

Data File : VV009637.D
Acq On : 13 Mar 2019 15:28
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

Quant Time: Mar 14 07:32:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 13 15:21:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	147506	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	143961	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	66920	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54738	29.02	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	116.08%
7) Chloroethane-d5	1.57	69	51682	22.21	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.84%
10) 1,1-Dichloroethene-d2	2.13	63	135760	26.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	106.52%
20) 2-Butanone-d5	3.93	46	31338	63.43	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	126.86%
24) Chloroform-d	4.40	84	102575	27.28	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.12%
26) 1,2-Dichloroethane-d4	5.08	65	59547	27.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	111.96%
29) Benzene-d6	5.10	84	215987	28.60	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	114.40%
33) 1,2-Dichloropropane-d6	6.12	67	61003	27.65	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	110.60%
37) Toluene-d8	7.36	98	212345	29.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	116.24%
38) trans-1,3-Dichloropropene-	7.66	79	27540	27.16	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	108.64%
39) 2-Hexanone-d5	8.13	63	23796	58.57	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	117.14%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	61699	29.53	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	118.12%
61) 1,2-Dichlorobenzene-d4	11.67	152	71437	27.56	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	110.24%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	56789	24.883 ug/L	99
3) Chloromethane	1.25	50	49711	24.448 ug/L	99
5) Vinyl chloride	1.32	62	53783	24.619 ug/L	100
6) Bromomethane	1.51	94	55989	23.156 ug/L	99
8) Chloroethane	1.59	64	35968	19.172 ug/L	94
9) Trichlorofluoromethane	1.76	101	112895	24.360 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	60056	23.831 ug/L	98
12) 1,1-Dichloroethene	2.14	96	54780	24.777 ug/L	94
13) Acetone	2.19	43	37268	62.576 ug/L	97
14) Carbon disulfide	2.32	76	139212	25.143 ug/L	98
15) Methyl Acetate	2.46	43	23138	26.628 ug/L	99
16) Methylene chloride	2.53	84	47923	22.317 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	108343	23.591 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	47793	24.800 ug/L	98
19) 1,1-Dichloroethane	3.23	63	84597	25.151 ug/L	98
21) 2-Butanone	4.01	43	39688	53.978 ug/L	93
22) cis-1,2-Dichloroethene	3.96	96	53281	24.673 ug/L	97

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Quant Title : VOC Analysis
QLast Update : Wed Mar 13 15:21:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	23285	23.323	ug/L	95
25) Chloroform	4.42	83	94740	24.720	ug/L	99
27) 1,2-Dichloroethane	5.18	62	63437	23.972	ug/L	98
30) Cyclohexane	4.72	56	80644	24.796	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	83194	24.678	ug/L	99
32) Carbon tetrachloride	4.87	117	71426	25.005	ug/L	100
34) Benzene	5.14	78	193489	23.708	ug/L	100
35) Trichloroethene	5.96	95	54771	24.169	ug/L	99
36) Methylcyclohexane	6.17	83	87576	23.272	ug/L	97
40) 1,2-Dichloropropane	6.22	63	48034	24.225	ug/L	99
41) Bromodichloromethane	6.55	83	64632	23.691	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	72240	23.996	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	68293	50.368	ug/L	99
44) Toluene	7.43	91	227069	24.980	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	63364	24.373	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	39129	23.618	ug/L	96
47) Tetrachloroethene	8.02	164	43276	24.175	ug/L	99
49) 2-Hexanone	8.18	43	53223	52.267	ug/L	98
50) Dibromochloromethane	8.29	129	46444	24.719	ug/L	99
51) 1,2-Dibromoethane	8.40	107	40346	24.587	ug/L	94
52) Chlorobenzene	8.93	112	142130	24.030	ug/L	99
53) Ethylbenzene	9.05	91	252397	25.104	ug/L	98
54) m,p-Xylene	9.18	106	94287	24.844	ug/L	95
55) o-xylene	9.59	106	93395	25.075	ug/L	99
56) Styrene	9.60	104	151314	24.908	ug/L	97
57) Isopropylbenzene	9.97	105	248843	25.191	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	53686	24.992	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	38260	24.810	ug/L	99
62) Bromoform	9.77	173	25248	24.690	ug/L	95
63) 1,3-Dichlorobenzene	11.23	146	107378	24.590	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	105006	23.625	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	98856	24.332	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	7972	26.504	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	73650	26.577	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	54006	25.054	ug/L	97
69) Naphthalene	13.55	128	87953	24.702	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	47105	23.763	ug/L	99

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

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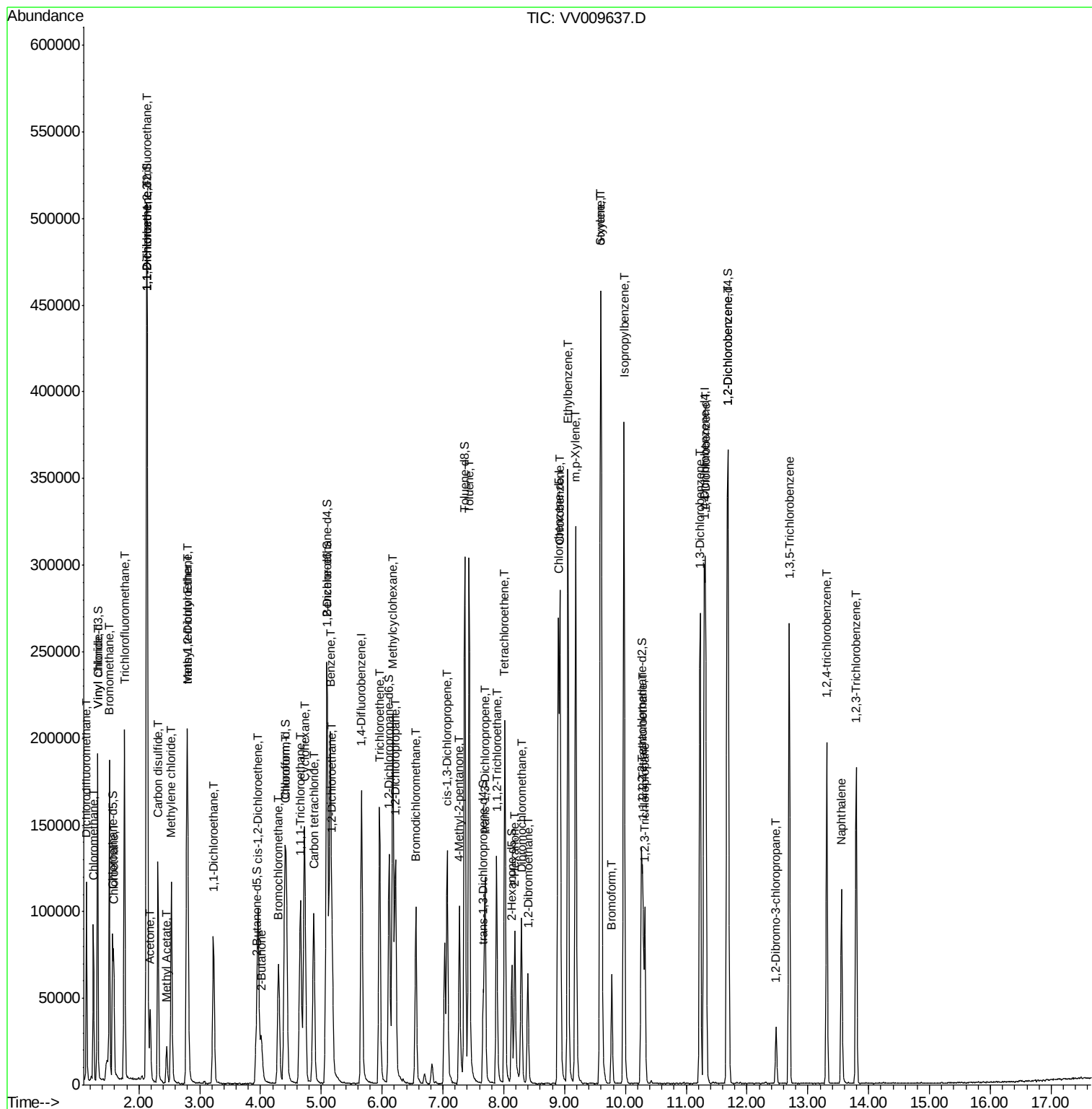
Quant Time: Mar 14 07:32:30 2019

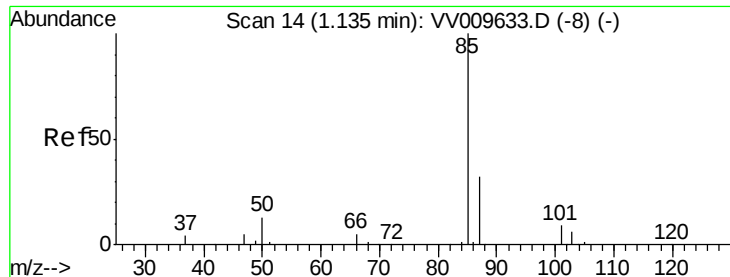
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM031319S.M

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#2

Dichlorodifluoromethane

Concen: 24.883 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

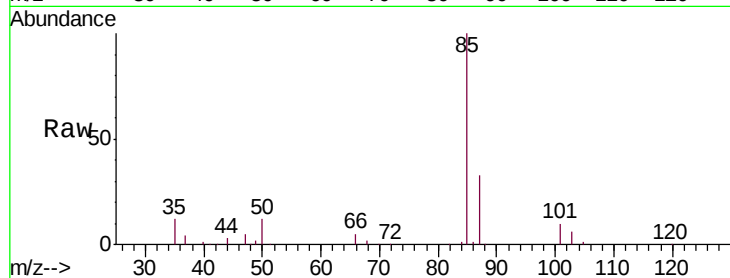
VSTD02561

Tgt Ion: 85 Resp: 56789

Ion Ratio Lower Upper

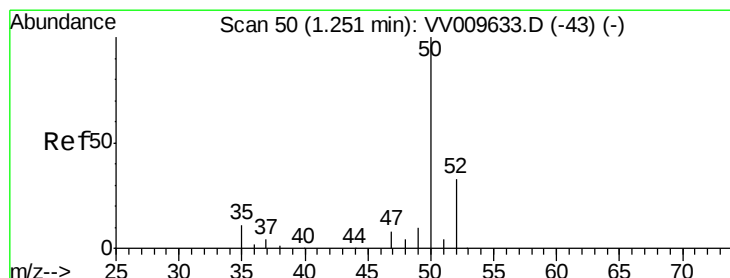
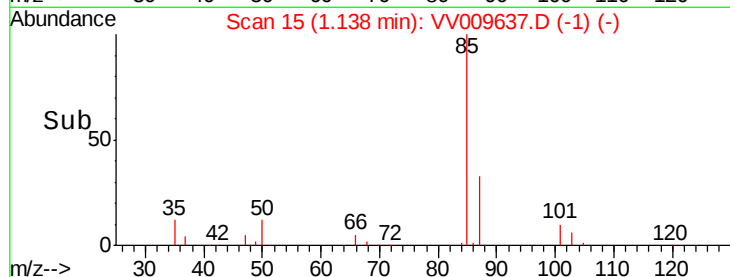
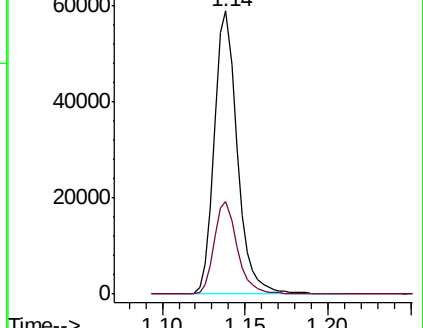
85 100

87 32.8 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: 24.448 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009637.D

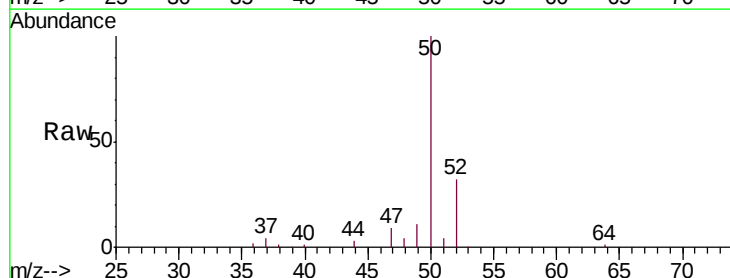
Acq: 13 Mar 2019 15:28

Tgt Ion: 50 Resp: 49711

Ion Ratio Lower Upper

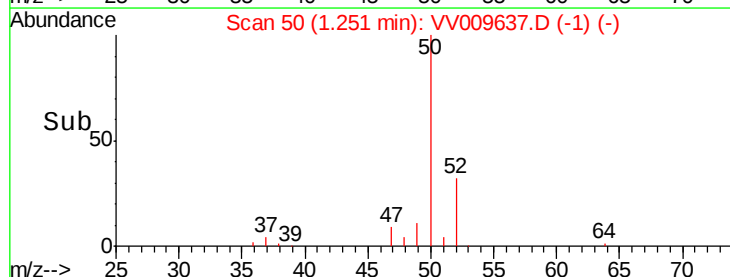
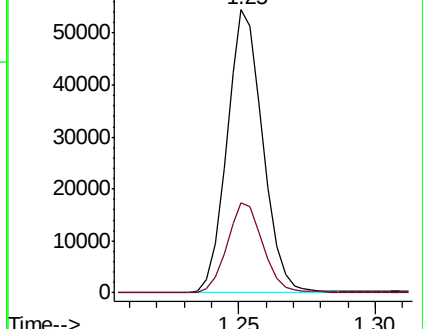
50 100

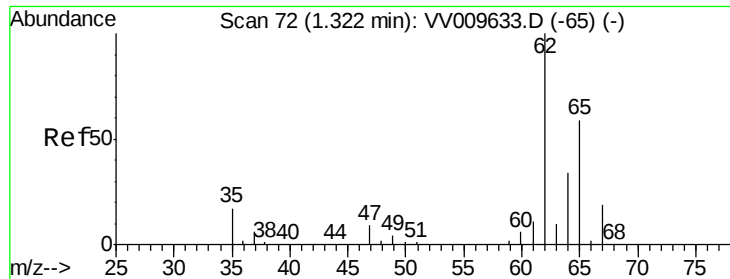
52 32.0 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV009637.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV009637.D (-43) (-)





#5

Vinyl chloride

Concen: 24.619 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

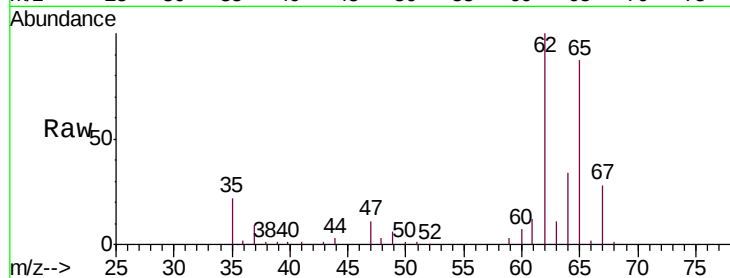
VSTD02561

Tgt Ion: 62 Resp: 53783

Ion Ratio Lower Upper

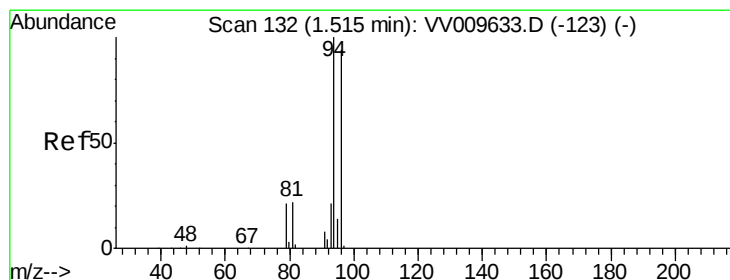
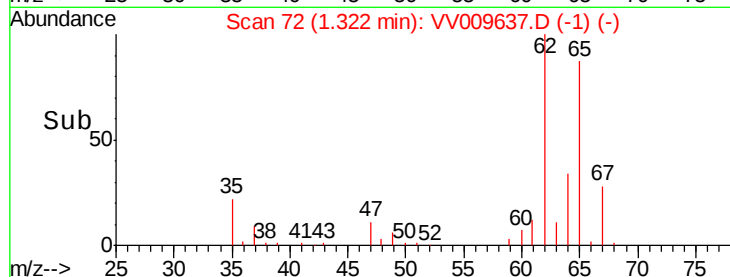
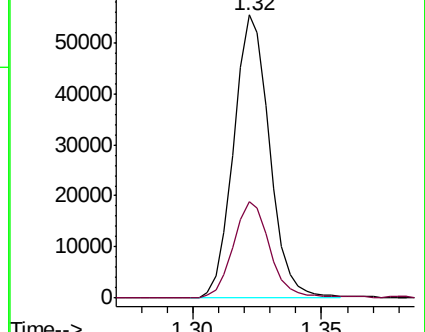
62 100

64 33.9 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VV009637.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009637.D (-65) (-)



#6

Bromomethane

Concen: 23.156 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV009637.D

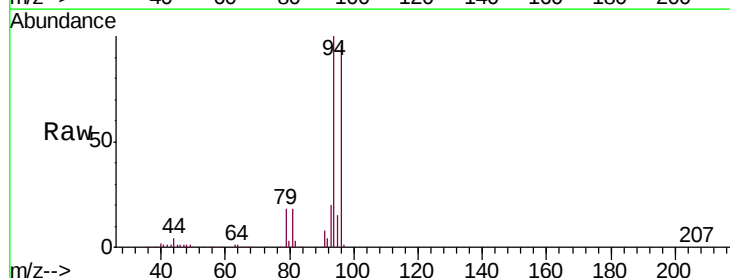
Acq: 13 Mar 2019 15:28

Tgt Ion: 94 Resp: 55989

Ion Ratio Lower Upper

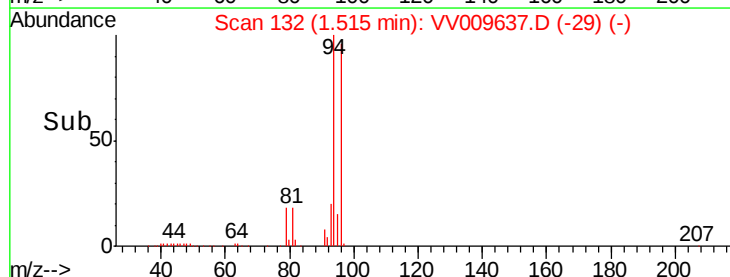
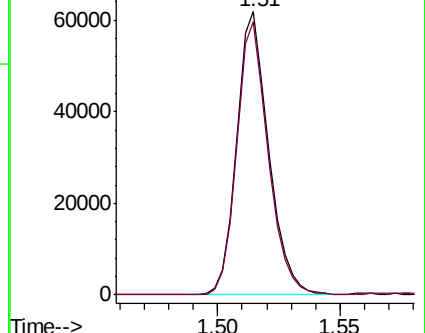
94 100

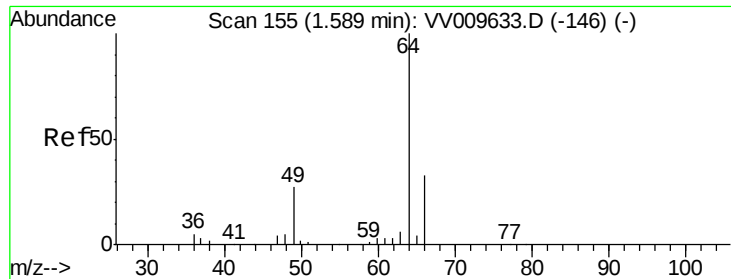
96 95.1 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VV009637.D (-123) (-)

Ion 96.00 (95.70 to 96.70): VV009637.D (-123) (-)

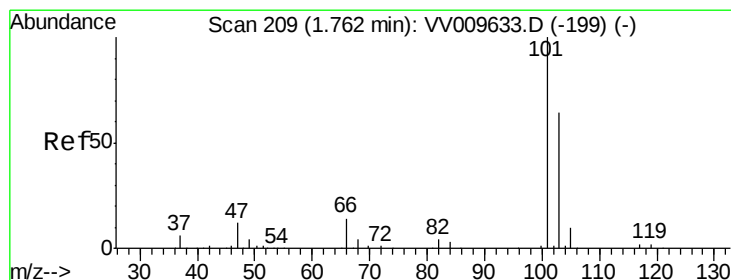
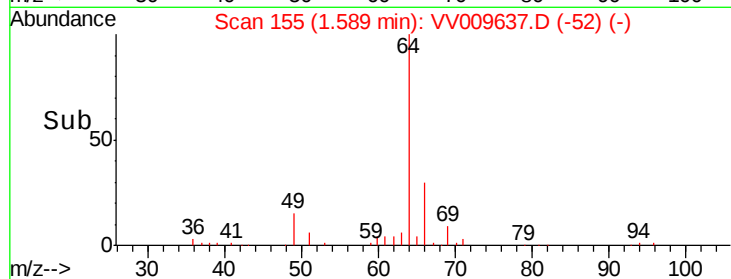
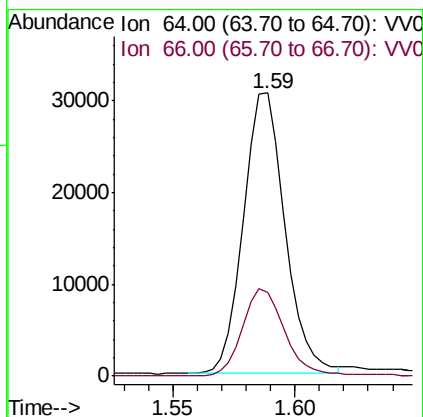
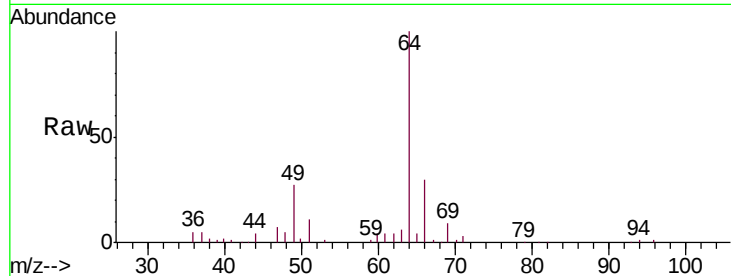




#8
Chloroethane
Concen: 19.172 ug/L
RT: 1.59 min Scan# 155
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

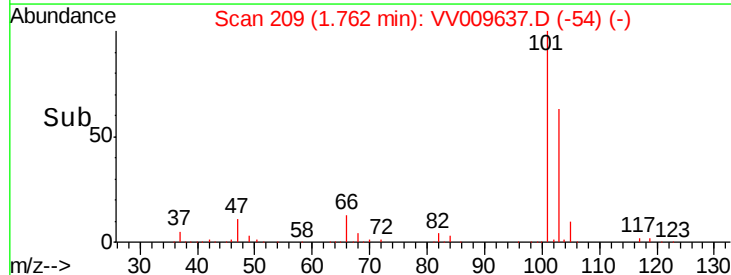
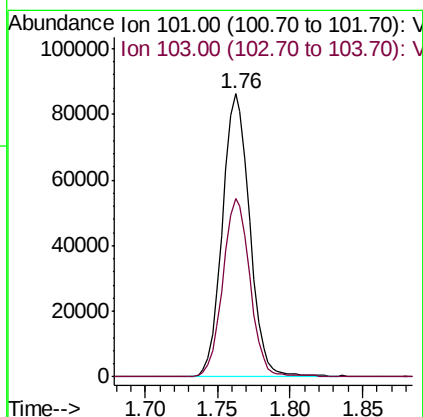
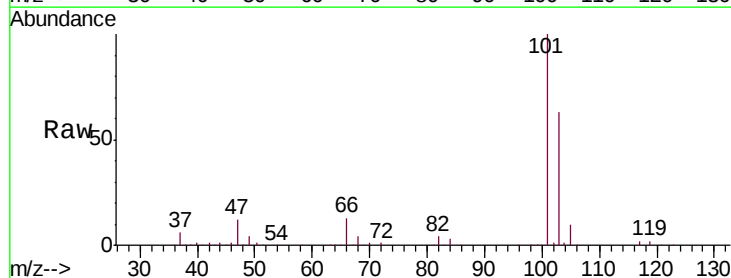
Instrument :
MSVOA_V
ClientSampled :
VSTD02561

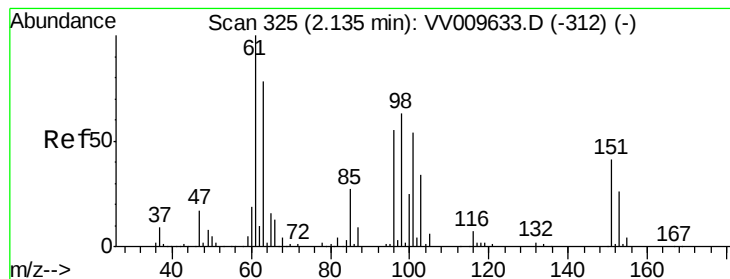
Tgt Ion: 64 Resp: 35968
Ion Ratio Lower Upper
64 100
66 29.8 23.0 42.8



#9
Trichlorofluoromethane
Concen: 24.360 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion: 101 Resp: 112895
Ion Ratio Lower Upper
101 100
103 62.2 45.4 84.2





#11

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

Concen: 23.831 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

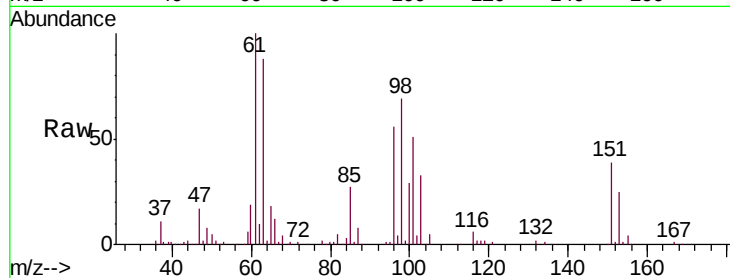
Tgt Ion: 101 Resp: 60056

Ion Ratio Lower Upper

101 100

85 49.4 38.7 58.1

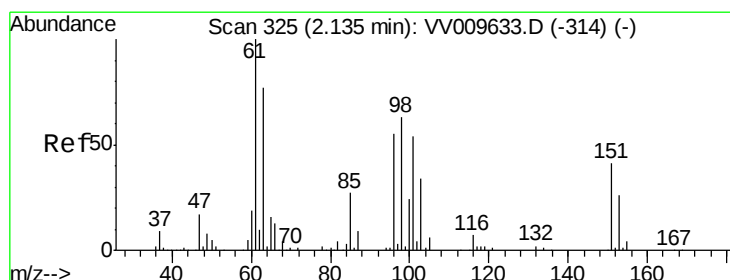
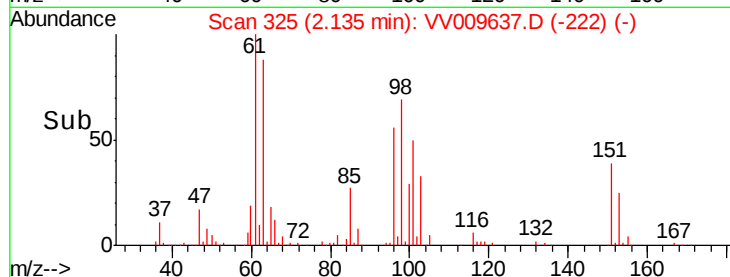
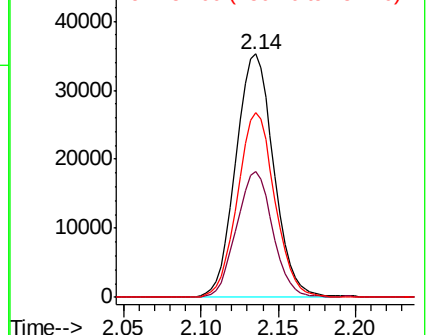
151 74.6 58.5 87.7



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: 24.777 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

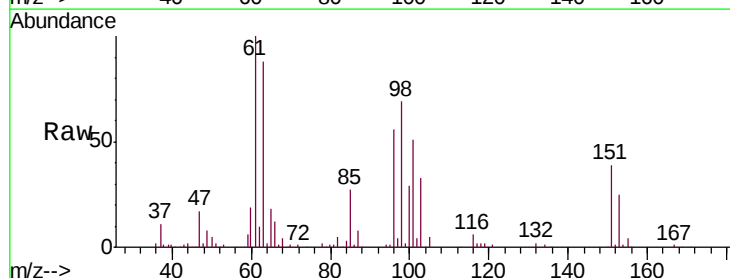
Tgt Ion: 96 Resp: 54780

Ion Ratio Lower Upper

96 100

61 179.6 128.4 238.5

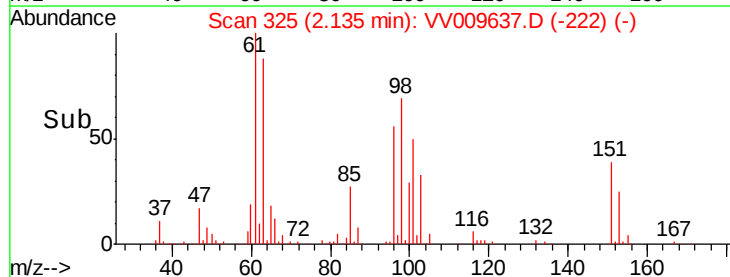
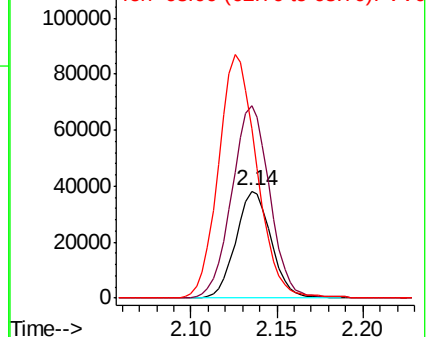
63 157.7 100.7 186.9

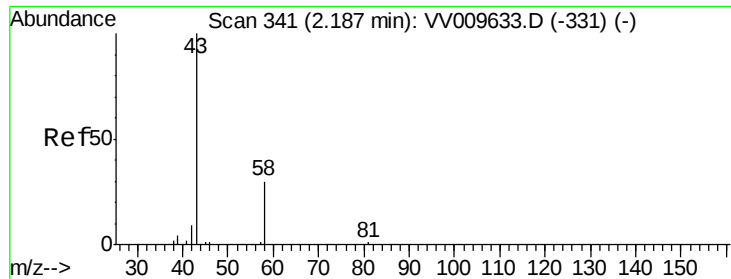


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 62.576 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

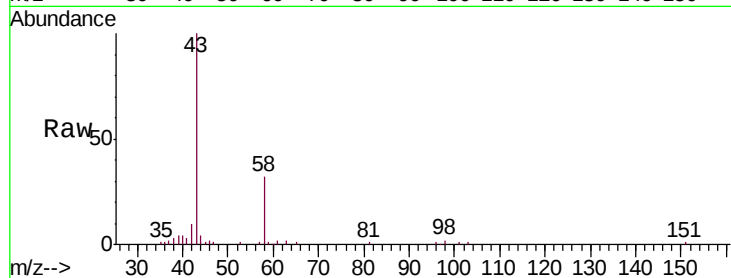
VSTD02561

Tgt Ion: 43 Resp: 37268

Ion Ratio Lower Upper

43 100

58 33.8 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-238) (-)

Ion 58.00 (57.70 to 58.70): VV009637.D (-238) (-)

25000

20000

15000

10000

5000

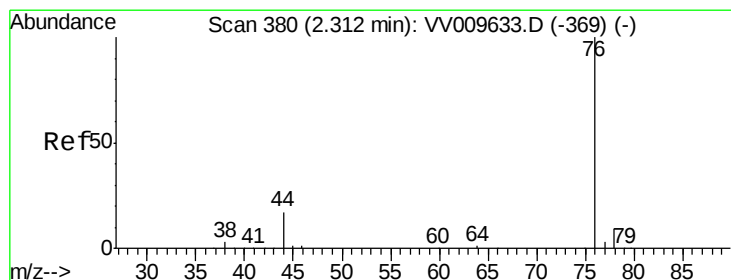
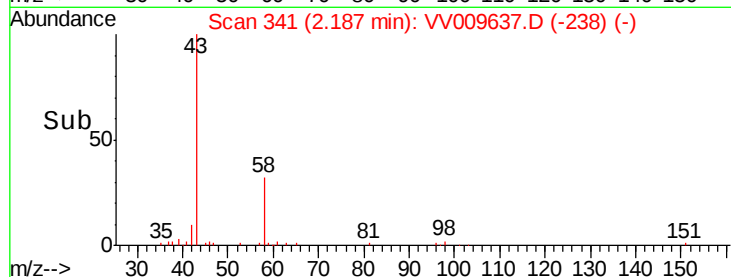
0

2.15

2.20

2.25

Time-->



#14

Carbon disulfide

Concen: 25.143 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009637.D

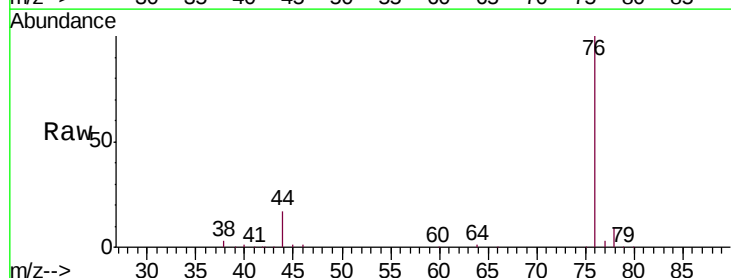
Acq: 13 Mar 2019 15:28

Tgt Ion: 76 Resp: 139212

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009637.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV009637.D (-225) (-)

100000

80000

60000

40000

20000

0

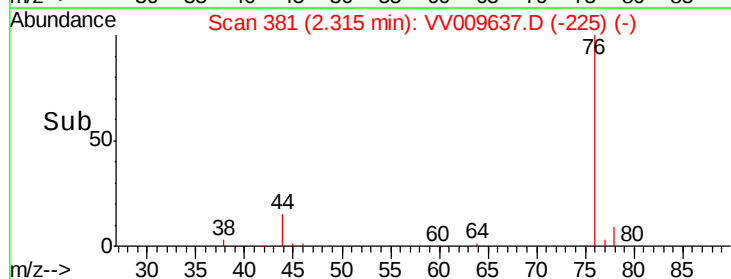
2.25

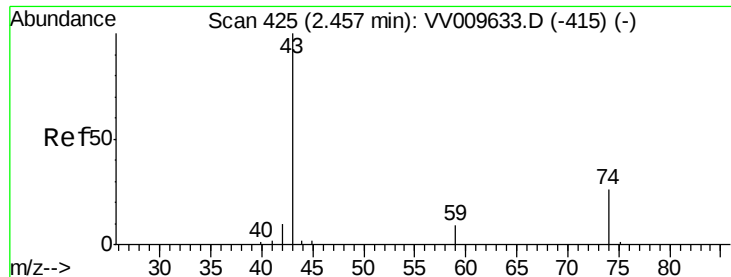
2.30

2.35

2.40

Time-->

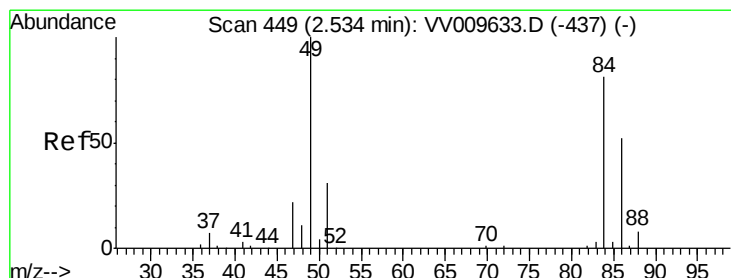
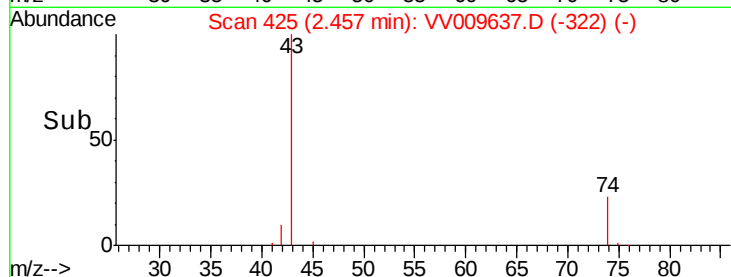
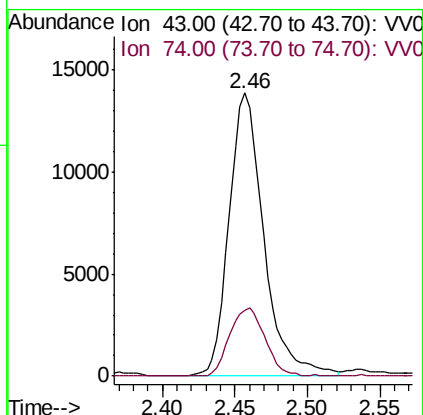
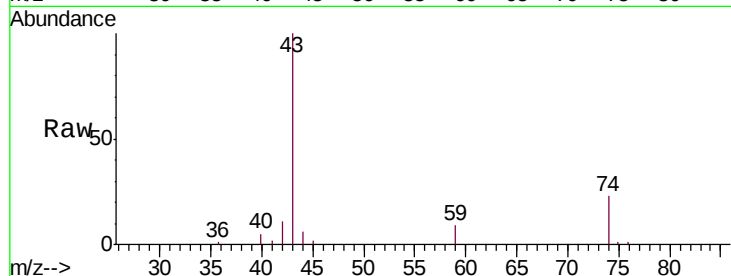




#15
Methyl Acetate
Concen: 26.628 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

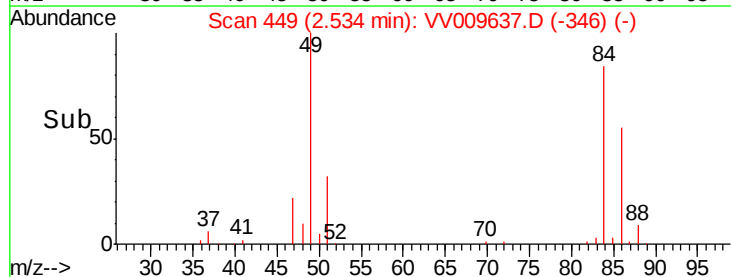
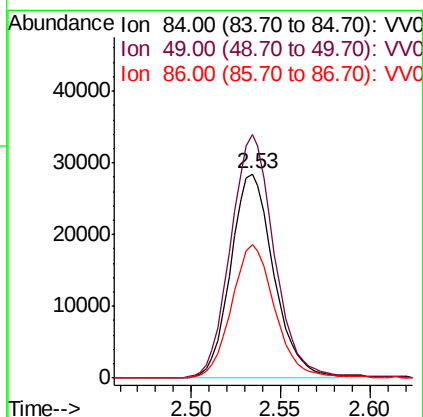
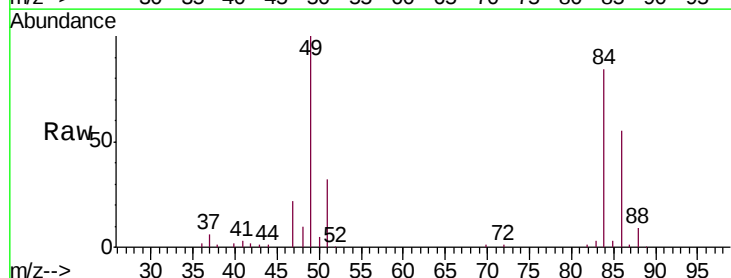
Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

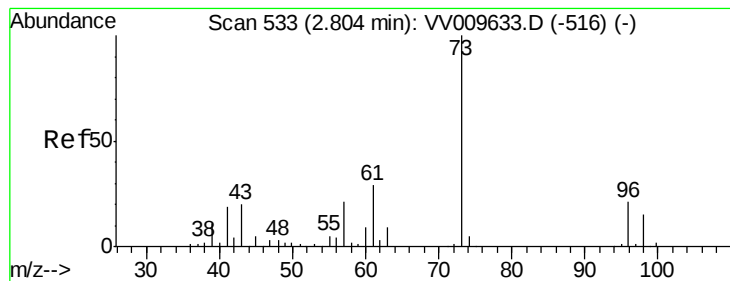
Tgt Ion: 43 Resp: 23138
Ion Ratio Lower Upper
43 100
74 24.3 19.8 29.6



#16
Methylene chloride
Concen: 22.317 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion: 84 Resp: 47923
Ion Ratio Lower Upper
84 100
49 119.2 86.1 159.9
86 65.2 45.2 84.0





#17

Methyl tert-butyl Ether

Concen: 23.591 ug/L

RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

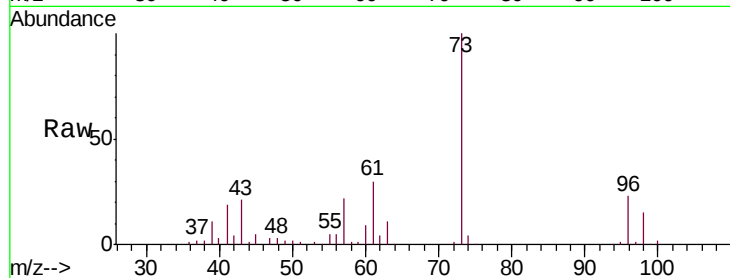
Tgt Ion: 73 Resp: 108343

Ion Ratio Lower Upper

73 100

43 21.2 16.3 24.5

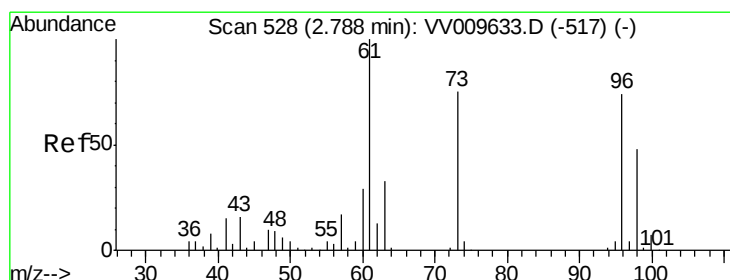
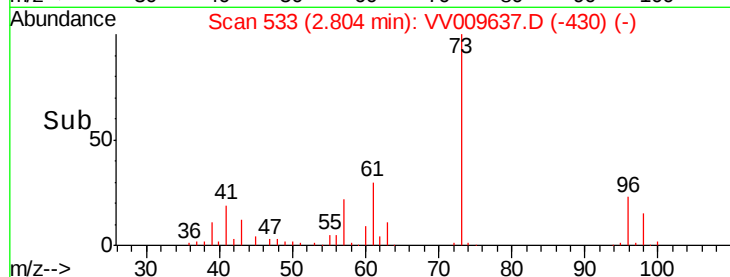
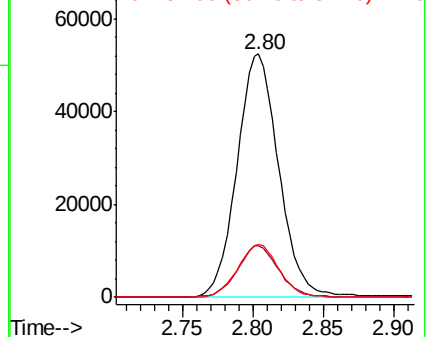
57 21.6 16.7 25.1



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: 24.800 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

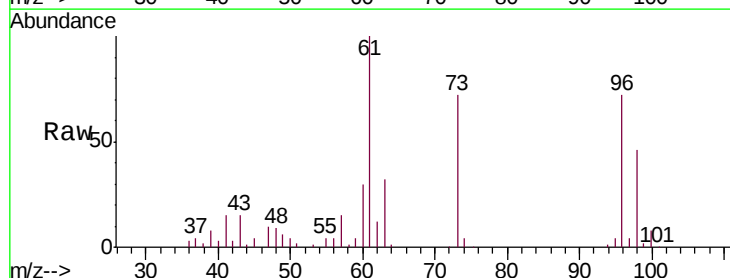
Tgt Ion: 96 Resp: 47793

Ion Ratio Lower Upper

96 100

61 138.0 94.4 175.2

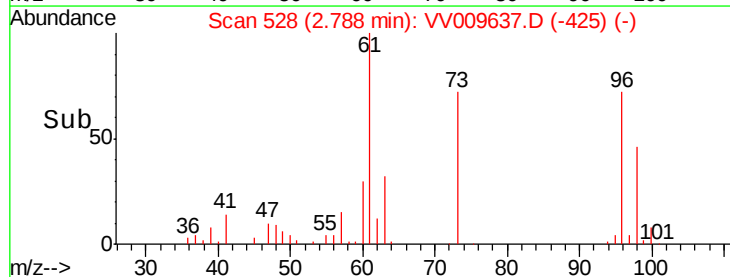
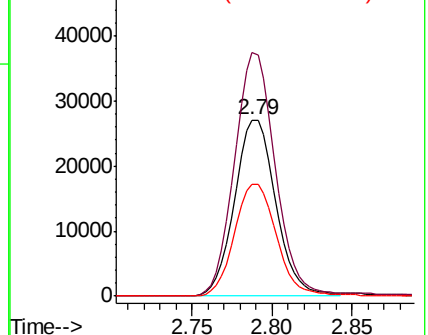
98 63.4 45.4 84.4

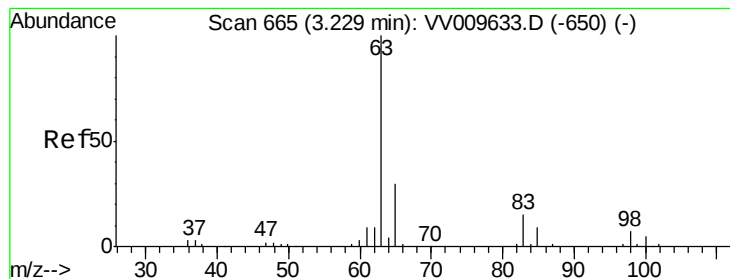


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 25.151 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

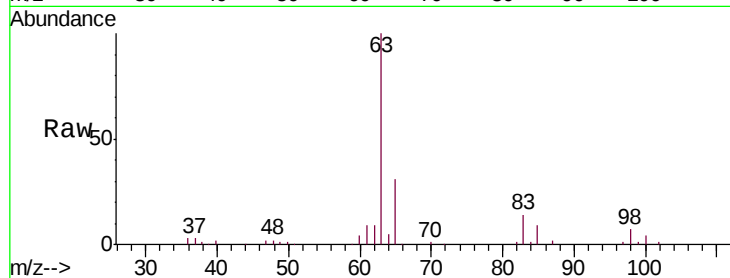
Tgt Ion: 63 Resp: 84597

Ion Ratio Lower Upper

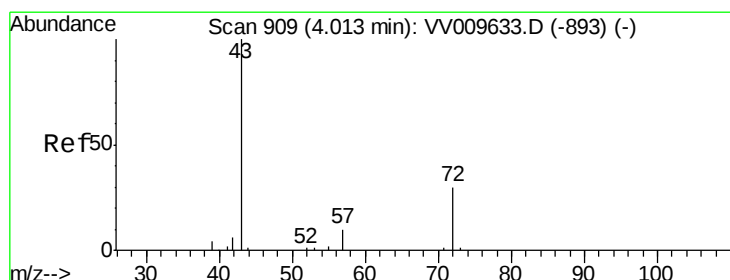
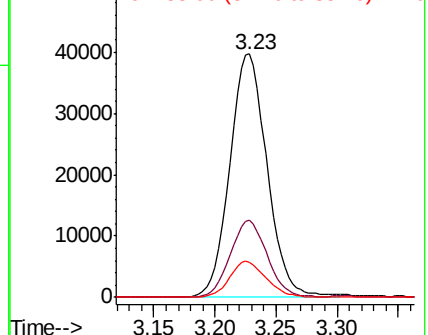
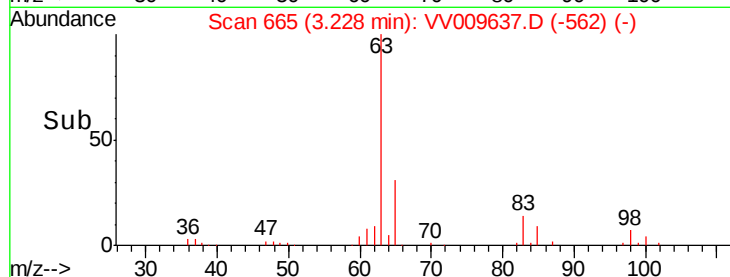
63 100

65 31.5 20.9 38.9

83 14.3 10.4 19.4



Abundance Ion 63.00 (62.70 to 63.70): VV009637.D (-650) (-)



#21

2-Butanone

Concen: 53.978 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.00 min

Lab File: VV009637.D

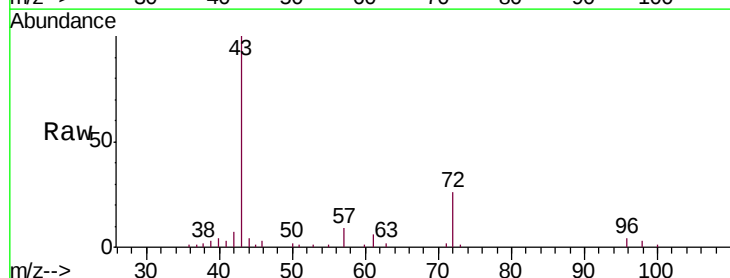
Acq: 13 Mar 2019 15:28

Tgt Ion: 43 Resp: 39688

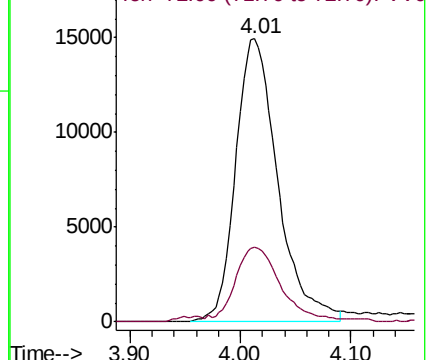
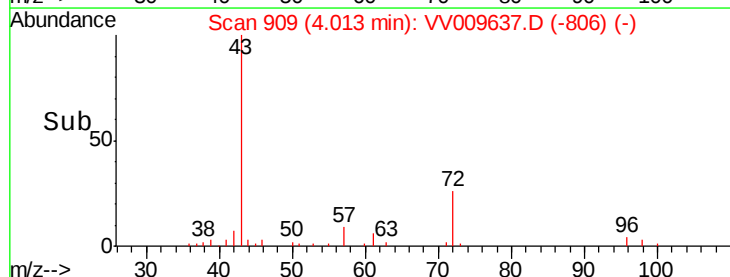
Ion Ratio Lower Upper

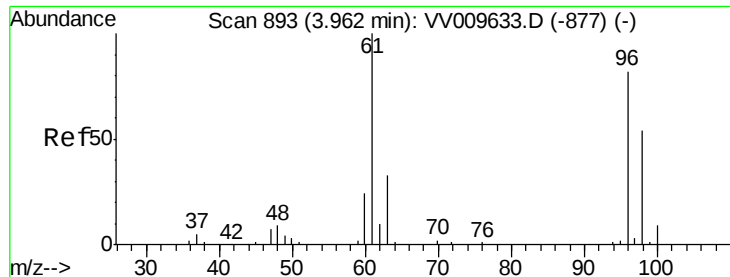
43 100

72 25.4 14.5 43.5



Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-893) (-)



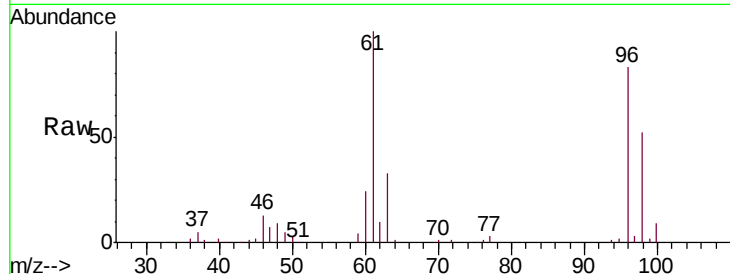


#22

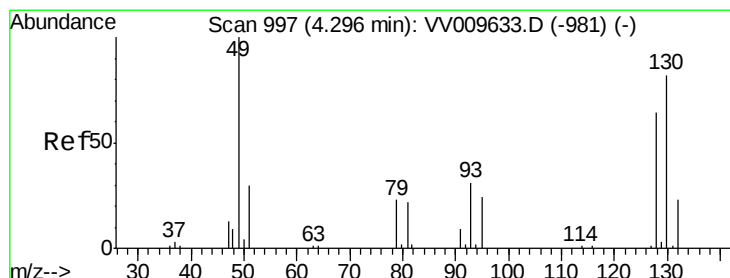
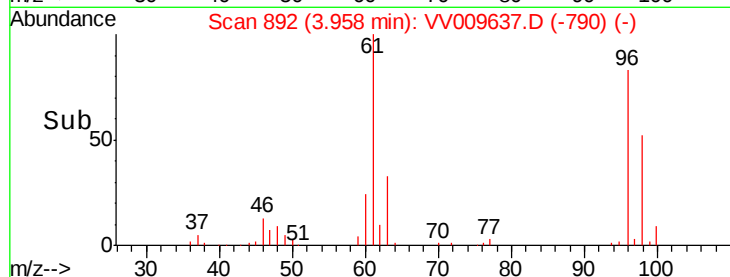
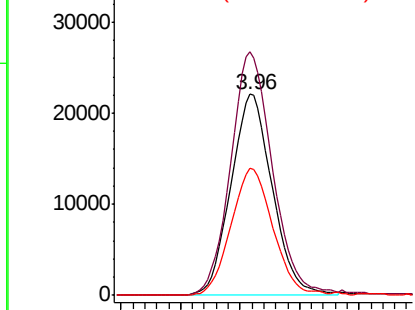
cis-1,2-Dichloroethene
 Concen: 24.673 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

Tgt Ion: 96 Resp: 53281
 Ion Ratio Lower Upper
 96 100
 61 121.0 86.2 160.0
 98 63.0 46.5 86.3



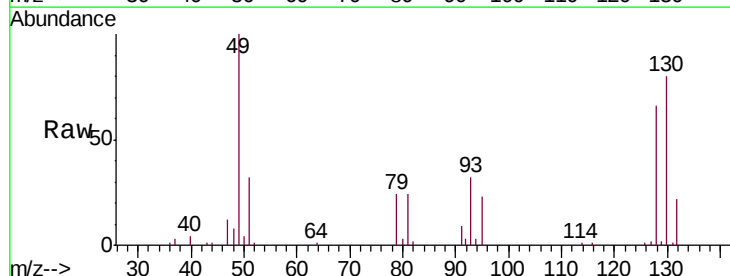
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



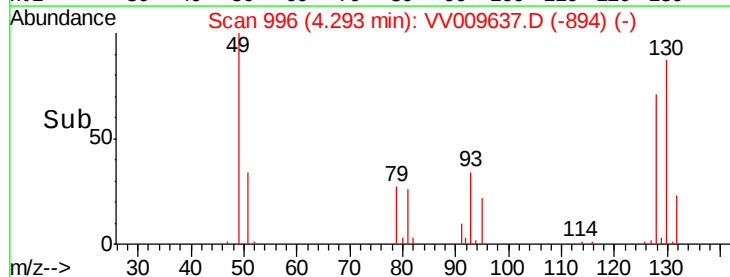
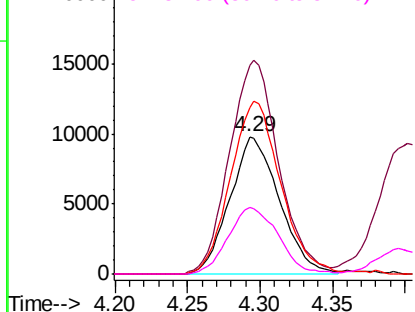
#23

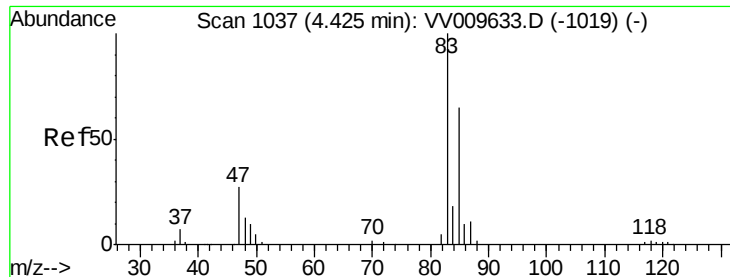
Bromochloromethane
 Concen: 23.323 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion: 128 Resp: 23285
 Ion Ratio Lower Upper
 128 100
 49 151.9 110.0 204.2
 130 121.4 90.4 168.0
 51 48.2 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

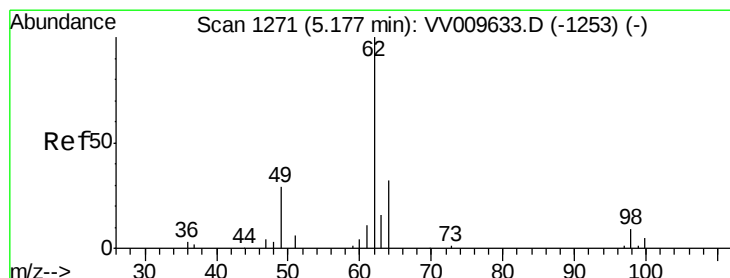
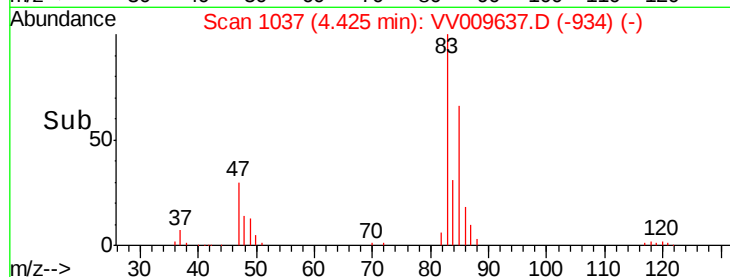
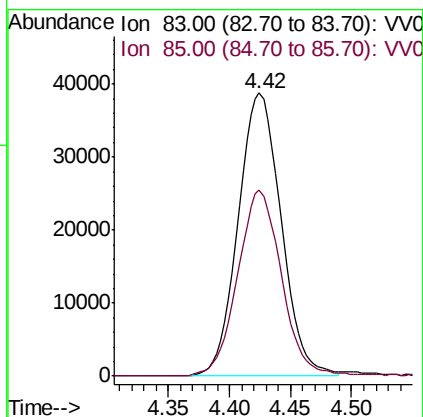
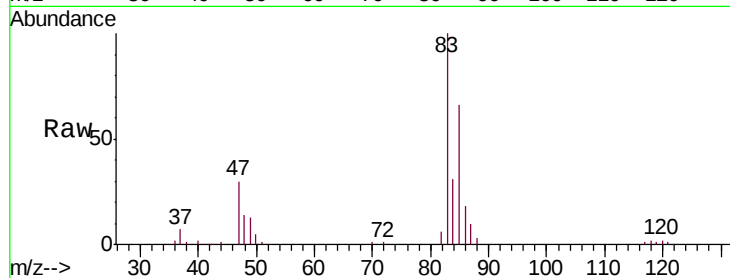




#25
Chloroform
Concen: 24.720 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

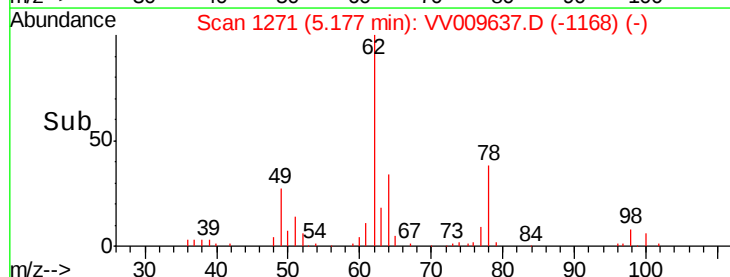
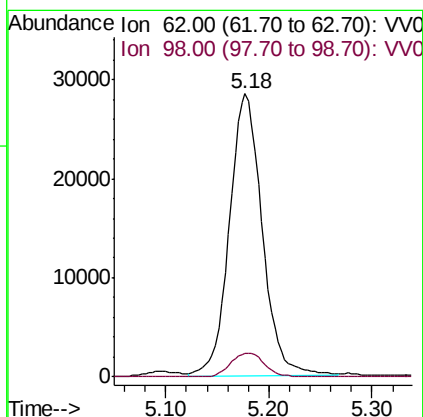
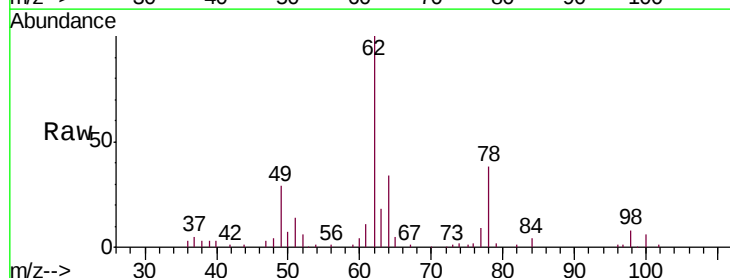
Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

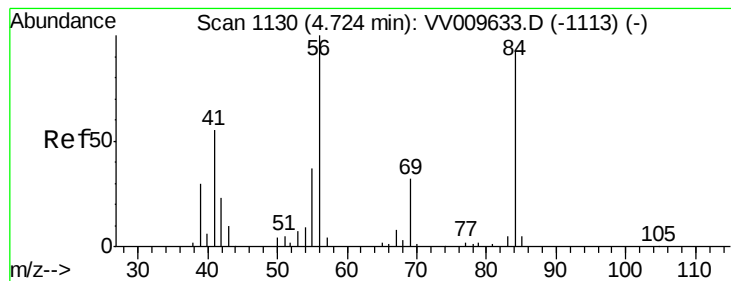
Tgt Ion: 83 Resp: 94740
Ion Ratio Lower Upper
83 100
85 67.0 46.4 86.2



#27
1,2-Dichloroethane
Concen: 23.972 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion: 62 Resp: 63437
Ion Ratio Lower Upper
62 100
98 8.2 7.2 10.8





#30

Cyclohexane

Concen: 24.796 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

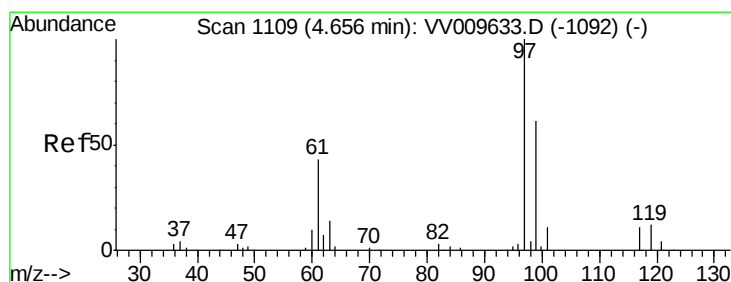
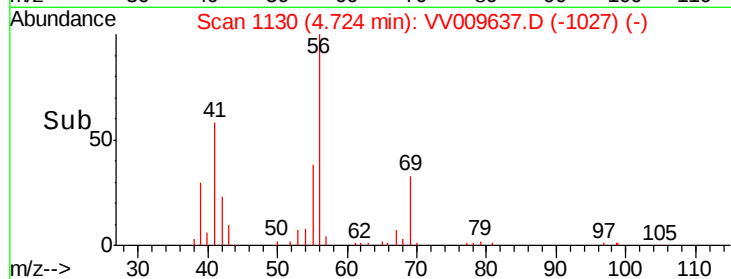
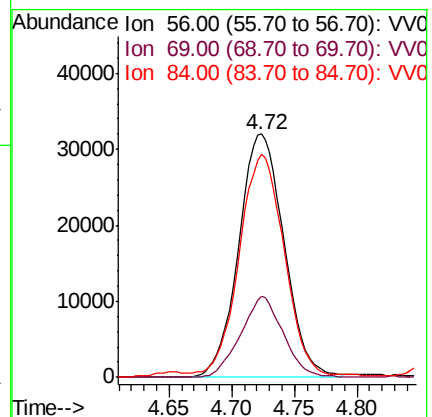
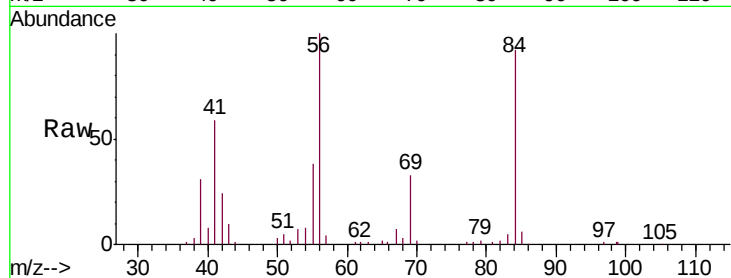
Tgt Ion: 56 Resp: 80644

Ion Ratio Lower Upper

56 100

69 31.1 25.4 38.0

84 91.2 72.6 109.0



#31

1,1,1-Trichloroethane

Concen: 24.678 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

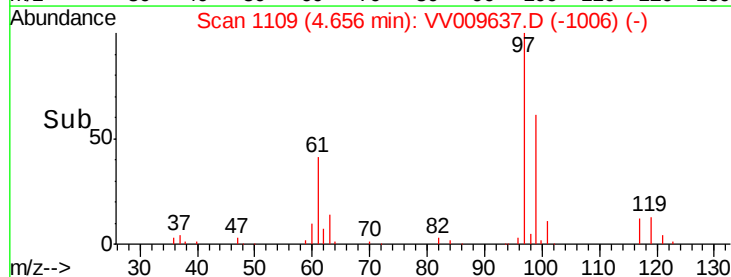
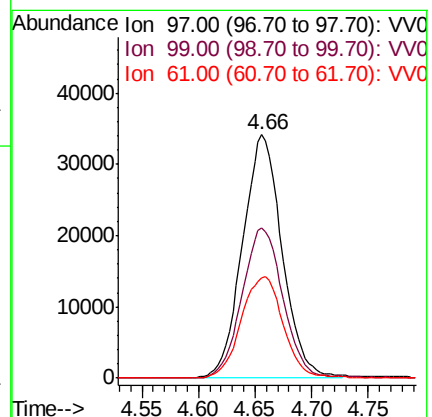
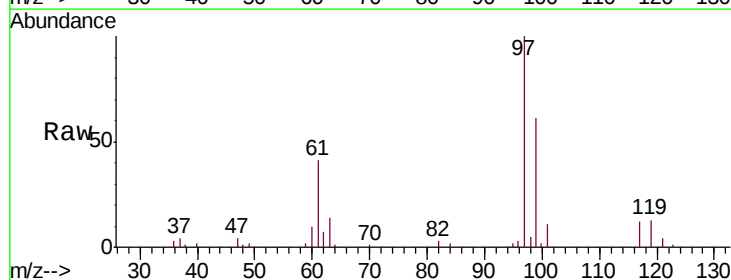
Tgt Ion: 97 Resp: 83194

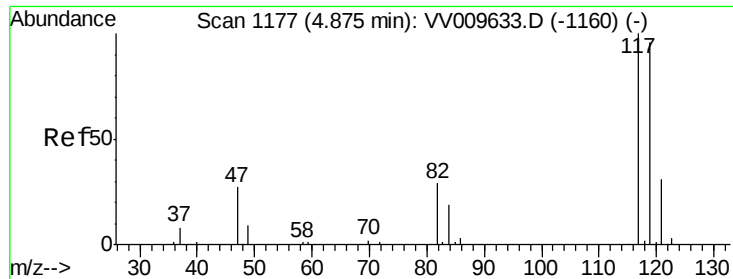
Ion Ratio Lower Upper

97 100

99 63.7 51.0 76.6

61 44.1 33.7 50.5



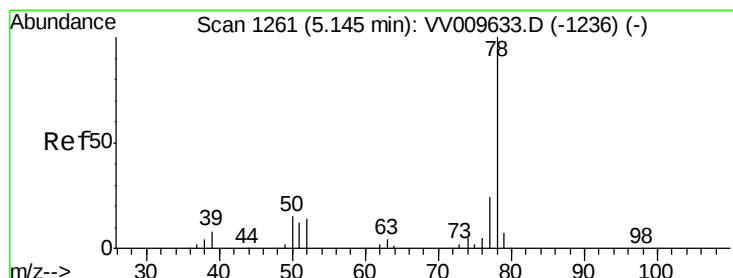
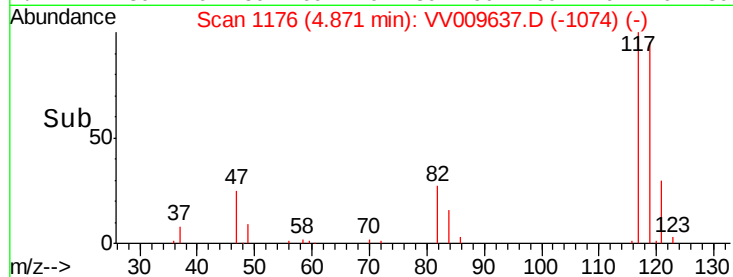
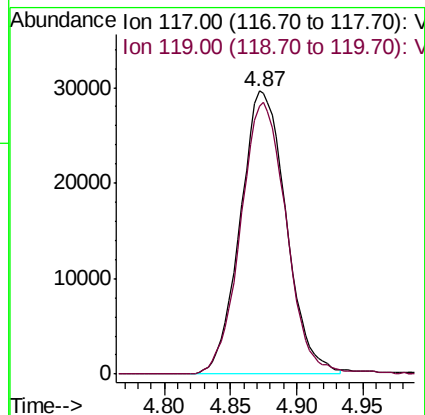
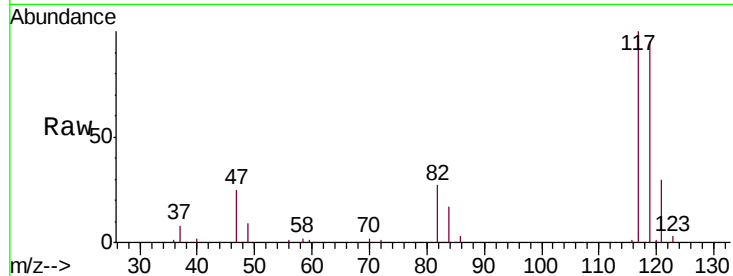


#32

Carbon tetrachloride
Concen: 25.005 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

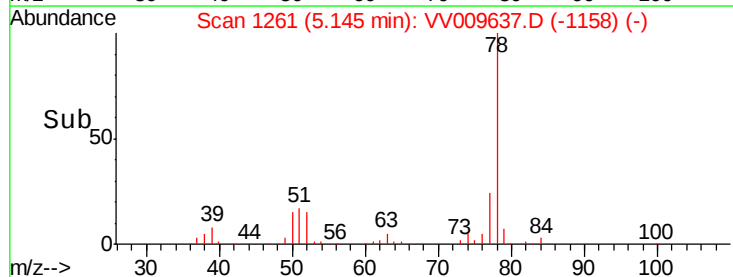
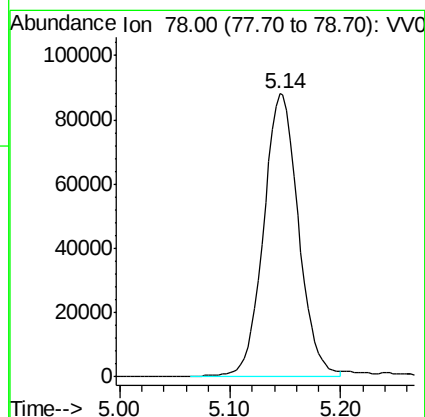
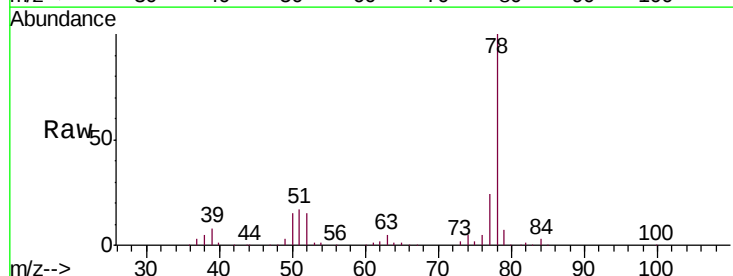
Tgt Ion:117 Resp: 71426
Ion Ratio Lower Upper
117 100
119 95.5 76.6 114.8

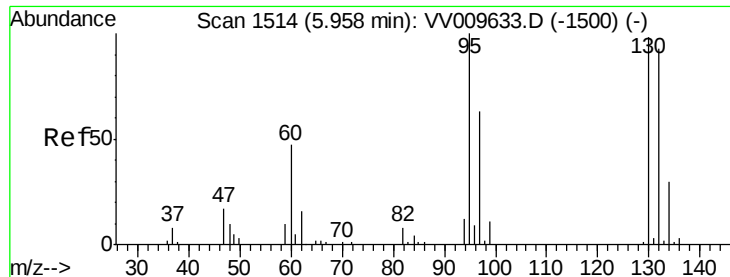


#34

Benzene
Concen: 23.708 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion: 78 Resp: 193489





#35

Trichloroethene

Concen: 24.169 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

Tgt Ion: 95 Resp: 54771

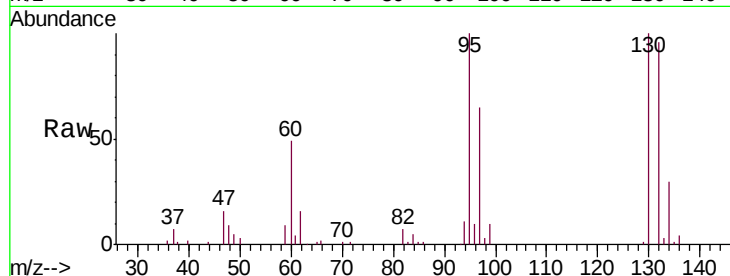
Ion Ratio Lower Upper

95 100

97 65.0 44.9 83.5

132 96.5 66.4 123.2

130 99.9 70.2 130.4

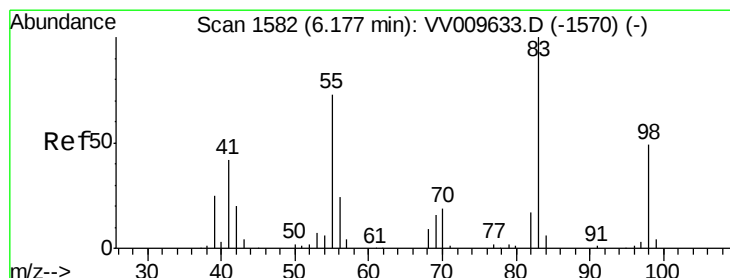
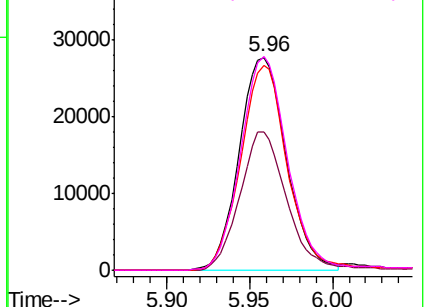
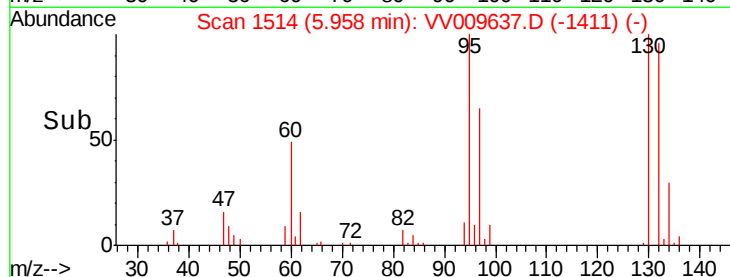


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 23.272 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

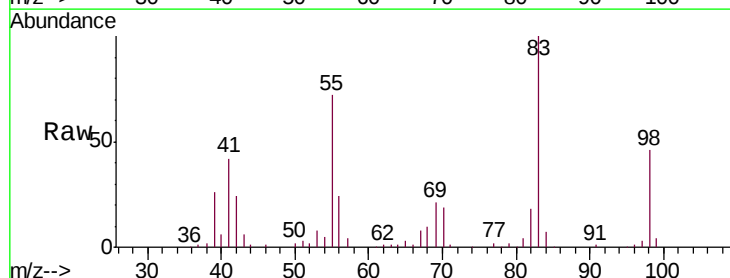
Tgt Ion: 83 Resp: 87576

Ion Ratio Lower Upper

83 100

55 74.2 57.4 86.0

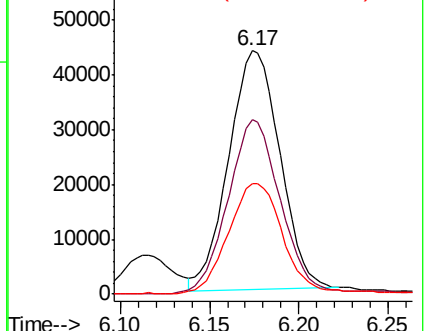
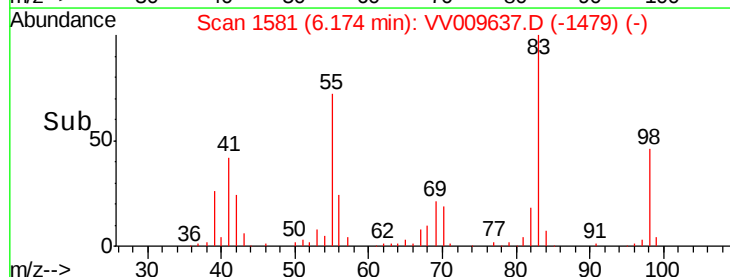
98 48.2 37.1 55.7

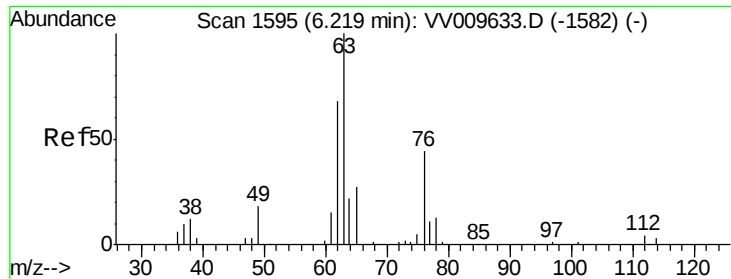


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

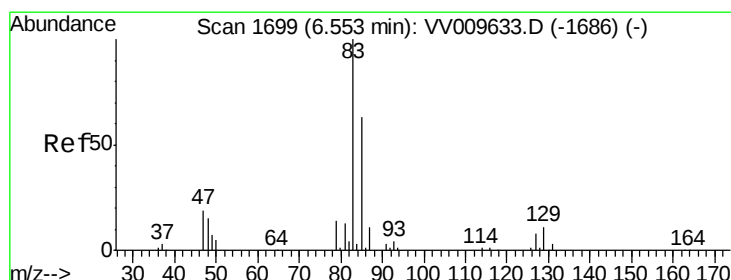
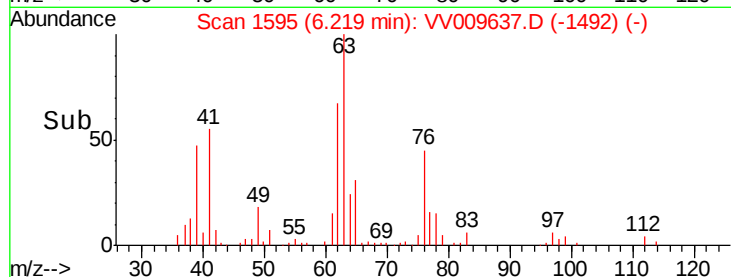
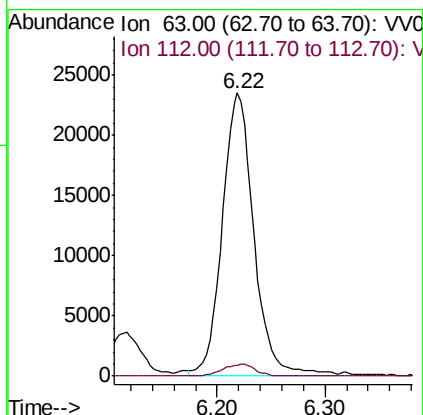
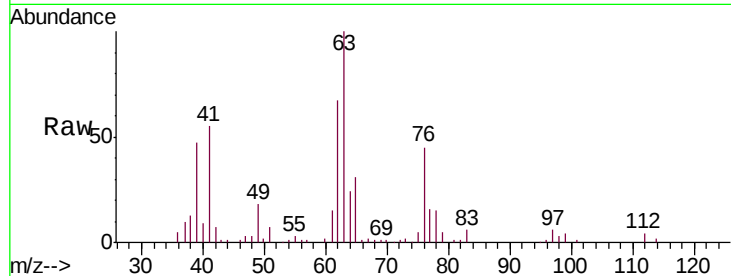




#40
 1,2-Dichloropropane
 Concen: 24.225 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

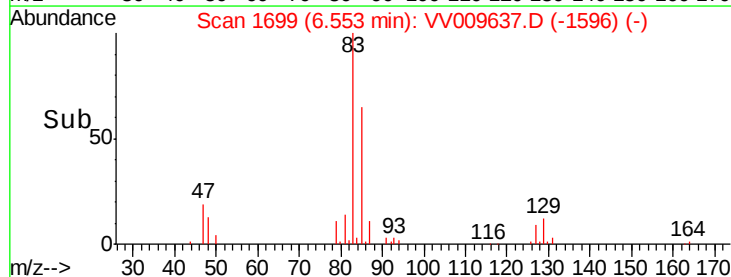
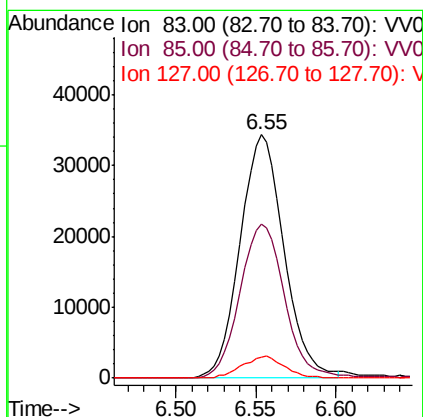
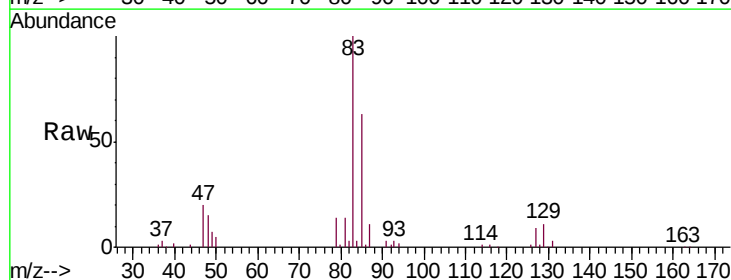
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

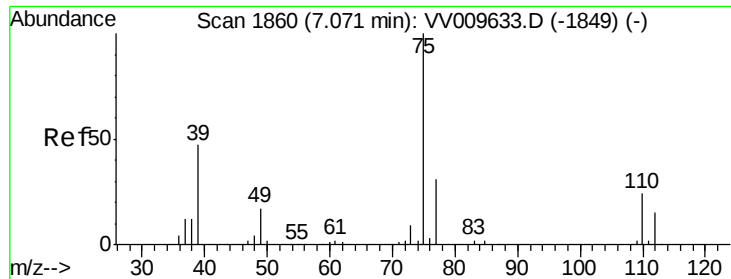
Tgt Ion: 63 Resp: 48034
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.2 4.8



#41
 Bromodichloromethane
 Concen: 23.691 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion: 83 Resp: 64632
 Ion Ratio Lower Upper
 83 100
 85 63.1 44.4 82.4
 127 8.8 6.7 10.1

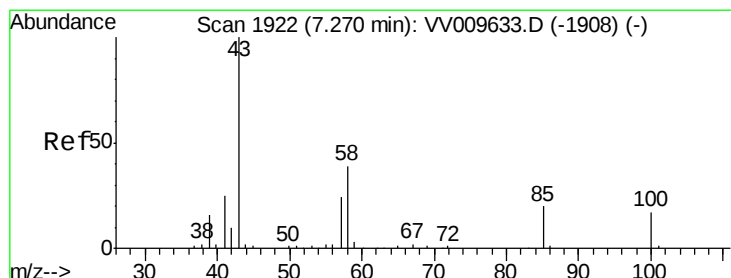
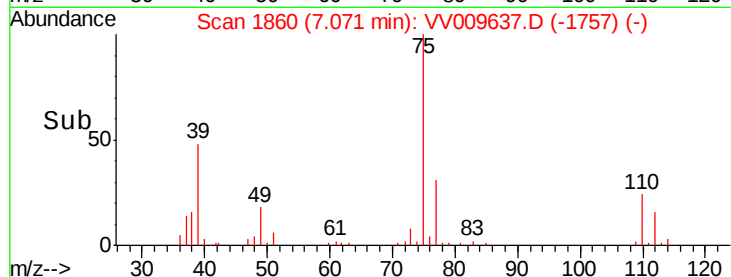
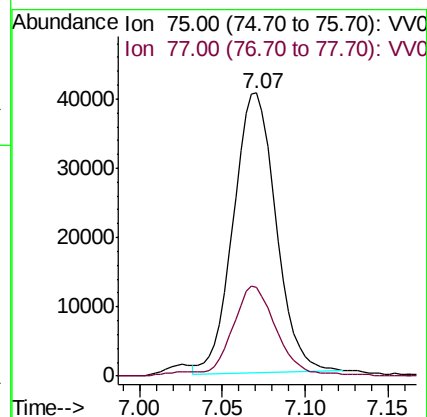
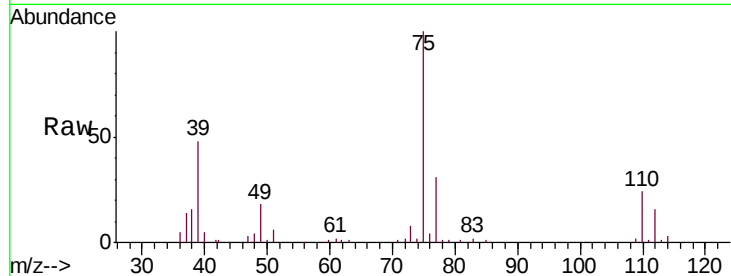




#42
 cis-1,3-Dichloropropene
 Concen: 23.996 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

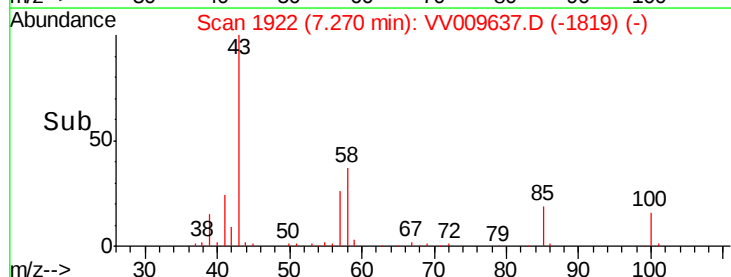
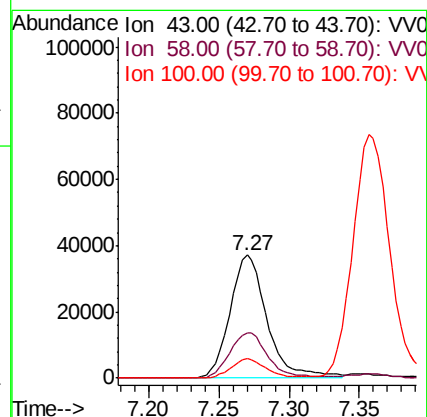
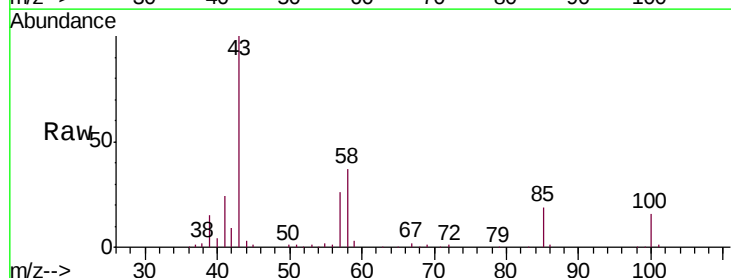
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

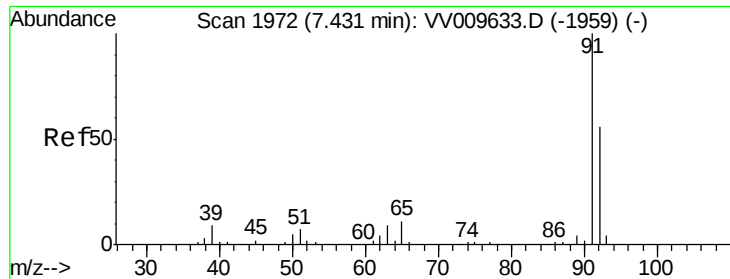
Tgt Ion: 75 Resp: 72240
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 40.8



#43
 4-Methyl-2-pentanone
 Concen: 50.368 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion: 43 Resp: 68293
 Ion Ratio Lower Upper
 43 100
 58 37.7 30.9 46.3
 100 14.9 11.8 17.6





#44

Toluene

Concen: 24.980 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

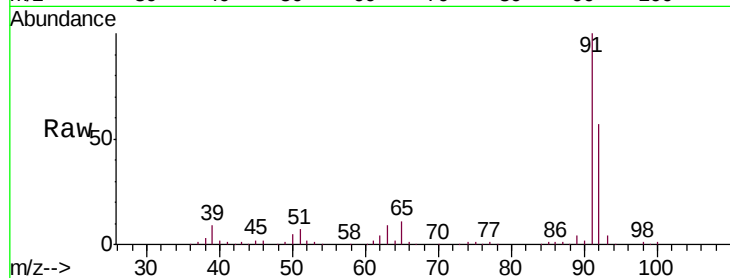
VSTD02561

Tgt Ion: 91 Resp: 227069

Ion Ratio Lower Upper

91 100

92 56.7 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VV009637.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009637.D (-1959) (-)

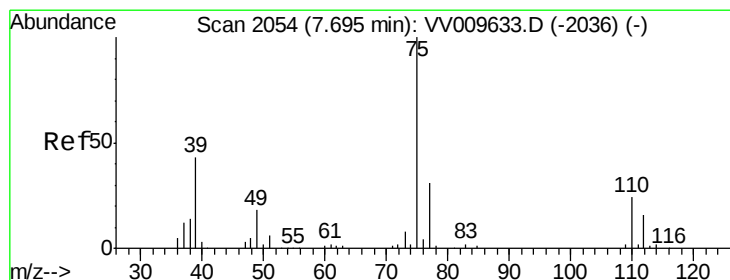
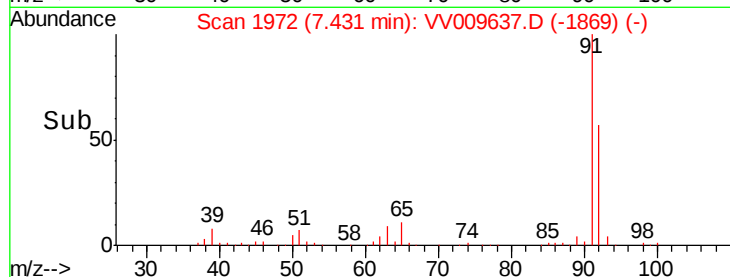
7.43

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.373 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009637.D

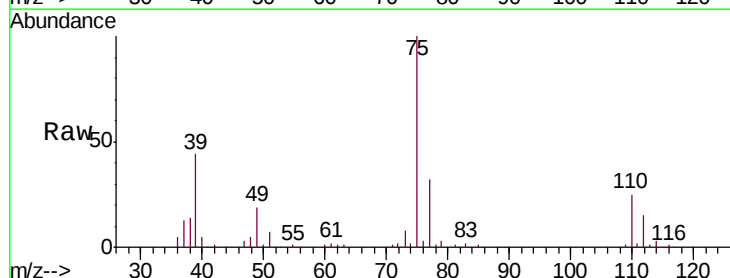
Acq: 13 Mar 2019 15:28

Tgt Ion: 75 Resp: 63364

Ion Ratio Lower Upper

75 100

77 32.1 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV009637.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV009637.D (-2036) (-)

7.69

40000

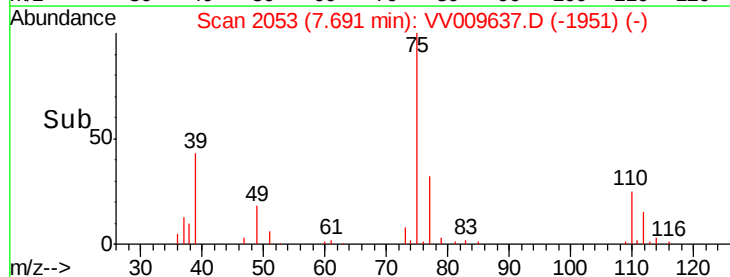
30000

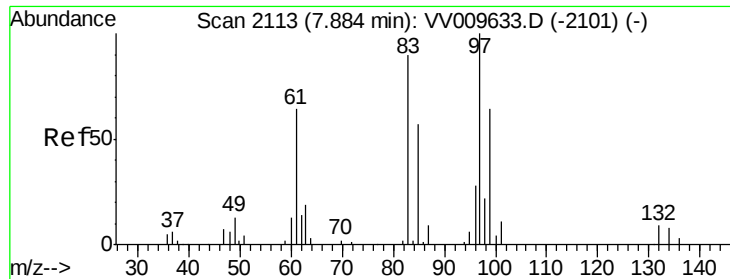
20000

10000

0

Time-->

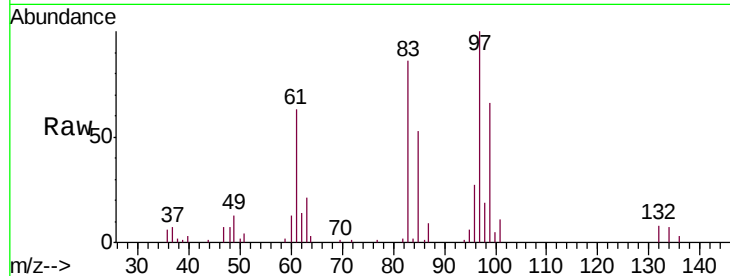




#46
 1,1,2-Trichloroethane
 Concen: 23.618 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

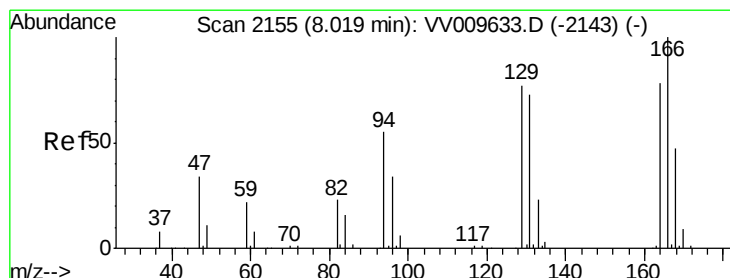
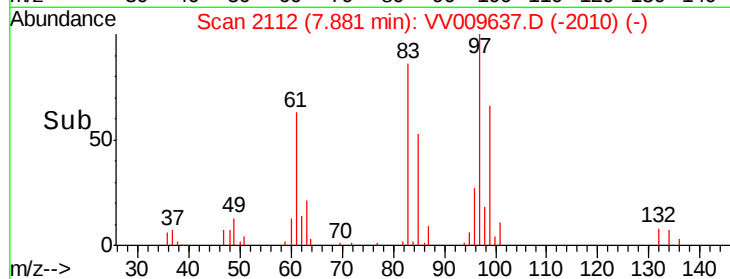
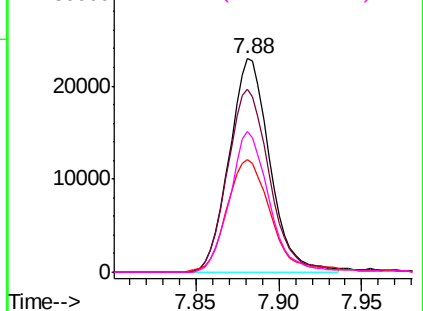
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

Tgt Ion:	97	Resp:	39129
Ion	Ratio	Lower	Upper
97	100		
83	85.8	62.9	116.7
85	52.8	40.0	74.2
99	66.2	44.9	83.3



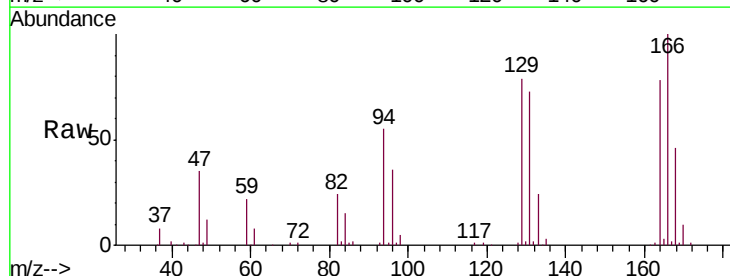
Abundance

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



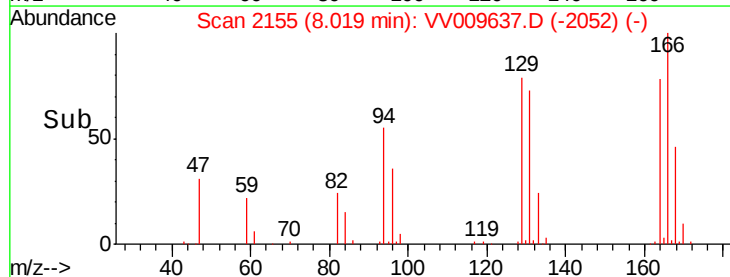
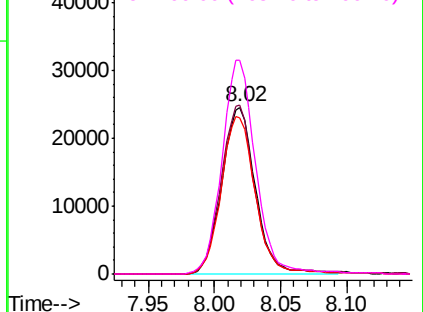
#47
 Tetrachloroethene
 Concen: 24.175 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

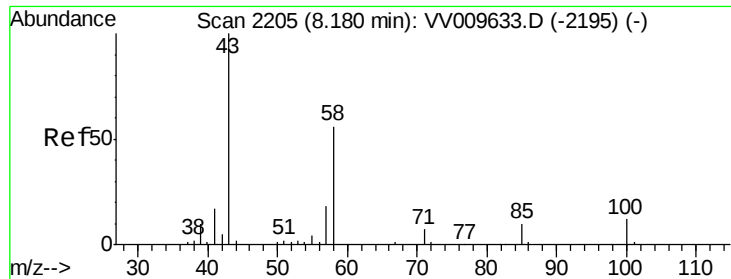
Tgt Ion:	164	Resp:	43276
Ion	Ratio	Lower	Upper
164	100		
129	101.3	69.0	128.1
131	94.1	65.7	122.1
166	128.2	89.4	166.0



Abundance

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

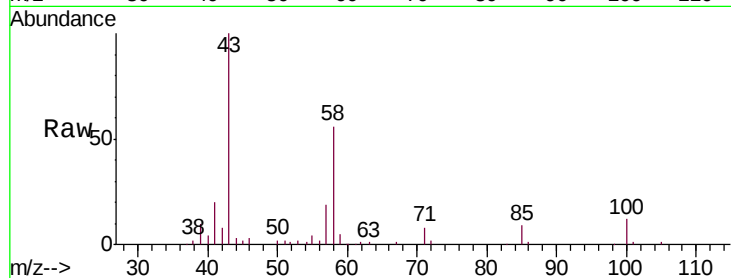




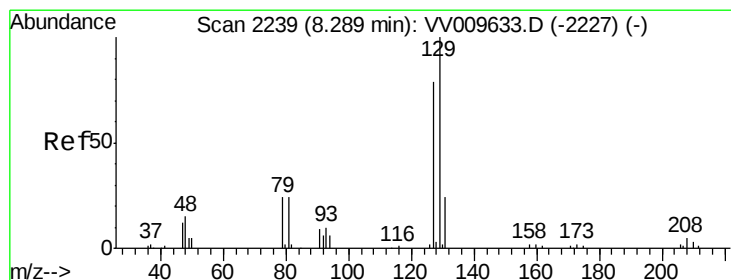
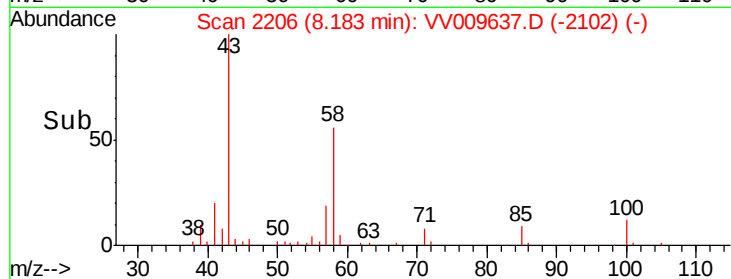
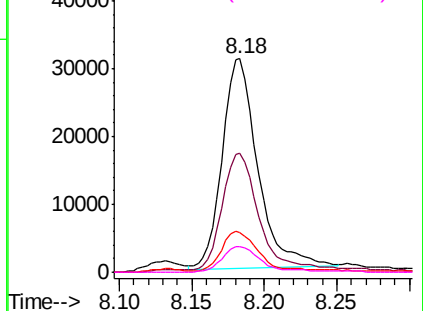
#49
2-Hexanone
Concen: 52.267 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

Tgt Ion:	43	Resp:	53223
Ion	Ratio	Lower	Upper
43	100		
58	58.2	44.9	67.3
57	18.2	14.5	21.7
100	12.7	9.3	13.9

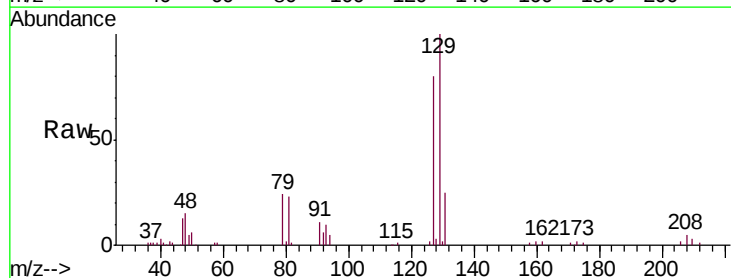


Abundance Ion 43.00 (42.70 to 43.70): VV009637.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV009637.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV009637.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV009637.D (-2195) (-)

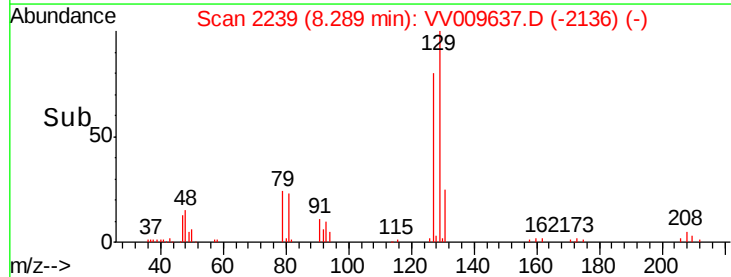
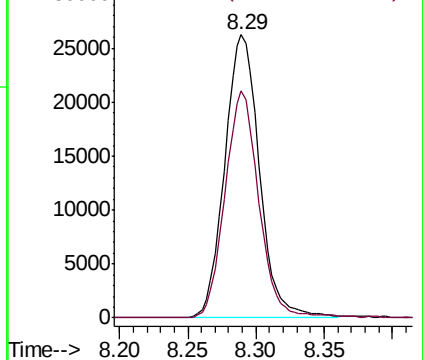


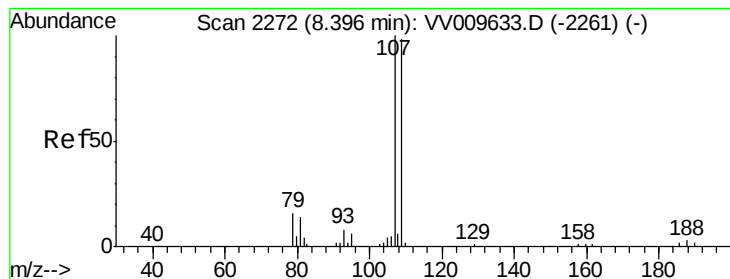
#50
Dibromochloromethane
Concen: 24.719 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion:	129	Resp:	46444
Ion	Ratio	Lower	Upper
129	100		
127	80.1	55.4	102.8



Abundance Ion 129.00 (128.70 to 129.70): VV009637.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV009637.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 24.587 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

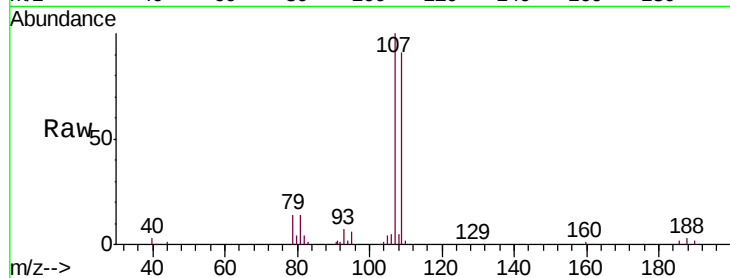
Tgt Ion:107 Resp: 40346

Ion Ratio Lower Upper

107 100

109 91.2 68.4 127.0

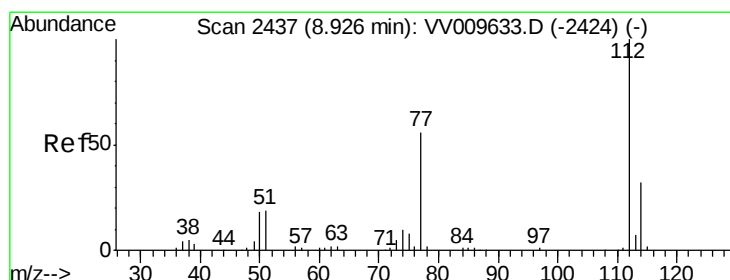
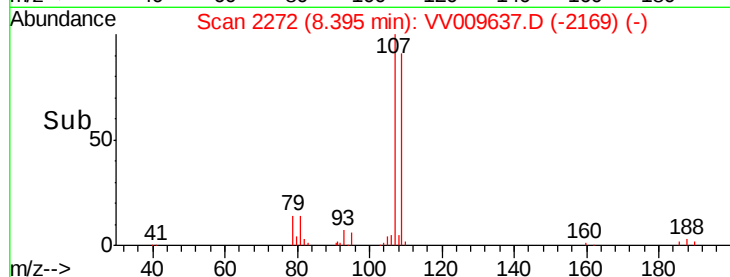
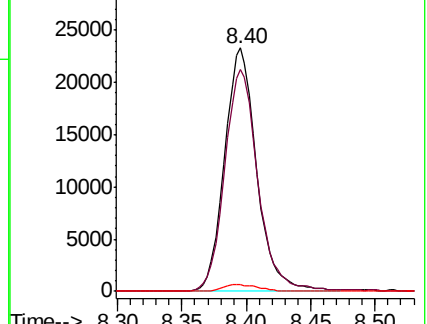
188 2.7 2.6 3.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.030 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

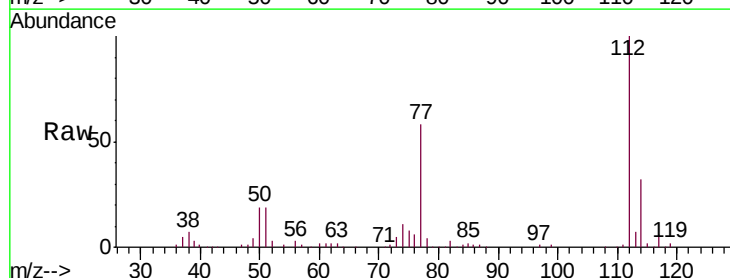
Tgt Ion:112 Resp: 142130

Ion Ratio Lower Upper

112 100

77 58.1 45.6 68.4

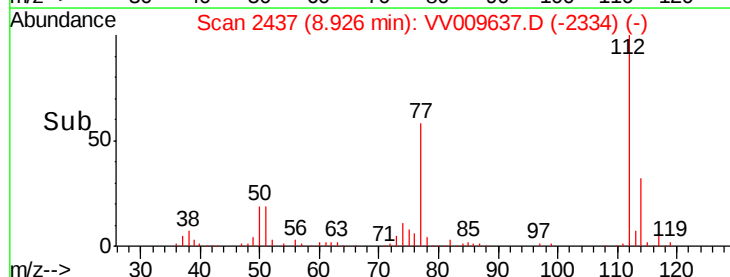
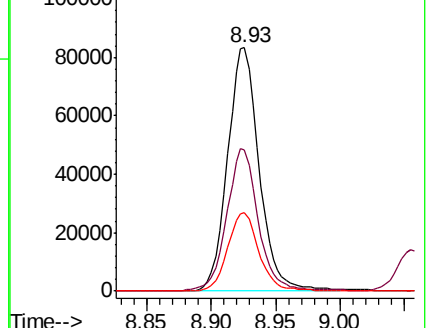
114 32.1 22.3 41.5

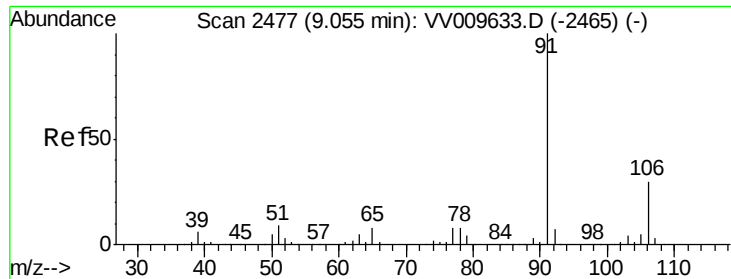


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

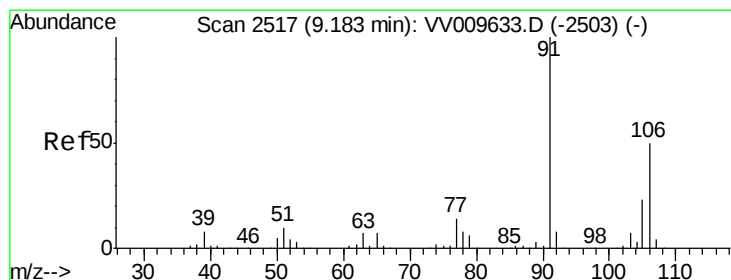
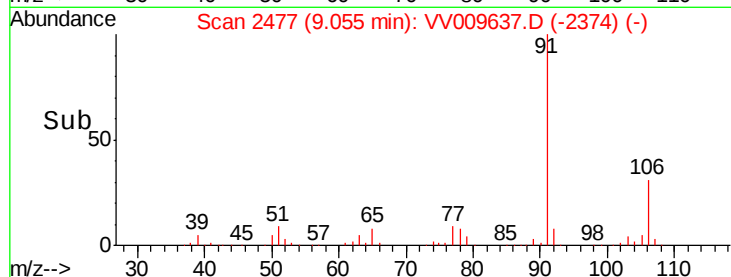
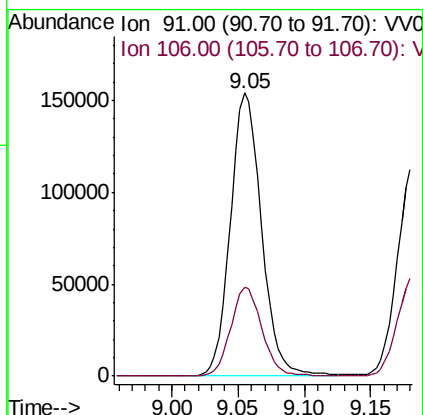
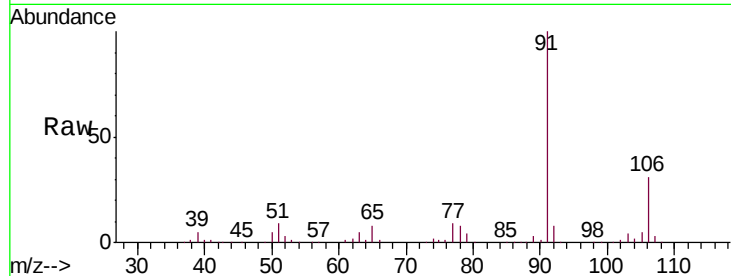




#53
Ethylbenzene
Concen: 25.104 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

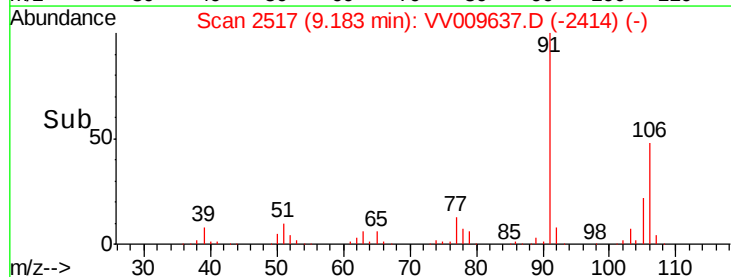
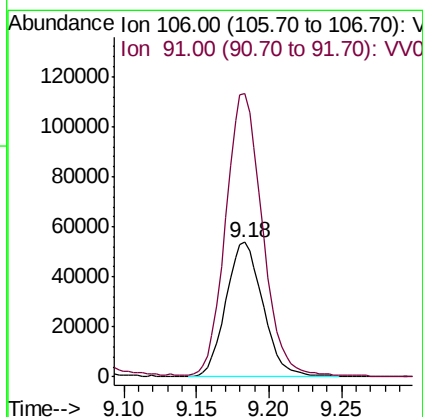
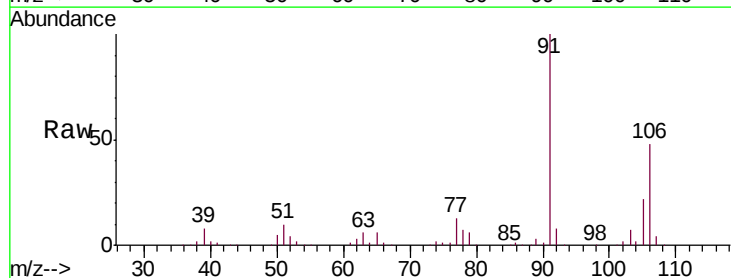
Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

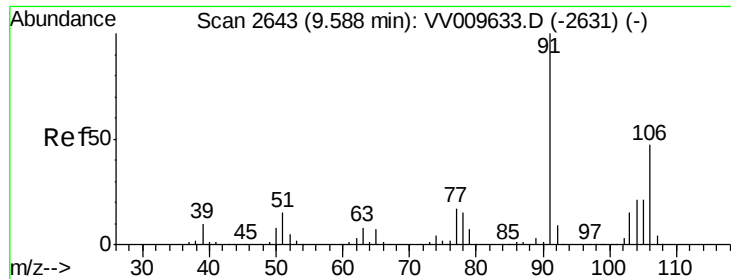
Tgt Ion: 91 Resp: 252397
Ion Ratio Lower Upper
91 100
106 31.4 21.1 39.1



#54
m,p-Xylene
Concen: 24.844 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion: 106 Resp: 94287
Ion Ratio Lower Upper
106 100
91 209.9 141.4 262.6

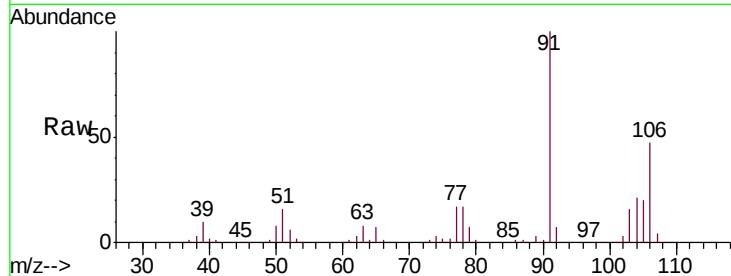




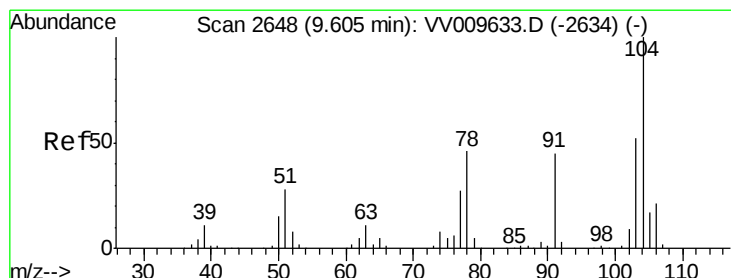
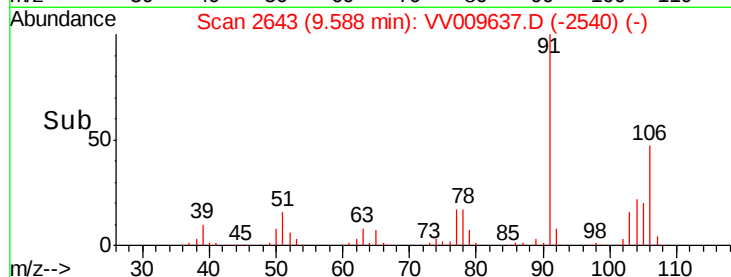
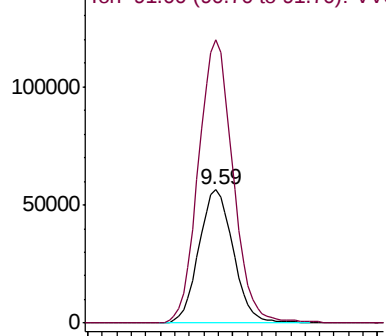
#55
o-xylene
Concen: 25.075 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Instrument :
MSVOA_V
ClientSampleId :
VSTD02561

Tgt Ion:106 Resp: 93395
Ion Ratio Lower Upper
106 100
91 212.4 149.7 278.1

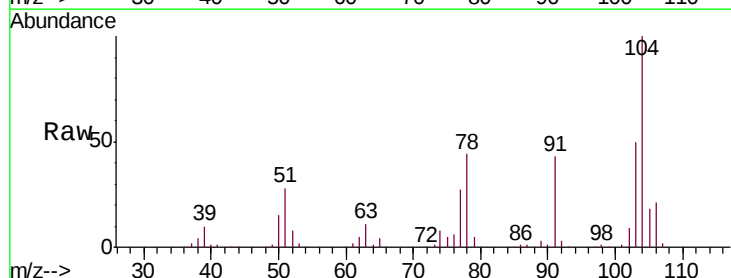


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

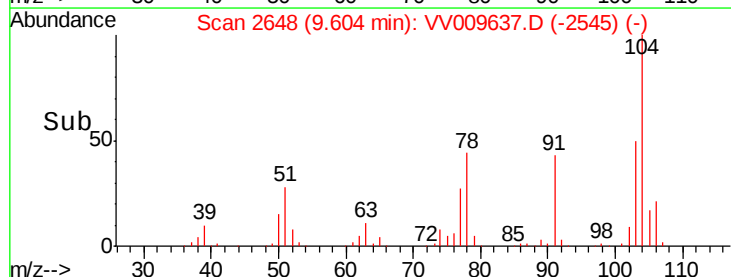
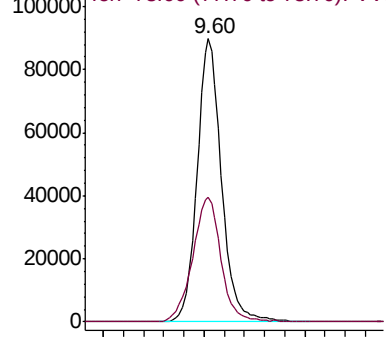


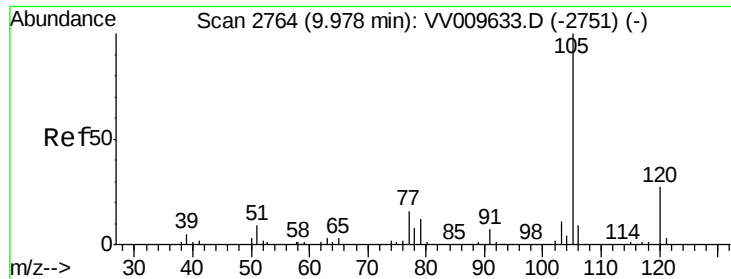
#56
Styrene
Concen: 24.908 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV009637.D
Acq: 13 Mar 2019 15:28

Tgt Ion:104 Resp: 151314
Ion Ratio Lower Upper
104 100
78 43.9 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: 25.191 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

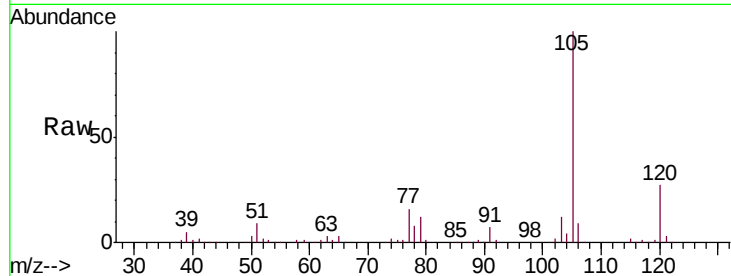
Tgt Ion: 105 Resp: 248843

Ion Ratio Lower Upper

105 100

120 26.8 21.5 32.3

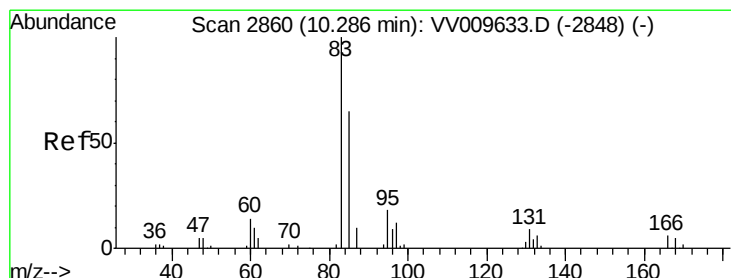
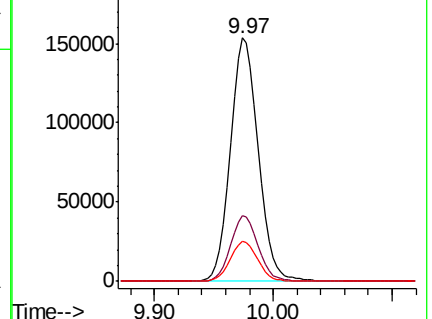
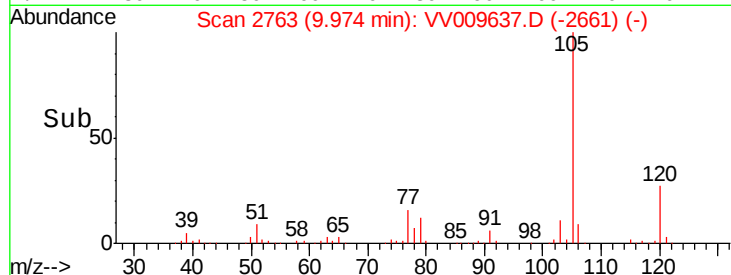
77 16.1 12.9 19.3



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: 24.992 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

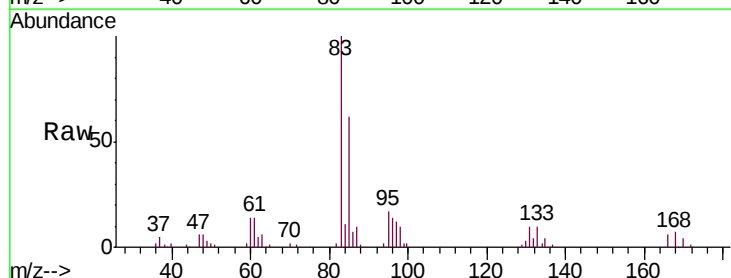
Tgt Ion: 83 Resp: 53686

Ion Ratio Lower Upper

83 100

85 61.7 46.1 85.7

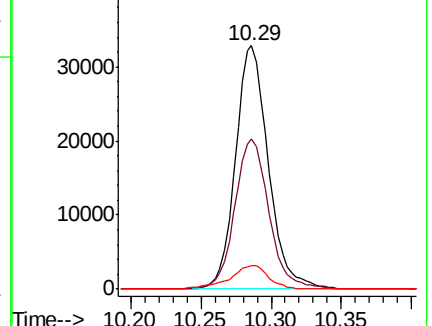
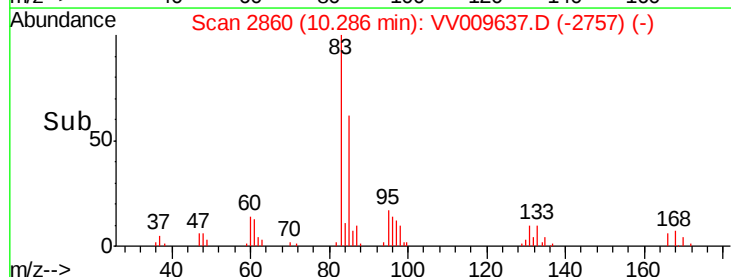
131 9.8 8.0 12.0

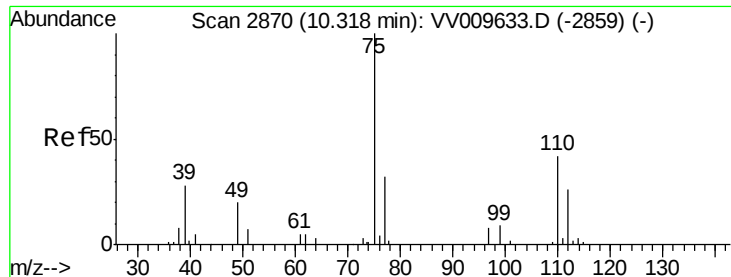


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

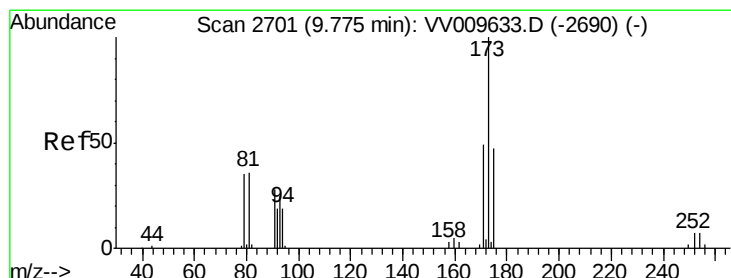
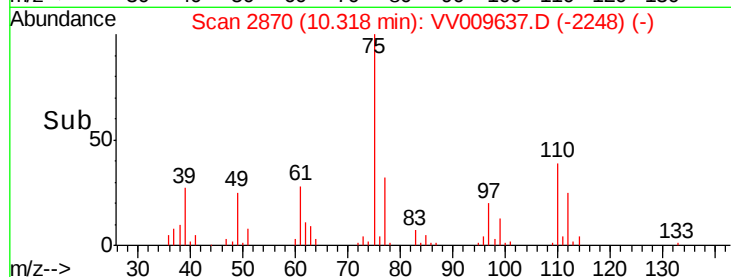
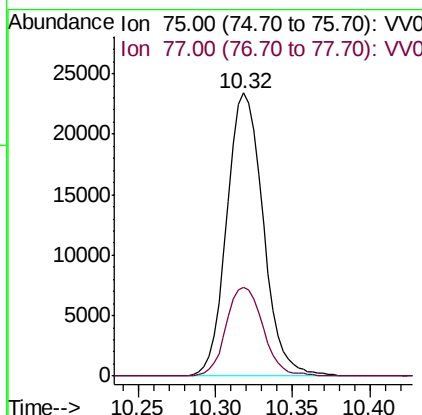
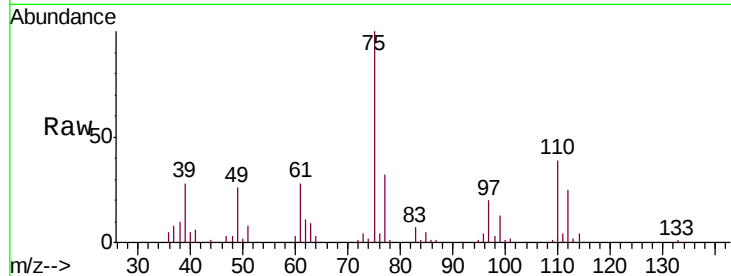




#59
 1,2,3-Trichloropropane
 Concen: 24.810 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

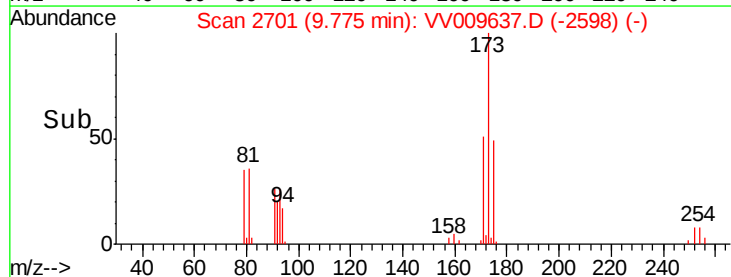
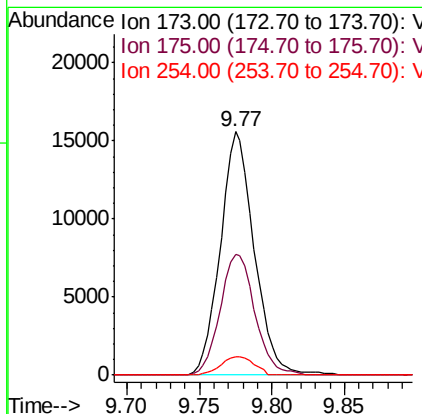
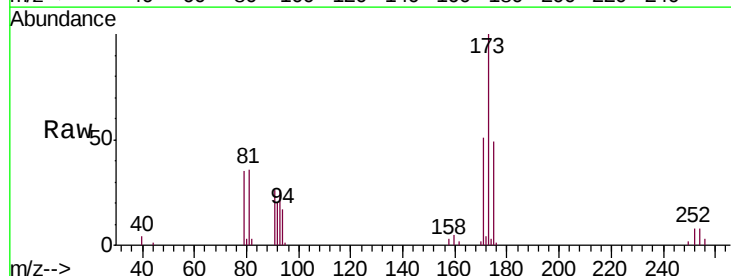
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

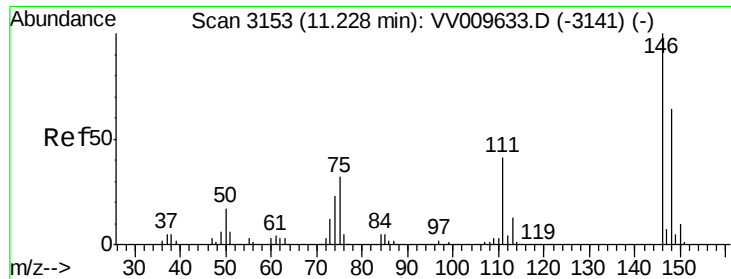
Tgt Ion: 75 Resp: 38260
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.3 37.9



#62
 Bromoform
 Concen: 24.690 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion: 173 Resp: 25248
 Ion Ratio Lower Upper
 173 100
 175 50.7 37.8 56.6
 254 7.4 6.1 9.1

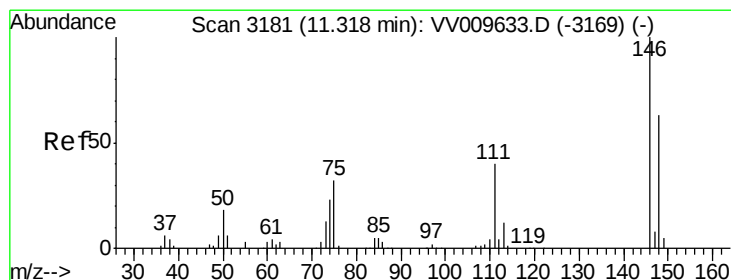
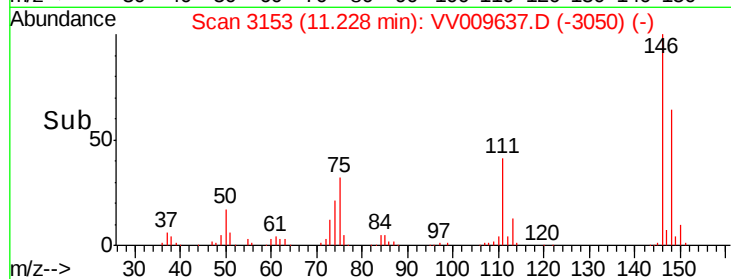
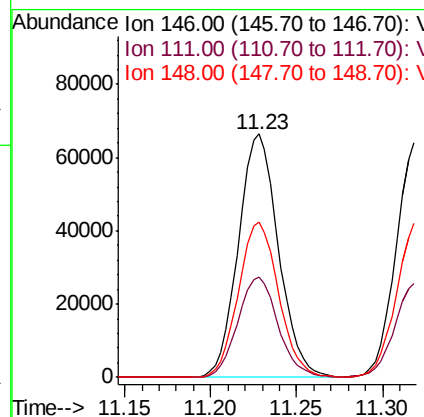
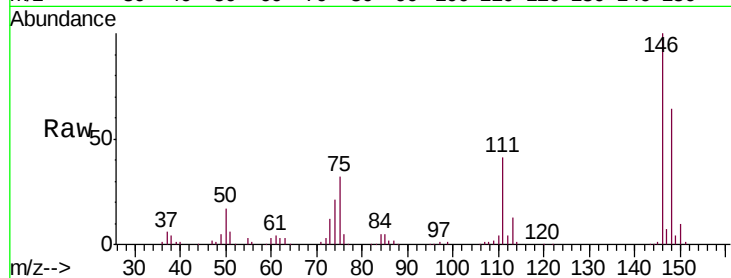




#63
 1,3-Dichlorobenzene
 Concen: 24.590 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

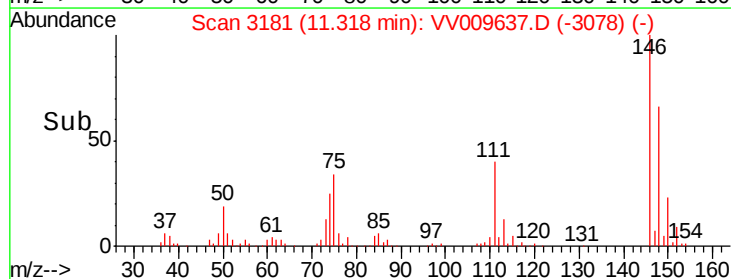
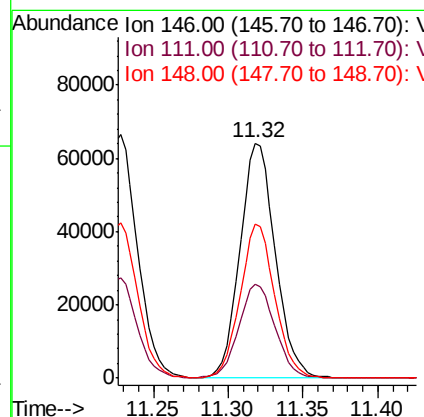
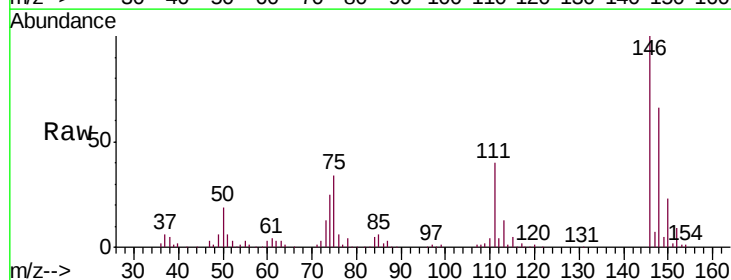
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

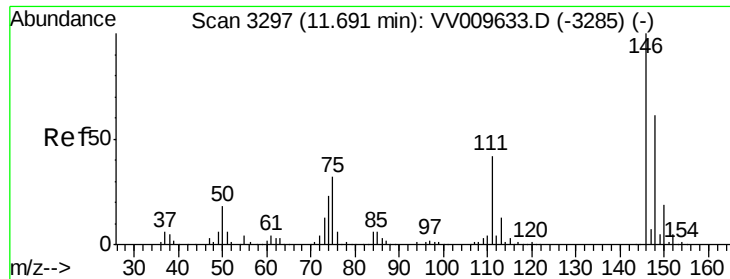
Tgt Ion:146 Resp: 107378
 Ion Ratio Lower Upper
 146 100
 111 41.1 28.8 53.6
 148 63.8 45.1 83.7



#64
 1,4-Dichlorobenzene
 Concen: 23.625 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion:146 Resp: 105006
 Ion Ratio Lower Upper
 146 100
 111 39.9 28.2 52.4
 148 65.6 44.2 82.0





#65

1,2-Dichlorobenzene

Concen: 24.332 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

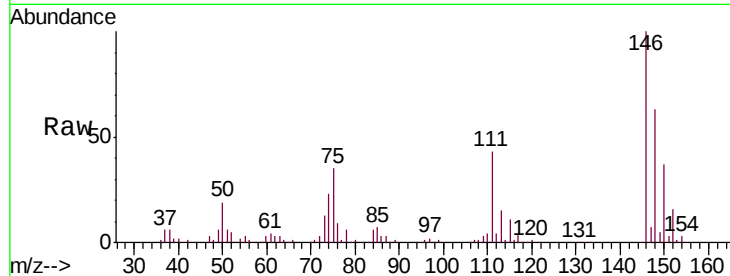
Tgt Ion:146 Resp: 98856

Ion Ratio Lower Upper

146 100

111 42.9 33.8 50.6

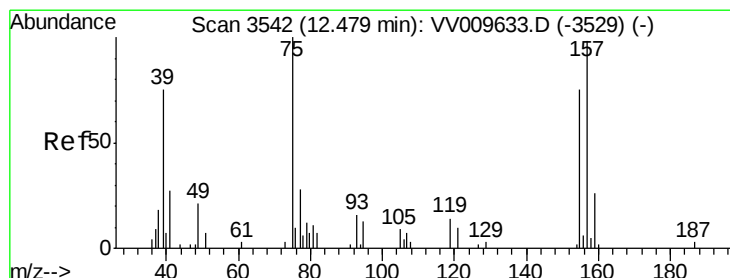
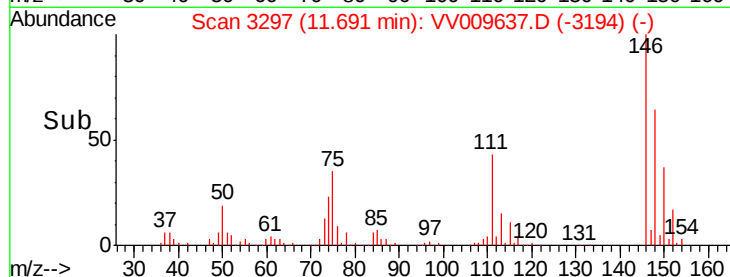
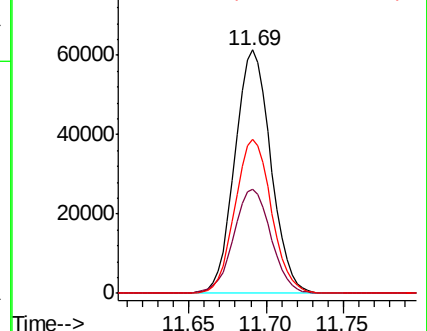
148 63.4 49.1 73.7



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: 26.504 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

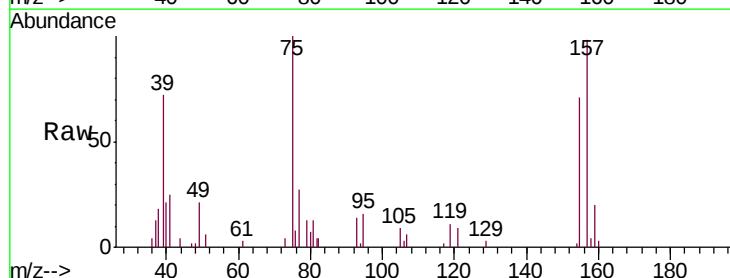
Tgt Ion: 75 Resp: 7972

Ion Ratio Lower Upper

75 100

157 98.2 78.6 118.0

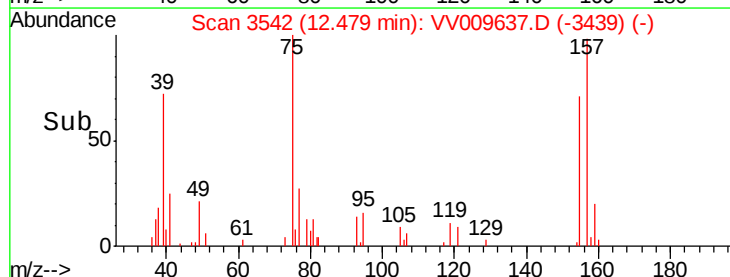
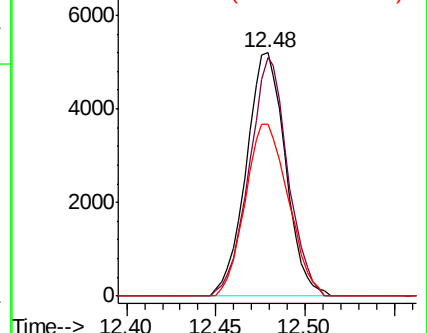
155 70.6 60.0 90.0

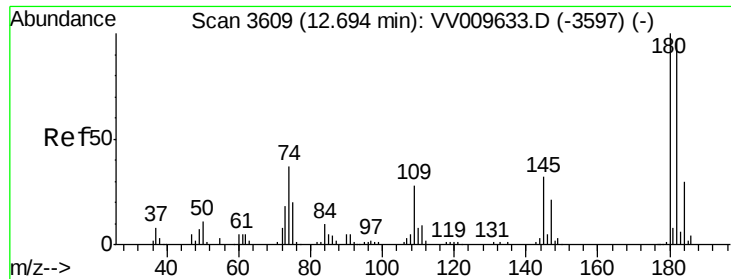


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

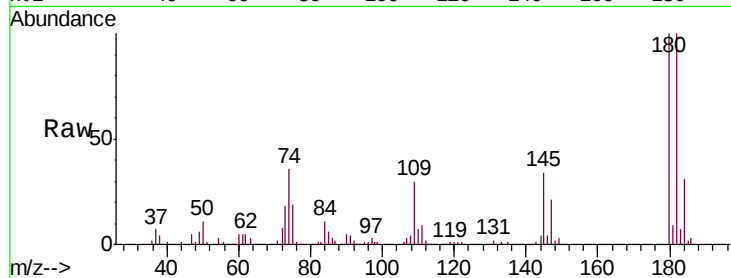




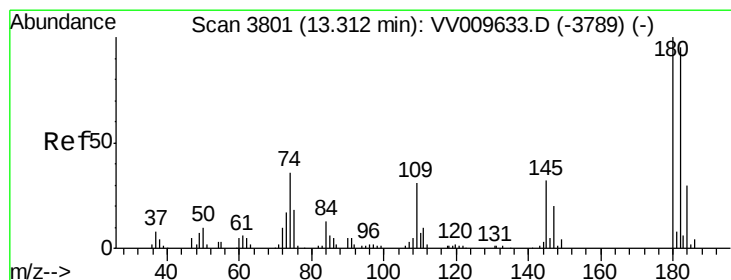
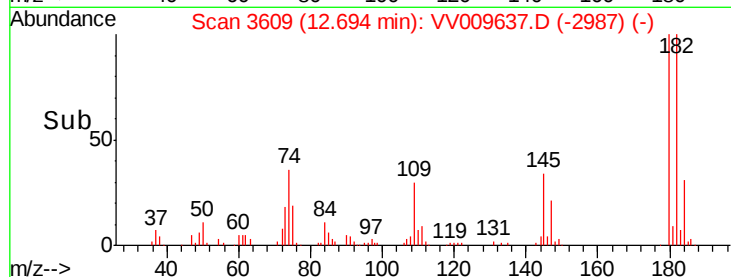
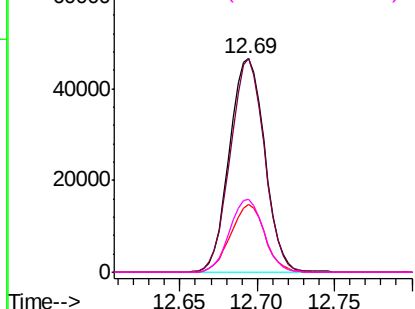
#67
 1,3,5-Trichlorobenzene
 Concen: 26.577 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02561

Tgt Ion:180 Resp: 73650
 Ion Ratio Lower Upper
 180 100
 182 96.5 76.3 114.5
 184 30.7 23.8 35.8
 145 32.8 25.8 38.8

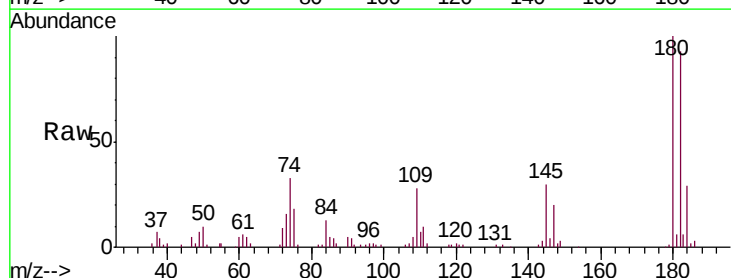


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

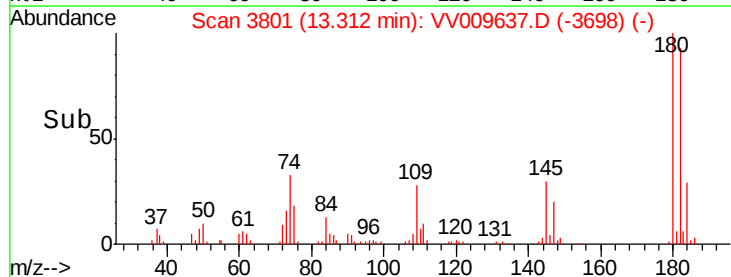
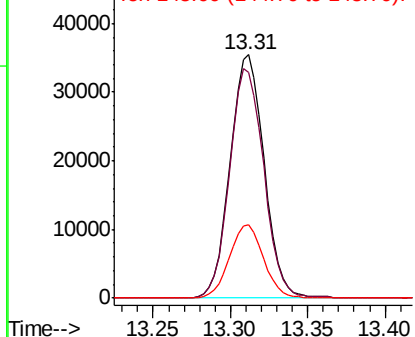


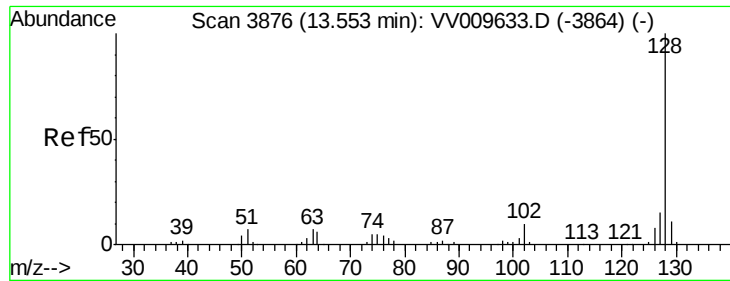
#68
 1,2,4-trichlorobenzene
 Concen: 25.054 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009637.D
 Acq: 13 Mar 2019 15:28

Tgt Ion:180 Resp: 54006
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.4 116.0
 145 30.1 26.4 39.6



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 24.702 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

Instrument :

MSVOA_V

ClientSampleId :

VSTD02561

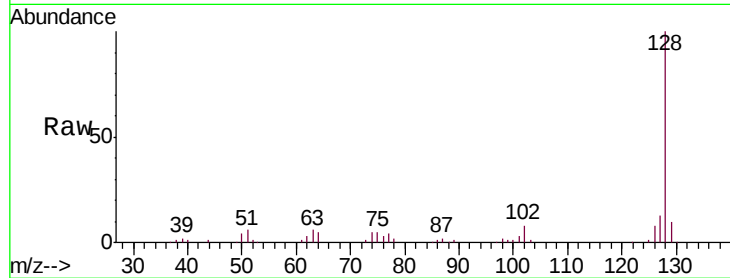
Tgt Ion:128 Resp: 87953

Ion Ratio Lower Upper

128 100

129 10.9 8.3 12.5

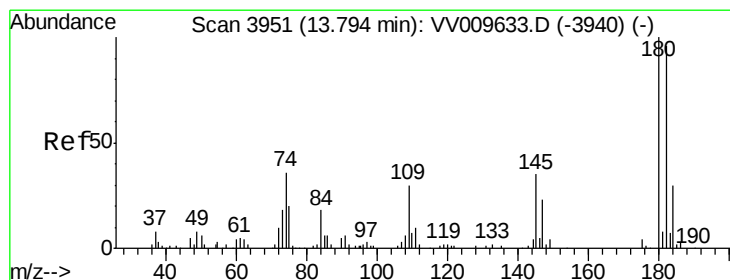
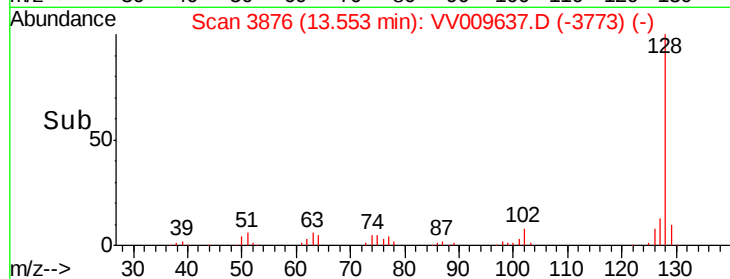
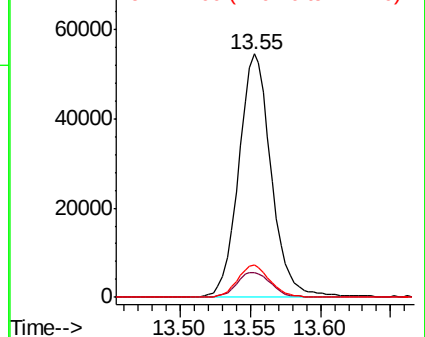
127 13.2 11.0 16.6



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: 23.763 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009637.D

Acq: 13 Mar 2019 15:28

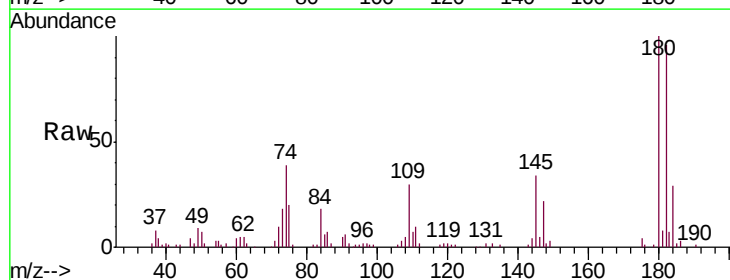
Tgt Ion:180 Resp: 47105

Ion Ratio Lower Upper

180 100

182 96.8 76.9 115.3

145 34.0 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

