

Data File : VV009309.D
Acq On : 20 Feb 2019 19:52
Operator : SY/MD
Sample : VSTD00570
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

Quant Time: Feb 21 03:32:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis
QLast Update : Thu Feb 21 03:29:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	155181	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	145938	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	72327	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	12134	4.65	ug/L	0.00
7) Chloroethane-d5	1.58	69	15536	3.18	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	28029	4.00	ug/L	0.00
20) 2-Butanone-d5	4.05	46	196	0.30	ug/L	0.11
24) Chloroform-d	4.40	84	19818	5.23	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	10917	5.07	ug/L	0.00
29) Benzene-d6	5.10	84	41770	5.69	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	12108	5.61	ug/L	0.00
37) Toluene-d8	7.36	98	37667	5.30	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	5690	5.15	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	5969	12.30	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	12094	5.53	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	14028	5.39	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	9468	5.972 ug/L	99
3) Chloromethane	1.25	50	11330	4.348 ug/L	97
5) Vinyl chloride	1.32	62	13038	4.042 ug/L	96
6) Bromomethane	1.53	94	12314	3.202 ug/L	97
8) Chloroethane	1.59	64	11682	2.620 ug/L	98
9) Trichlorofluoromethane	1.76	101	23999	3.650 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	14312	3.894 ug/L	98
12) 1,1-Dichloroethene	2.14	96	12245	3.810 ug/L	84
13) Acetone	2.21	43	6965	9.879 ug/L	100
14) Carbon disulfide	2.32	76	31427	5.591 ug/L	96
15) Methyl Acetate	2.47	43	5052	5.335 ug/L	91
16) Methylene chloride	2.53	84	13116	6.480 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	26129	5.359 ug/L	97
18) trans-1,2-Dichloroethene	2.79	96	10744	5.530 ug/L	97
19) 1,1-Dichloroethane	3.23	63	18011	5.025 ug/L	98
21) 2-Butanone	4.04	43	2393	2.734 ug/L	# 1
22) cis-1,2-Dichloroethene	3.96	96	11916	5.311 ug/L	92
23) Bromochloromethane	4.31	128	5386	5.436 ug/L	84
25) Chloroform	4.43	83	18731	4.910 ug/L	100
27) 1,2-Dichloroethane	5.18	62	12176	4.252 ug/L	96
30) Cyclohexane	4.73	56	17064	4.803 ug/L	97
31) 1,1,1-Trichloroethane	4.66	97	17340	4.912 ug/L	100
32) Carbon tetrachloride	4.88	117	14204	4.696 ug/L	98
34) Benzene	5.15	78	41198	4.978 ug/L	100
35) Trichloroethene	5.96	95	11176	5.111 ug/L	98
36) Methylcyclohexane	6.18	83	20042	5.223 ug/L	99
40) 1,2-Dichloropropane	6.22	63	10091	5.089 ug/L	# 87
41) Bromodichloromethane	6.56	83	14418	4.992 ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	16274	4.917 ug/L	100
43) 4-Methyl-2-pentanone	7.28	43	15273	9.354 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu Feb 21 03:29:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	44640	4.759	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	14282	4.753	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	8928	5.489	ug/L	96
47) Tetrachloroethene	8.02	164	8999	4.942	ug/L	96
49) 2-Hexanone	8.19	43	11176	8.517	ug/L	95
50) Dibromochloromethane	8.29	129	10744	5.115	ug/L	91
51) 1,2-Dibromoethane	8.40	107	8659	5.144	ug/L #	98
52) Chlorobenzene	8.93	112	29715	4.855	ug/L	98
53) Ethylbenzene	9.06	91	50605	4.720	ug/L	100
54) m,p-Xylene	9.18	106	20187	4.922	ug/L	98
55) o-xylene	9.59	106	19073	4.782	ug/L	98
56) Styrene	9.61	104	32479	4.723	ug/L	95
57) Isopropylbenzene	9.98	105	51532	4.761	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	11998	5.228	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	8426	5.061	ug/L	99
62) Bromoform	9.78	173	6088	4.496	ug/L #	95
63) 1,3-Dichlorobenzene	11.23	146	23969	5.024	ug/L	94
64) 1,4-Dichlorobenzene	11.32	146	24164	5.020	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	22815	5.057	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	1910	4.464	ug/L #	87
67) 1,3,5-Trichlorobenzene	12.70	180	17148	4.856	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	13189	4.582	ug/L	94
69) Naphthalene	13.55	128	23988	4.268	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	11739	4.526	ug/L	95

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

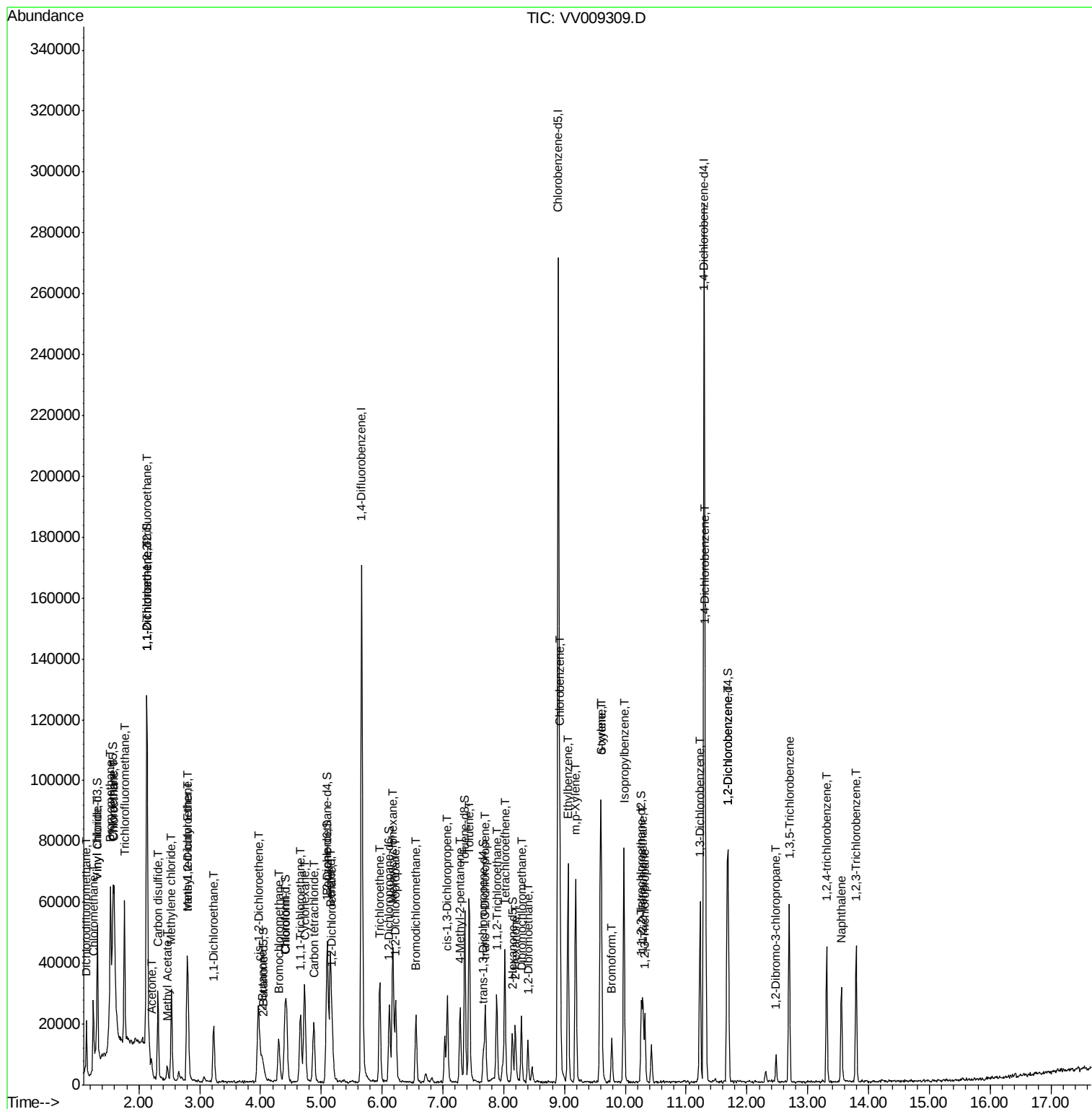
Quant Time: Feb 21 03:32:14 2019

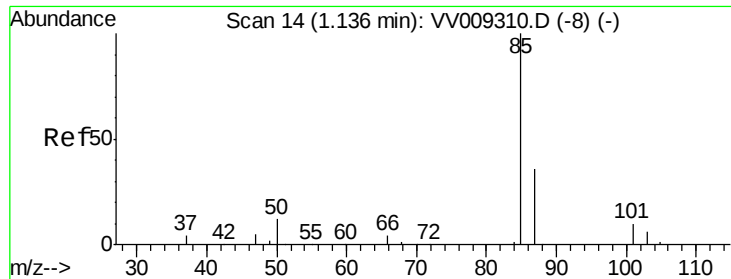
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM022019S.M

Quant Title : VOC Analysis

QLast Update : Thu Feb 21 03:29:18 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.972 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampled :

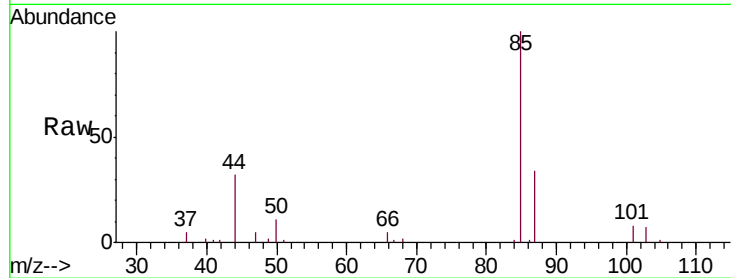
VSTD00570

Tgt Ion: 85 Resp: 9468

Ion Ratio Lower Upper

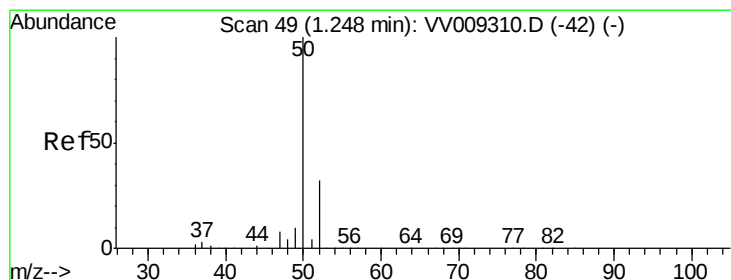
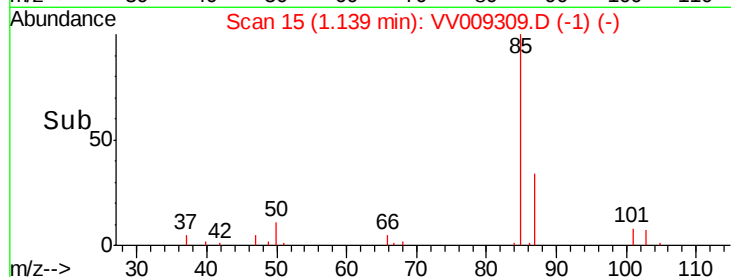
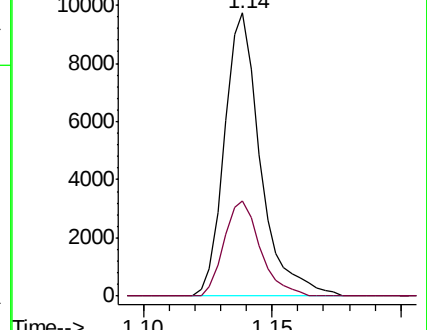
85 100

87 33.8 24.2 45.0



Abundance Ion 85.00 (84.70 to 85.70): VV009310.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009310.D (-8) (-)



#3

Chloromethane

Concen: 4.348 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV009309.D

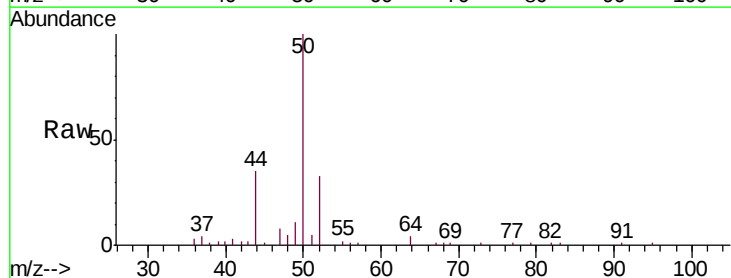
Acq: 20 Feb 2019 19:52

Tgt Ion: 50 Resp: 11330

Ion Ratio Lower Upper

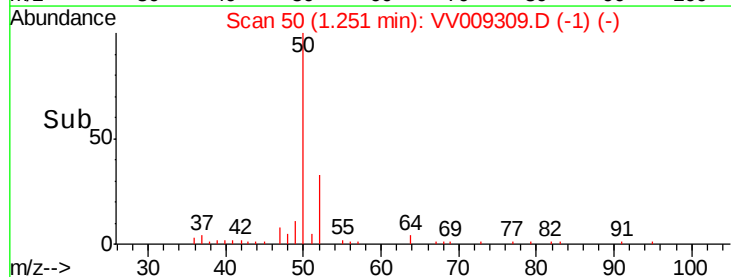
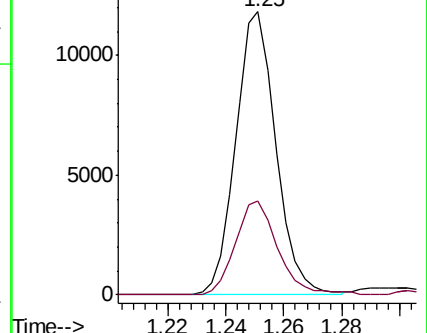
50 100

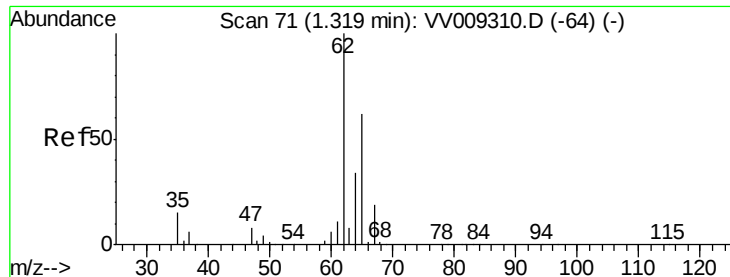
52 33.3 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VV009310.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV009310.D (-42) (-)





#5

Vinyl chloride

Concen: 4.042 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

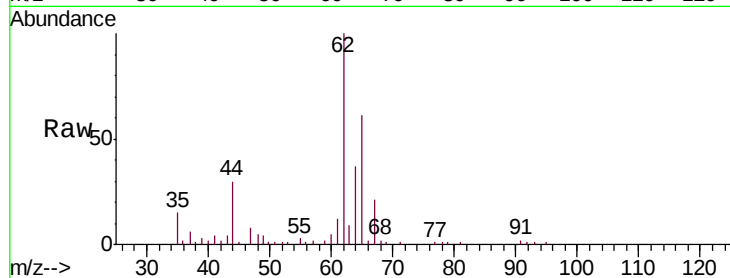
VSTD00570

Tgt Ion: 62 Resp: 13038

Ion Ratio Lower Upper

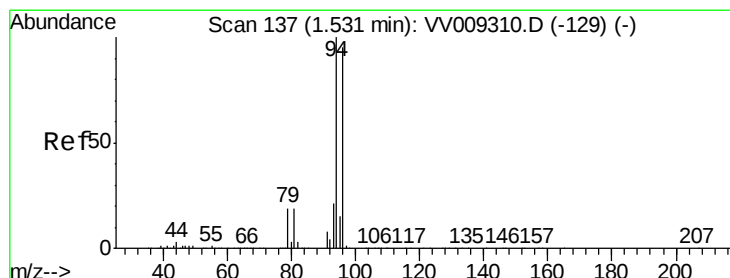
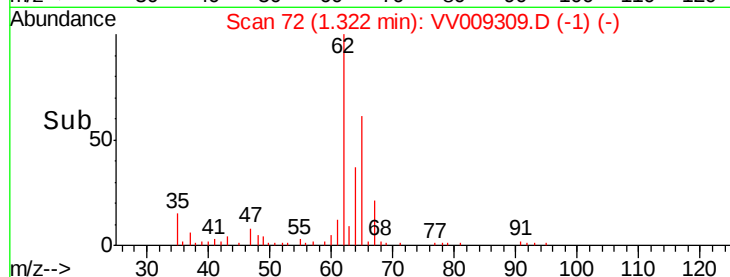
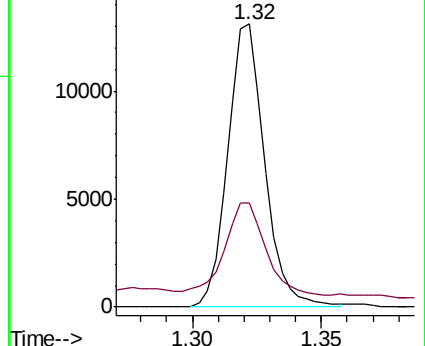
62 100

64 37.0 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV009310.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV009310.D (-64) (-)



#6

Bromomethane

Concen: 3.202 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV009309.D

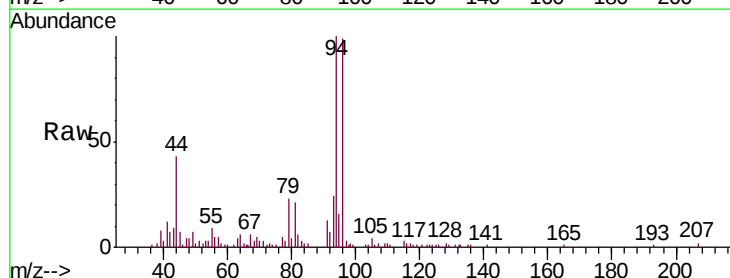
Acq: 20 Feb 2019 19:52

Tgt Ion: 94 Resp: 12314

Ion Ratio Lower Upper

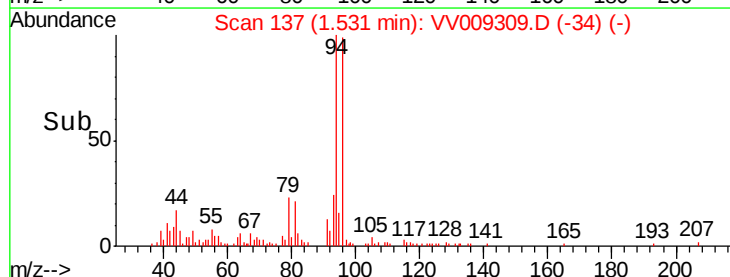
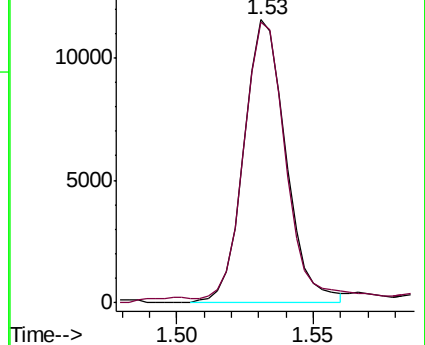
94 100

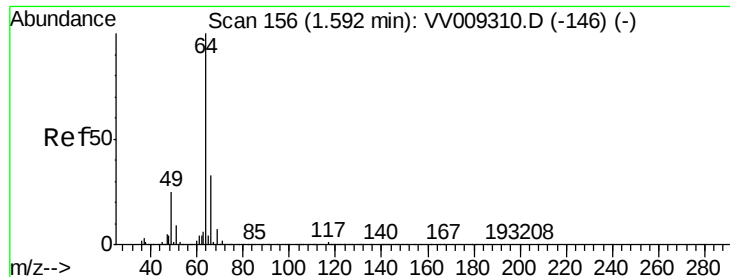
96 96.8 9.4 178.6



Abundance Ion 94.00 (93.70 to 94.70): VV009310.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV009310.D (-129) (-)





#8

Chloroethane

Concen: 2.620 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

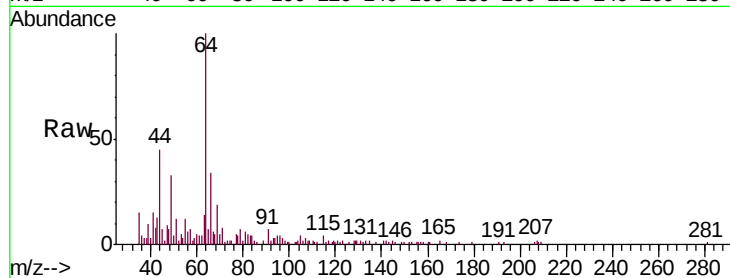
VSTD00570

Tgt Ion: 64 Resp: 11682

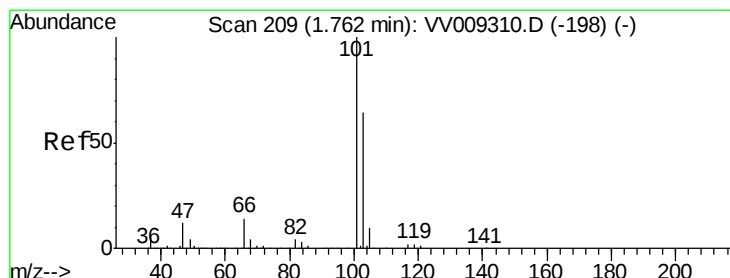
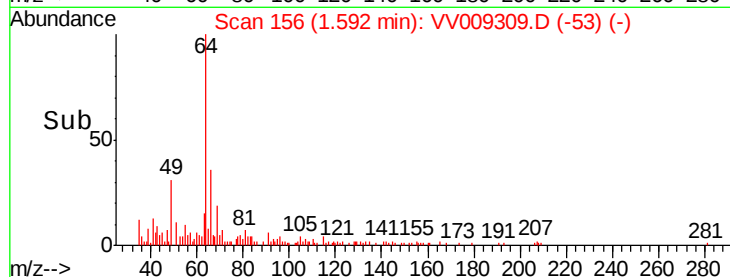
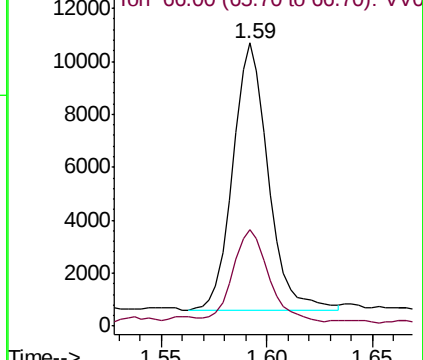
Ion Ratio Lower Upper

64 100

66 34.1 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV009310.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 3.650 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV009309.D

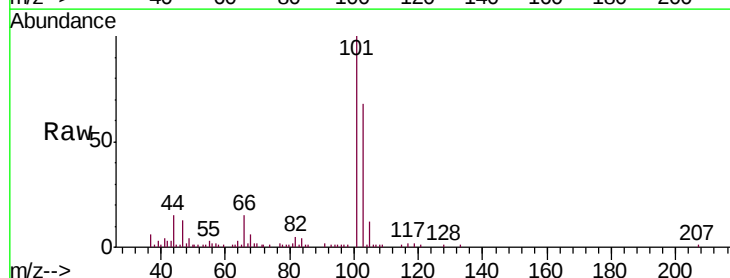
Acq: 20 Feb 2019 19:52

Tgt Ion: 101 Resp: 23999

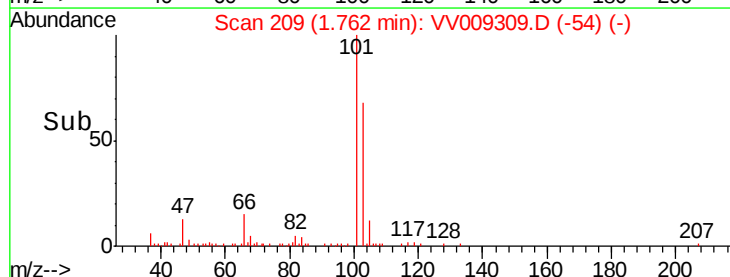
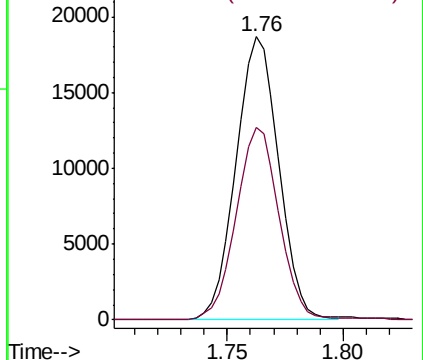
Ion Ratio Lower Upper

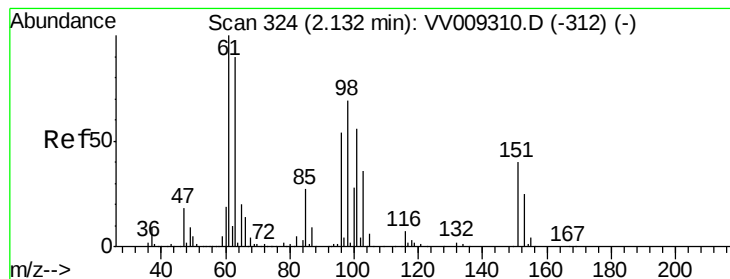
101 100

103 67.8 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV009310.D (-198) (-)





#11

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

Concen: 3.894 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampled :

VSTD00570

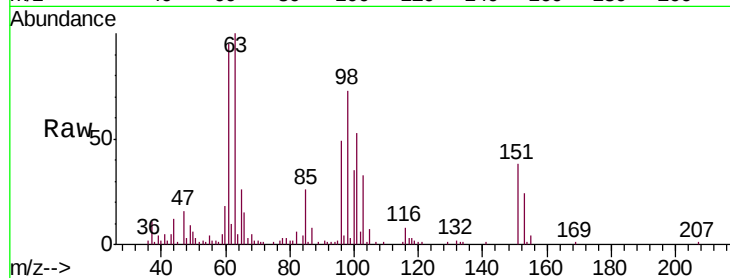
Tgt Ion:101 Resp: 14312

Ion Ratio Lower Upper

101 100

85 50.9 39.1 58.7

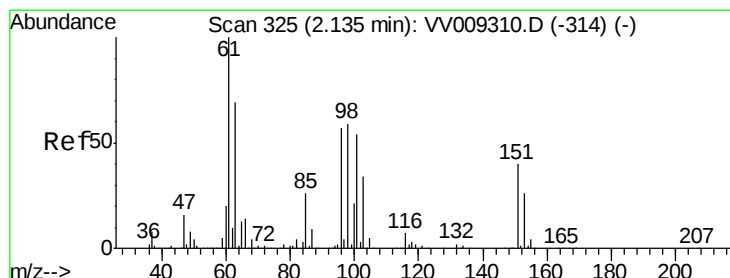
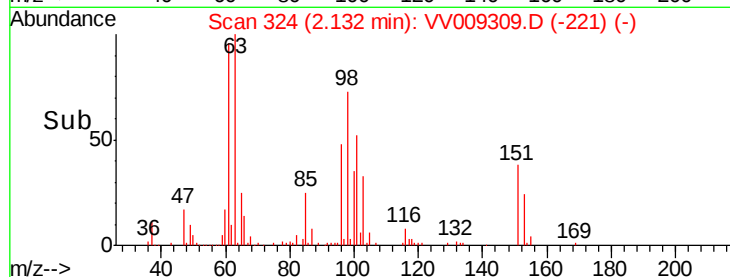
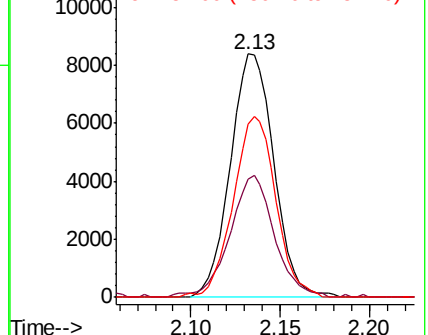
151 72.2 58.5 87.7



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: 3.810 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

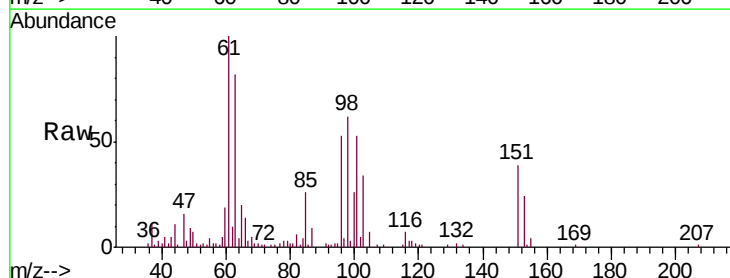
Tgt Ion: 96 Resp: 12245

Ion Ratio Lower Upper

96 100

61 188.4 123.3 228.9

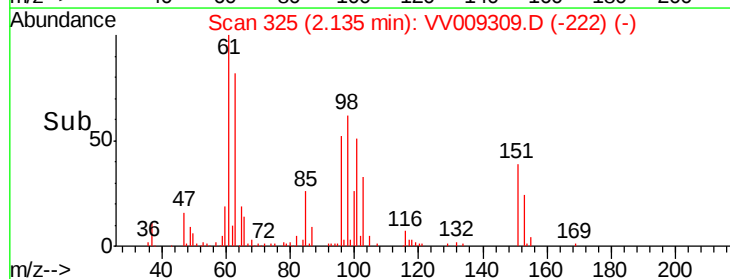
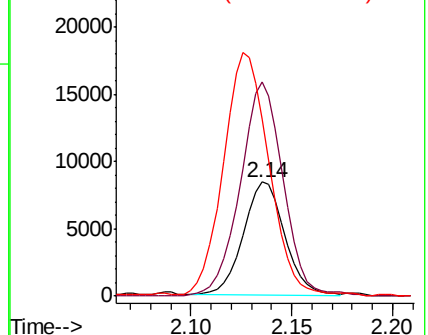
63 155.4 88.4 164.2

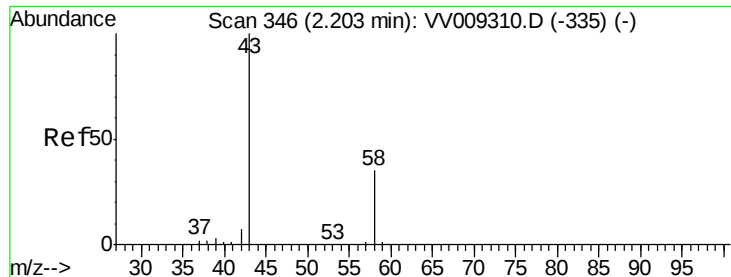


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.879 ug/L

RT: 2.21 min Scan# 347

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

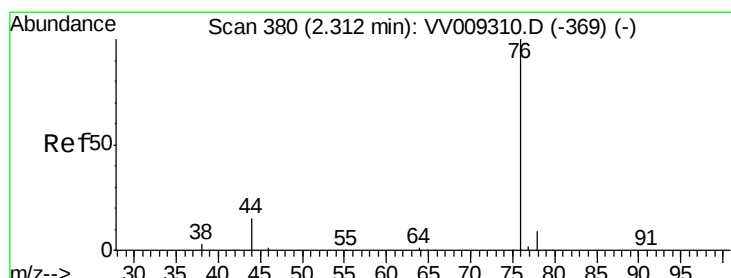
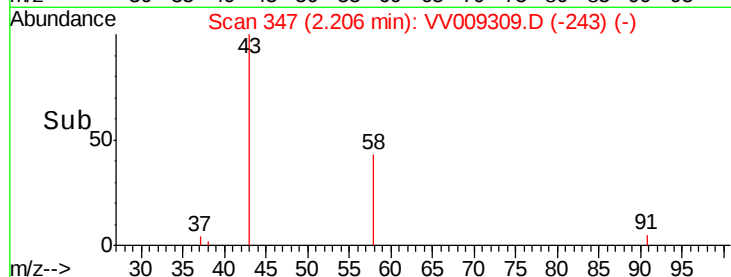
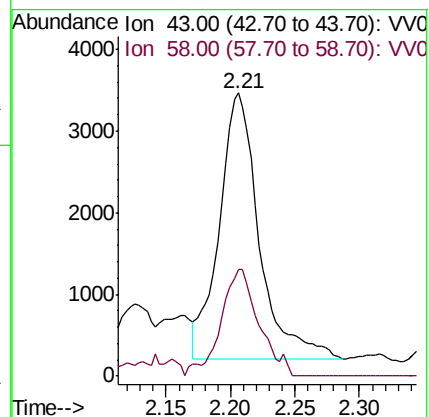
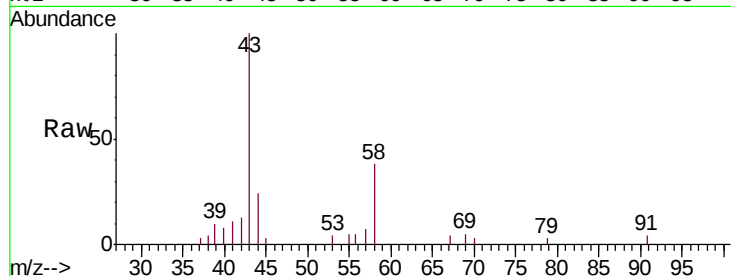
VSTD00570

Tgt Ion: 43 Resp: 6965

Ion Ratio Lower Upper

43 100

58 35.9 0.0 72.0



#14

Carbon disulfide

Concen: 5.591 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009309.D

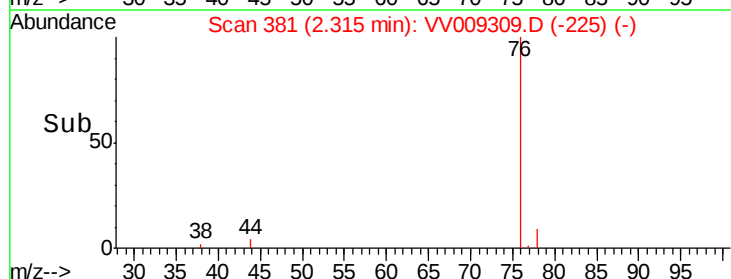
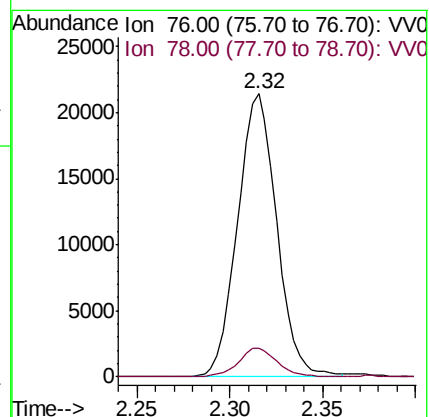
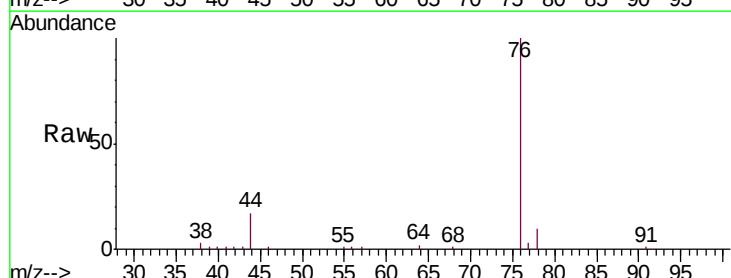
Acq: 20 Feb 2019 19:52

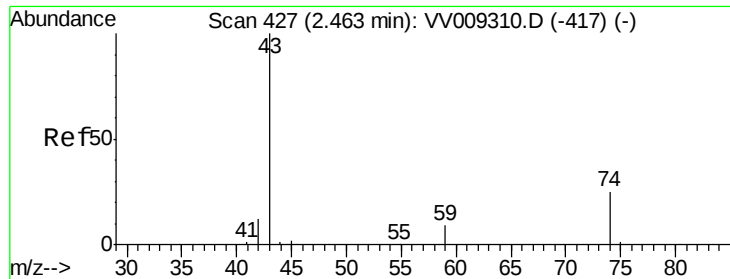
Tgt Ion: 76 Resp: 31427

Ion Ratio Lower Upper

76 100

78 10.1 6.9 10.3

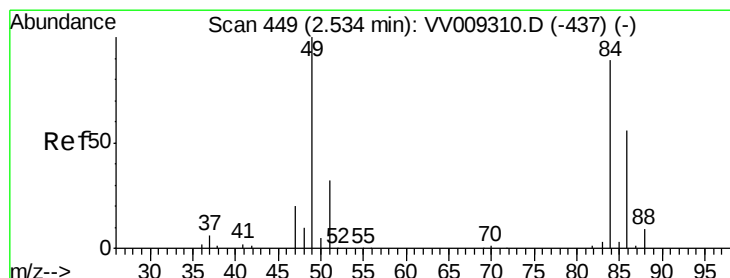
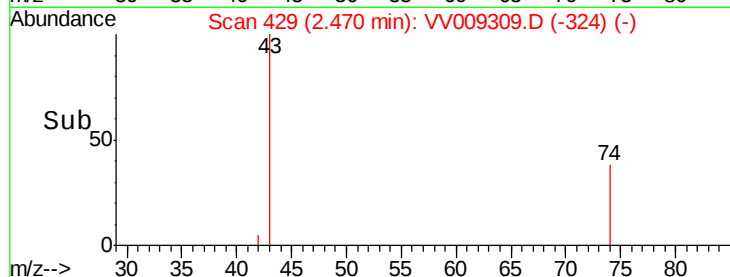
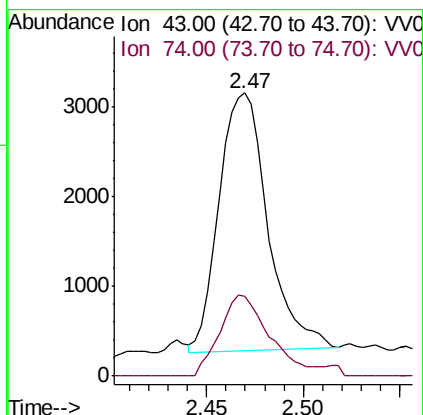
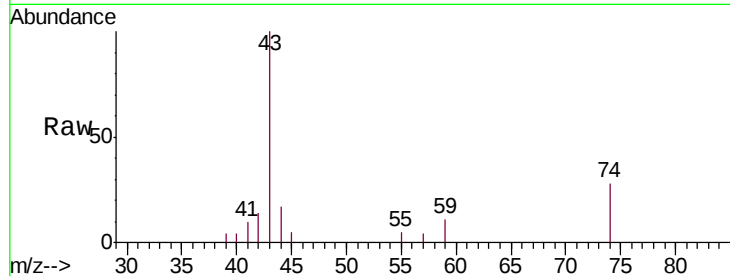




#15
Methyl Acetate
Concen: 5.335 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.01 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

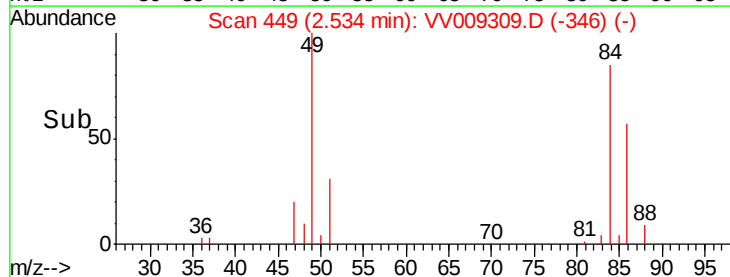
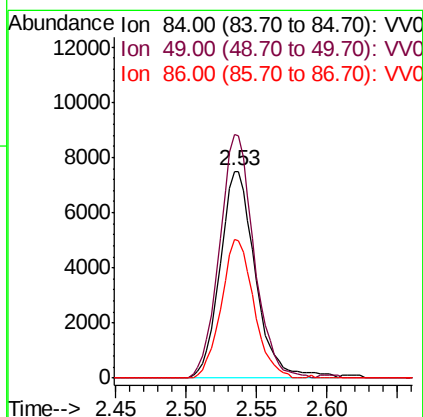
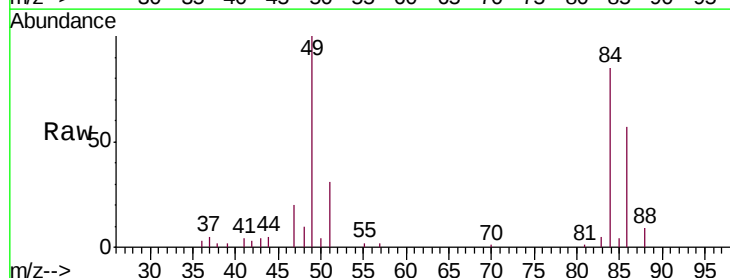
Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

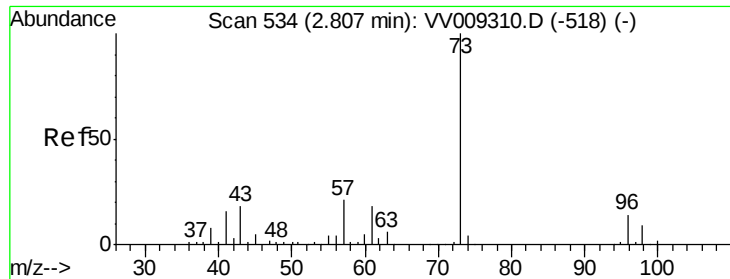
Tgt Ion: 43 Resp: 5052
Ion Ratio Lower Upper
43 100
74 32.0 21.8 32.6



#16
Methylene chloride
Concen: 6.480 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

Tgt Ion: 84 Resp: 13116
Ion Ratio Lower Upper
84 100
49 117.5 78.7 146.1
86 66.7 44.0 81.6

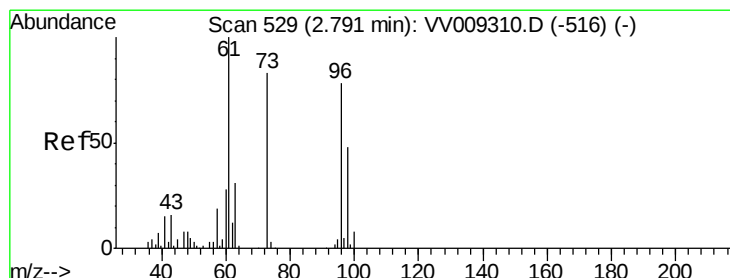
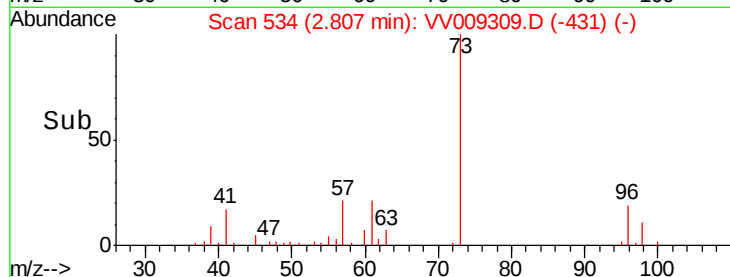
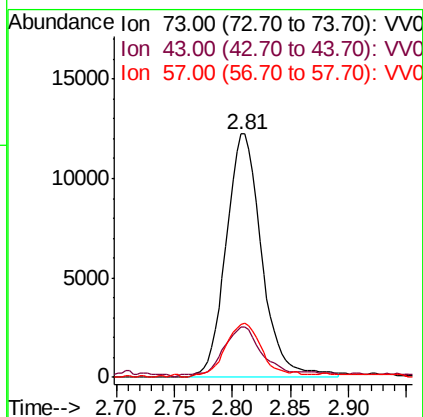
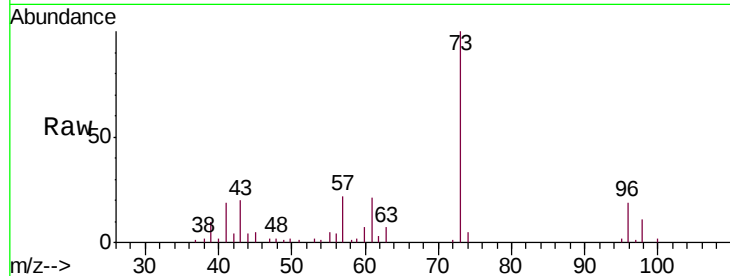




#17
Methyl tert-butyl Ether
Concen: 5.359 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

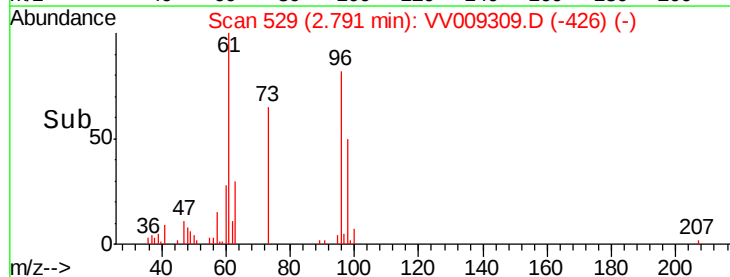
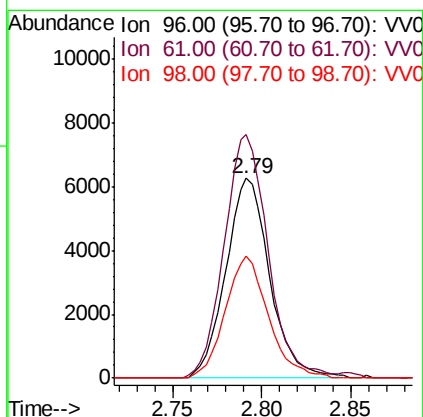
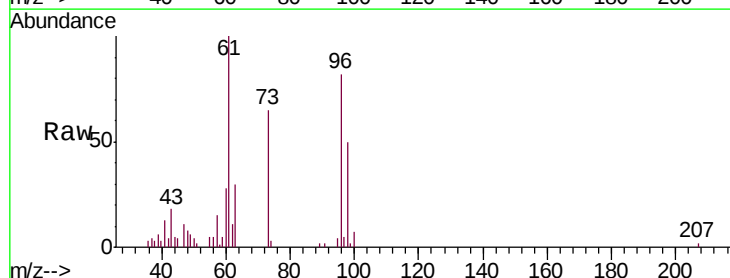
Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

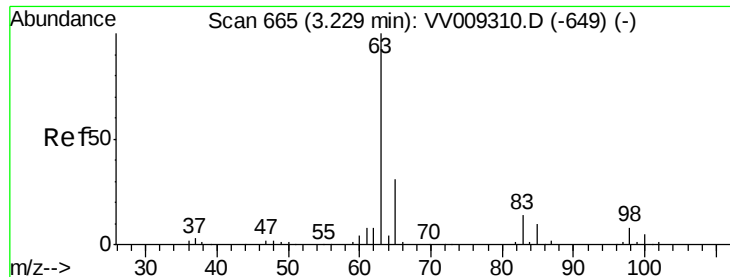
Tgt Ion: 73 Resp: 26129
Ion Ratio Lower Upper
73 100
43 18.7 14.0 21.0
57 22.5 17.0 25.4



#18
trans-1,2-Dichloroethene
Concen: 5.530 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

Tgt Ion: 96 Resp: 10744
Ion Ratio Lower Upper
96 100
61 121.7 88.8 165.0
98 60.7 43.0 79.8

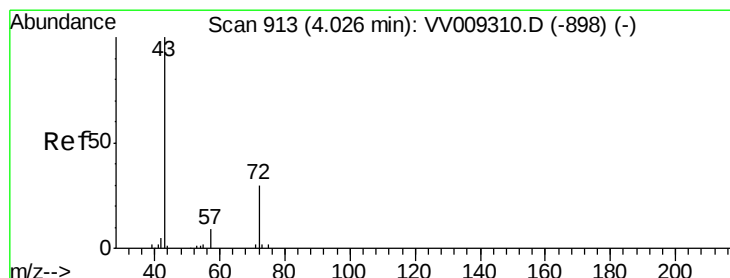
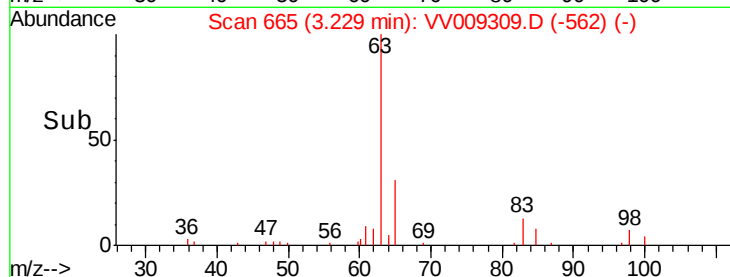
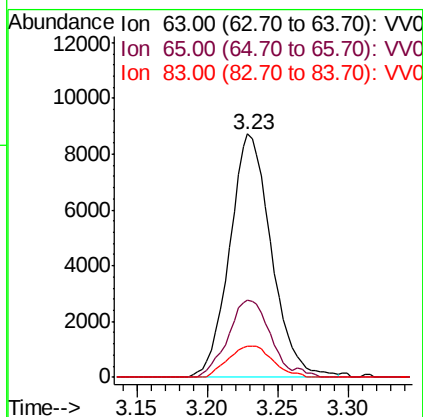
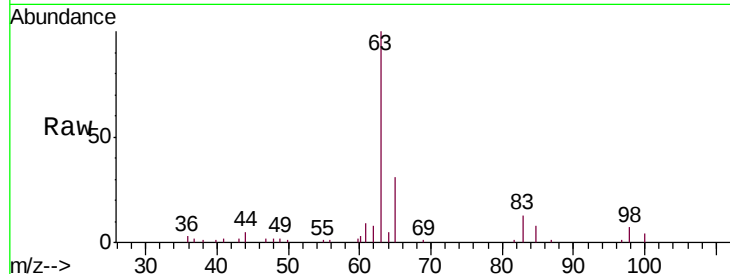




#19
 1,1-Dichloroethane
 Concen: 5.025 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

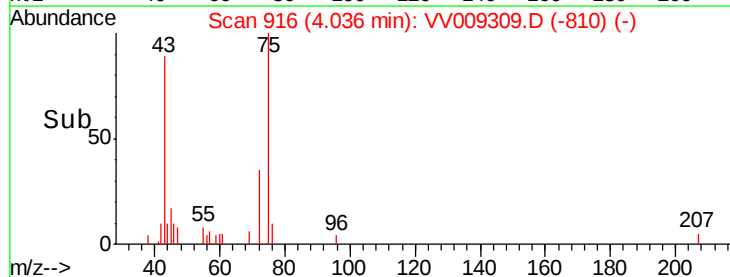
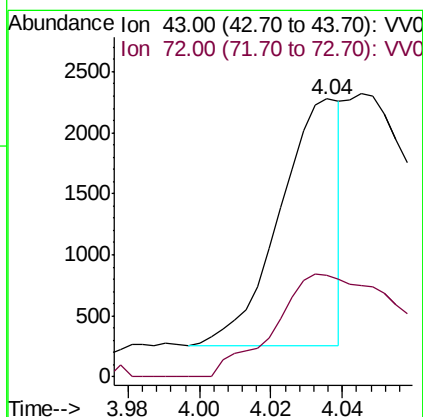
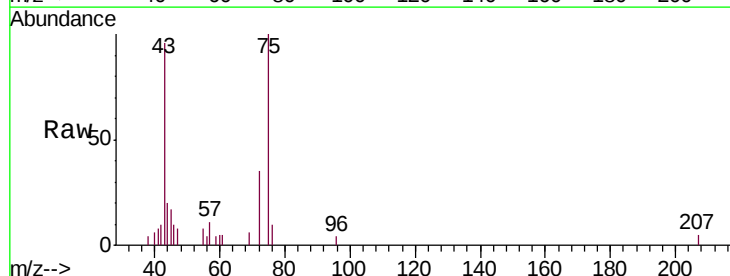
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

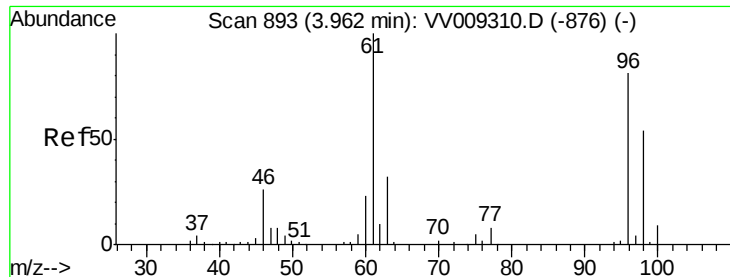
Tgt Ion: 63 Resp: 18011
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.6 40.2
 83 12.7 10.1 18.9



#21
 2-Butanone
 Concen: 2.734 ug/L
 RT: 4.04 min Scan# 916
 Delta R.T. 0.01 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion: 43 Resp: 2393
 Ion Ratio Lower Upper
 43 100
 72 96.7 15.4 46.2#



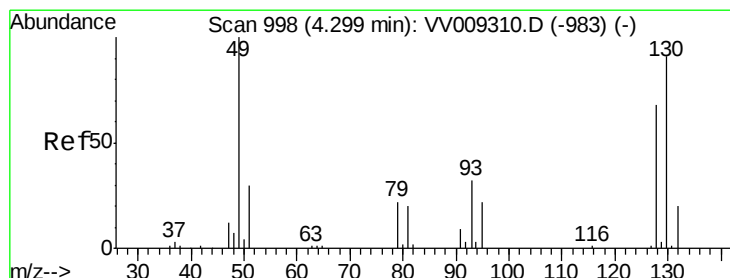
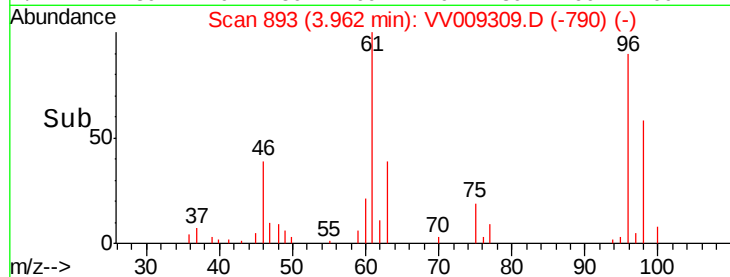
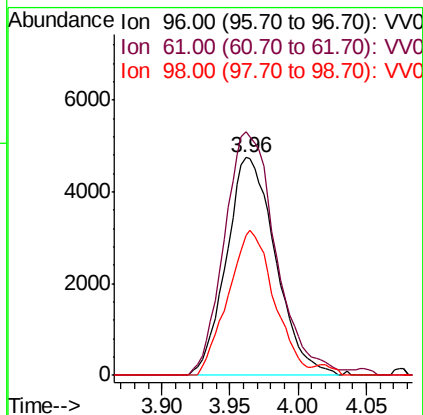
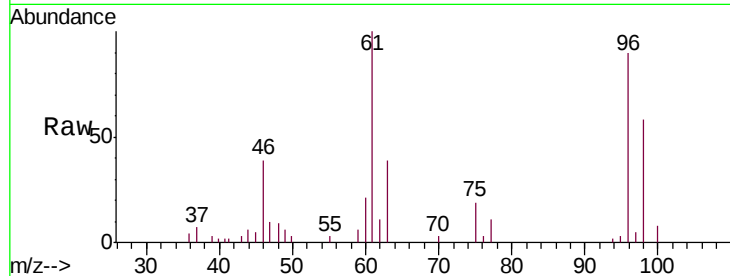


#22

cis-1,2-Dichloroethene
Concen: 5.311 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

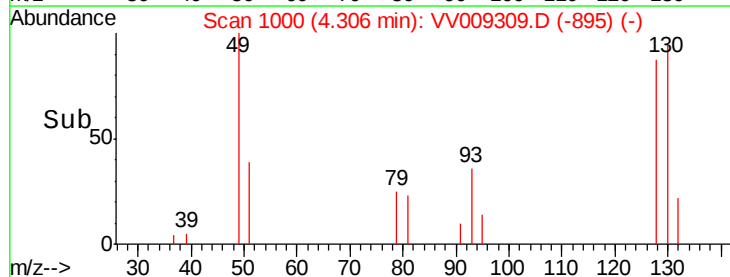
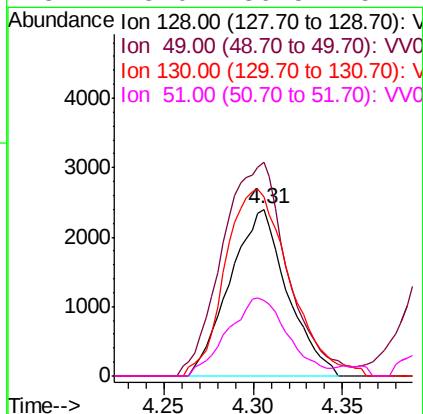
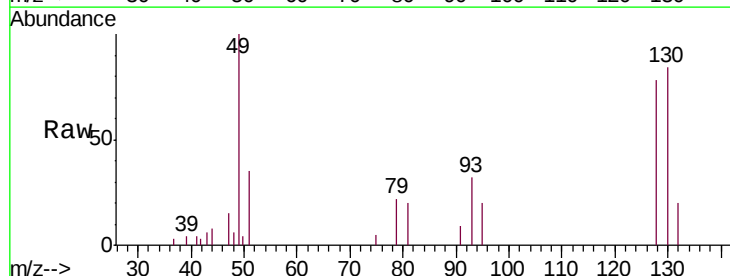
Tgt Ion: 96 Resp: 11916
Ion Ratio Lower Upper
96 100
61 111.7 86.2 160.0
98 64.2 46.8 87.0

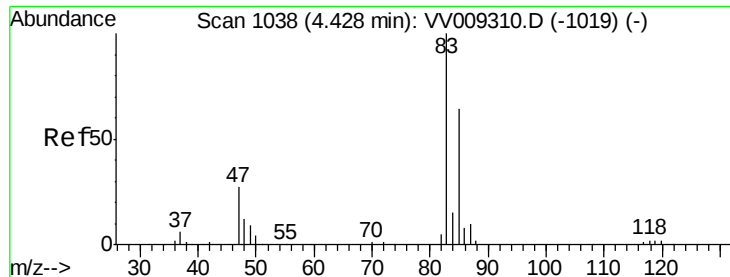


#23

Bromochloromethane
Concen: 5.436 ug/L
RT: 4.31 min Scan# 1000
Delta R.T. 0.01 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

Tgt Ion: 128 Resp: 5386
Ion Ratio Lower Upper
128 100
49 128.2 103.0 191.4
130 107.5 93.3 173.3
51 45.0 36.5 54.7

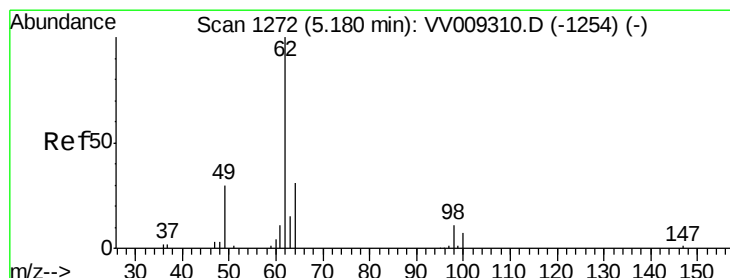
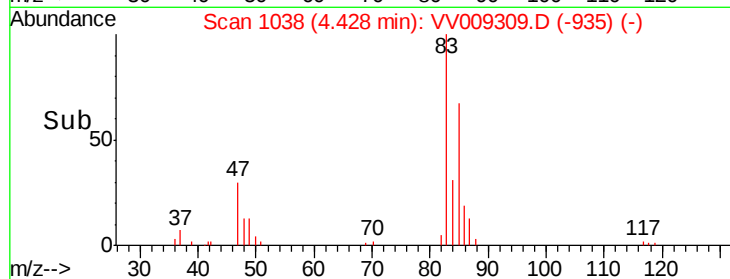
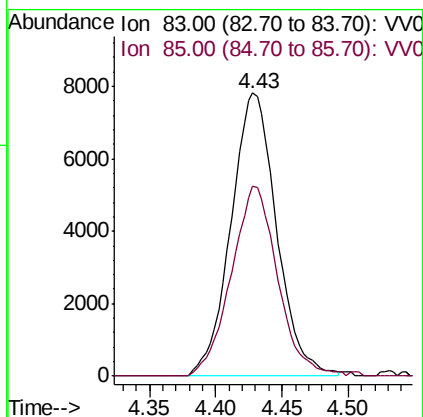
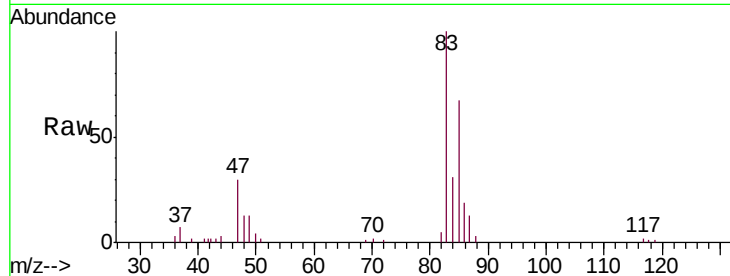




#25
Chloroform
Concen: 4.910 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

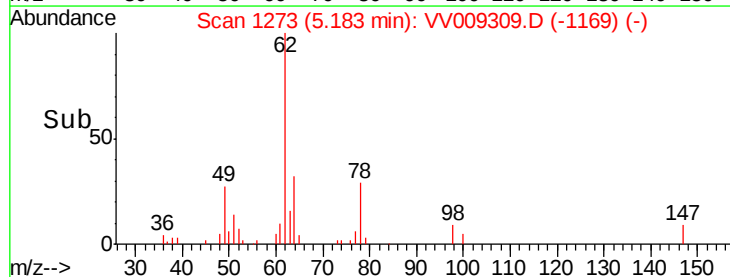
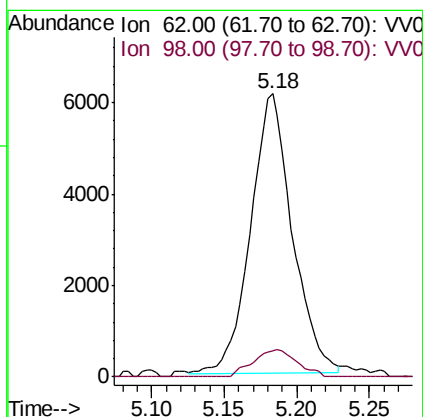
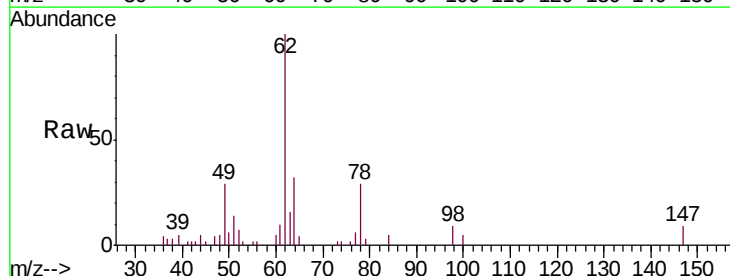
Instrument :
MSVOA_V
ClientSampleId :
VSTD00570

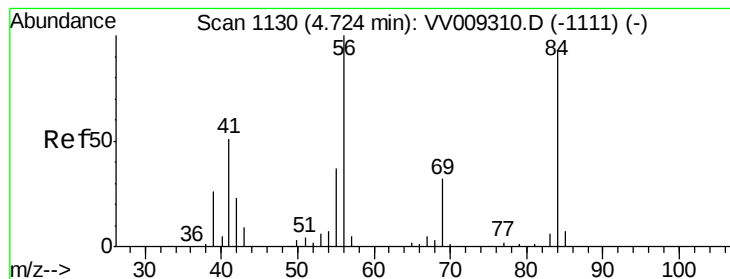
Tgt Ion: 83 Resp: 18731
Ion Ratio Lower Upper
83 100
85 68.2 47.5 88.3



#27
1,2-Dichloroethane
Concen: 4.252 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV009309.D
Acq: 20 Feb 2019 19:52

Tgt Ion: 62 Resp: 12176
Ion Ratio Lower Upper
62 100
98 9.2 8.5 12.7





#30

Cyclohexane

Concen: 4.803 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

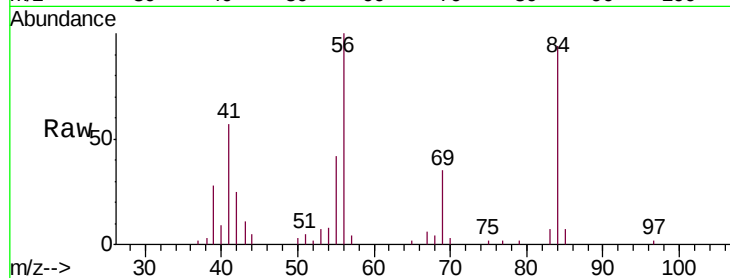
Tgt Ion: 56 Resp: 17064

Ion Ratio Lower Upper

56 100

69 35.2 25.7 38.5

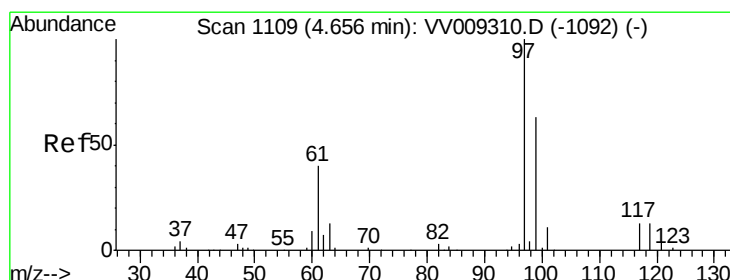
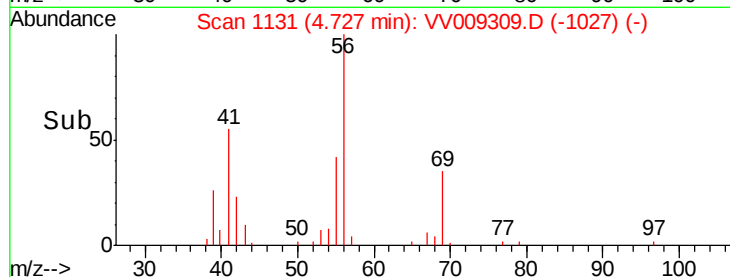
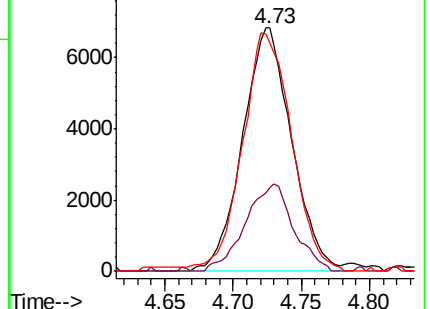
84 98.7 77.2 115.8



Abundance Ion 56.00 (55.70 to 56.70): VV009310.D (-1111) (-)

Ion 69.00 (68.70 to 69.70): VV009310.D (-1111) (-)

Ion 84.00 (83.70 to 84.70): VV009310.D (-1111) (-)



#31

1,1,1-Trichloroethane

Concen: 4.912 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

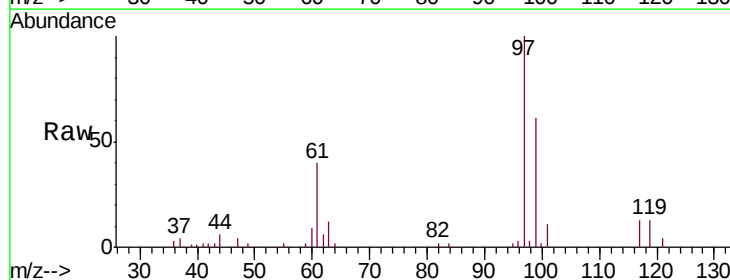
Tgt Ion: 97 Resp: 17340

Ion Ratio Lower Upper

97 100

99 64.3 51.7 77.5

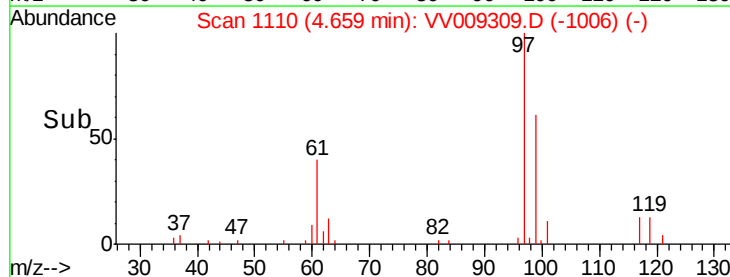
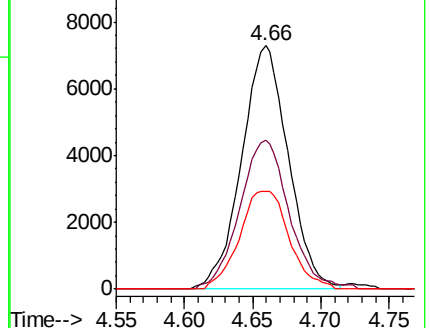
61 42.8 34.0 51.0

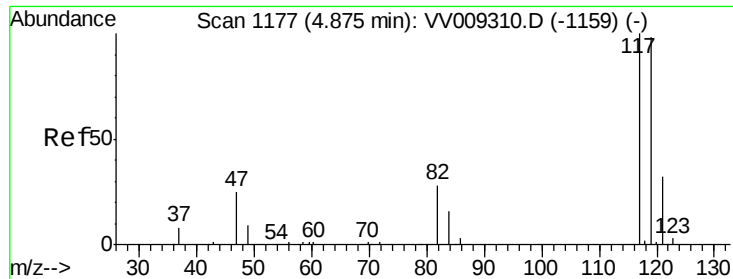


Abundance Ion 97.00 (96.70 to 97.70): VV009310.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV009310.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV009310.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 4.696 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

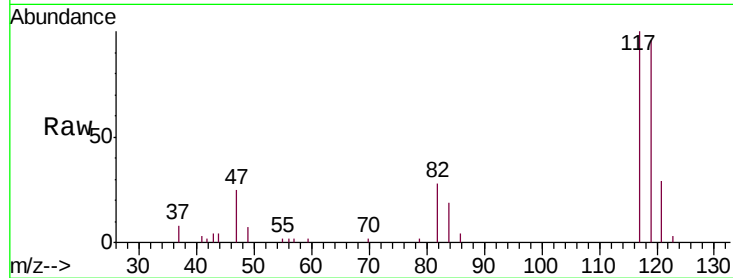
VSTD00570

Tgt Ion:117 Resp: 14204

Ion Ratio Lower Upper

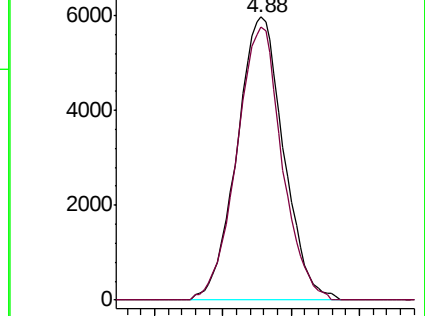
117 100

119 93.6 76.7 115.1

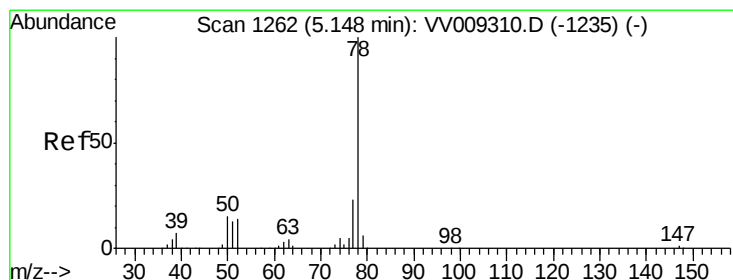
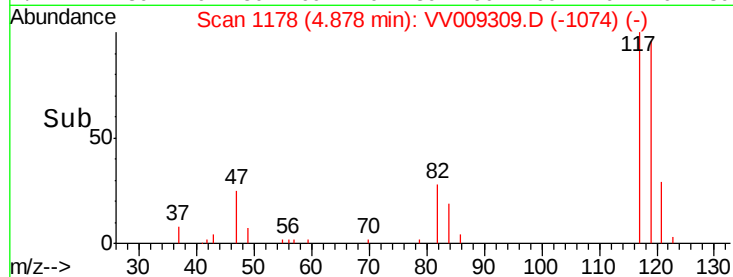


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#34

Benzene

Concen: 4.978 ug/L

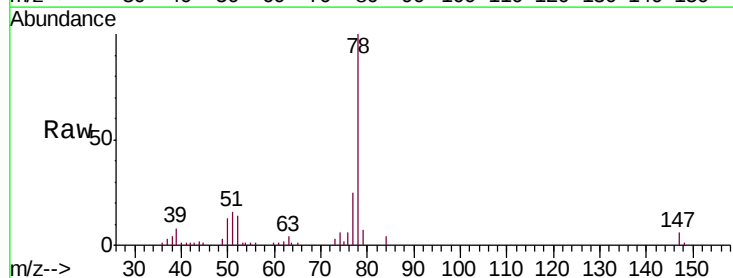
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

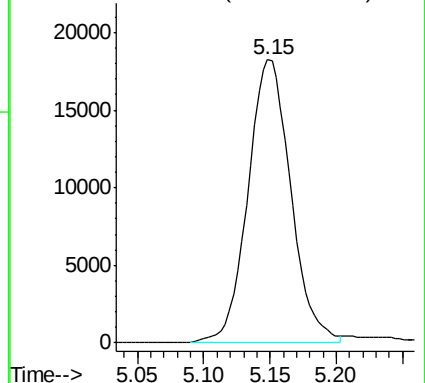
Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

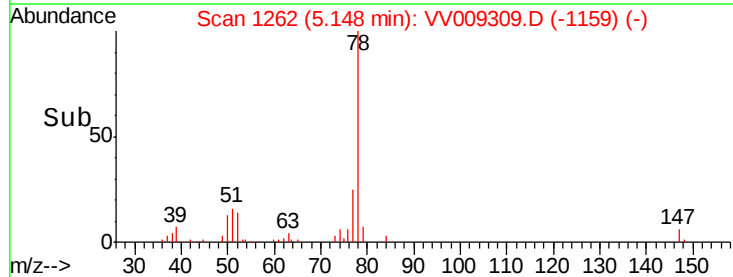
Tgt Ion: 78 Resp: 41198

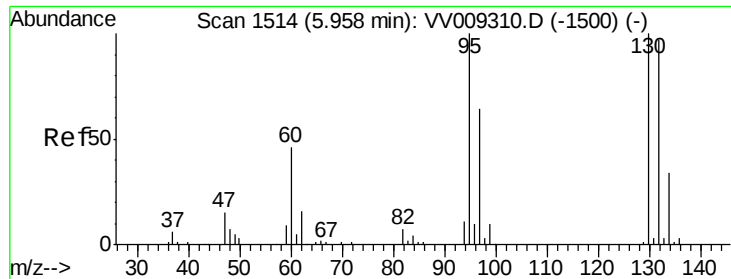


Abundance Ion 78.00 (77.70 to 78.70): VV0



Time-->

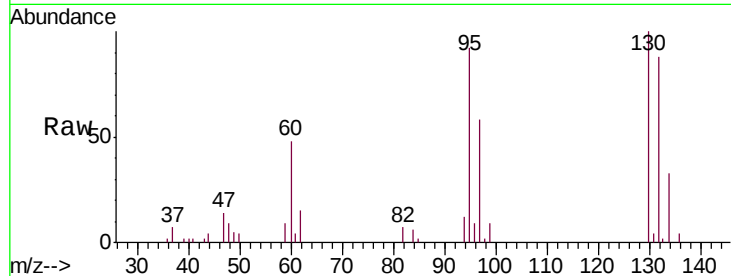




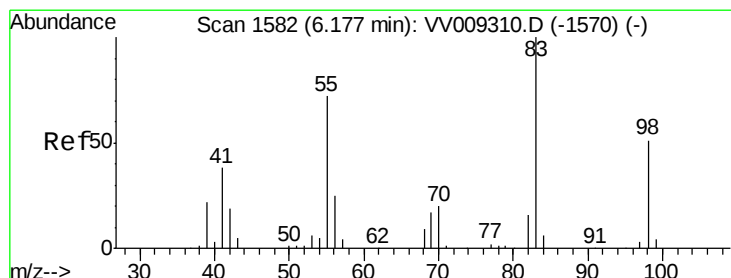
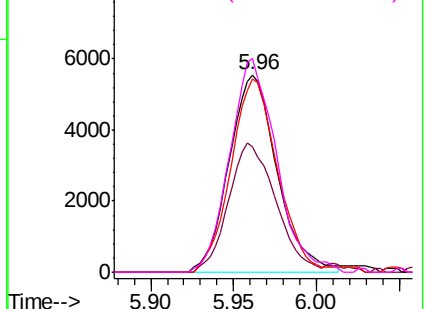
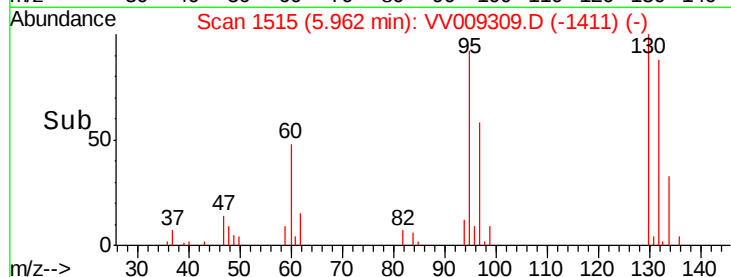
#35
 Trichloroethene
 Concen: 5.111 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

Tgt Ion: 95 Resp: 11176
 Ion Ratio Lower Upper
 95 100
 97 64.3 45.0 83.6
 132 94.7 68.7 127.5
 130 105.4 72.2 134.0

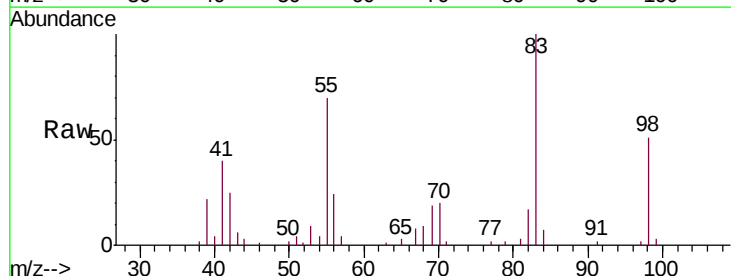


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

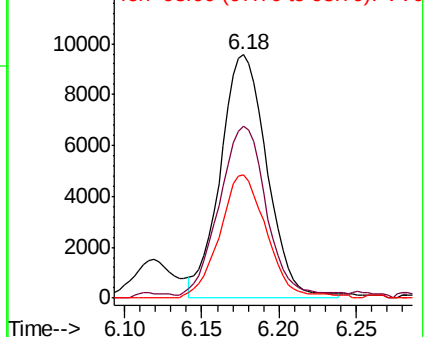
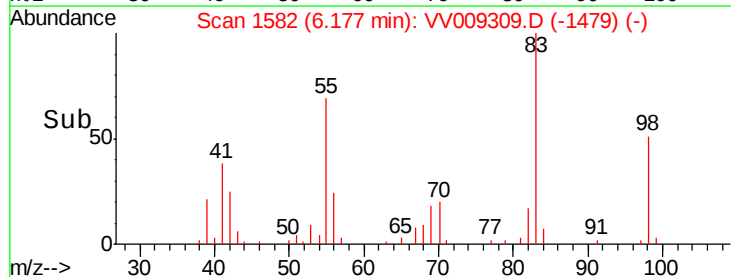


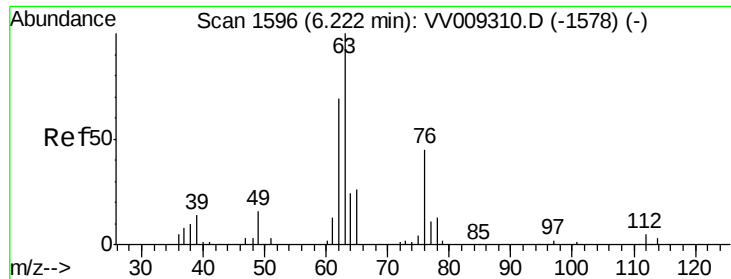
#36
 Methylcyclohexane
 Concen: 5.223 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion: 83 Resp: 20042
 Ion Ratio Lower Upper
 83 100
 55 69.1 55.8 83.6
 98 50.1 40.3 60.5



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

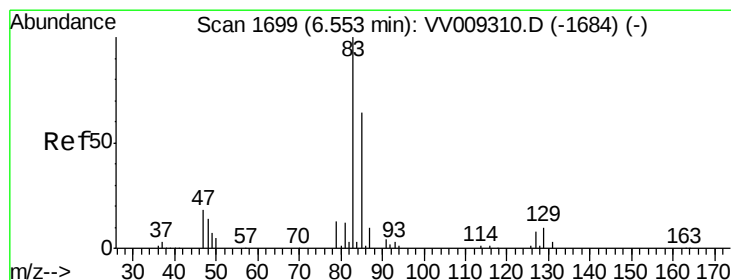
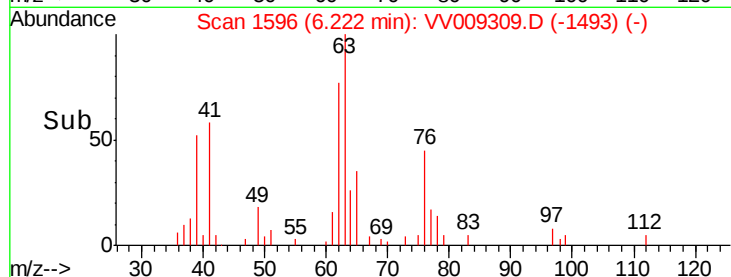
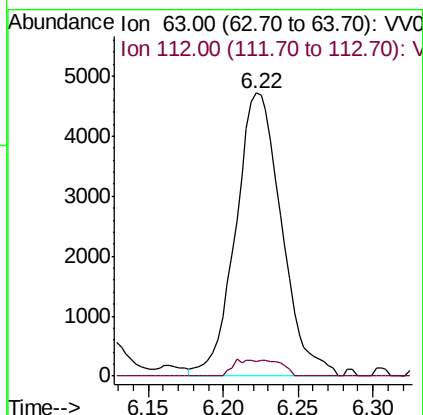
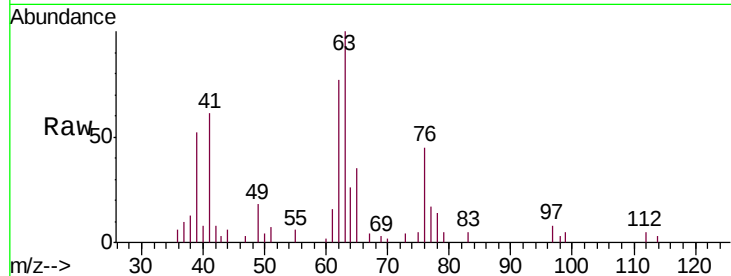




#40
 1,2-Dichloropropane
 Concen: 5.089 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

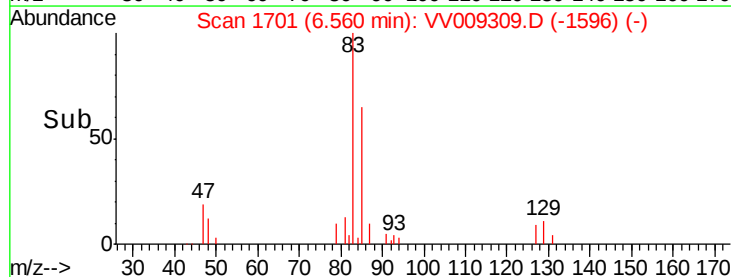
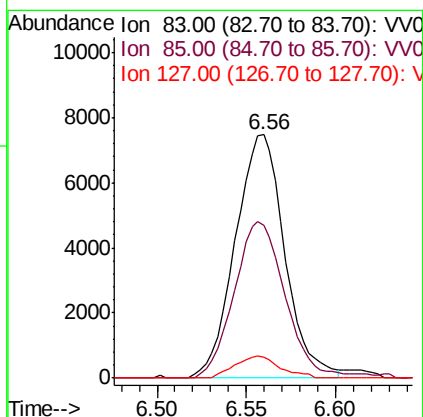
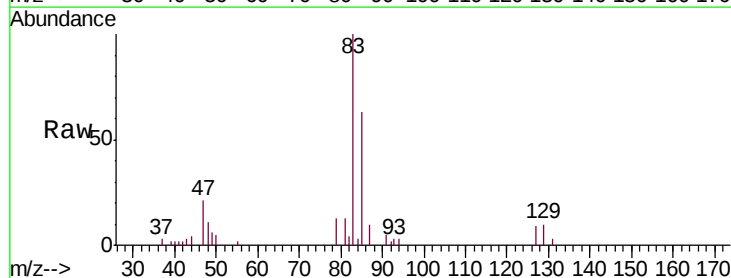
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

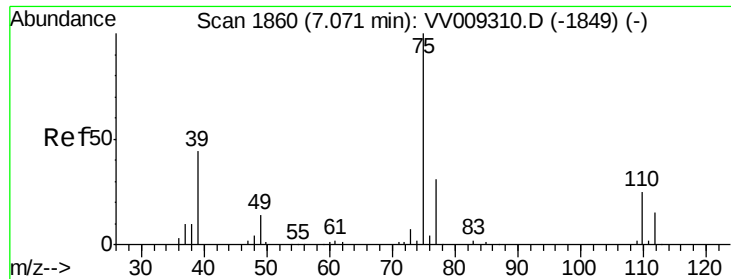
Tgt Ion: 63 Resp: 10091
 Ion Ratio Lower Upper
 63 100
 112 0.5 3.8 5.8#



#41
 Bromodichloromethane
 Concen: 4.992 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.01 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion: 83 Resp: 14418
 Ion Ratio Lower Upper
 83 100
 85 62.6 44.9 83.5
 127 8.6 6.3 9.5



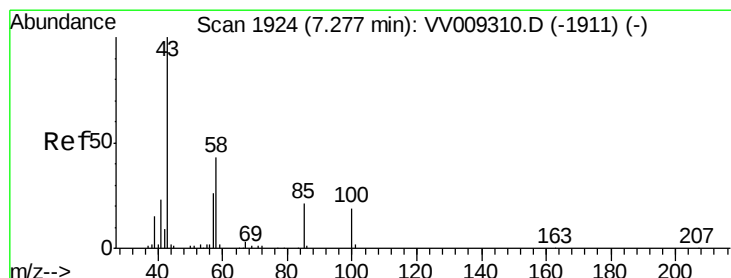
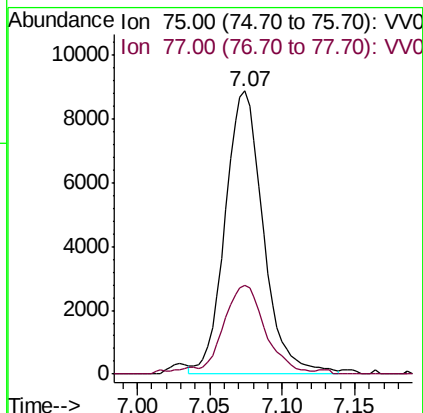
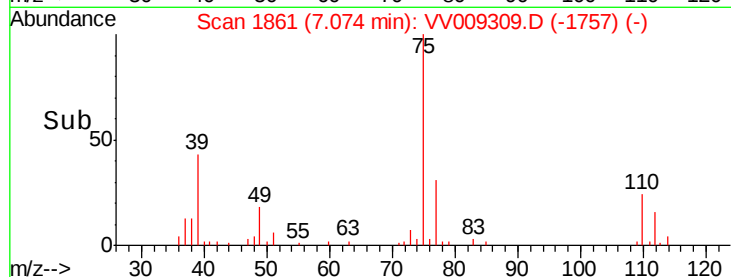
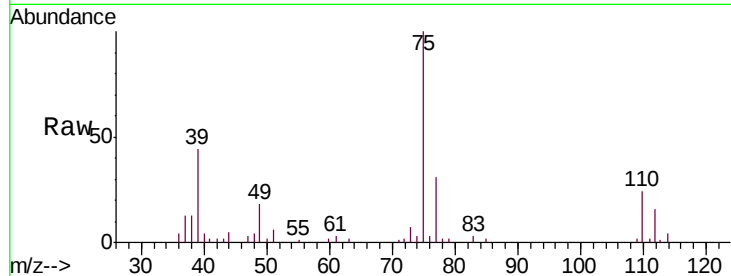


#42

cis-1,3-Dichloropropene
 Concen: 4.917 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

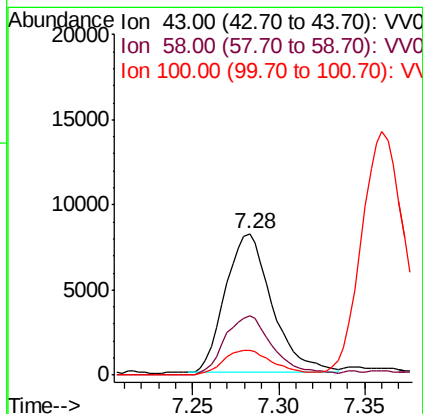
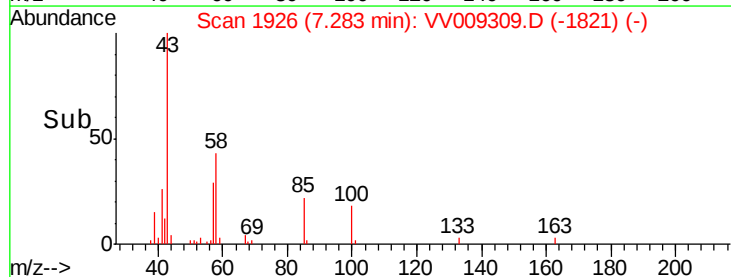
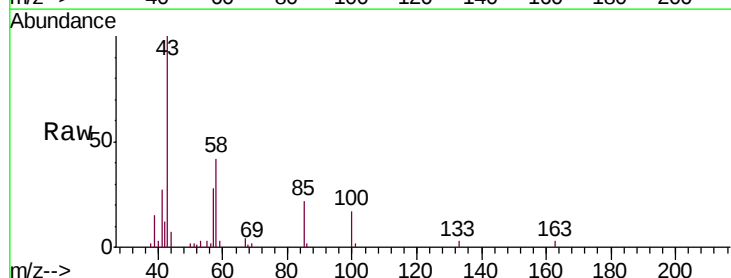
Tgt Ion: 75 Resp: 16274
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 40.8

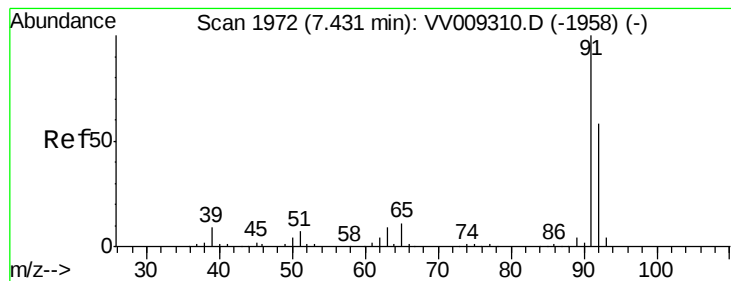


#43

4-Methyl-2-pentanone
 Concen: 9.354 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion: 43 Resp: 15273
 Ion Ratio Lower Upper
 43 100
 58 44.2 34.2 51.4
 100 19.4 15.1 22.7





#44

Toluene

Concen: 4.759 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

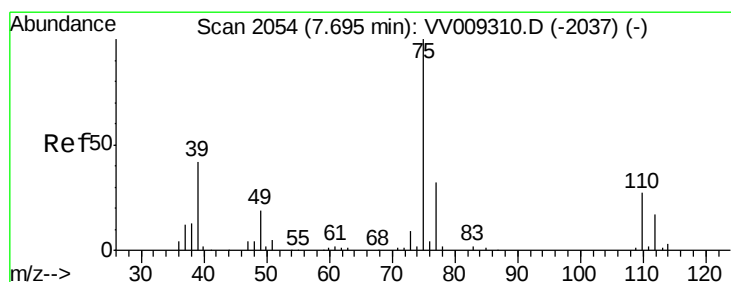
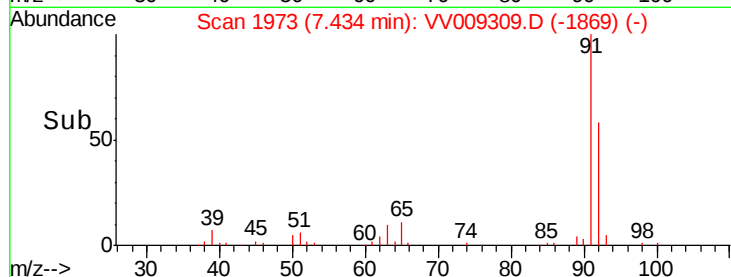
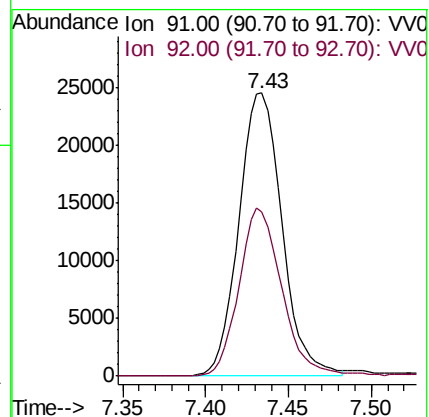
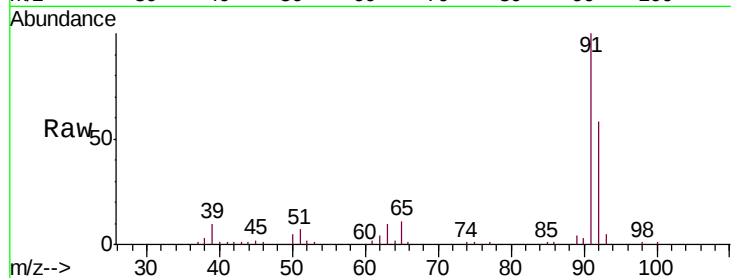
VSTD00570

Tgt Ion: 91 Resp: 44640

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.3



#45

trans-1,3-Dichloropropene

Concen: 4.753 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009309.D

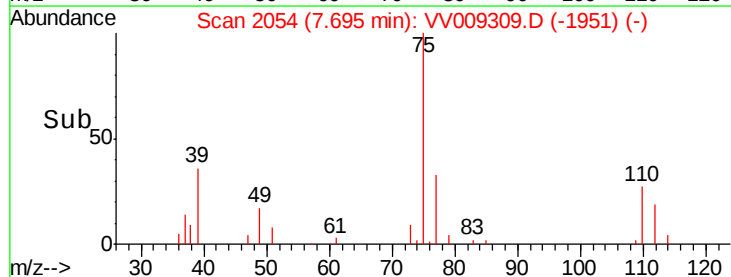
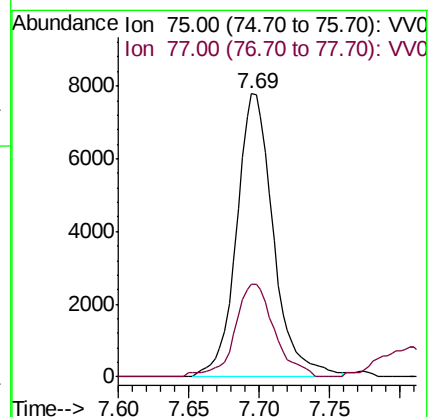
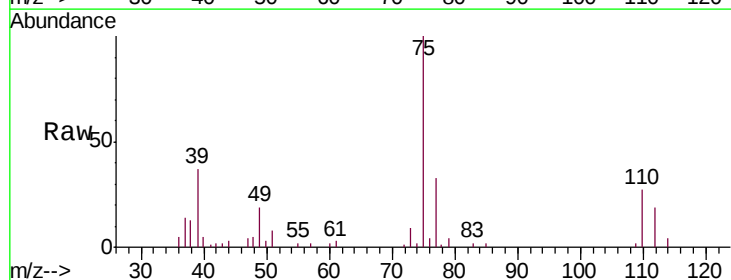
Acq: 20 Feb 2019 19:52

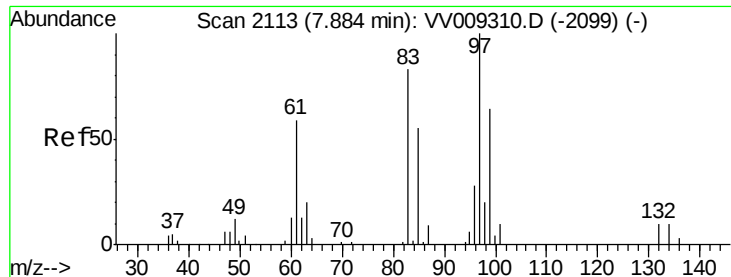
Tgt Ion: 75 Resp: 14282

Ion Ratio Lower Upper

75 100

77 32.5 22.6 42.0

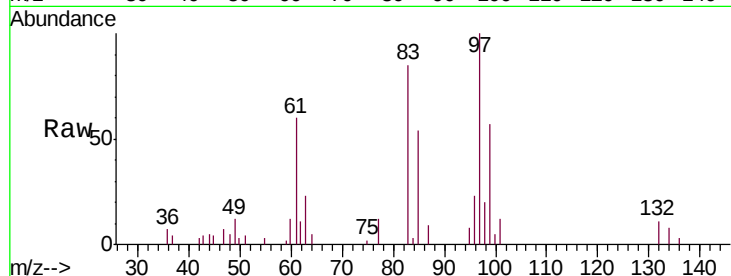




#46
 1,1,2-Trichloroethane
 Concen: 5.489 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

Tgt Ion:	97	Resp:	8928
Ion	Ratio	Lower	Upper
97	100		
83	84.9	58.1	107.9
85	54.0	38.4	71.2
99	57.2	44.7	83.1



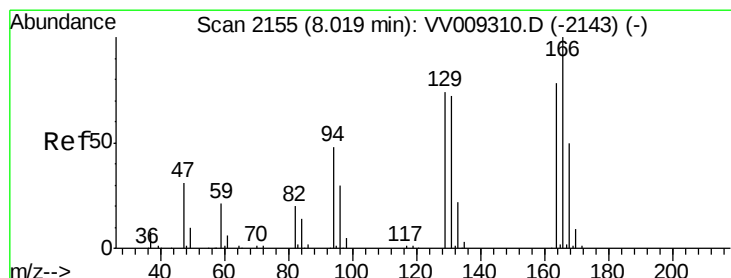
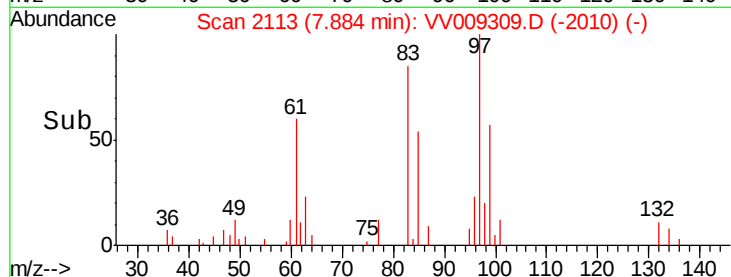
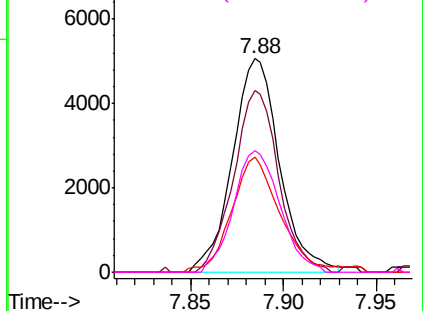
Abundance

Ion 97.00 (96.70 to 97.70): VV009310.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV009310.D (-2099) (-)

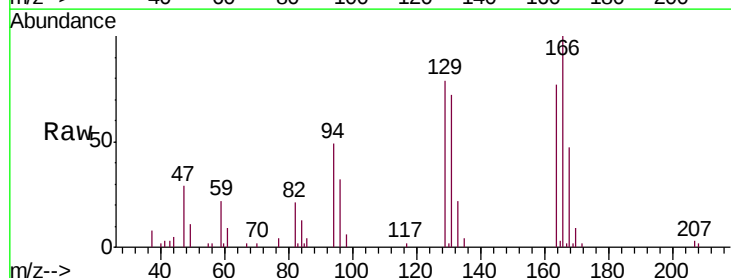
Ion 85.00 (84.70 to 85.70): VV009310.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV009310.D (-2099) (-)



#47
 Tetrachloroethene
 Concen: 4.942 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion:	164	Resp:	8999
Ion	Ratio	Lower	Upper
164	100		
129	103.3	67.0	124.4
131	93.8	65.0	120.8
166	132.8	89.9	167.0



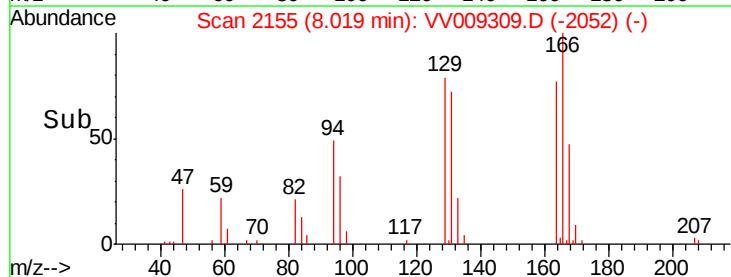
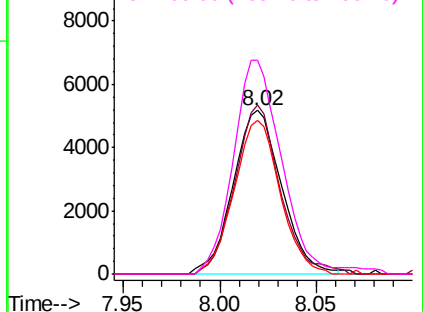
Abundance

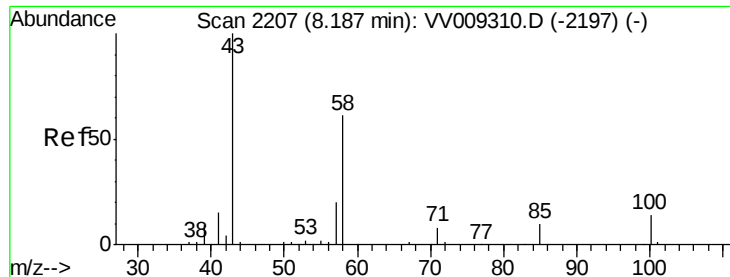
Ion 164.00 (163.70 to 164.70): VV009310.D (-2143) (-)

Ion 129.00 (128.70 to 129.70): VV009310.D (-2143) (-)

Ion 131.00 (130.70 to 131.70): VV009310.D (-2143) (-)

Ion 166.00 (165.70 to 166.70): VV009310.D (-2143) (-)





#49

2-Hexanone

Concen: 8.517 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

Tgt Ion: 43 Resp: 11176

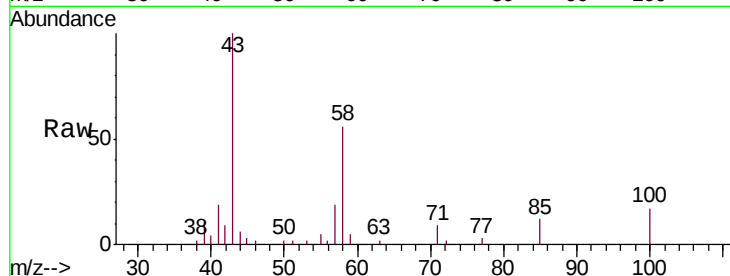
Ion Ratio Lower Upper

43 100

58 62.5 46.8 70.2

57 20.8 14.2 21.2

100 15.3 11.0 16.6

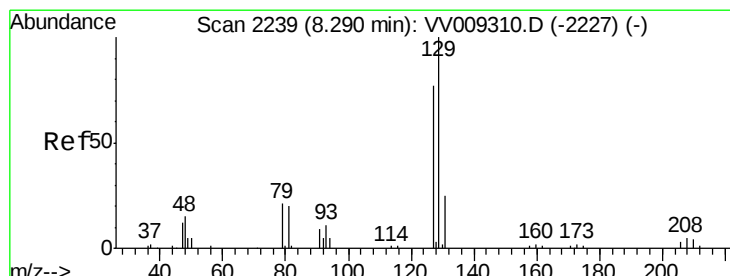
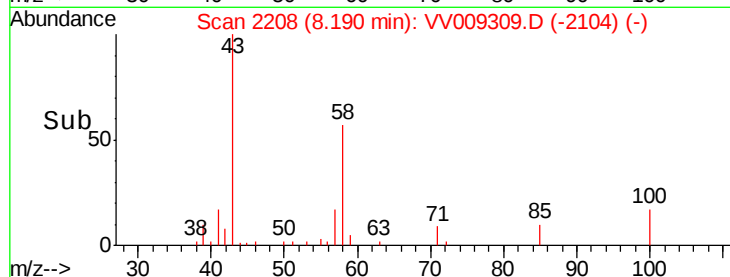
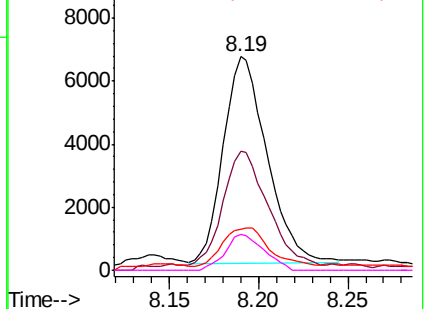


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#50

Dibromochloromethane

Concen: 5.115 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV009309.D

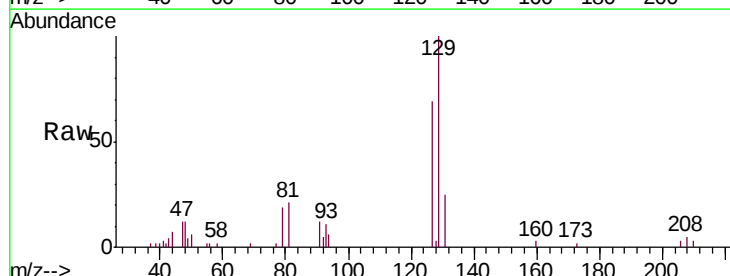
Acq: 20 Feb 2019 19:52

Tgt Ion: 129 Resp: 10744

Ion Ratio Lower Upper

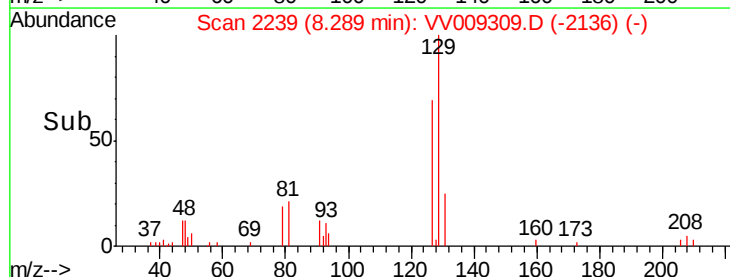
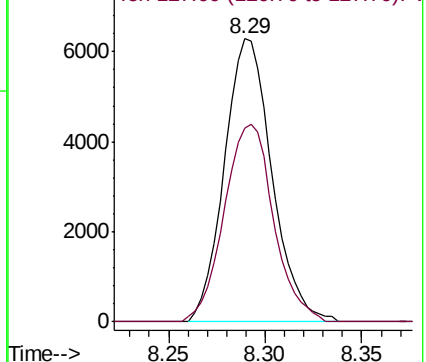
129 100

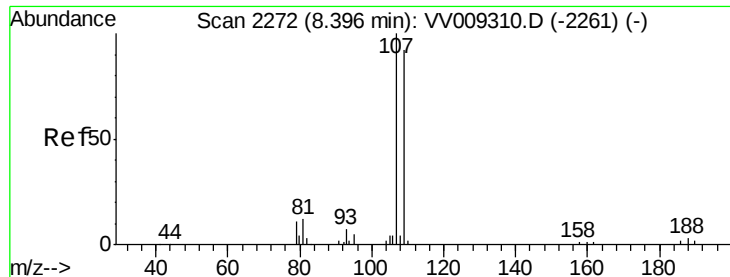
127 68.6 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 5.144 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

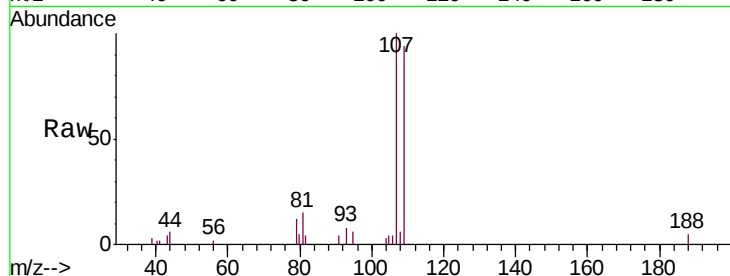
Tgt Ion:107 Resp: 8659

Ion Ratio Lower Upper

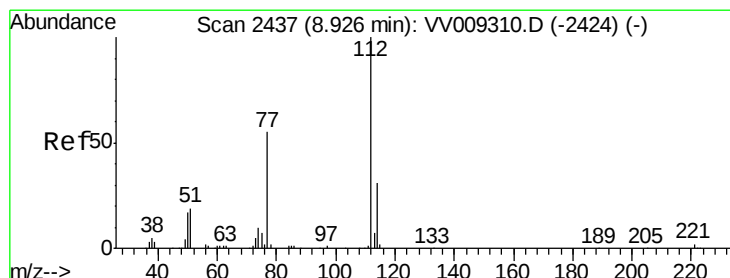
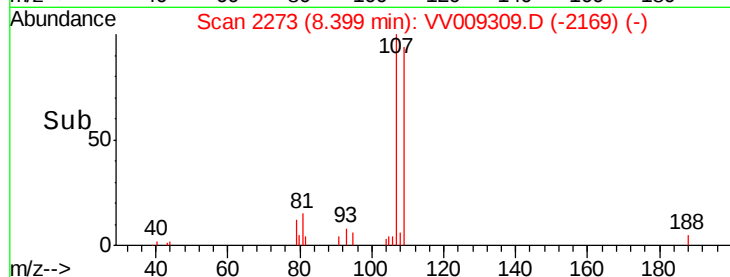
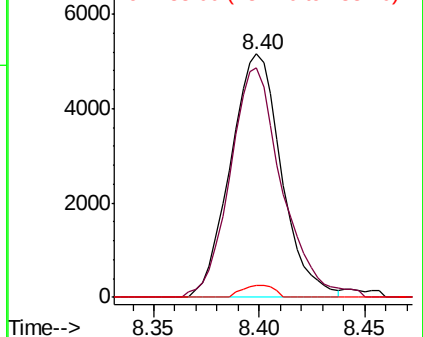
107 100

109 94.0 64.5 119.9

188 4.7 2.8 4.2#



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: 4.855 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

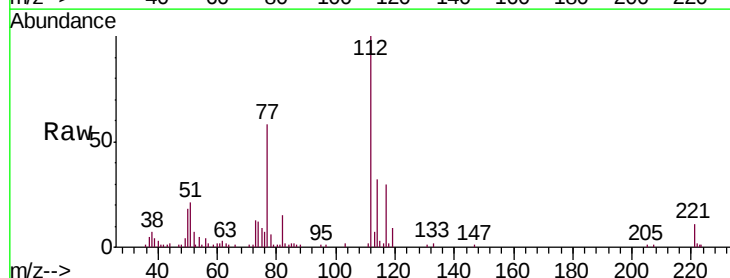
Tgt Ion:112 Resp: 29715

Ion Ratio Lower Upper

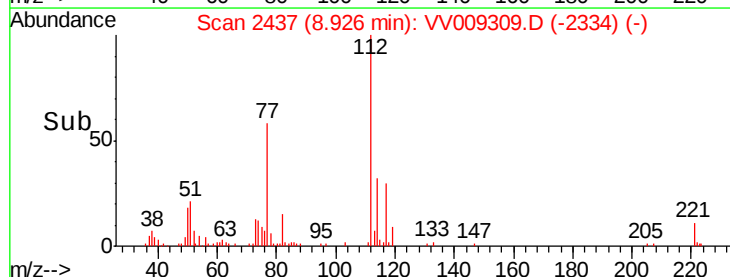
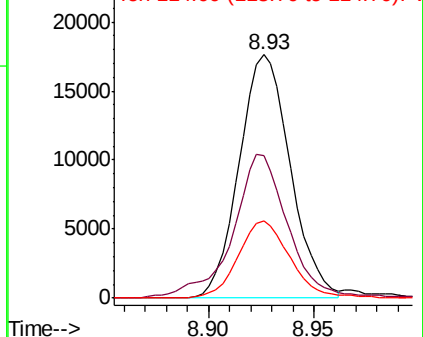
112 100

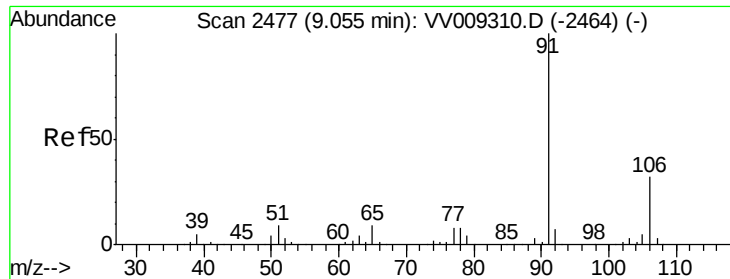
77 58.3 45.0 67.4

114 31.6 22.0 41.0



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 4.720 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

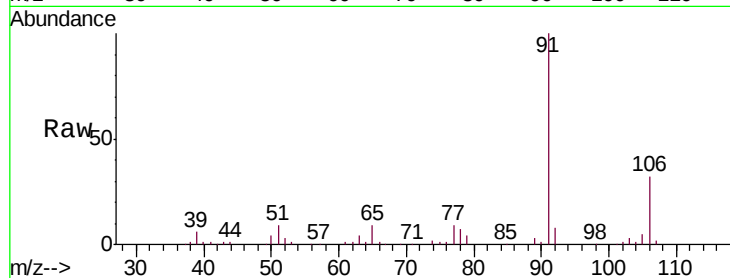
VSTD00570

Tgt Ion: 91 Resp: 50605

Ion Ratio Lower Upper

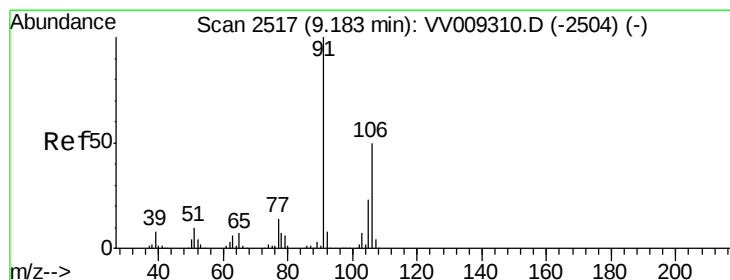
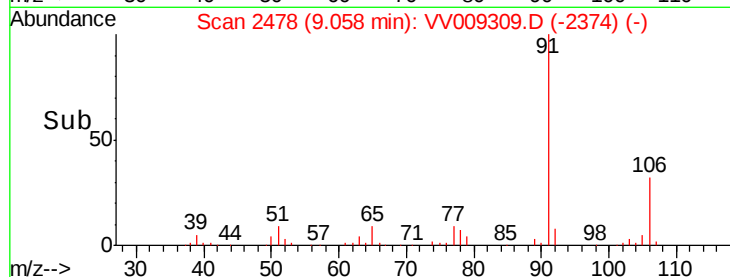
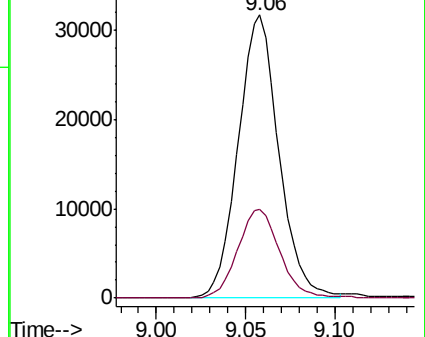
91 100

106 31.6 22.2 41.2



Abundance Ion 91.00 (90.70 to 91.70): VV009310.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV009310.D (-2464) (-)



#54

m,p-Xylene

Concen: 4.922 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV009309.D

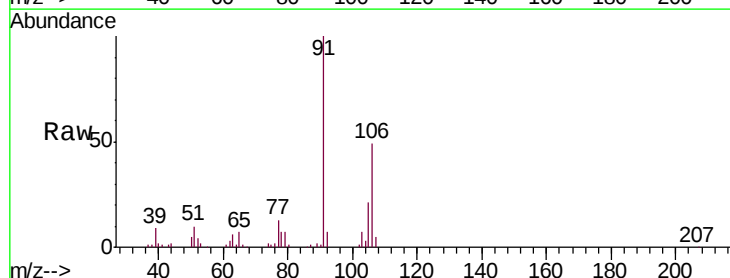
Acq: 20 Feb 2019 19:52

Tgt Ion: 106 Resp: 20187

Ion Ratio Lower Upper

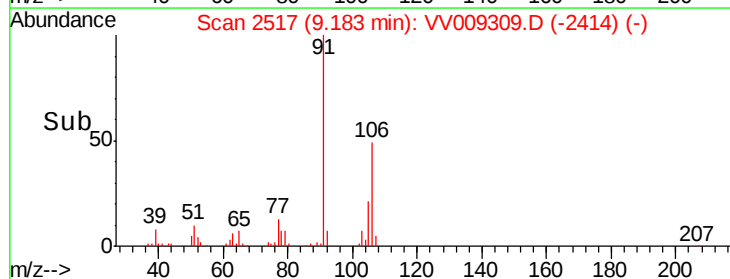
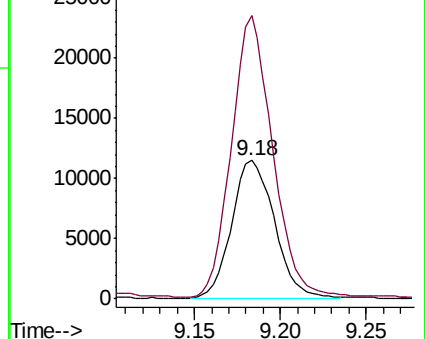
106 100

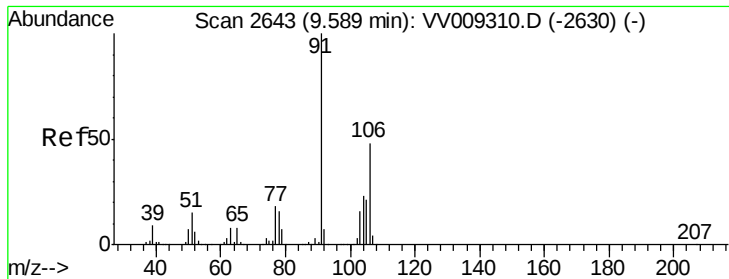
91 204.5 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV009310.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV009310.D (-2504) (-)





#55

o-xylene

Concen: 4.782 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

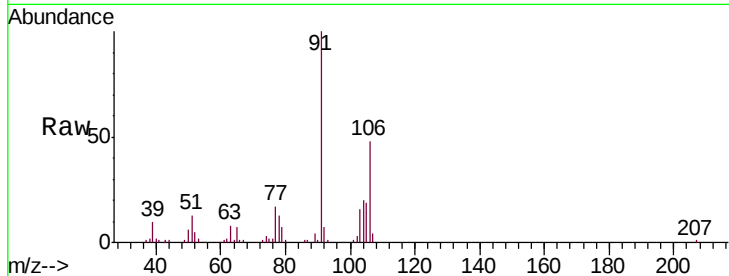
VSTD00570

Tgt Ion:106 Resp: 19073

Ion Ratio Lower Upper

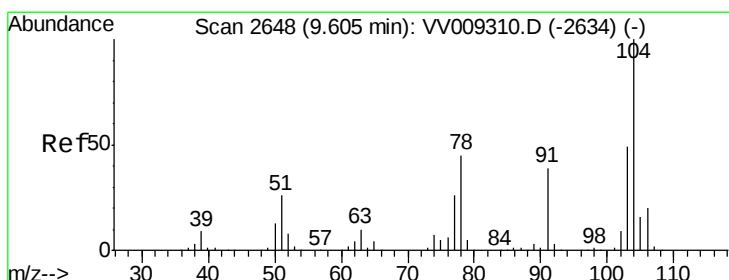
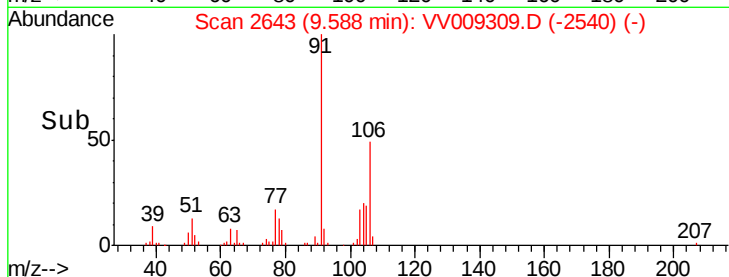
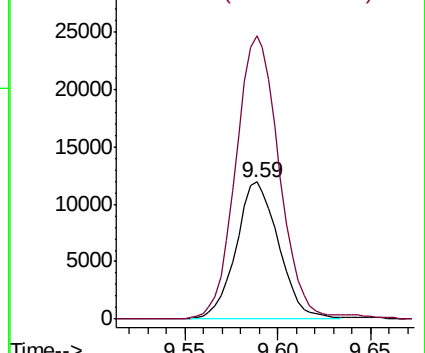
106 100

91 206.6 146.4 271.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.723 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV009309.D

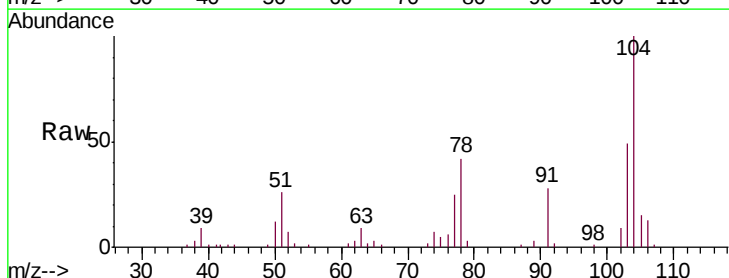
Acq: 20 Feb 2019 19:52

Tgt Ion:104 Resp: 32479

Ion Ratio Lower Upper

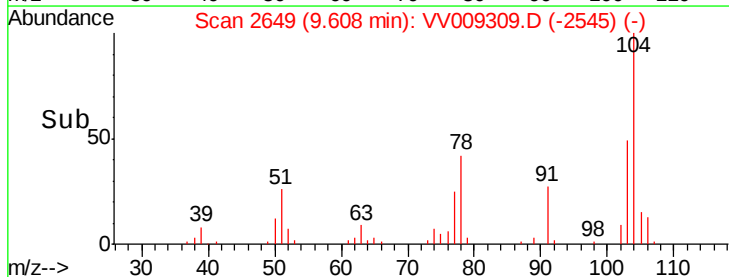
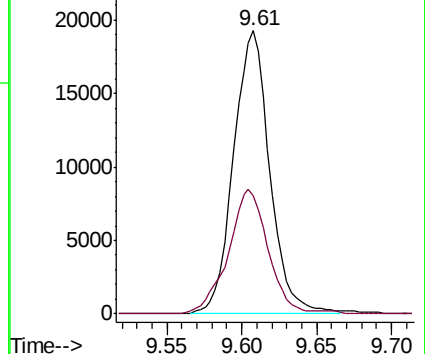
104 100

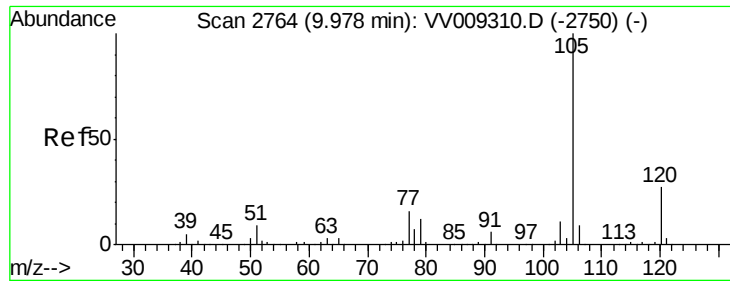
78 41.9 31.6 58.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.761 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

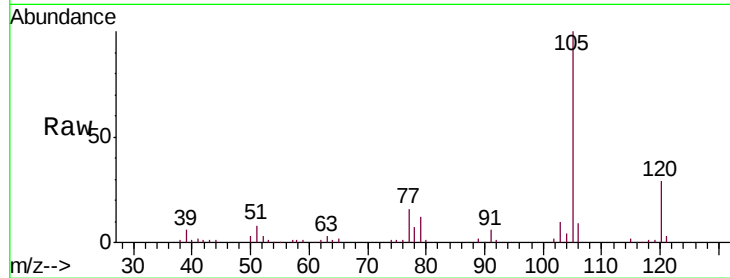
Tgt Ion: 105 Resp: 51532

Ion Ratio Lower Upper

105 100

120 28.4 21.7 32.5

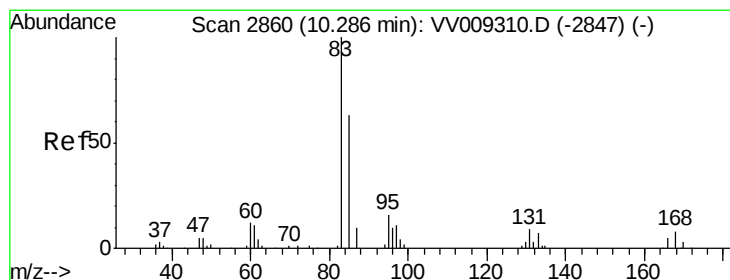
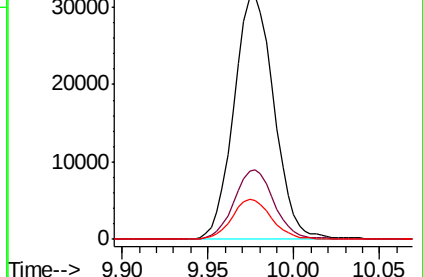
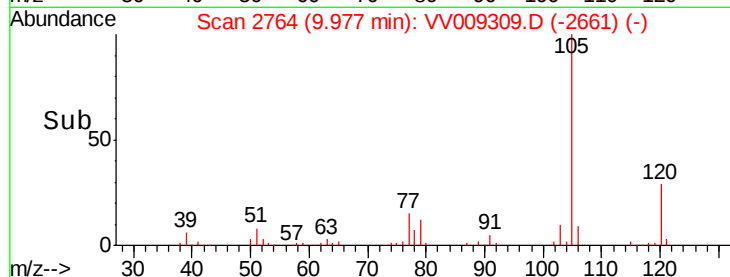
77 16.1 12.8 19.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.228 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

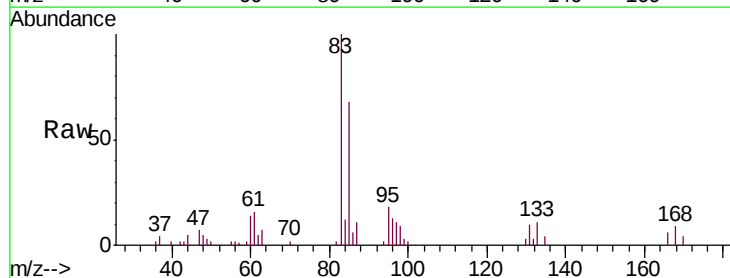
Tgt Ion: 83 Resp: 11998

Ion Ratio Lower Upper

83 100

85 68.3 44.7 83.1

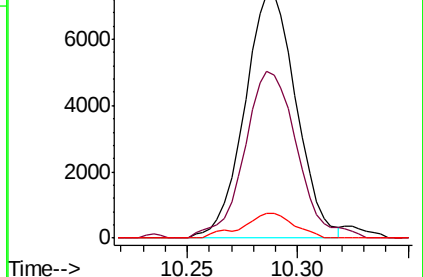
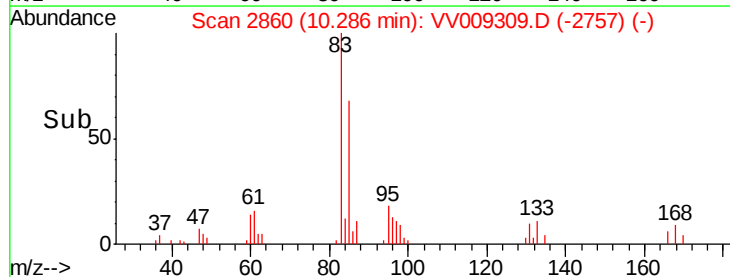
131 10.1 8.1 12.1

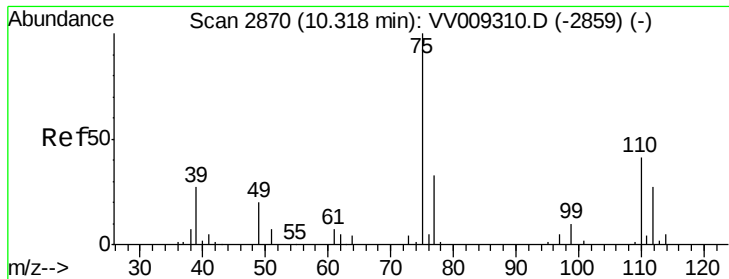


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

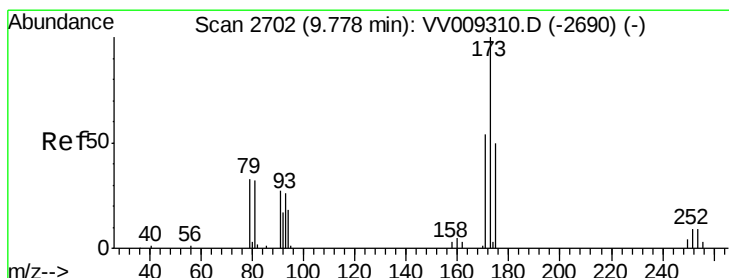
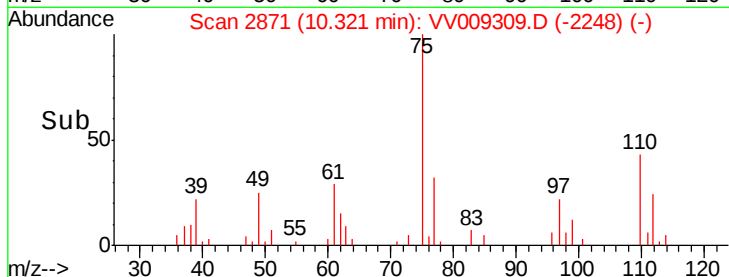
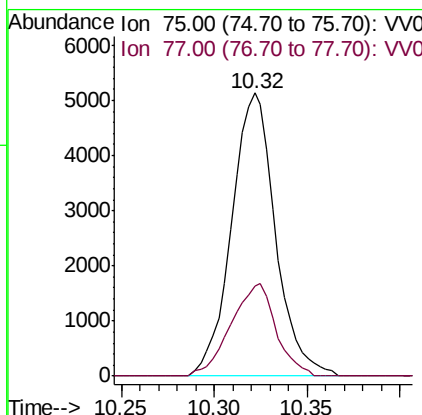
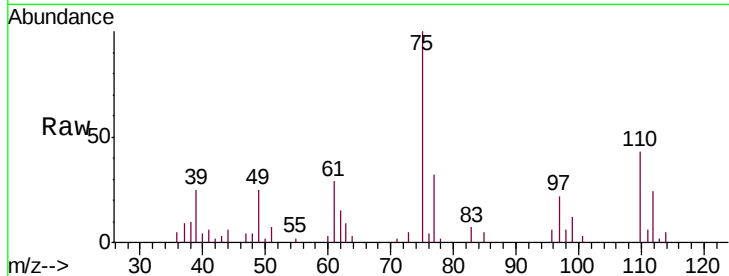




#59
 1,2,3-Trichloropropane
 Concen: 5.061 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

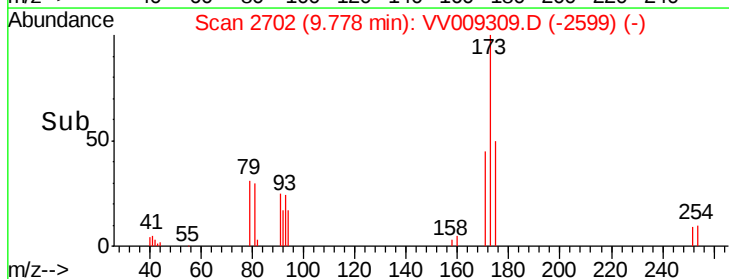
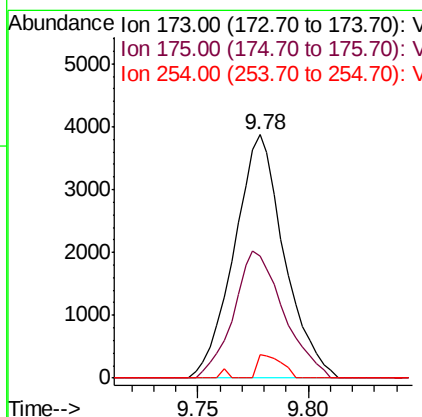
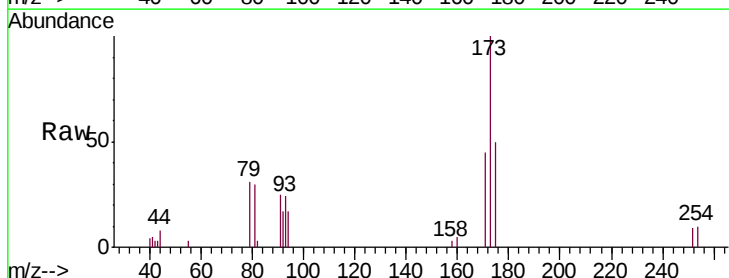
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

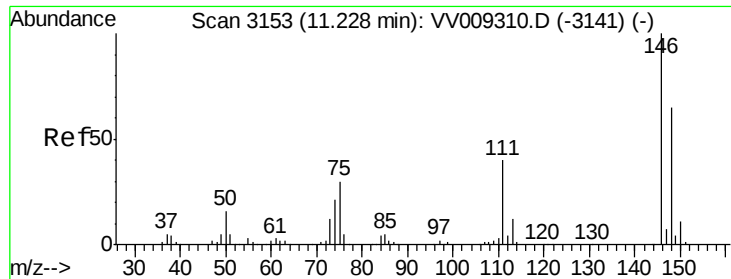
Tgt Ion: 75 Resp: 8426
 Ion Ratio Lower Upper
 75 100
 77 33.5 26.3 39.5



#62
 Bromoform
 Concen: 4.496 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion: 173 Resp: 6088
 Ion Ratio Lower Upper
 173 100
 175 52.1 39.1 58.7
 254 4.6 5.7 8.5#





#63

1,3-Dichlorobenzene

Concen: 5.024 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

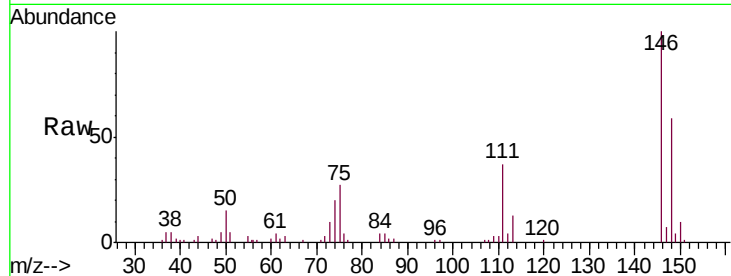
Tgt Ion:146 Resp: 23969

Ion Ratio Lower Upper

146 100

111 36.8 27.6 51.4

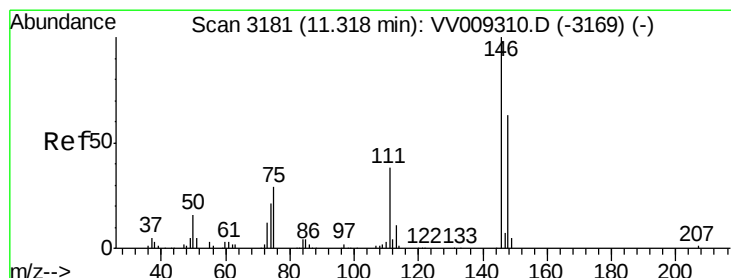
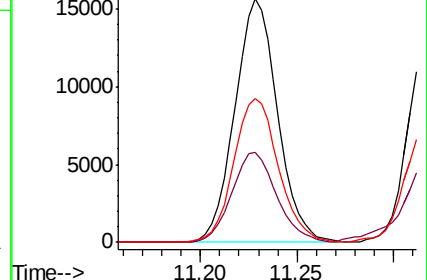
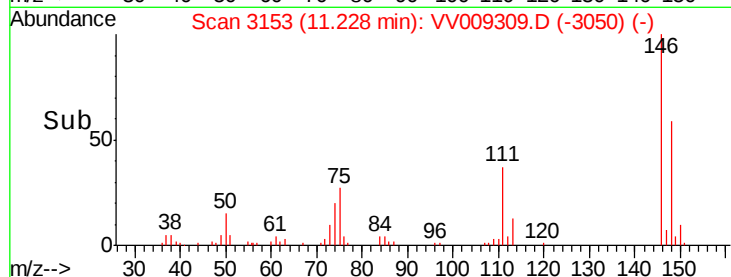
148 59.1 45.4 84.4



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



#64

1,4-Dichlorobenzene

Concen: 5.020 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

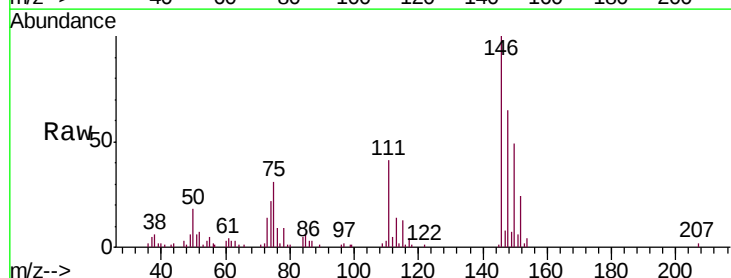
Tgt Ion:146 Resp: 24164

Ion Ratio Lower Upper

146 100

111 40.6 26.9 50.1

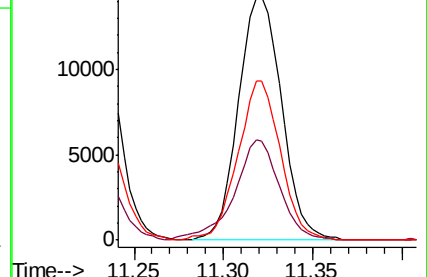
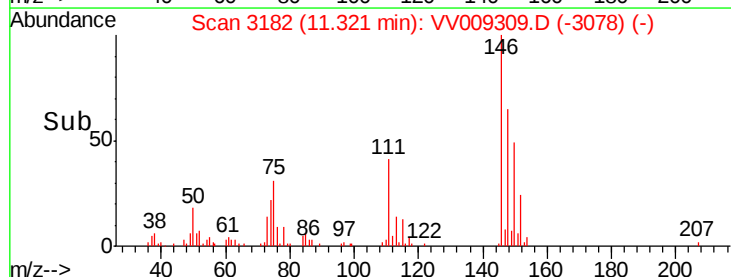
148 65.2 44.1 81.9

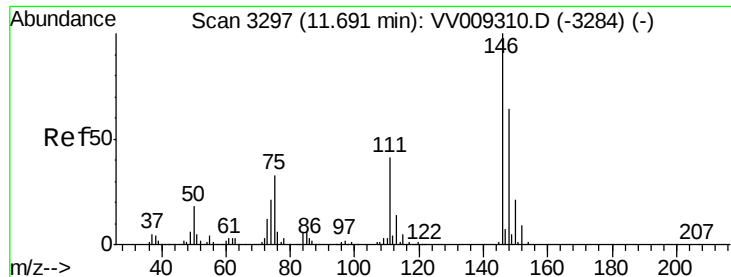


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.057 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

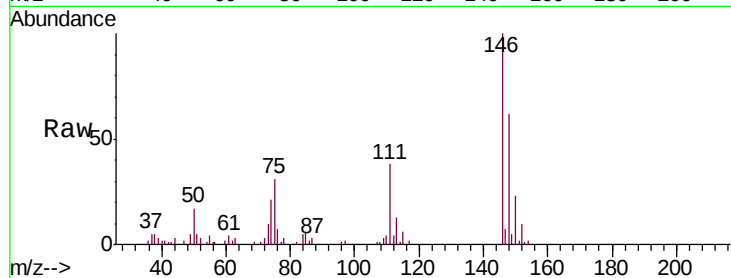
Tgt Ion: 146 Resp: 22815

Ion Ratio Lower Upper

146 100

111 37.9 32.6 48.8

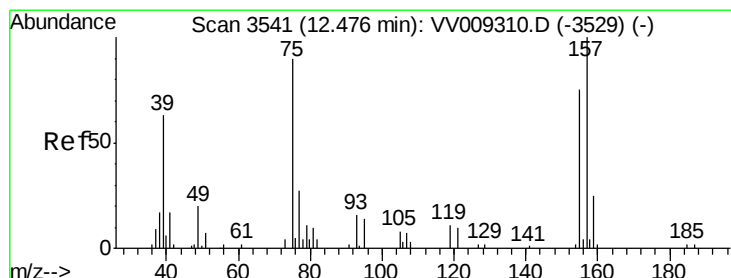
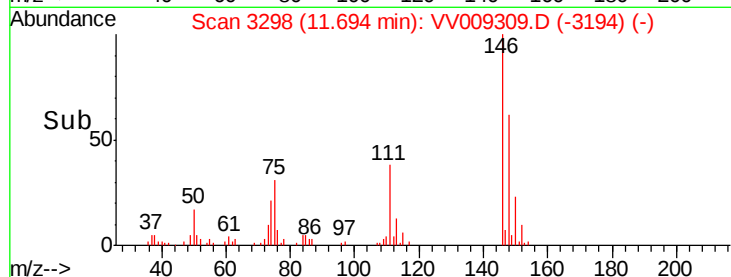
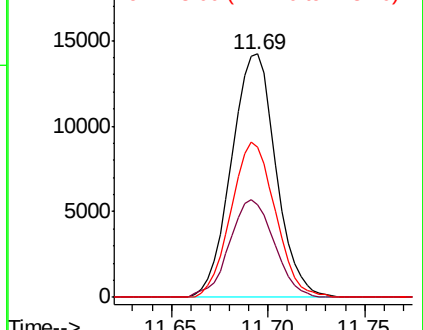
148 61.7 51.1 76.7



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: 4.464 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

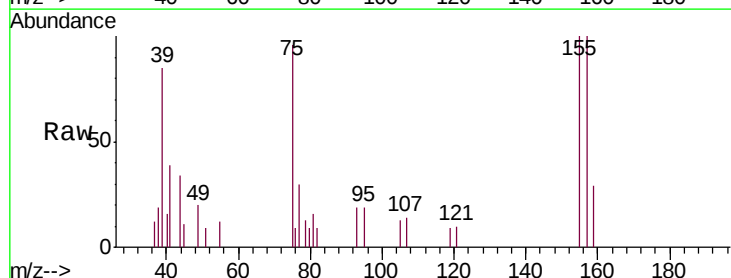
Tgt Ion: 75 Resp: 1910

Ion Ratio Lower Upper

75 100

157 104.6 88.6 133.0

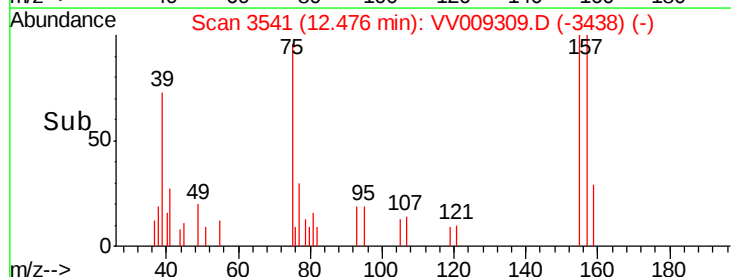
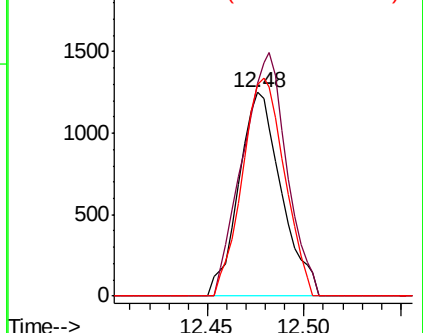
155 104.2 66.6 100.0#

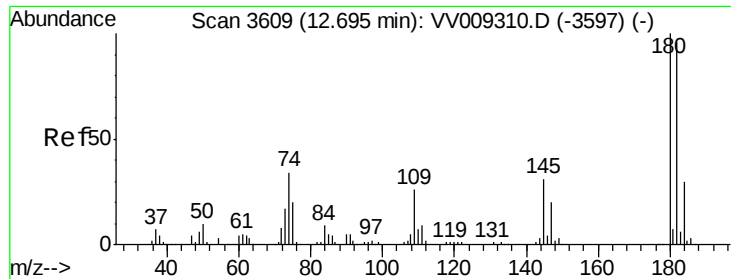


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

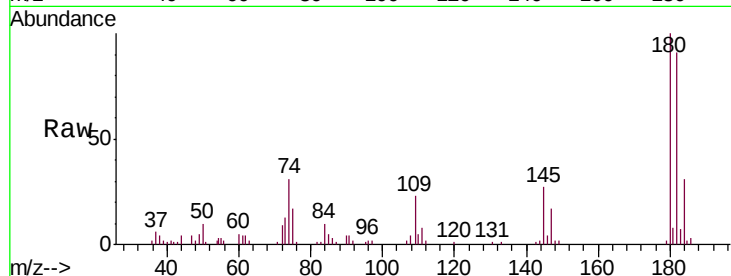




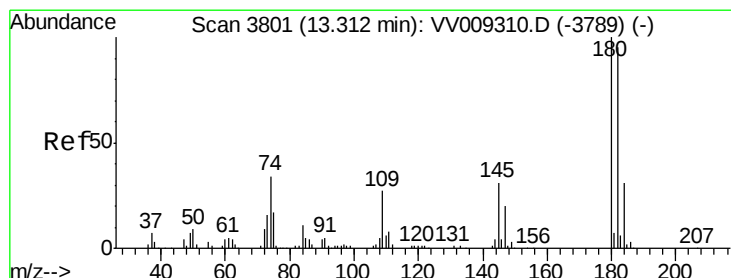
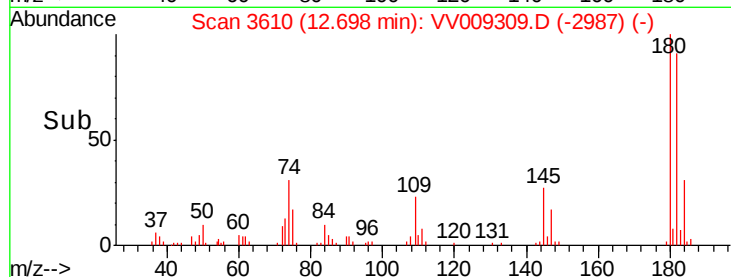
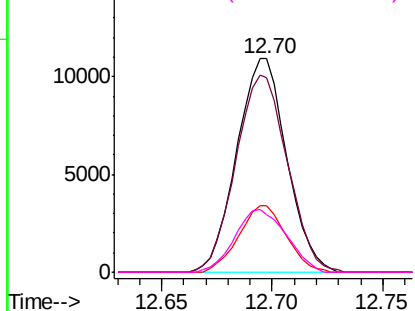
#67
 1,3,5-Trichlorobenzene
 Concen: 4.856 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00570

Tgt Ion:180 Resp: 17148
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.4 116.2
 184 29.7 24.9 37.3
 145 30.5 24.3 36.5

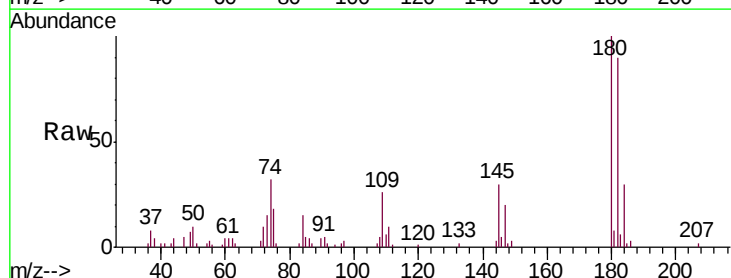


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

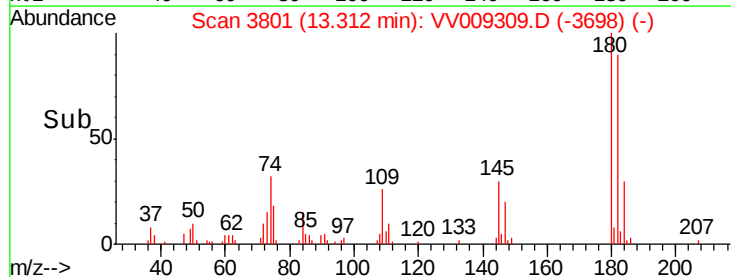
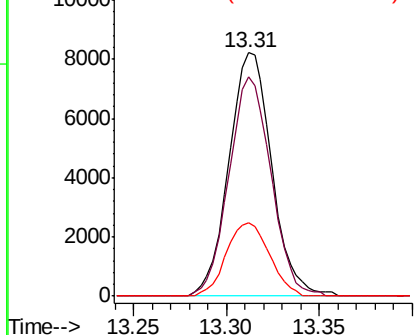


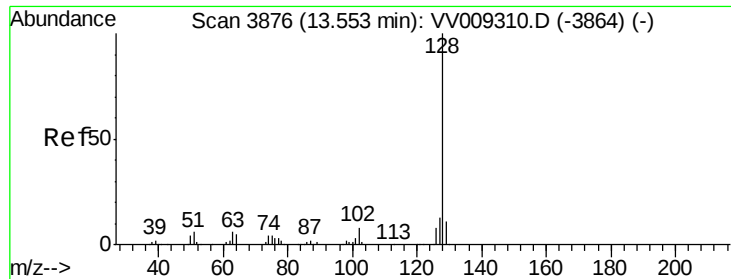
#68
 1,2,4-trichlorobenzene
 Concen: 4.582 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009309.D
 Acq: 20 Feb 2019 19:52

Tgt Ion:180 Resp: 13189
 Ion Ratio Lower Upper
 180 100
 182 88.5 76.7 115.1
 145 30.3 25.1 37.7



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





#69

Naphthalene

Concen: 4.268 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00570

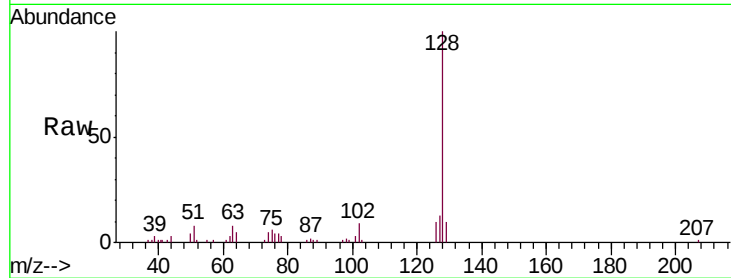
Tgt Ion:128 Resp: 23988

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

127 13.2 10.5 15.7

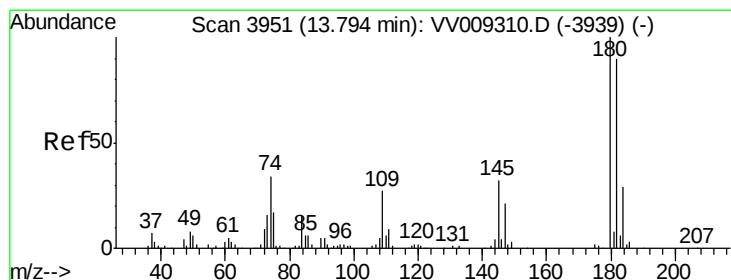
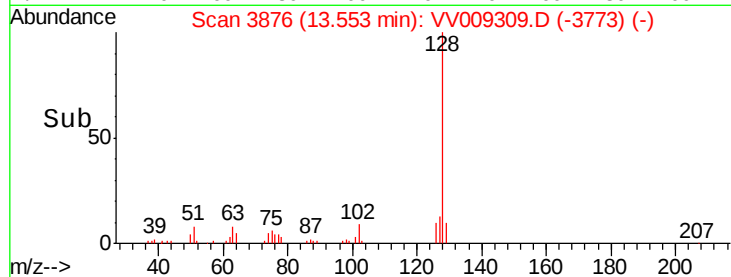
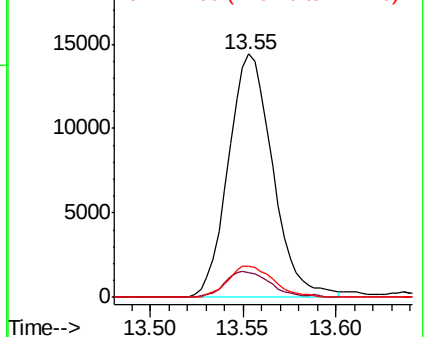


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.526 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009309.D

Acq: 20 Feb 2019 19:52

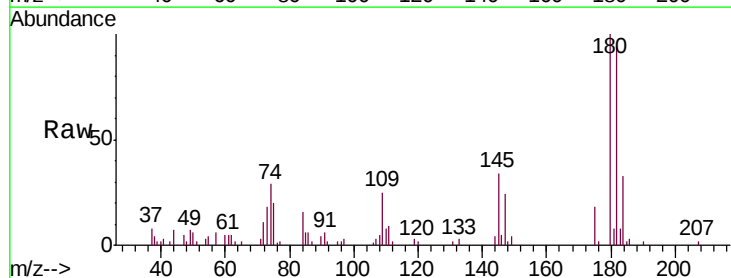
Tgt Ion:180 Resp: 11739

Ion Ratio Lower Upper

180 100

182 98.2 73.6 110.4

145 33.2 26.1 39.1



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

