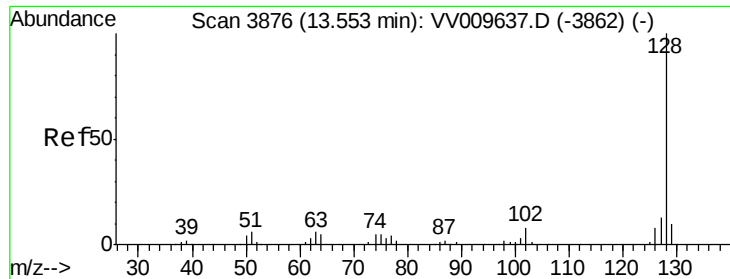
Tgt Ion:180 Resp: 64015
 Ion Ratio Lower Upper
 180 100
 182 93.2 76.3 114.5
 184 29.6 23.8 35.8
 145 31.6 25.8 38.8



#68
 1,2,4-trichlorobenzene
 Concen: 25.505 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009657.D
 Acq: 14 Mar 2019 00:54

Tgt Ion:180 Resp: 49269
 Ion Ratio Lower Upper
 180 100
 182 93.9 77.4 116.0
 145 31.1 26.4 39.6





#69

Naphthalene

Concen: 30.519 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

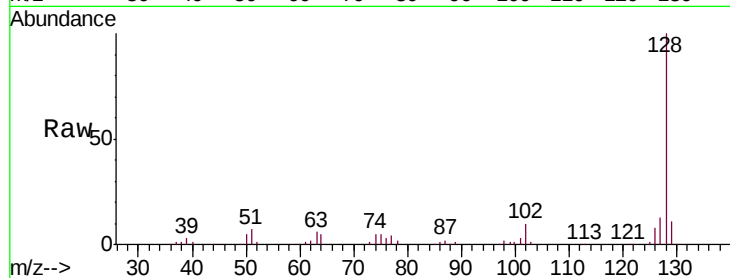
Tgt Ion:128 Resp: 97375

Ion Ratio Lower Upper

128 100

129 11.0 8.3 12.5

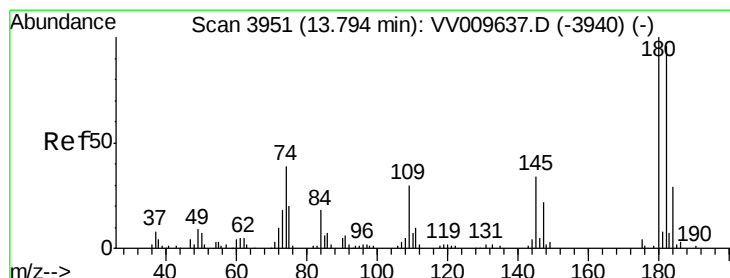
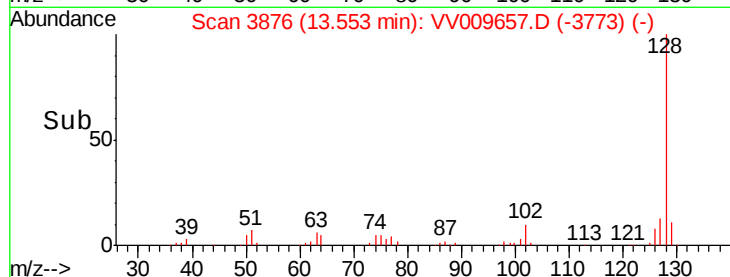
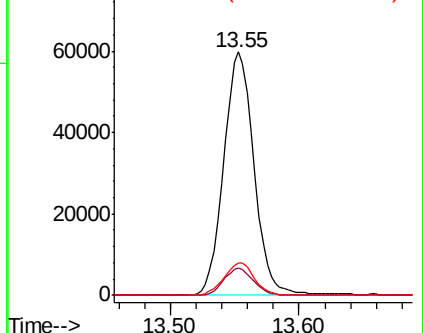
127 13.3 11.0 16.6



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: 27.245 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009657.D

Acq: 14 Mar 2019 00:54

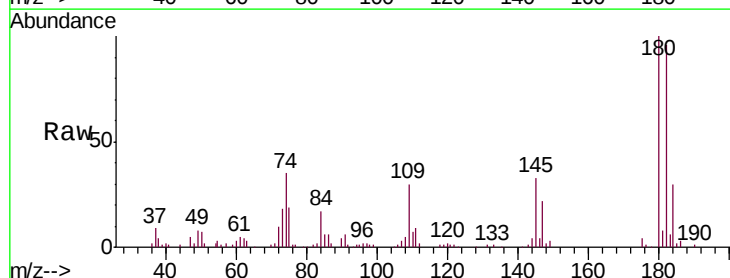
Tgt Ion:180 Resp: 48398

Ion Ratio Lower Upper

180 100

182 93.8 76.9 115.3

145 33.0 27.3 40.9



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

