

Data File : VV011543.D
Acq On : 15 Jun 2019 16:59
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Quant Time: Jun 17 04:37:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Jun 17 04:30:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	167676	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	149516	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	62392	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	52656	4.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.20%
7) Chloroethane-d5	1.58	69	38278	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.40%
11) 1,1-Dichloroethene-d2	2.12	63	102754	4.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.20%
20) 2-Butanone-d5	3.95	46	188843	53.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.02%
24) Chloroform-d	4.40	84	116358	4.78	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.60%
26) 1,2-Dichloroethane-d4	5.08	65	67089	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.09	84	212761	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
36) 1,2-Dichloropropane-d6	6.12	67	69881	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.36	98	180644	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.80%
43) trans-1,3-Dichloropropene-	7.66	79	20630	4.38	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.60%
46) 2-Hexanone-d5	8.14	63	145709	53.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.18%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	53019	4.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	58743	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	68412	4.573 ug/L	97
3) Chloromethane	1.25	50	79722	4.920 ug/L	99
5) Vinyl chloride	1.32	62	76344	4.771 ug/L	95
6) Bromomethane	1.53	94	34128	5.101 ug/L	99
8) Chloroethane	1.59	64	39583	5.108 ug/L	97
9) Trichlorofluoromethane	1.76	101	88131	5.000 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	43656	4.336 ug/L	98
12) 1,1-Dichloroethene	2.13	96	48917	4.691 ug/L	92
13) Acetone	2.21	43	124966	52.055 ug/L	99
14) Carbon disulfide	2.31	76	120352	4.269 ug/L	100
15) Methyl Acetate	2.47	43	31057	4.880 ug/L	100
16) Methylene chloride	2.53	84	60236	5.082 ug/L	96
17) Methyl tert-butyl Ether	2.81	73	166493	5.325 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	58426	4.955 ug/L	95
19) 1,1-Dichloroethane	3.22	63	126082	5.169 ug/L	98
21) 2-Butanone	4.04	43	203481	53.574 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	66361	4.968 ug/L	98

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	27914	5.317	ug/L	96
25) Chloroform	4.42	83	128502	5.250	ug/L	97
27) 1,2-Dichloroethane	5.18	62	91199	5.286	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	95525	5.135	ug/L	99
30) Cyclohexane	4.72	56	83101	4.324	ug/L	98
31) Carbon tetrachloride	4.87	117	71980	4.781	ug/L	99
33) Benzene	5.14	78	261321	5.351	ug/L	100
34) Trichloroethene	5.96	95	62852	5.047	ug/L	99
35) Methylcyclohexane	6.17	83	76674	4.318	ug/L	99
37) 1,2-Dichloropropane	6.22	63	70921	5.456	ug/L	99
38) Bromodichloromethane	6.55	83	78667	5.327	ug/L	100
39) cis-1,3-Dichloropropene	7.07	75	78601	4.804	ug/L	96
40) 4-Methyl-2-pentanone	7.28	43	521506	56.277	ug/L	99
42) Toluene	7.43	91	256923	5.077	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	59569	4.759	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	47019	5.418	ug/L	96
47) Tetrachloroethene	8.02	164	39775	4.479	ug/L	95
48) 2-Hexanone	8.19	43	369315	56.692	ug/L	99
49) Dibromochloromethane	8.29	129	45729	5.245	ug/L	95
50) 1,2-Dibromoethane	8.40	107	43545	5.549	ug/L	99
51) Chlorobenzene	8.92	112	154196	4.961	ug/L	99
52) Ethylbenzene	9.05	91	250107	4.705	ug/L	99
53) m,p-xylene	9.18	106	91906	4.725	ug/L	97
54) o-xylene	9.59	106	96421	4.935	ug/L	96
55) Styrene	9.60	104	163600	5.048	ug/L	98
56) Isopropylbenzene	9.97	105	226078	4.547	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	53824	5.073	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	43789	5.395	ug/L	99
61) Bromoform	9.77	173	21560	5.420	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	101137	4.999	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	101381	4.919	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	107491	5.279	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	6940	4.693	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	67703	4.582	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	55922	4.713	ug/L	98
69) Naphthalene	13.55	128	114143	4.892	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	57427	4.991	ug/L	99

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

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ClientSampleId :
VSTD00556

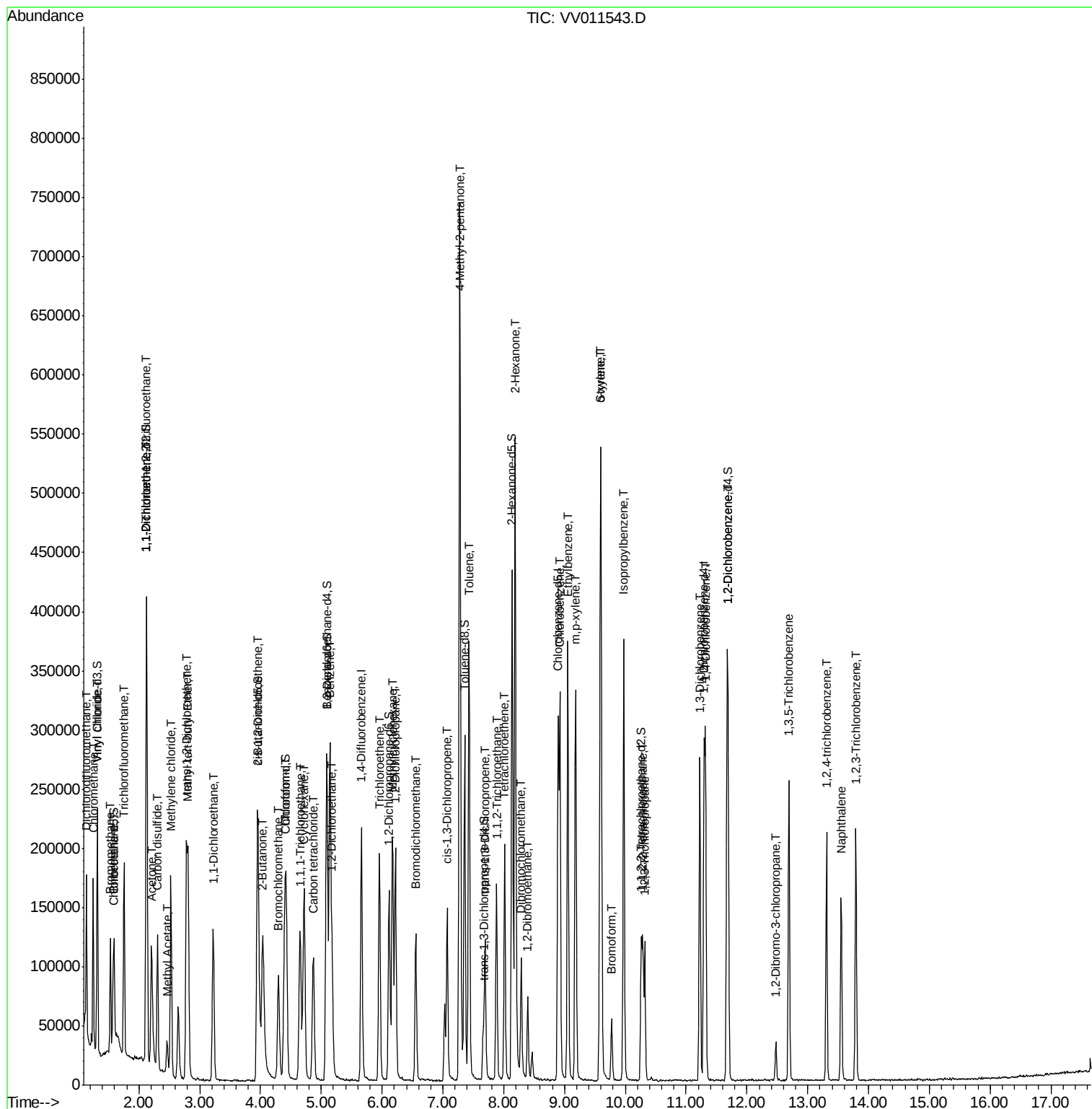
Quant Time: Jun 17 04:37:28 2019

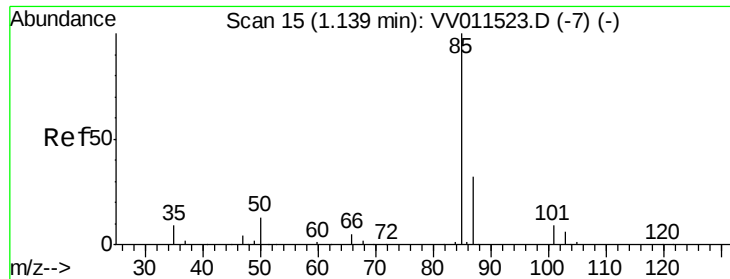
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR061419WMA.M

Quant Title : TRACE VOA SOM01.0

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.573 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

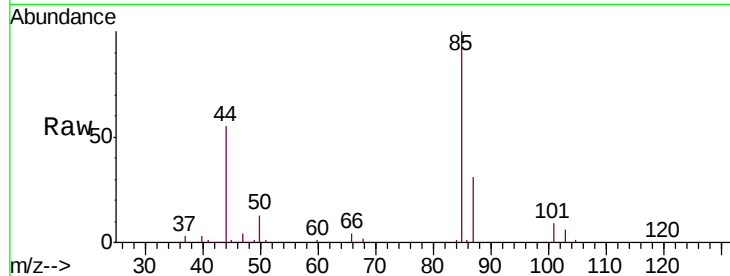
VSTD00556

Tgt Ion: 85 Resp: 68412

Ion Ratio Lower Upper

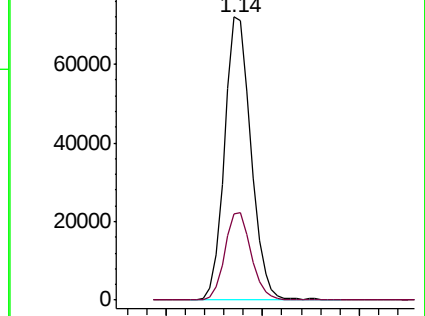
85 100

87 30.9 25.9 38.9

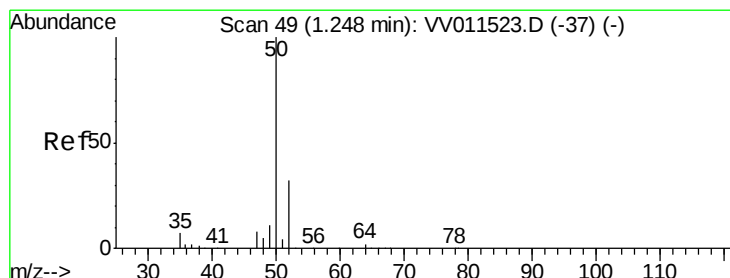
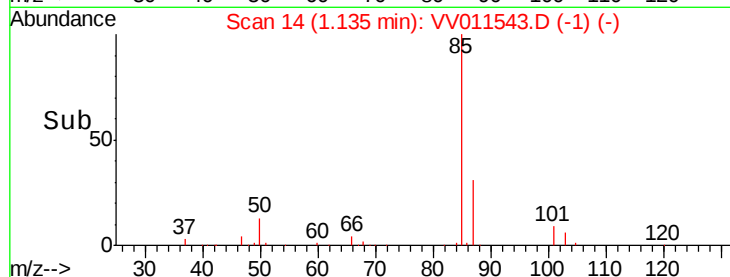


Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



Time-->



#3

Chloromethane

Concen: 4.920 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011543.D

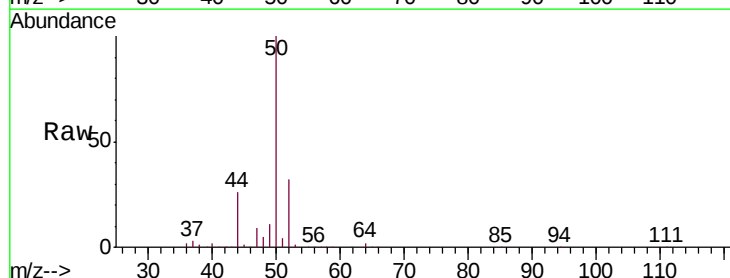
Acq: 15 Jun 2019 16:59

Tgt Ion: 50 Resp: 79722

Ion Ratio Lower Upper

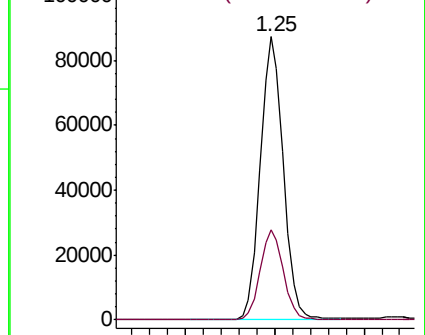
50 100

52 32.0 22.7 42.1

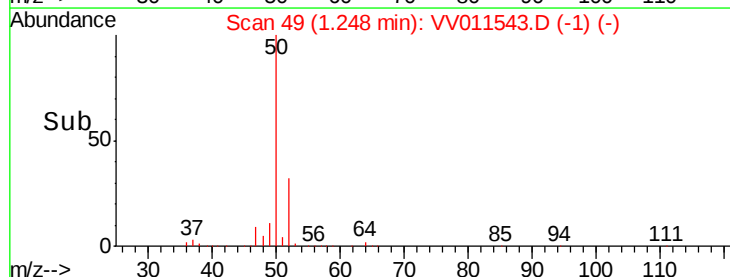


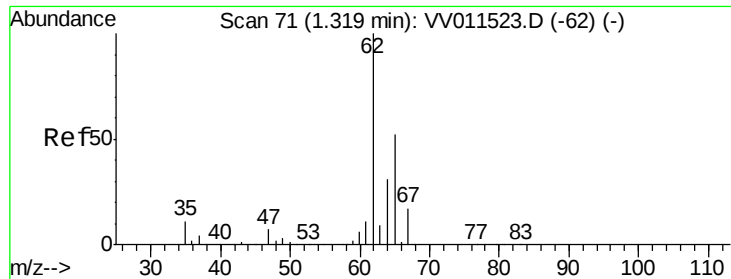
Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



Time-->





#5

Vinyl chloride

Concen: 4.771 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

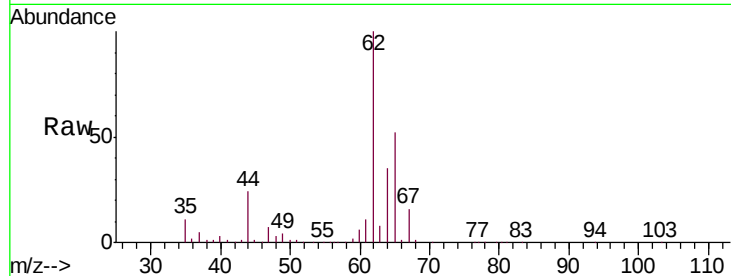
VSTD00556

Tgt Ion: 62 Resp: 76344

Ion Ratio Lower Upper

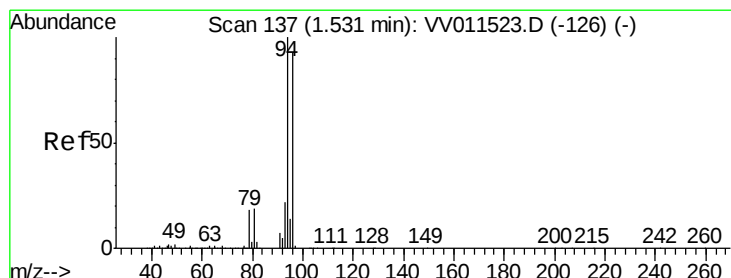
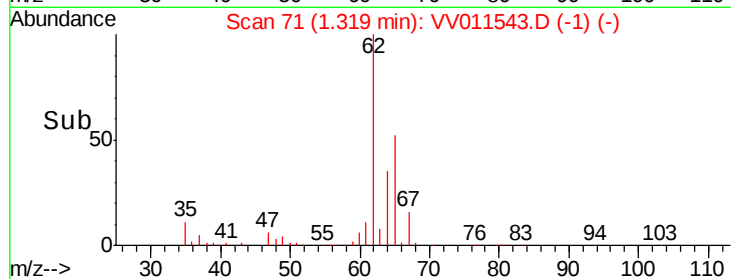
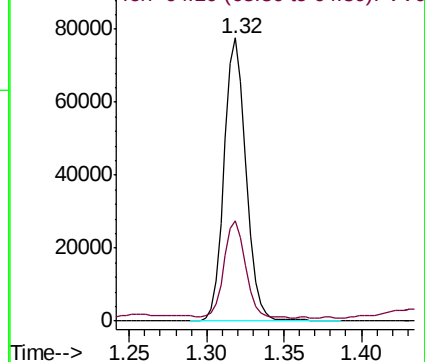
62 100

64 35.4 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 5.101 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV011543.D

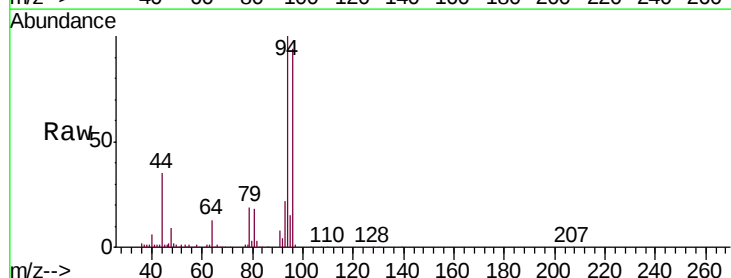
Acq: 15 Jun 2019 16:59

Tgt Ion: 94 Resp: 34128

Ion Ratio Lower Upper

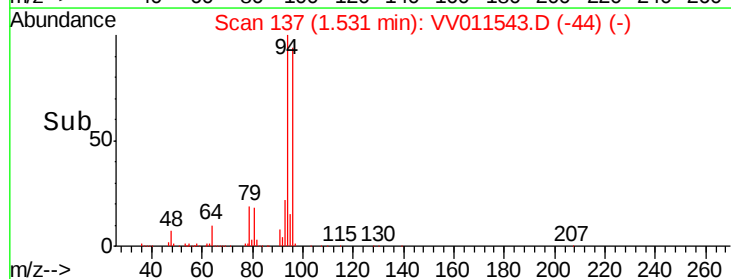
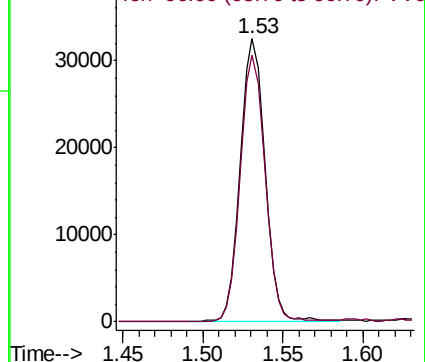
94 100

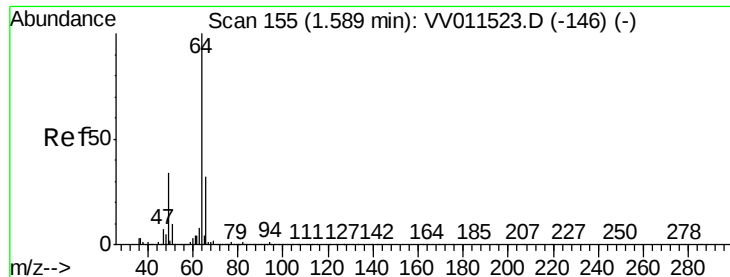
96 94.3 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.108 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

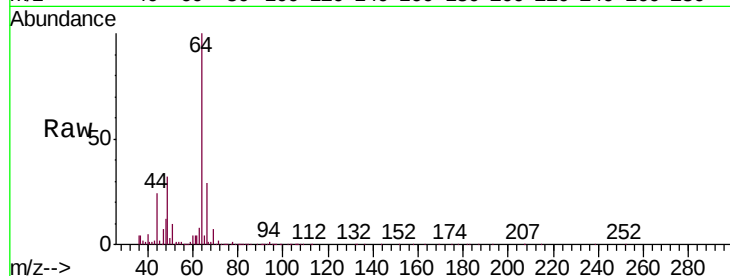
VSTD00556

Tgt Ion: 64 Resp: 39583

Ion Ratio Lower Upper

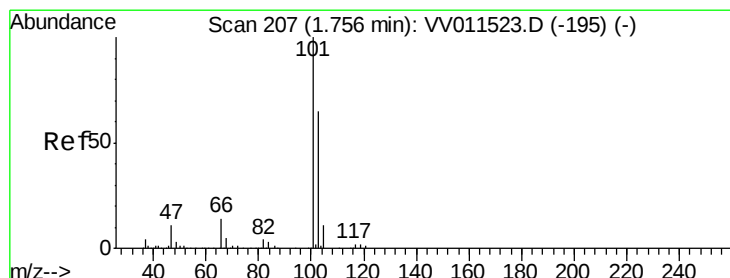
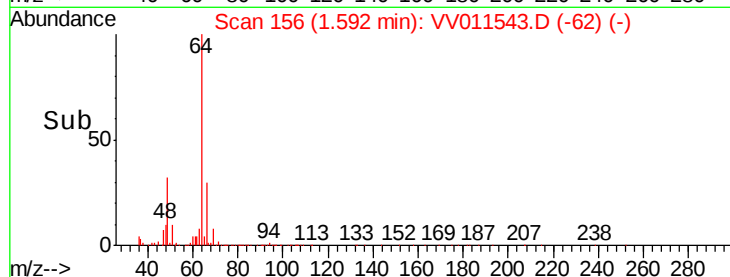
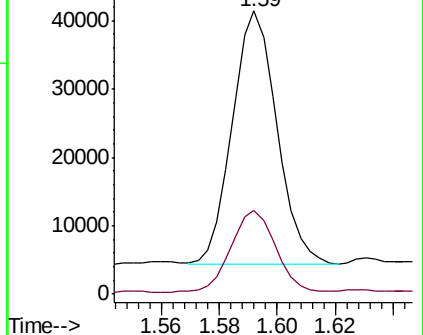
64 100

66 29.5 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV011523.D (-146) (-)

Ion 66.05 (65.75 to 66.75): VV011523.D (-146) (-)



#9

Trichlorofluoromethane

Concen: 5.000 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV011543.D

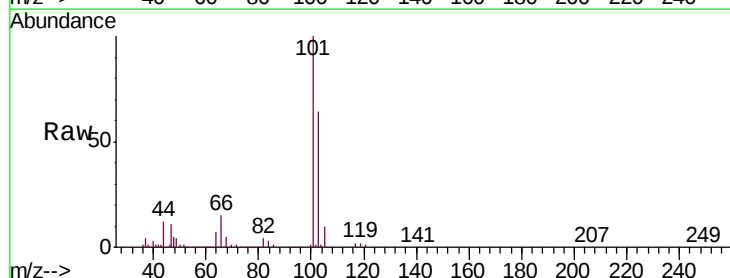
Acq: 15 Jun 2019 16:59

Tgt Ion: 101 Resp: 88131

Ion Ratio Lower Upper

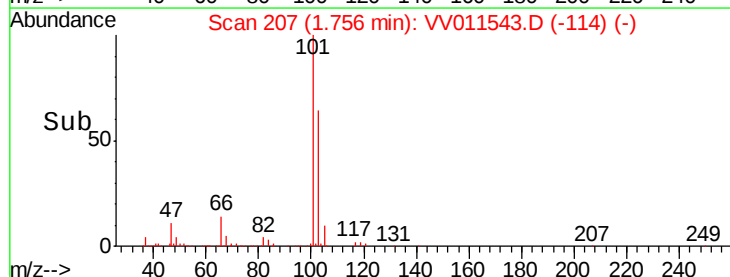
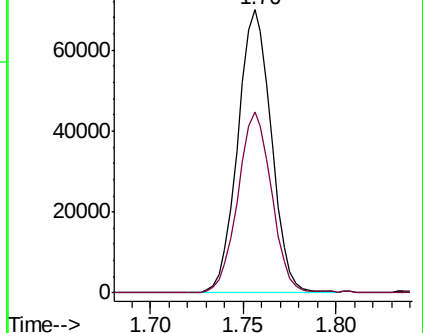
101 100

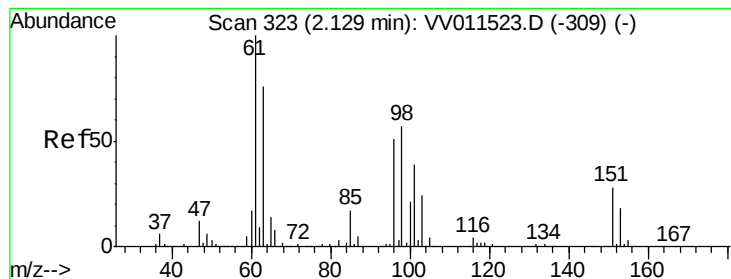
103 64.2 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV011523.D (-195) (-)

Ion 103.00 (102.70 to 103.70): VV011523.D (-195) (-)





#10

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

Concen: 4.336 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011543.D

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ClientSampleId :

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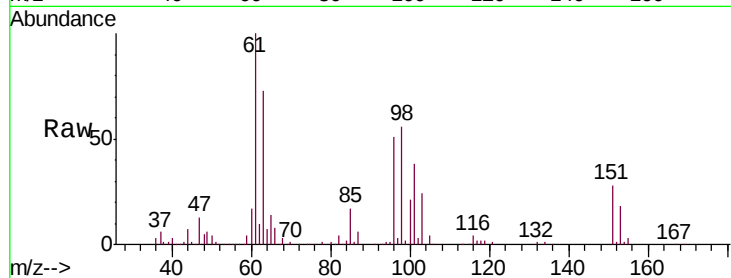
Tgt Ion: 101 Resp: 43656

Ion Ratio Lower Upper

101 100

85 44.6 37.3 55.9

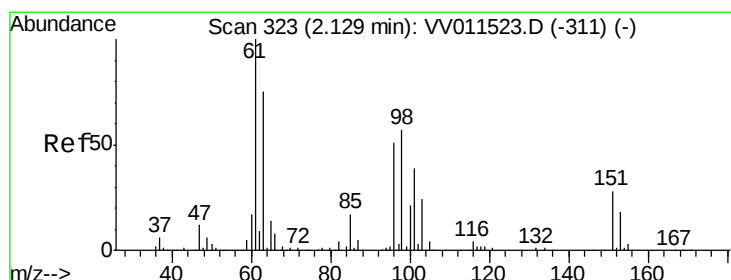
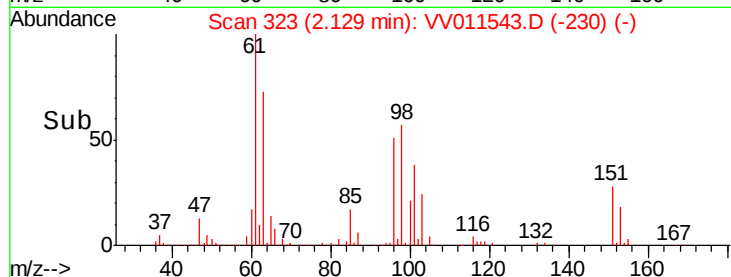
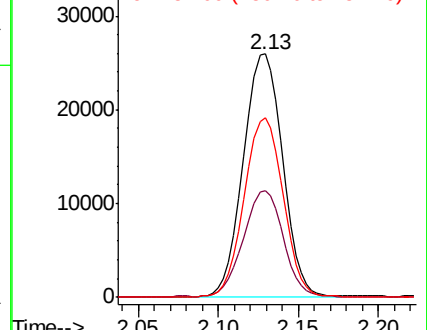
151 73.2 59.4 89.2



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: 4.691 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

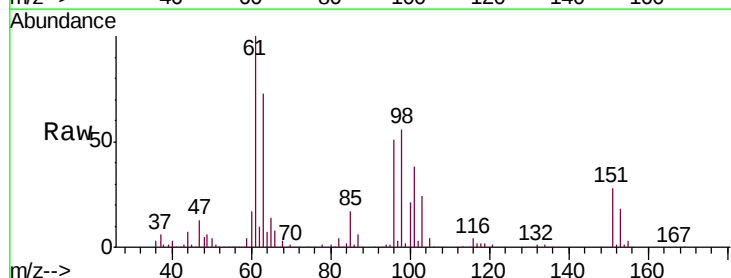
Tgt Ion: 96 Resp: 48917

Ion Ratio Lower Upper

96 100

61 197.1 135.9 252.5

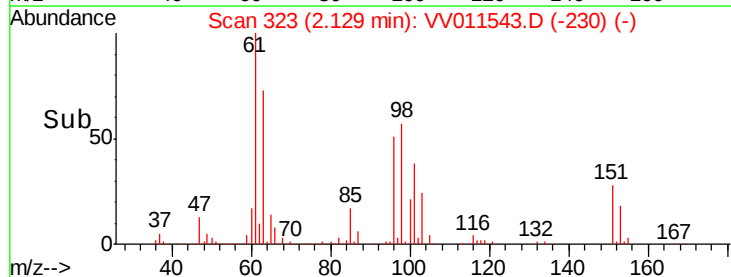
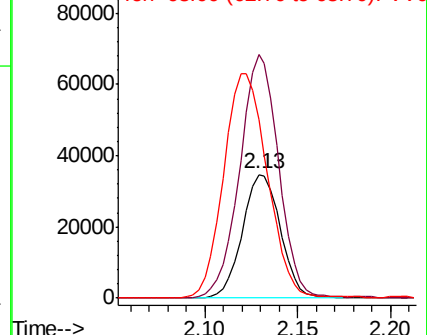
63 143.9 86.2 160.2

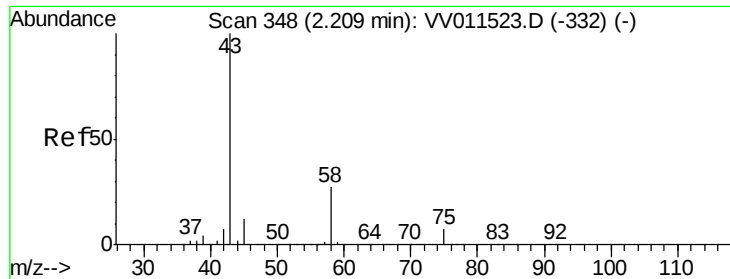


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 52.055 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV011543.D

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MSVOA_V

ClientSampleId :

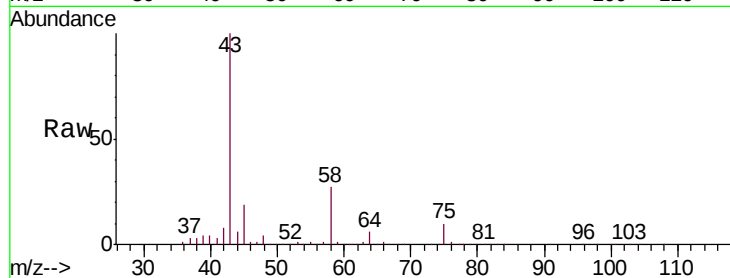
VSTD00556

Tgt Ion: 43 Resp: 124966

Ion Ratio Lower Upper

43 100

58 28.4 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV011523.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV011523.D (-332) (-)

2.21

60000

50000

40000

30000

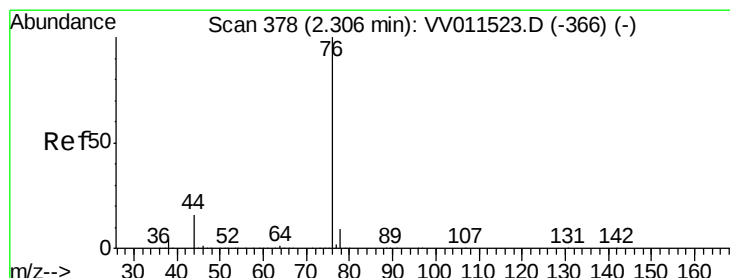
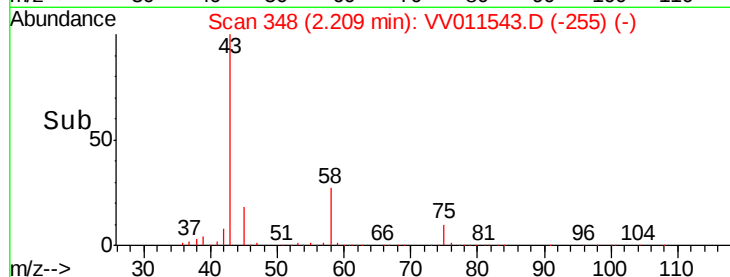
20000

10000

0

Time-->

2.10 2.20 2.30



#14

Carbon disulfide

Concen: 4.269 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV011543.D

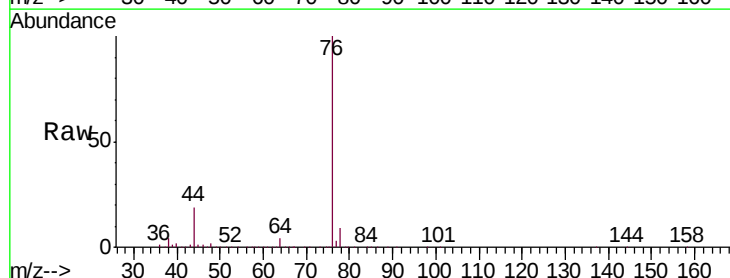
Acq: 15 Jun 2019 16:59

Tgt Ion: 76 Resp: 120352

Ion Ratio Lower Upper

76 100

78 9.5 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV011523.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV011523.D (-366) (-)

2.31

80000

60000

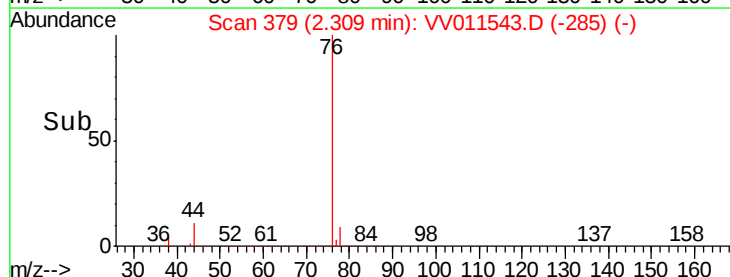
40000

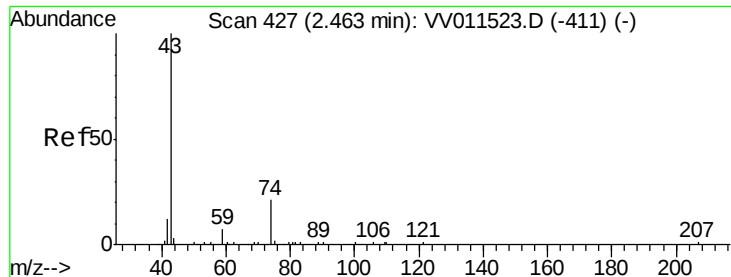
20000

0

Time-->

2.25 2.30 2.35





#15

Methyl Acetate

Concen: 4.880 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

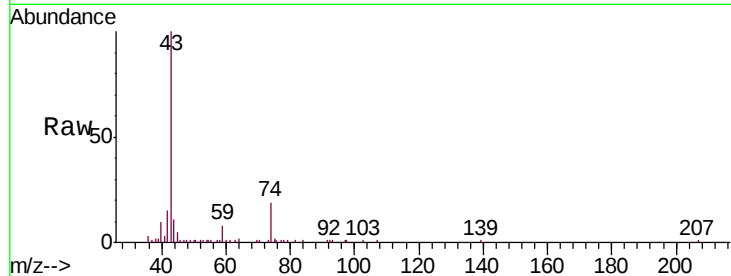
VSTD00556

Tgt Ion: 43 Resp: 31057

Ion Ratio Lower Upper

43 100

74 20.6 16.5 24.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.47

20000

15000

10000

5000

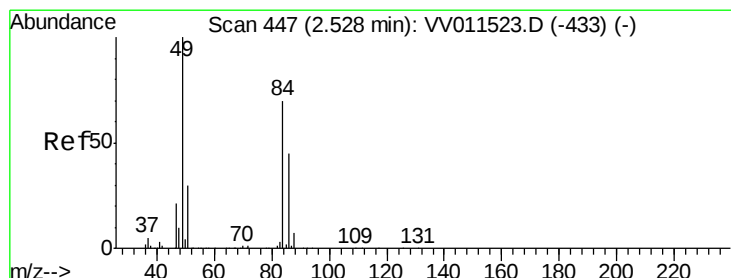
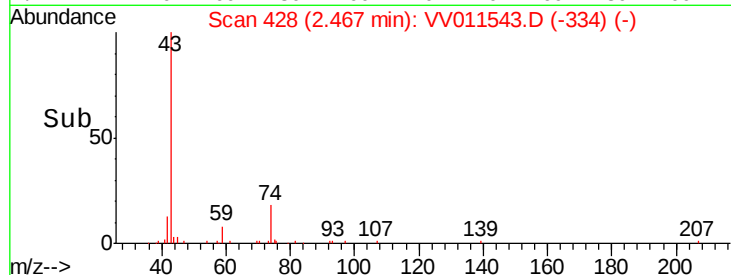
0

2.40

2.45

2.50

Time-->



#16

Methylene chloride

Concen: 5.082 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

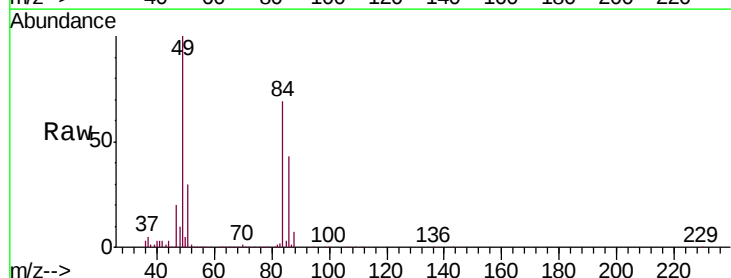
Tgt Ion: 84 Resp: 60236

Ion Ratio Lower Upper

84 100

86 63.0 42.5 78.9

49 145.0 97.7 181.5



Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

60000

40000

20000

0

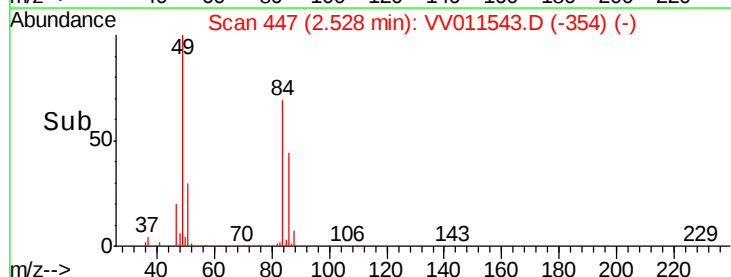
2.45

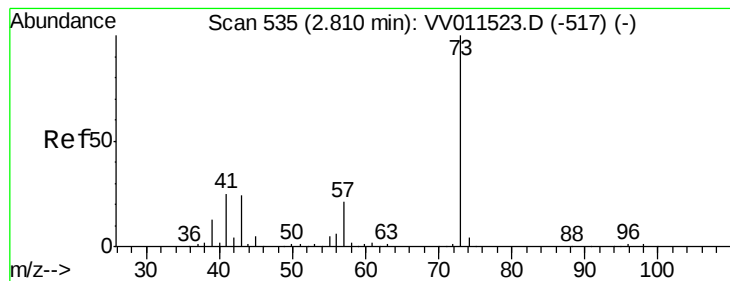
2.50

2.55

2.60

Time-->





#17

Methyl tert-butyl Ether

Concen: 5.325 ug/L

RT: 2.81 min Scan# 534

Delta R.T. -0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

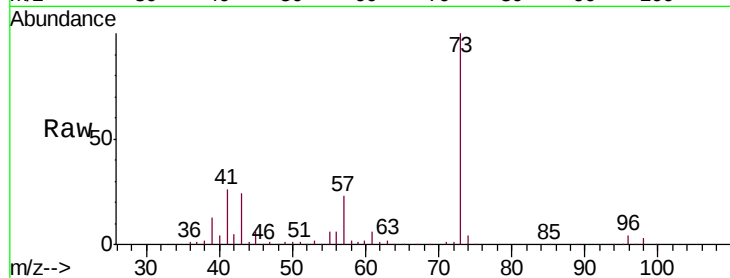
Tgt Ion: 73 Resp: 166493

Ion Ratio Lower Upper

73 100

43 23.6 18.2 27.4

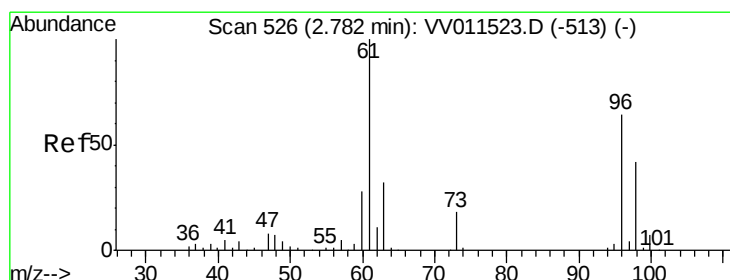
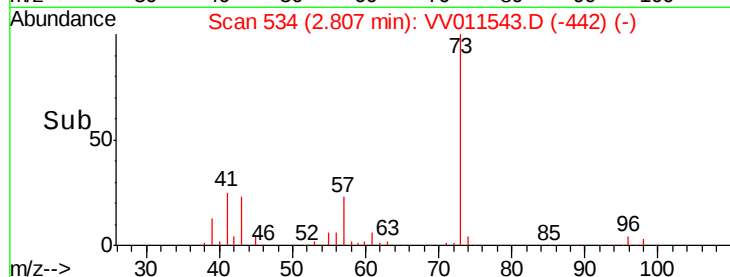
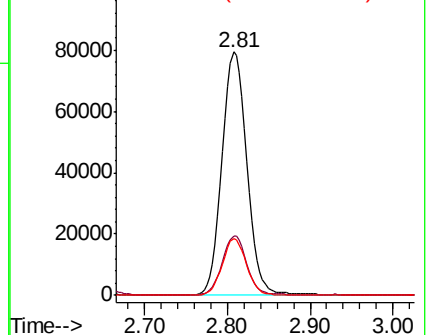
57 22.5 17.4 26.2



Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0



#18

trans-1,2-Dichloroethene

Concen: 4.955 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

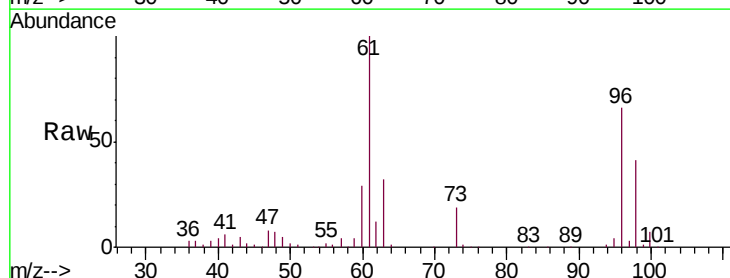
Tgt Ion: 96 Resp: 58426

Ion Ratio Lower Upper

96 100

61 150.9 110.0 204.4

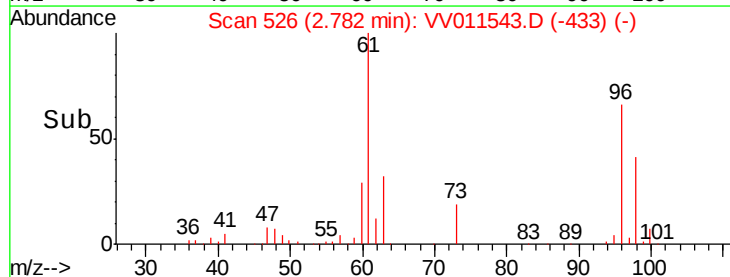
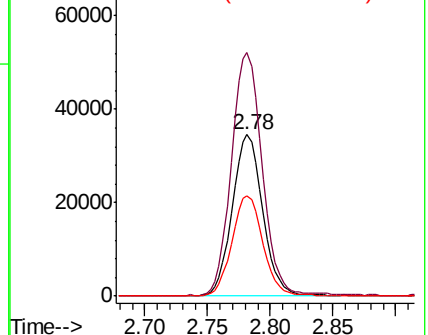
98 62.2 45.8 85.0

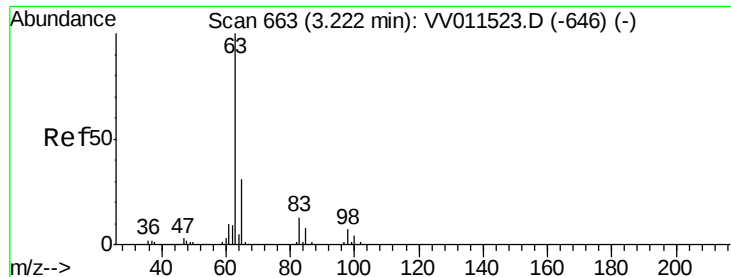


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

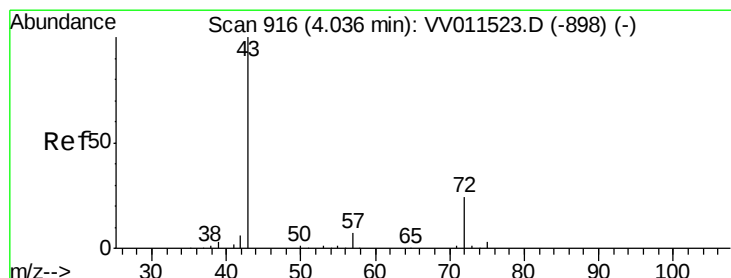
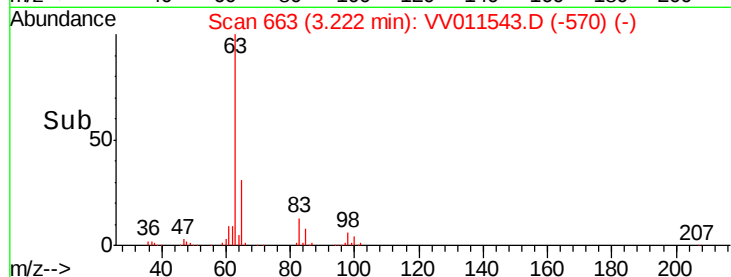
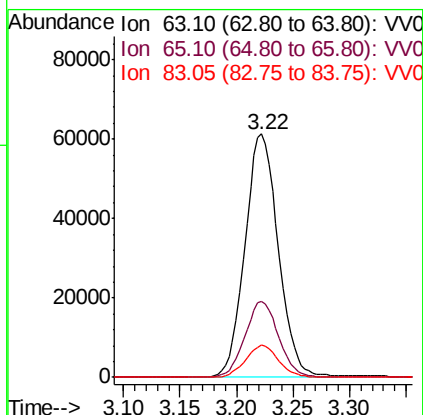
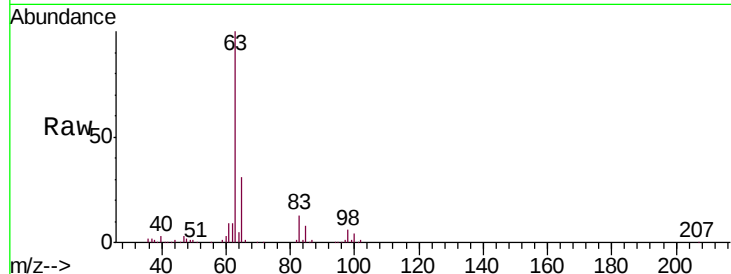




#19
 1,1-Dichloroethane
 Concen: 5.169 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

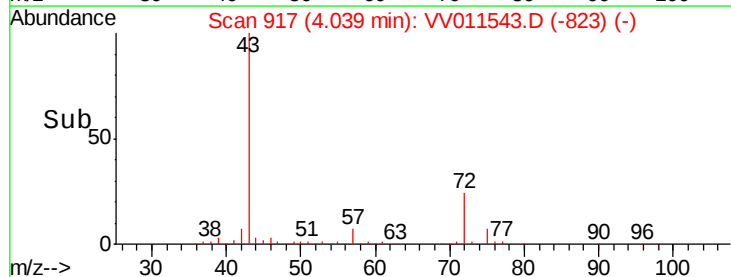
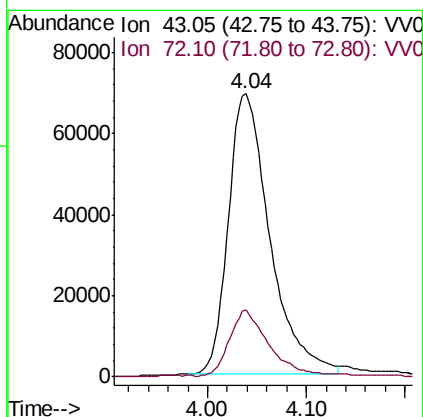
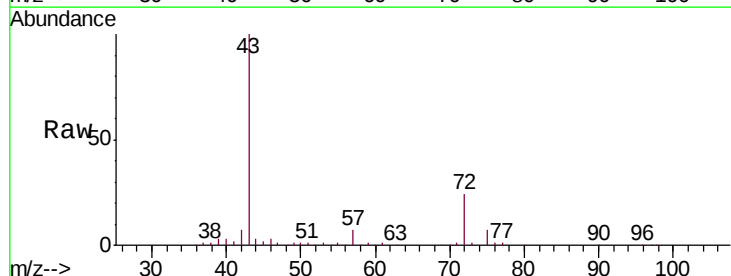
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

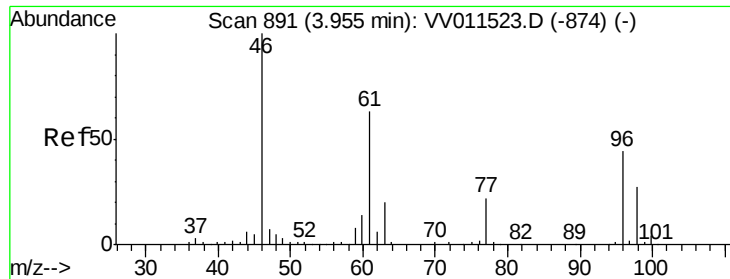
Tgt Ion: 63 Resp: 126082
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.5 41.9
 83 13.3 10.1 18.9



#21
 2-Butanone
 Concen: 53.574 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 43 Resp: 203481
 Ion Ratio Lower Upper
 43 100
 72 22.5 11.8 35.4



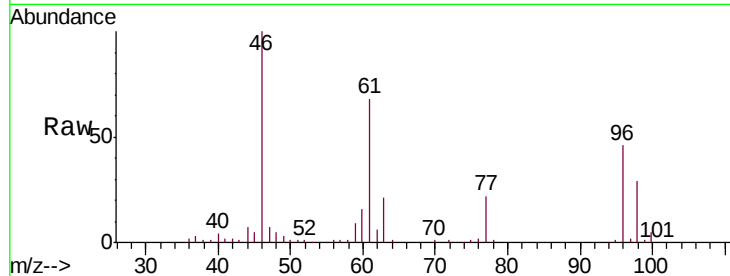


#22

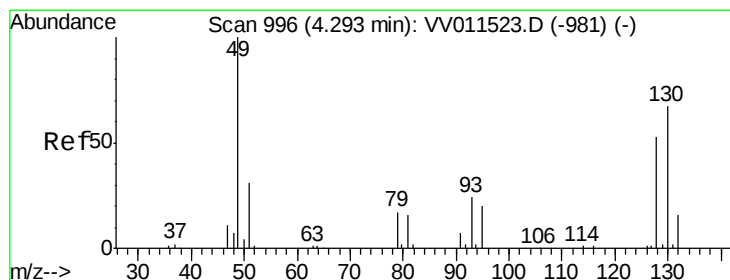
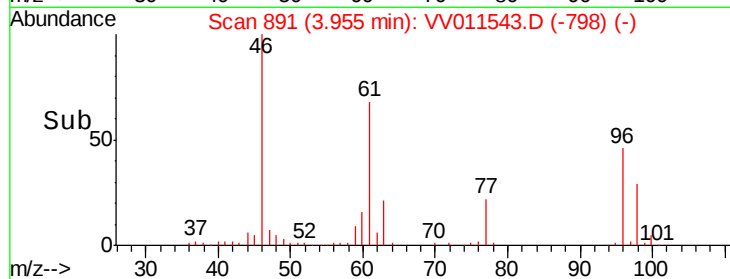
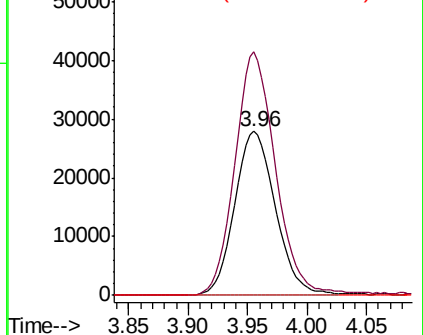
cis-1,2-Dichloroethene
 Concen: 4.968 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00556

Tgt Ion: 96 Resp: 66361
 Ion Ratio Lower Upper
 96 100
 61 148.7 102.2 189.8
 68 0.0 0.0 0.0



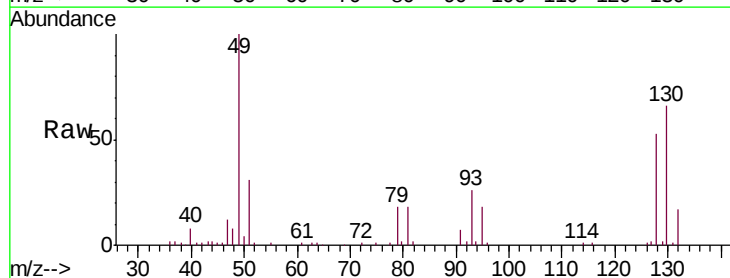
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



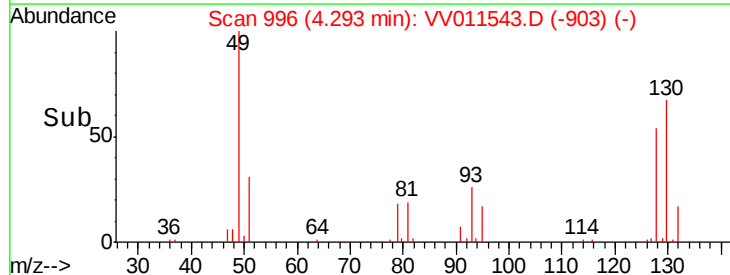
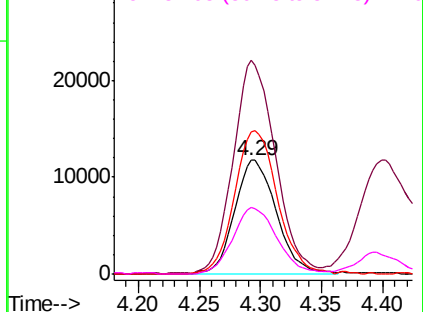
#23

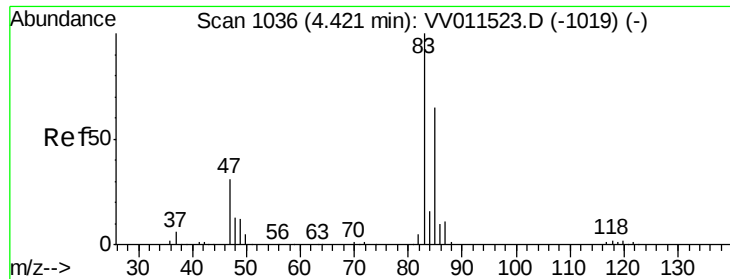
Bromochloromethane
 Concen: 5.317 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 128 Resp: 27914
 Ion Ratio Lower Upper
 128 100
 49 187.7 136.2 253.0
 130 124.7 91.3 169.5
 51 58.4 47.4 71.0



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

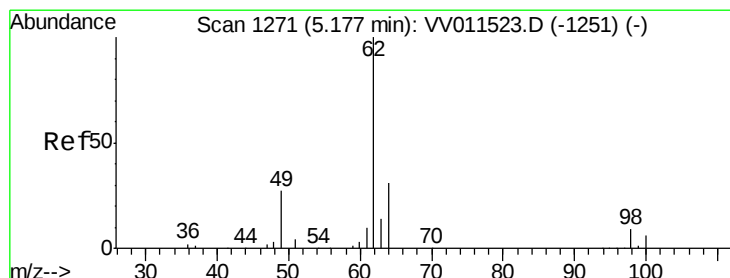
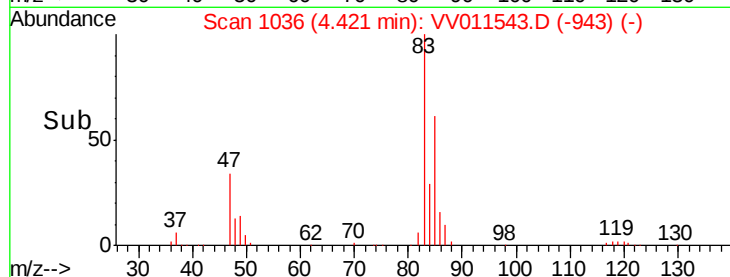
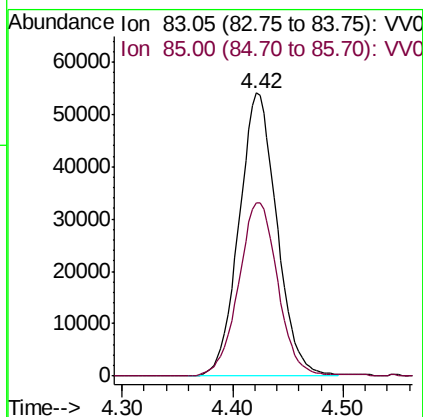
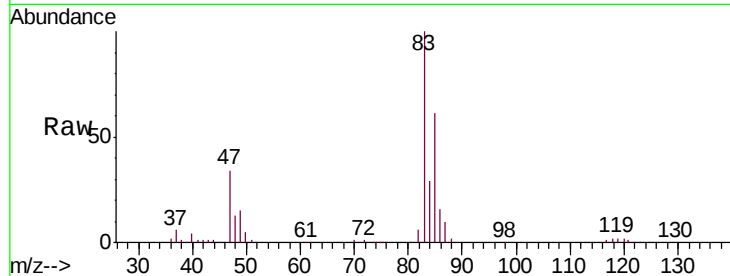




#25
Chloroform
Concen: 5.250 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

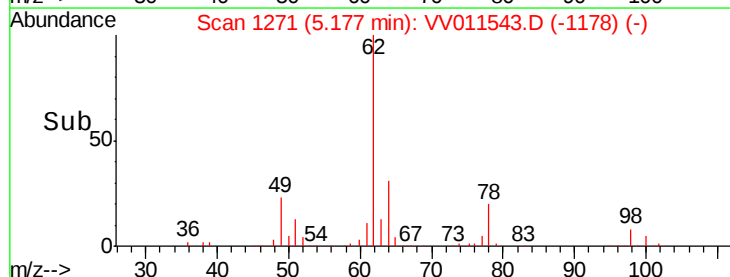
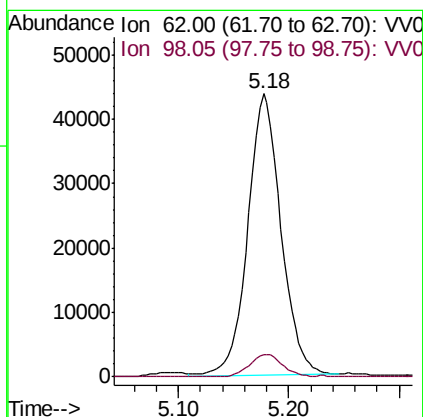
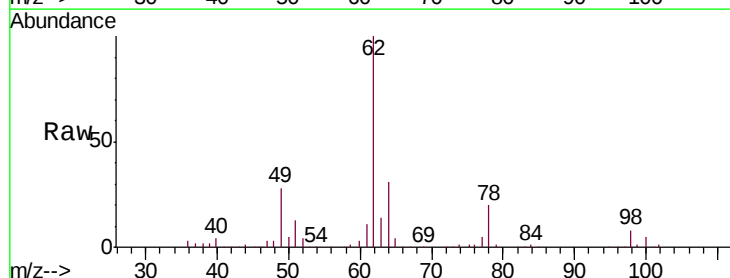
Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

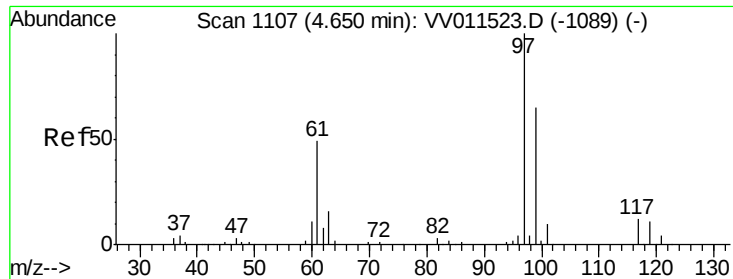
Tgt Ion: 83 Resp: 128502
Ion Ratio Lower Upper
83 100
85 61.4 44.6 82.8



#27
1,2-Dichloroethane
Concen: 5.286 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Tgt Ion: 62 Resp: 91199
Ion Ratio Lower Upper
62 100
98 7.8 6.5 9.7

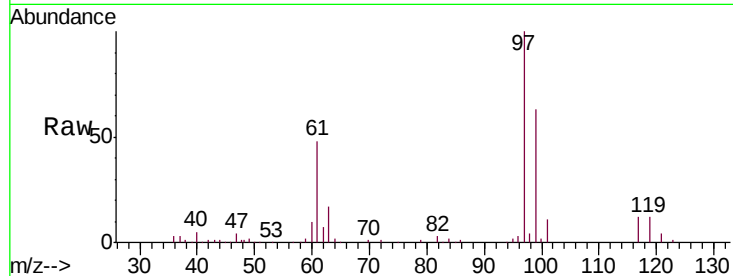




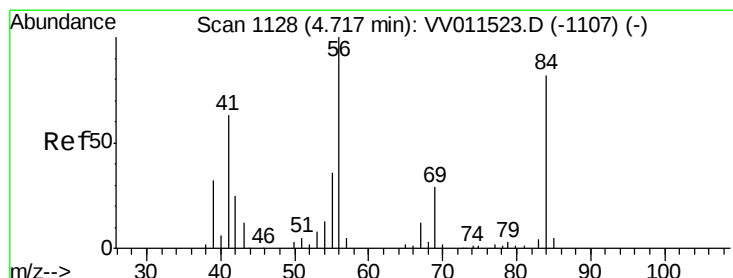
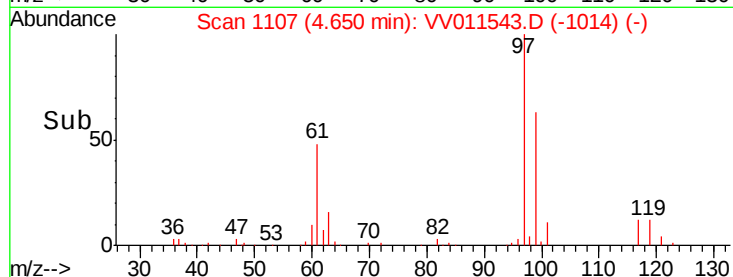
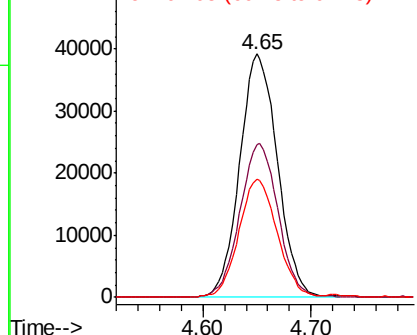
#29
 1,1,1-Trichloroethane
 Concen: 5.135 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

Tgt Ion: 97 Resp: 95525
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.6 77.4
 61 49.4 40.4 60.6

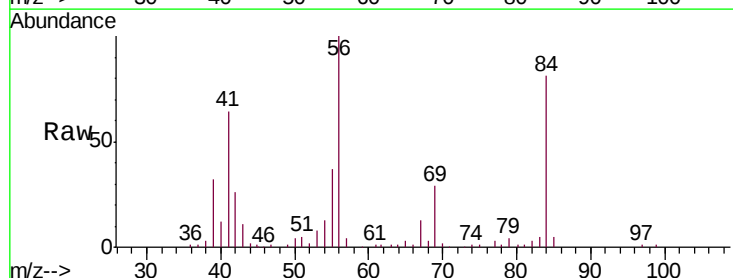


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

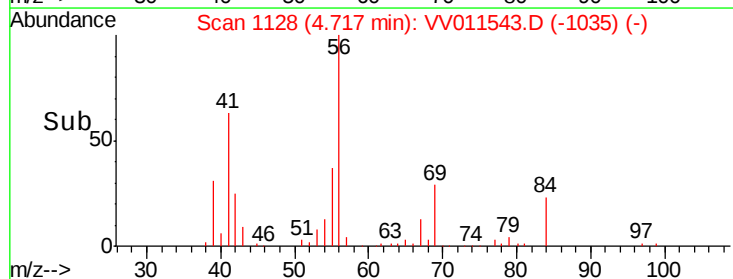
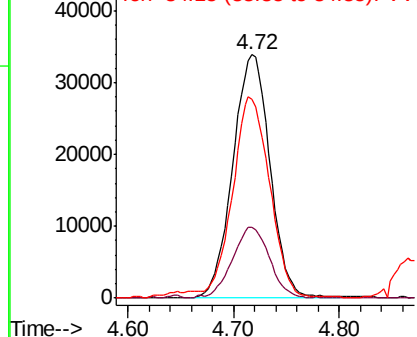


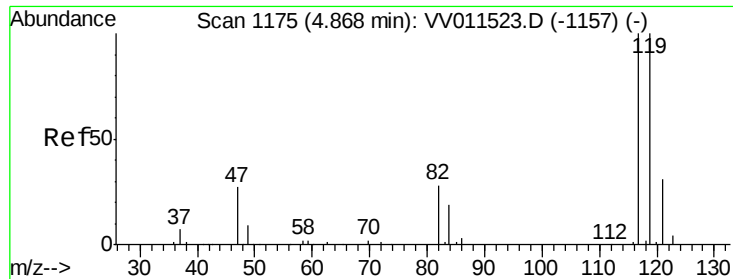
#30
 Cyclohexane
 Concen: 4.324 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 56 Resp: 83101
 Ion Ratio Lower Upper
 56 100
 69 29.1 24.1 36.1
 84 81.2 66.8 100.2



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.781 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

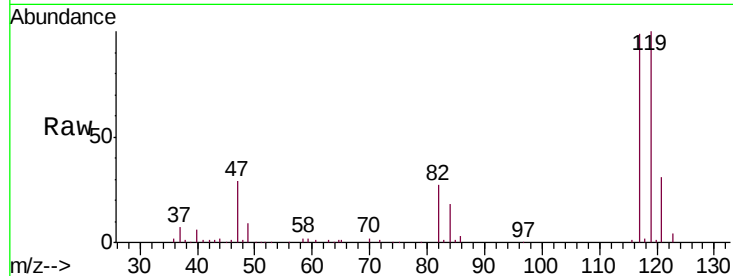
VSTD00556

Tgt Ion:117 Resp: 71980

Ion Ratio Lower Upper

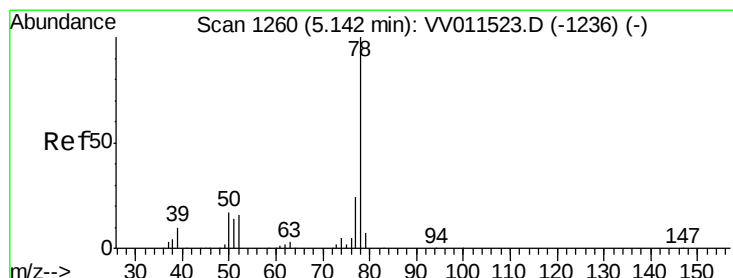
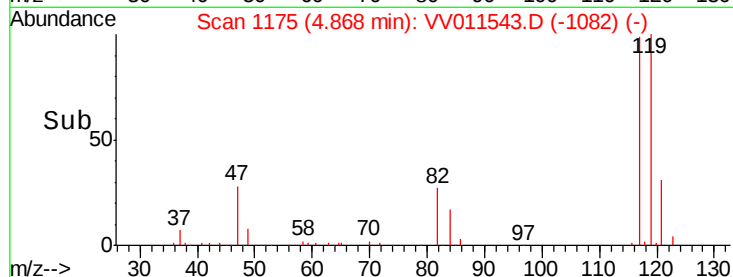
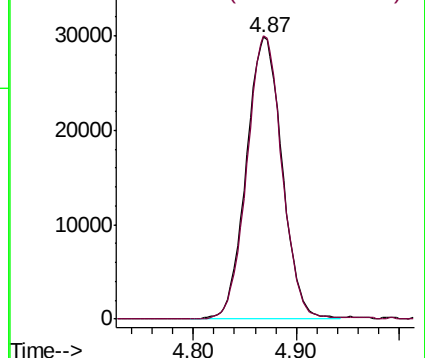
117 100

119 98.1 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.351 ug/L

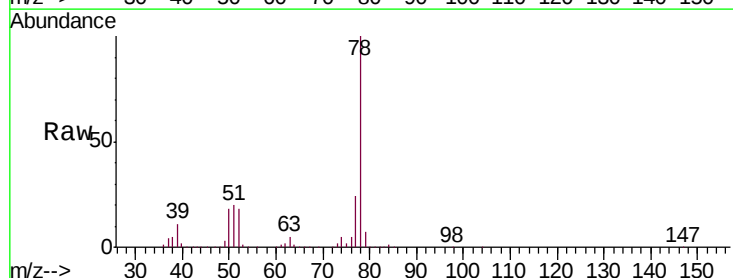
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

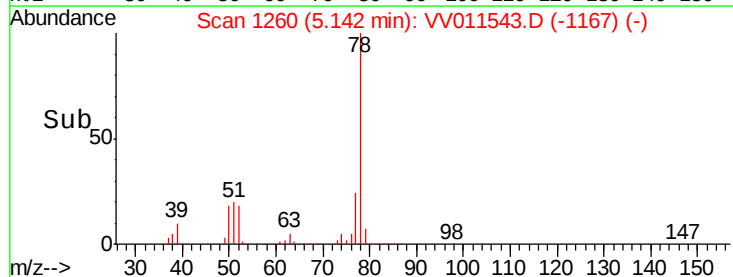
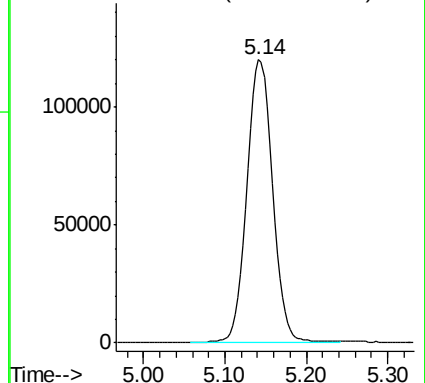
Lab File: VV011543.D

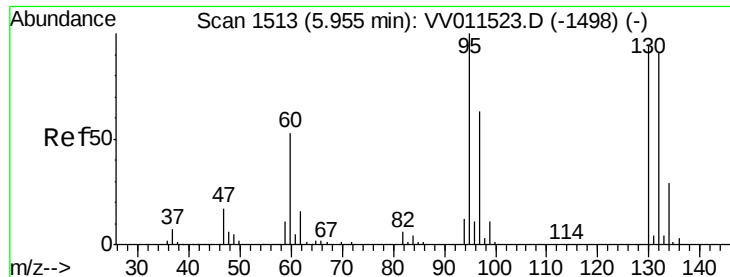
Acq: 15 Jun 2019 16:59

Tgt Ion: 78 Resp: 261321



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.047 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

Tgt Ion: 95 Resp: 62852

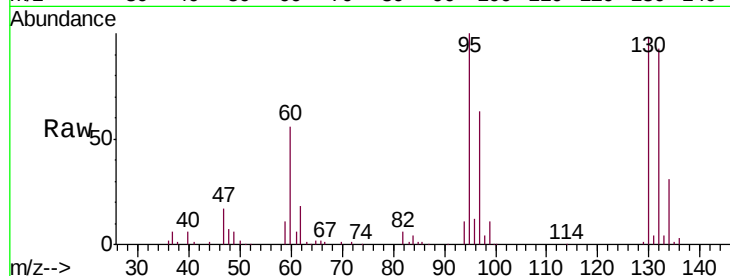
Ion Ratio Lower Upper

95 100

97 63.0 44.4 82.4

132 93.5 63.5 117.9

130 98.3 68.5 127.3

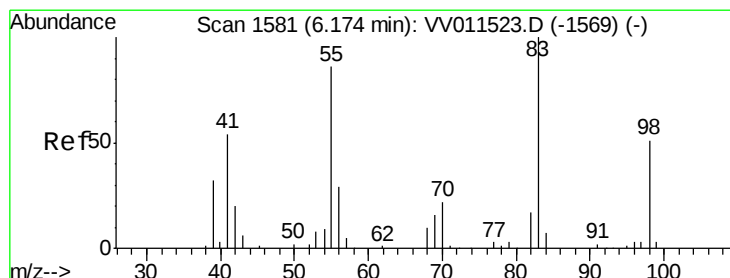
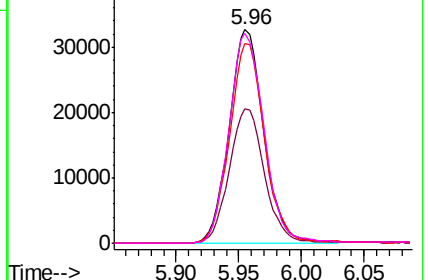
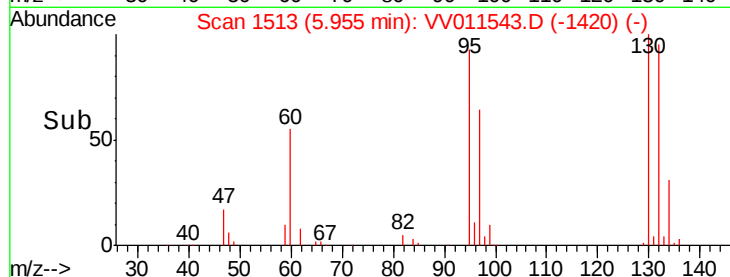


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 4.318 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

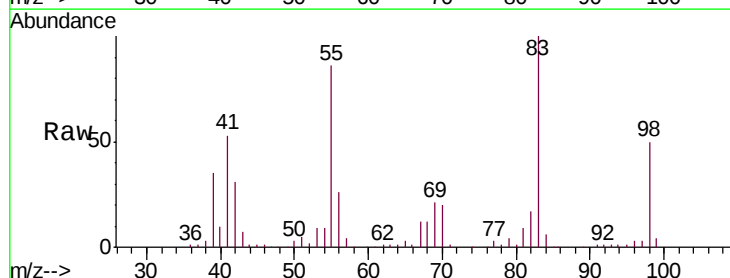
Tgt Ion: 83 Resp: 76674

Ion Ratio Lower Upper

83 100

55 85.3 67.9 101.9

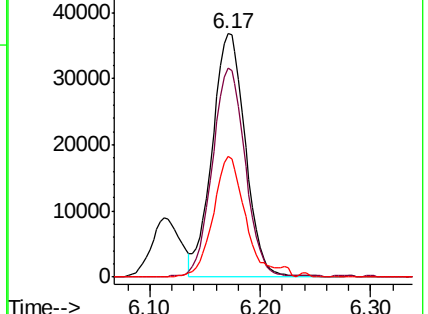
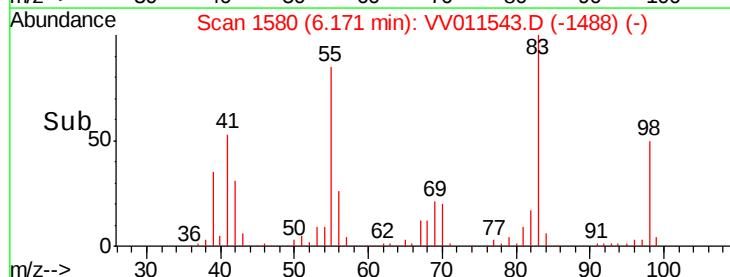
98 47.6 39.6 59.4

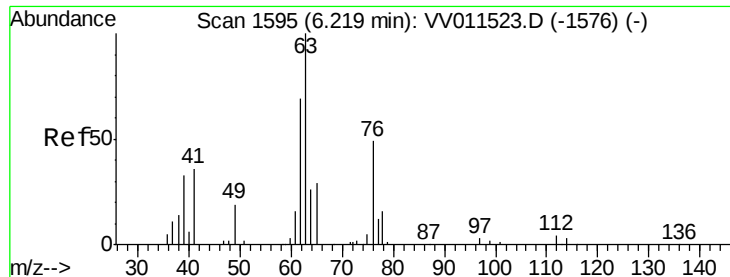


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

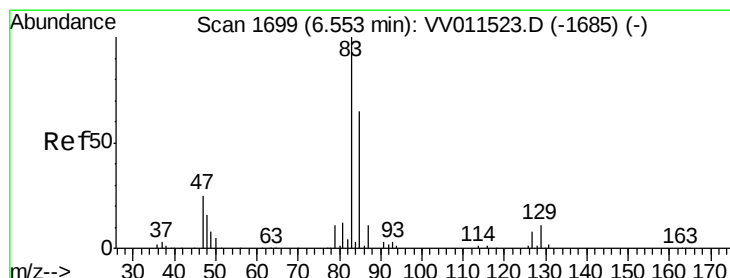
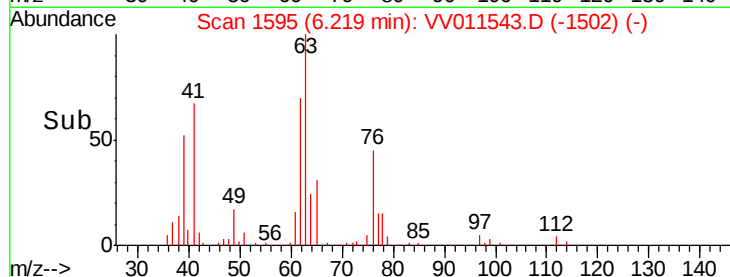
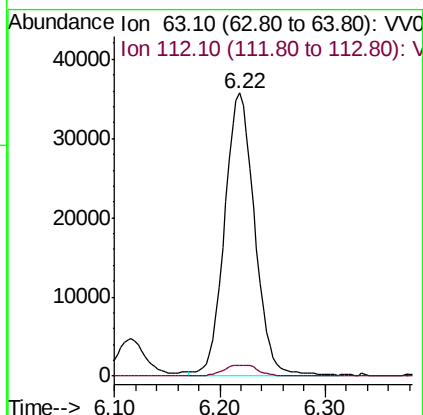
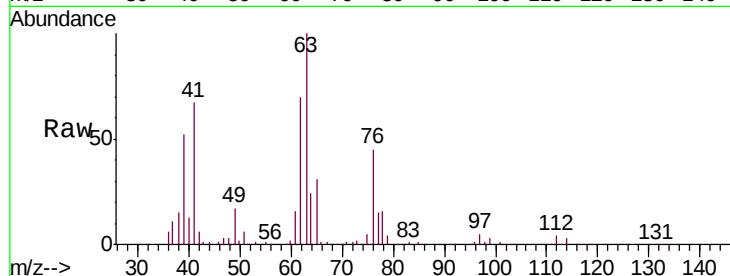




#37
 1,2-Dichloropropane
 Concen: 5.456 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

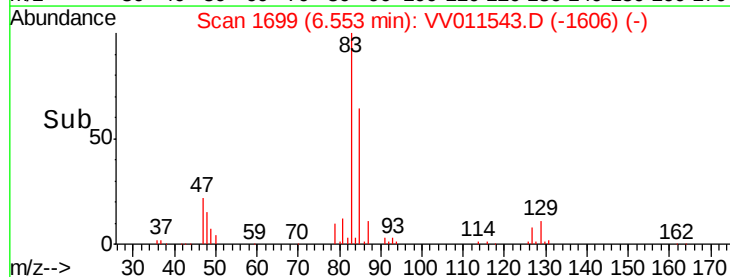
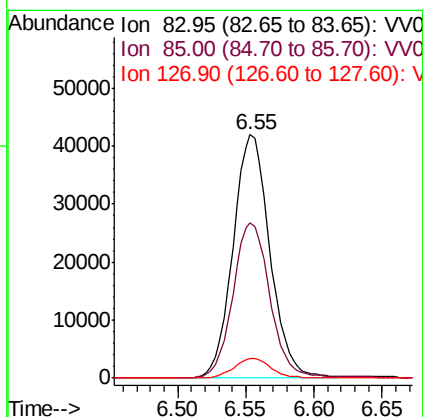
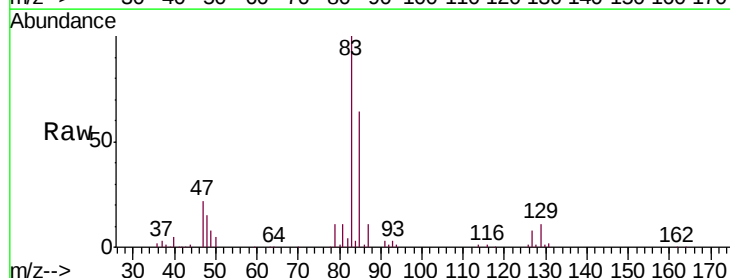
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

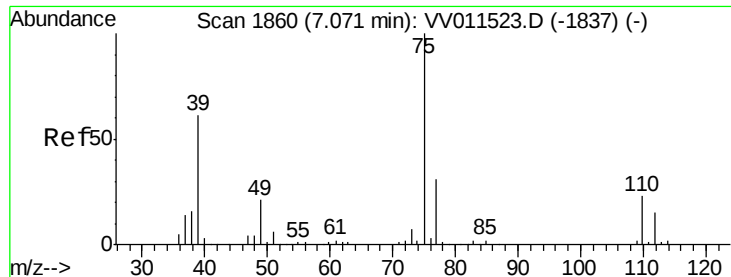
Tgt Ion: 63 Resp: 70921
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.7 5.5



#38
 Bromodichloromethane
 Concen: 5.327 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 83 Resp: 78667
 Ion Ratio Lower Upper
 83 100
 85 63.8 44.7 83.1
 127 7.9 6.2 9.4

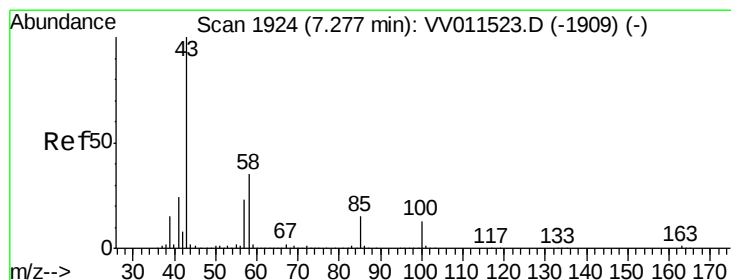
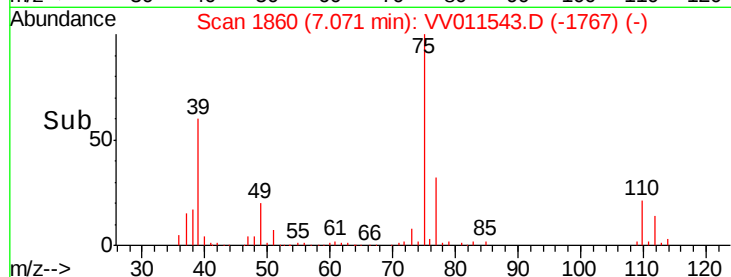
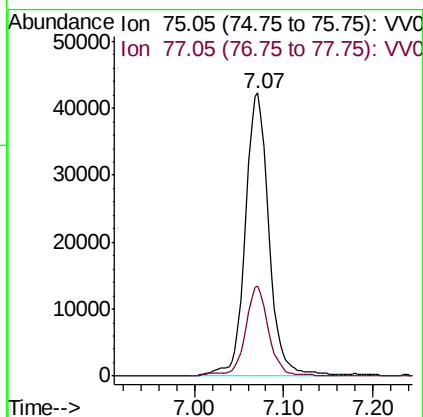
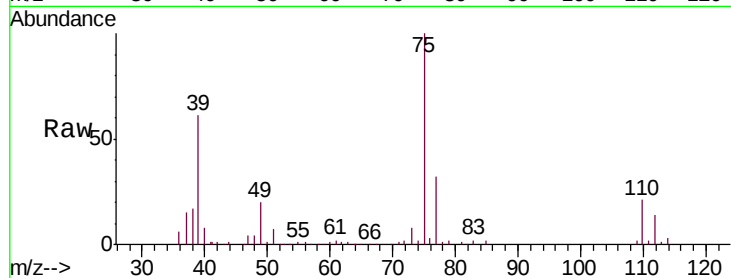




#39
 cis-1,3-Dichloropropene
 Concen: 4.804 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

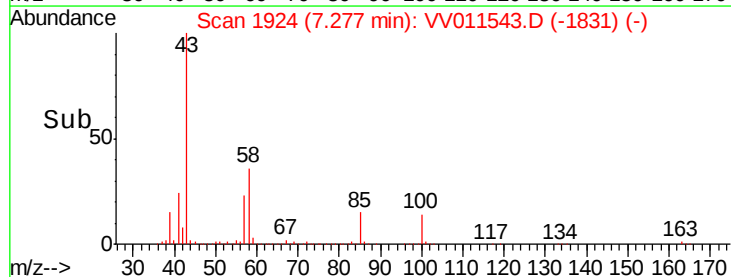
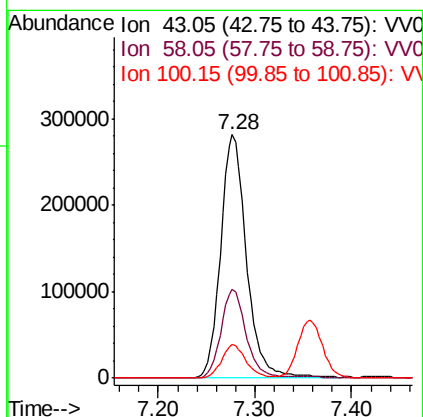
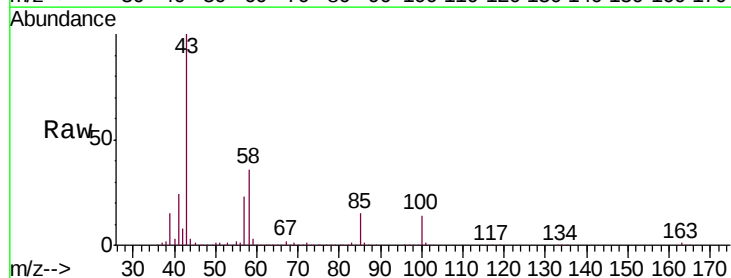
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

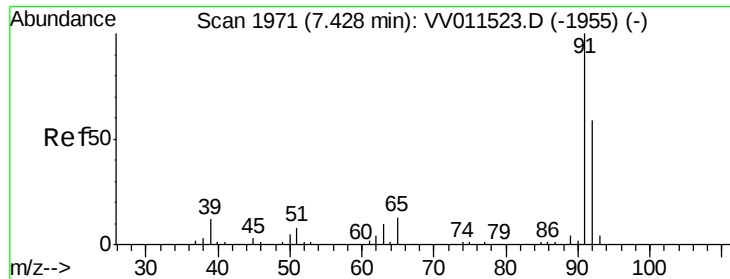
Tgt Ion: 75 Resp: 78601
 Ion Ratio Lower Upper
 75 100
 77 31.8 20.6 38.4



#40
 4-Methyl-2-pentanone
 Concen: 56.277 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 43 Resp: 521506
 Ion Ratio Lower Upper
 43 100
 58 35.4 28.7 43.1
 100 13.0 10.6 15.8





#42

Toluene

Concen: 5.077 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

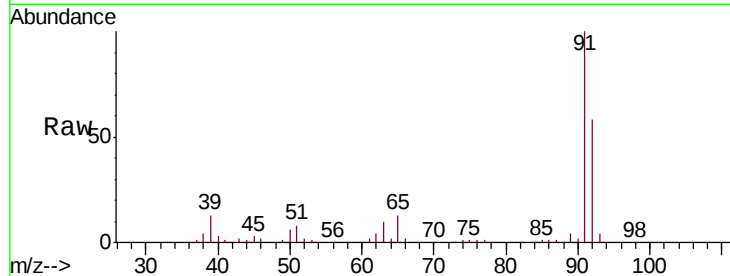
VSTD00556

Tgt Ion: 91 Resp: 256923

Ion Ratio Lower Upper

91 100

92 57.9 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV011543.D (-1955) (-)

Ion 92.15 (91.85 to 92.85): VV011543.D (-1955) (-)

7.43

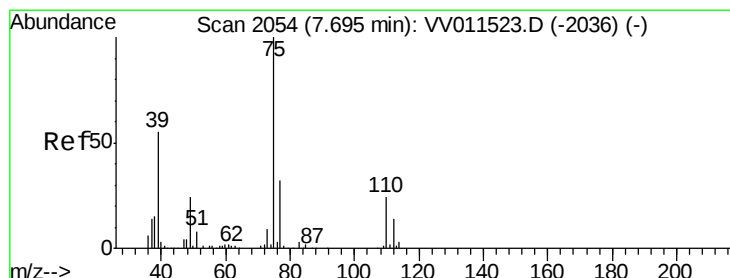
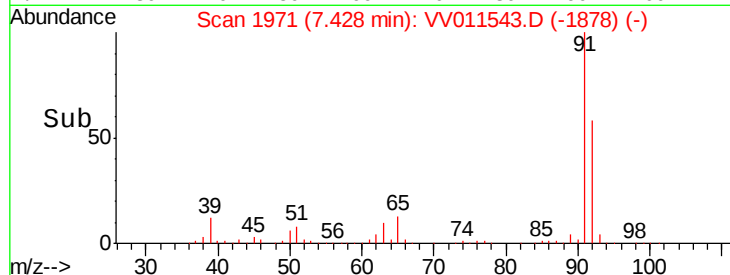
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.759 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011543.D

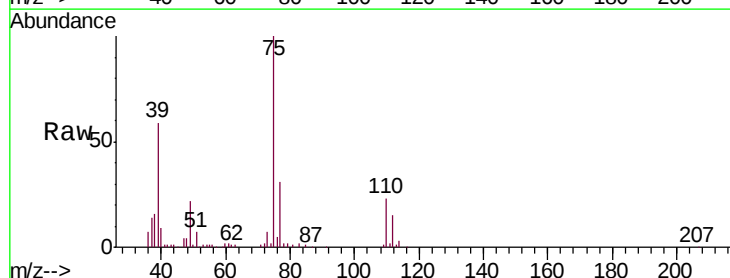
Acq: 15 Jun 2019 16:59

Tgt Ion: 75 Resp: 59569

Ion Ratio Lower Upper

75 100

77 31.1 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV011543.D (-2036) (-)

Ion 77.05 (76.75 to 77.75): VV011543.D (-2036) (-)

7.69

40000

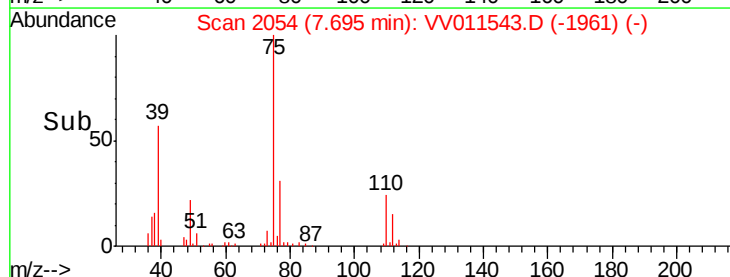
30000

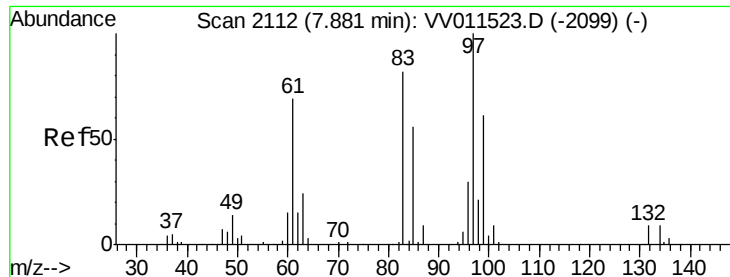
20000

10000

0

Time-->

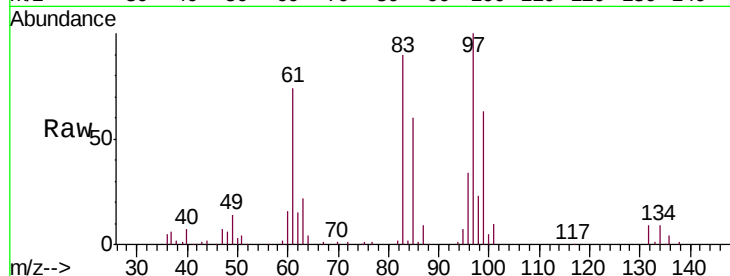




#45
1,1,2-Trichloroethane
Concen: 5.418 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Tgt Ion:	97	Resp:	47019
Ion	Ratio	Lower	Upper
97	100		
99	63.3	45.4	84.4
83	89.6	60.6	112.6
85	59.5	38.6	71.6



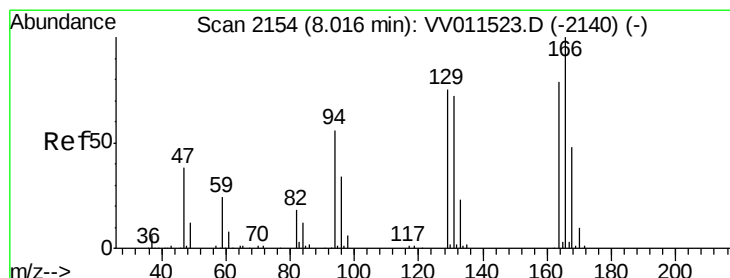
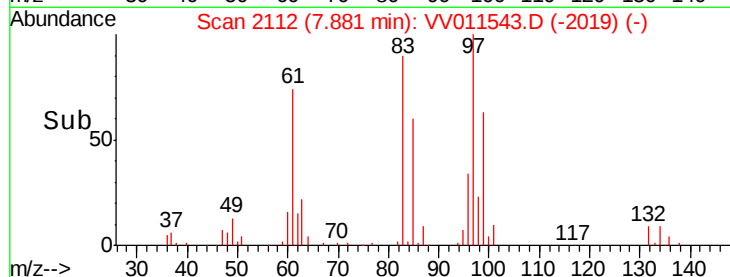
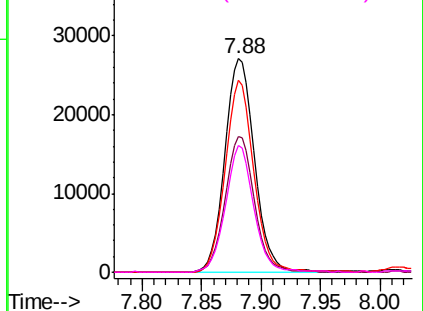
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

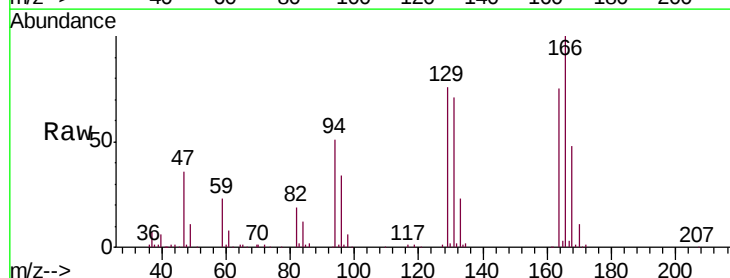
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
Tetrachloroethene
Concen: 4.479 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Tgt Ion:	164	Resp:	39775
Ion	Ratio	Lower	Upper
164	100		
129	100.9	68.8	127.8
131	94.7	63.2	117.4
166	132.7	87.0	161.6



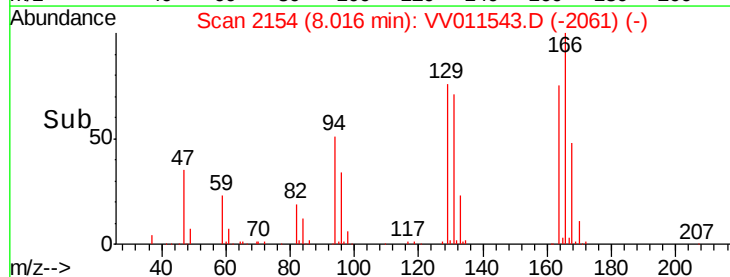
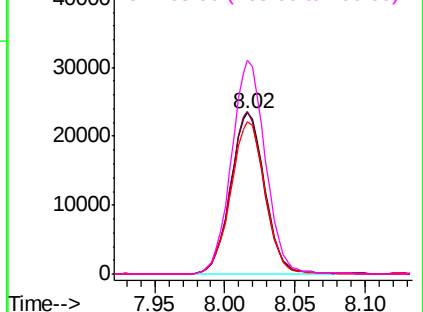
Abundance

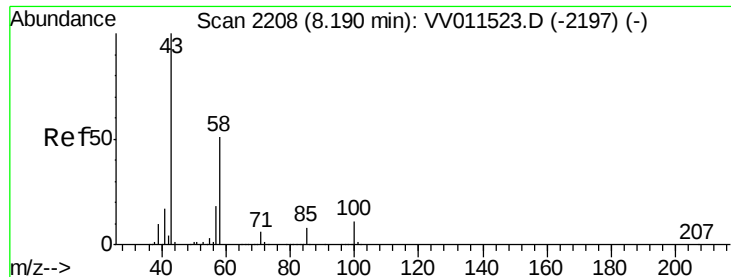
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

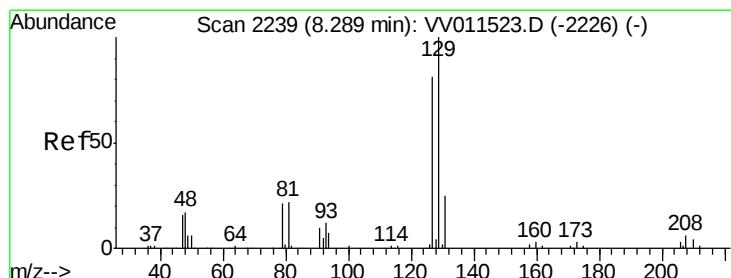
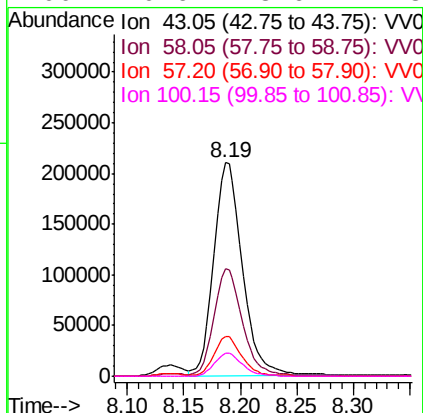
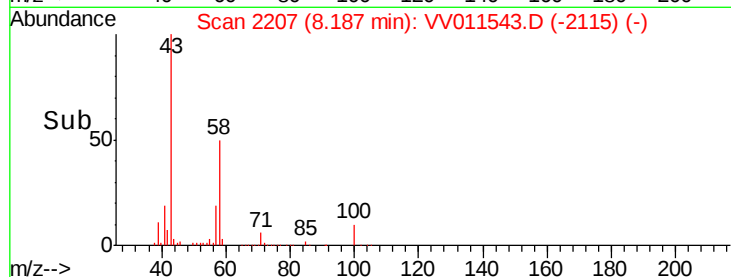
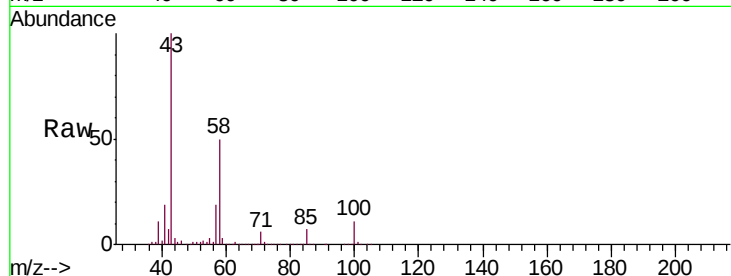




#48
2-Hexanone
Concen: 56.692 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

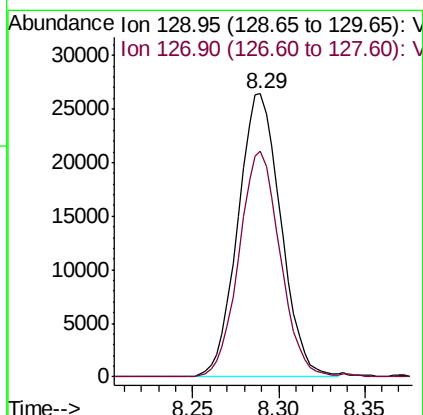
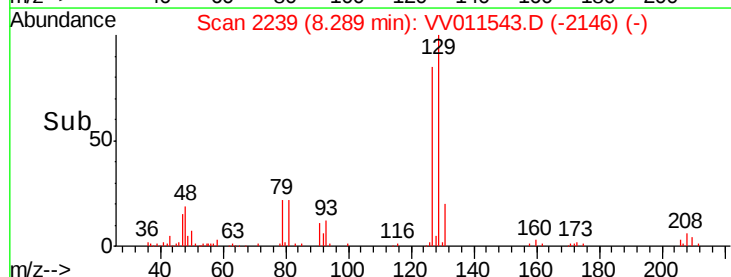
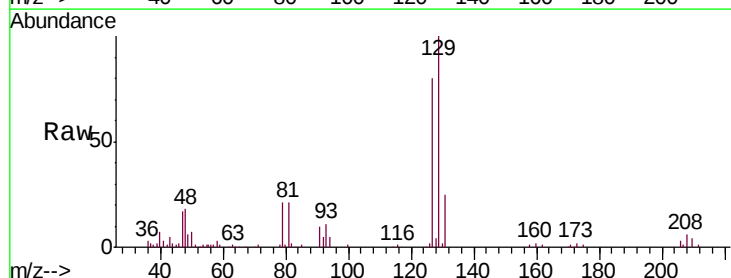
Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

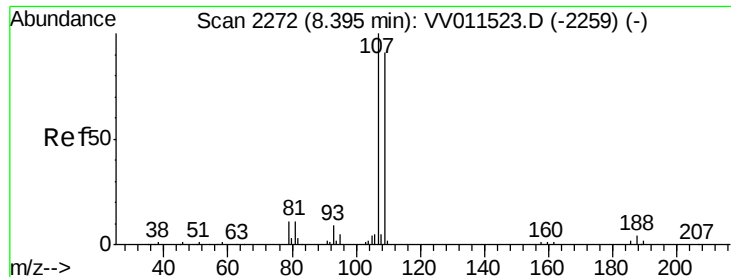
Tgt Ion:	43	Resp:	369315
Ion	Ratio	Lower	Upper
43	100		
58	49.9	40.6	60.8
57	18.6	14.2	21.4
100	10.6	8.6	12.8



#49
Dibromochloromethane
Concen: 5.245 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Tgt Ion:	129	Resp:	45729
Ion	Ratio	Lower	Upper
129	100		
127	79.7	52.6	97.6

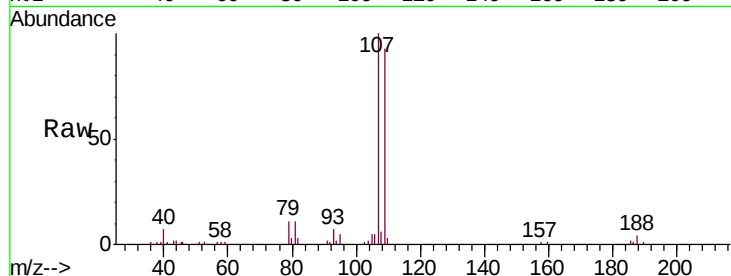




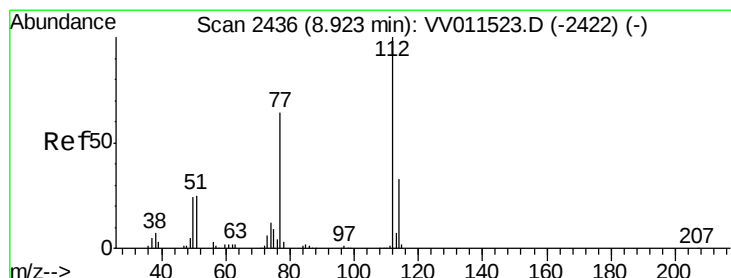
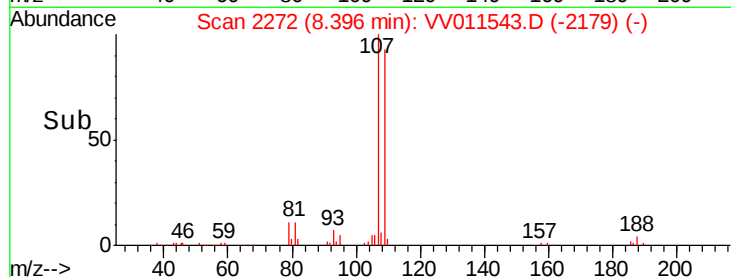
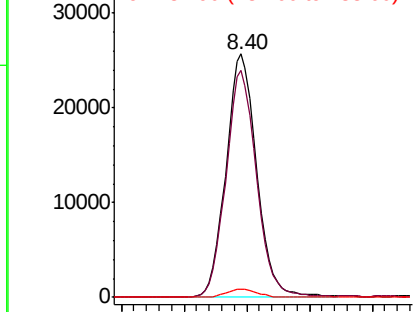
#50
1,2-Dibromoethane
Concen: 5.549 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Tgt Ion:107 Resp: 43545
Ion Ratio Lower Upper
107 100
109 93.2 65.7 121.9
188 3.5 2.9 4.3

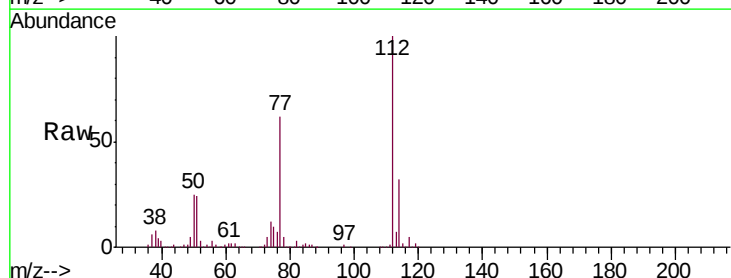


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

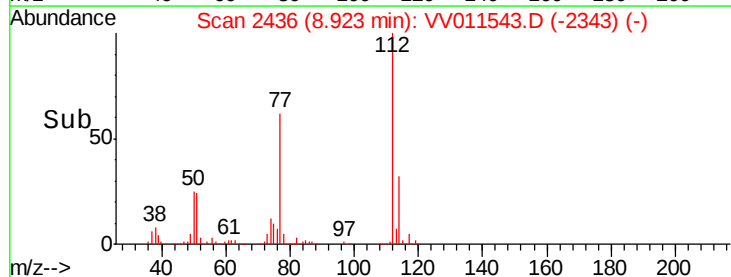
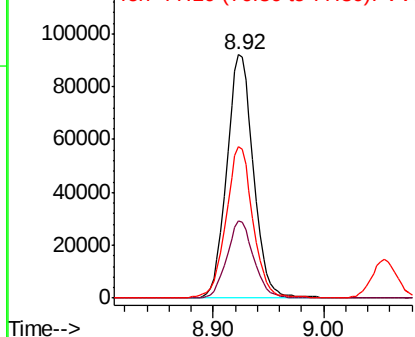


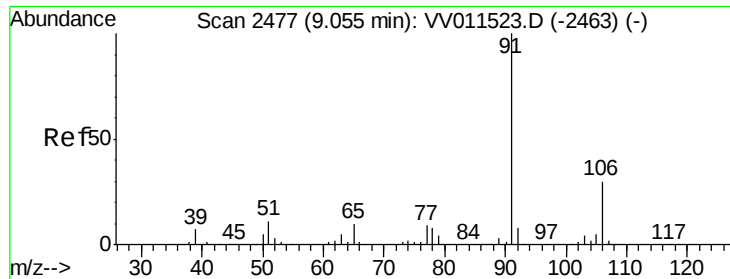
#51
Chlorobenzene
Concen: 4.961 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Tgt Ion:112 Resp: 154196
Ion Ratio Lower Upper
112 100
114 31.6 21.9 40.7
77 62.5 49.3 73.9



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.705 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

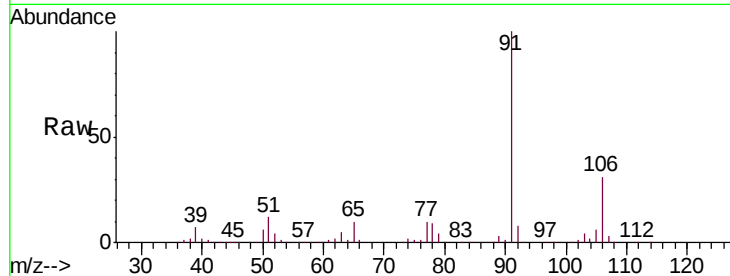
VSTD00556

Tgt Ion: 91 Resp: 250107

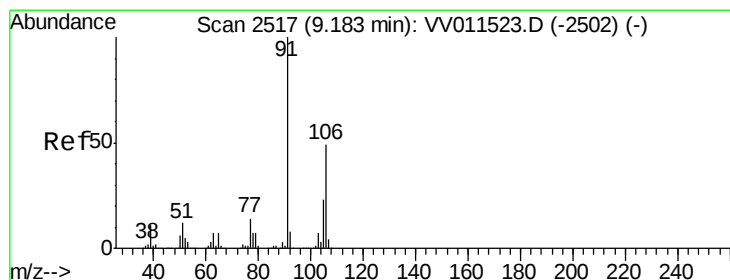
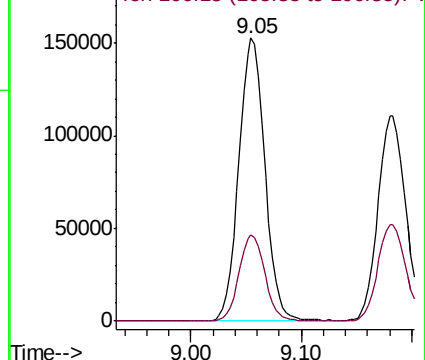
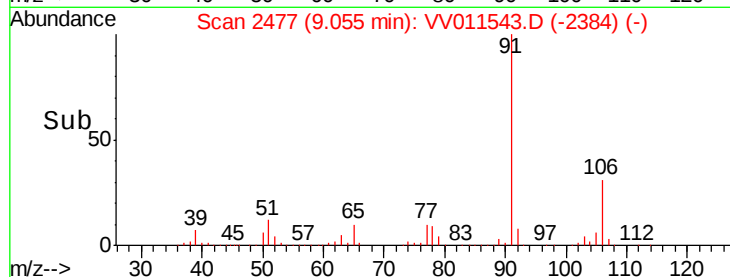
Ion Ratio Lower Upper

91 100

106 30.6 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VV011543.D (-2384) (-)



#53

m,p-xylene

Concen: 4.725 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011543.D

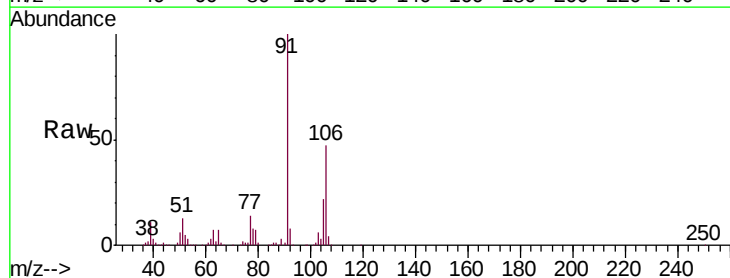
Acq: 15 Jun 2019 16:59

Tgt Ion: 106 Resp: 91906

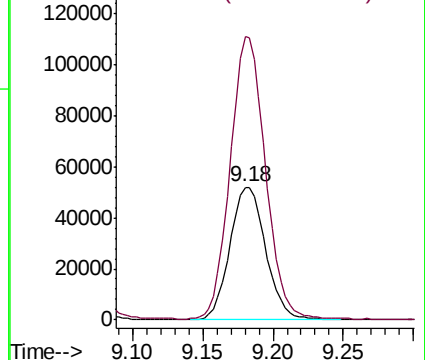
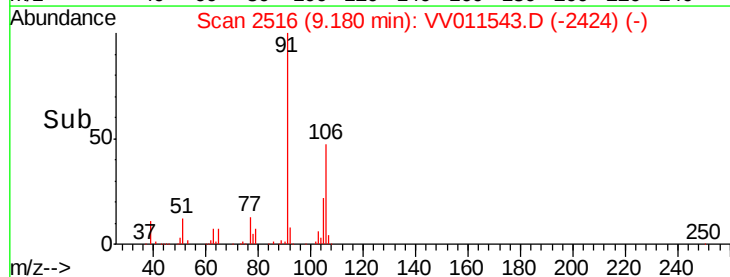
Ion Ratio Lower Upper

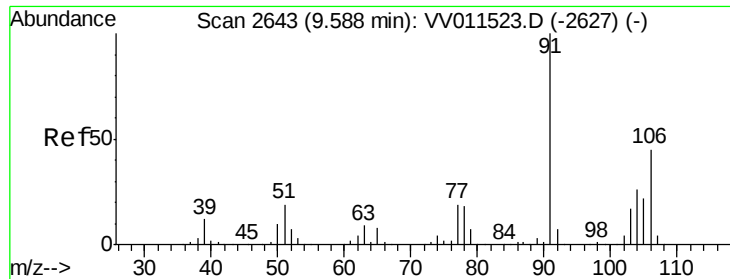
106 100

91 213.2 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV011543.D (-2424) (-)

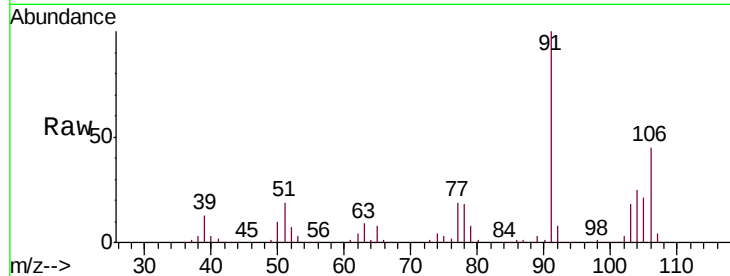




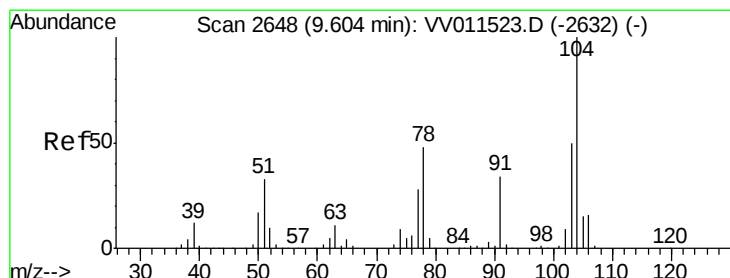
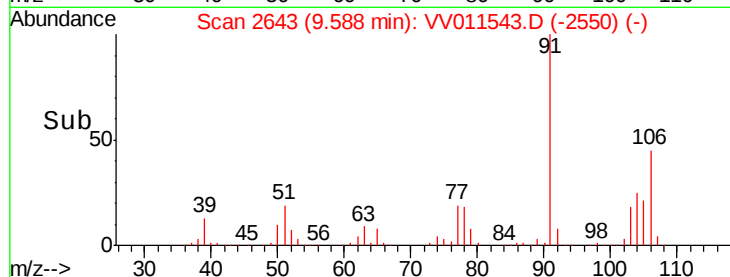
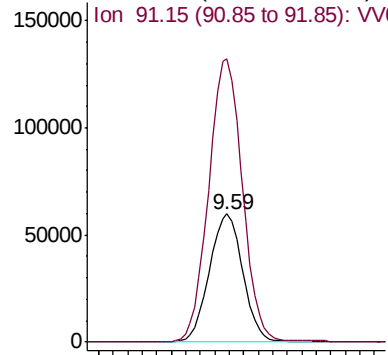
#54
o-xylene
Concen: 4.935 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Tgt Ion:106 Resp: 96421
Ion Ratio Lower Upper
106 100
91 220.5 158.8 294.8

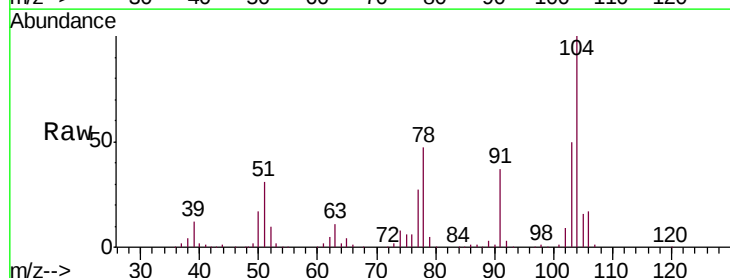


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

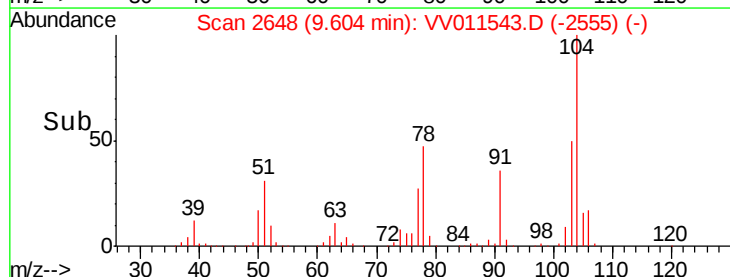
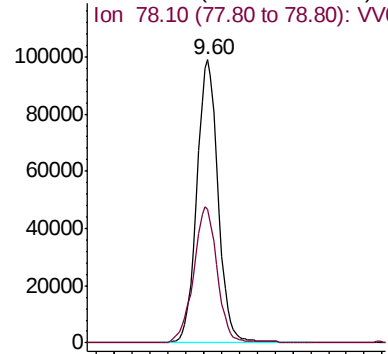


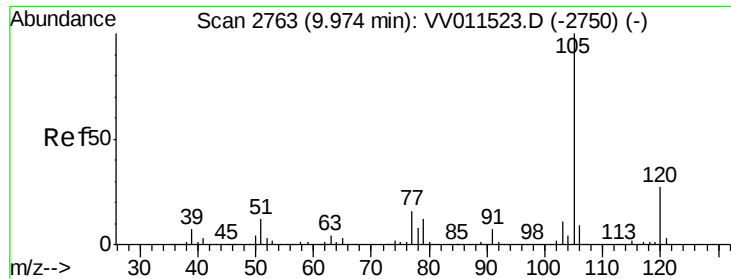
#55
Styrene
Concen: 5.048 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV011543.D
Acq: 15 Jun 2019 16:59

Tgt Ion:104 Resp: 163600
Ion Ratio Lower Upper
104 100
78 47.3 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.547 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

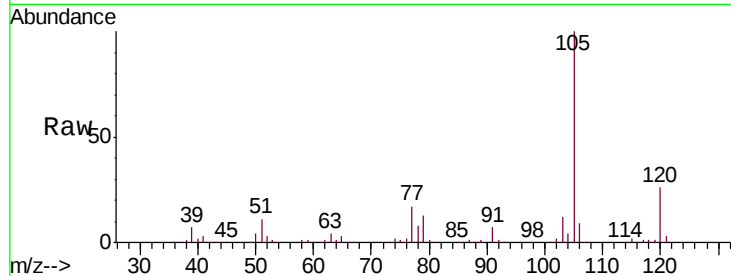
Tgt Ion: 105 Resp: 226078

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

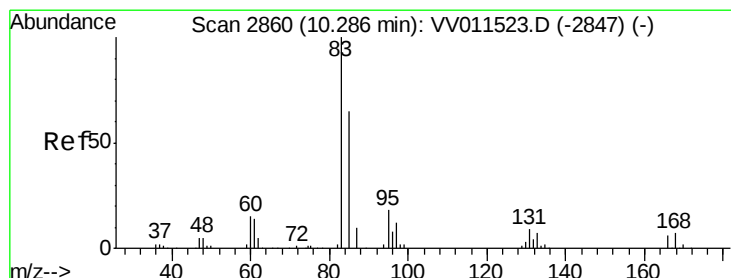
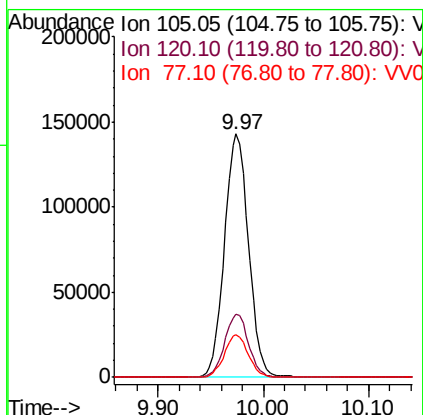
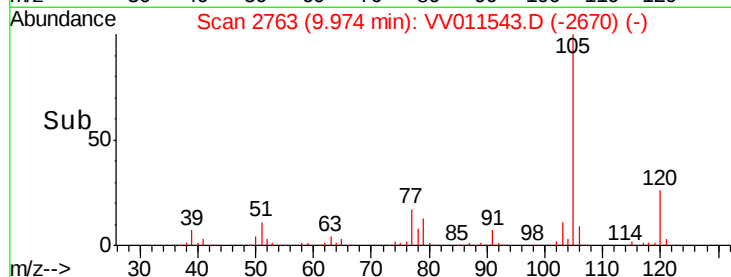
77 17.4 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.073 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

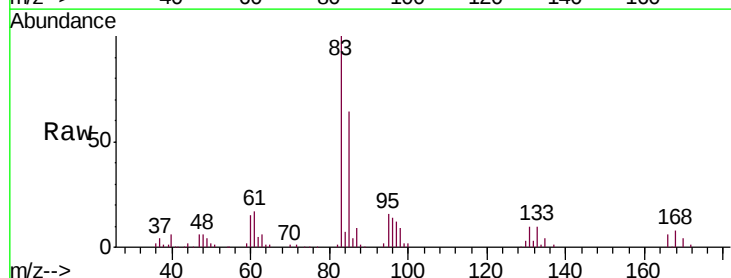
Tgt Ion: 83 Resp: 53824

Ion Ratio Lower Upper

83 100

85 64.2 45.6 84.8

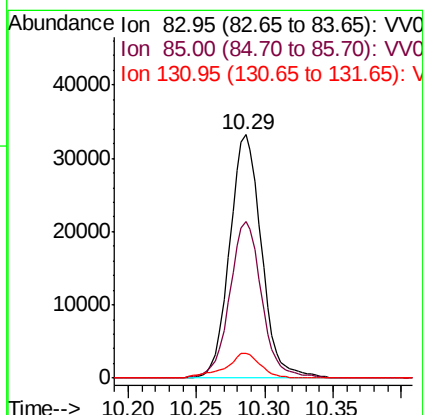
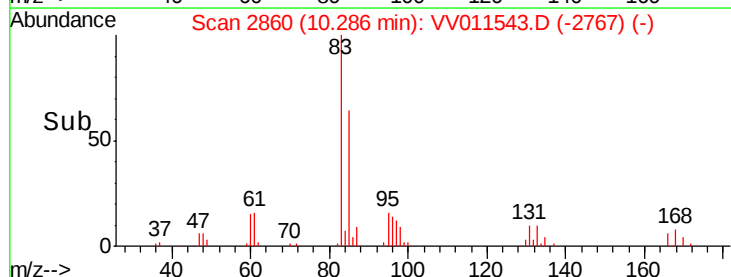
131 10.2 7.9 11.9

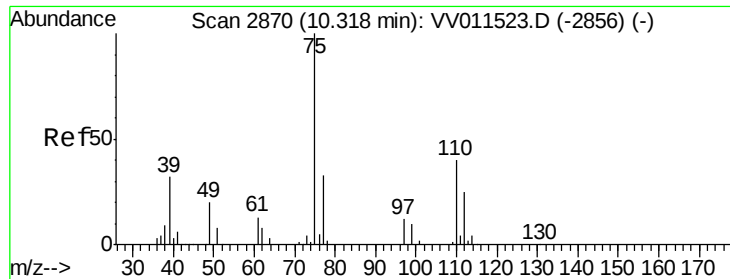


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

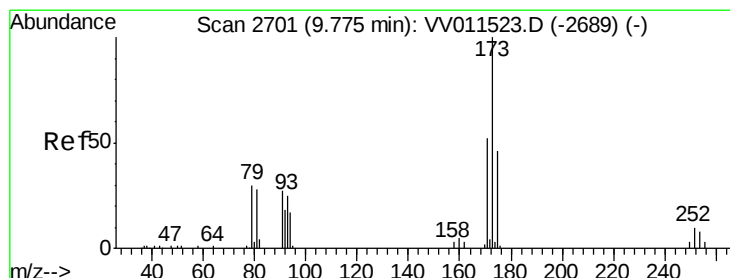
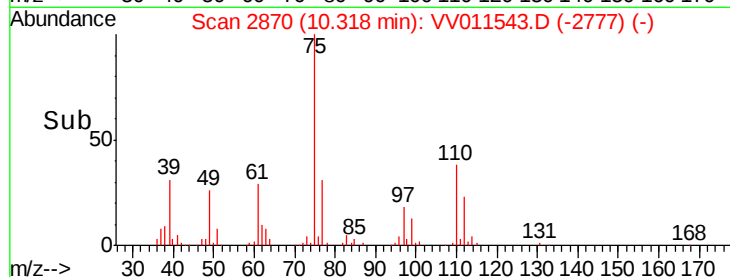
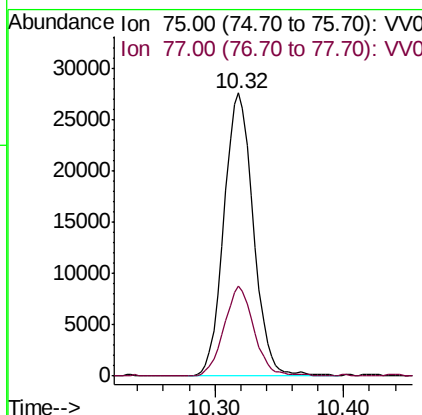
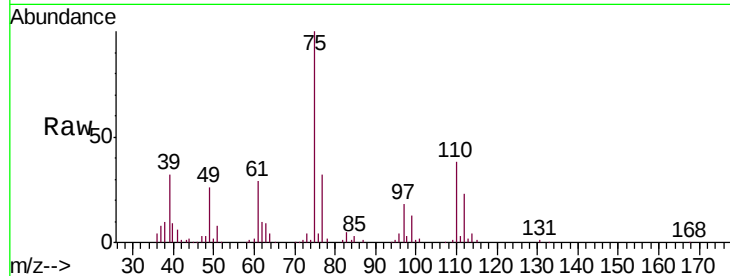




#59
 1,2,3-Trichloropropane
 Concen: 5.395 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

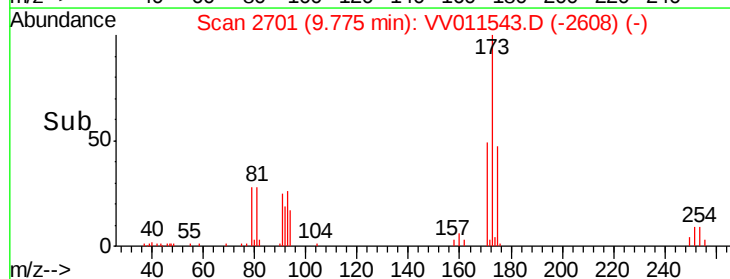
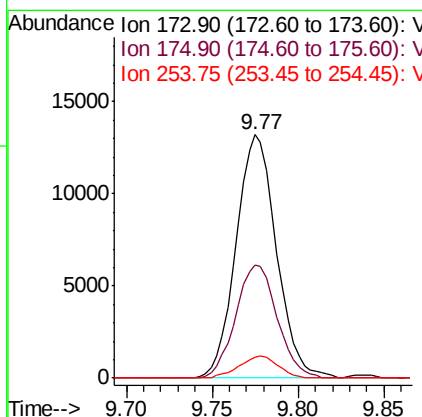
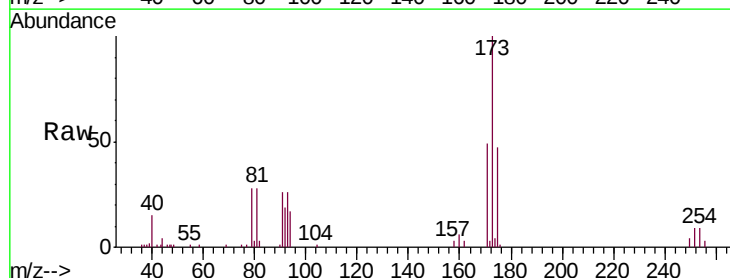
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

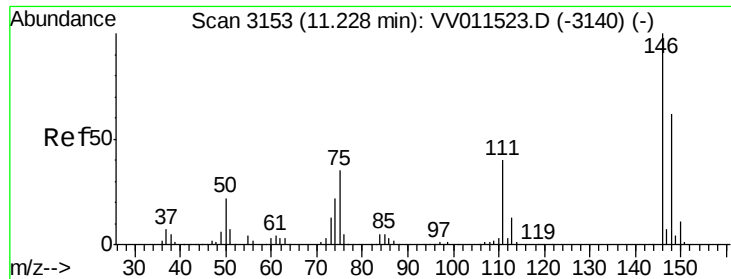
Tgt Ion: 75 Resp: 43789
 Ion Ratio Lower Upper
 75 100
 77 32.2 26.0 39.0



#61
 Bromoform
 Concen: 5.420 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion: 173 Resp: 21560
 Ion Ratio Lower Upper
 173 100
 175 47.8 38.3 57.5
 254 8.8 7.9 11.9





#62

1,3-Dichlorobenzene

Concen: 4.999 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

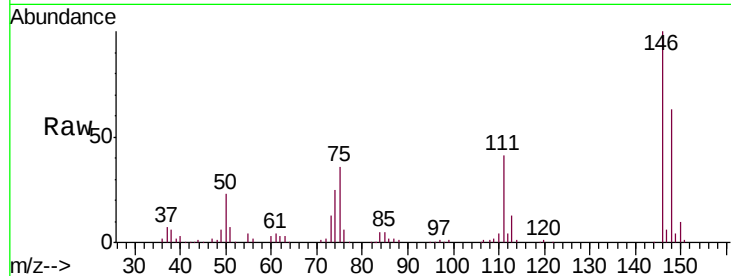
Tgt Ion:146 Resp: 101137

Ion Ratio Lower Upper

146 100

111 40.8 29.2 54.2

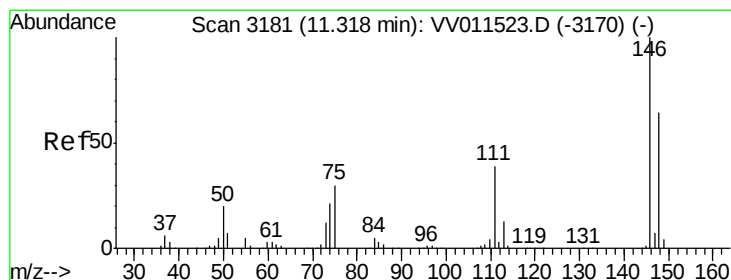
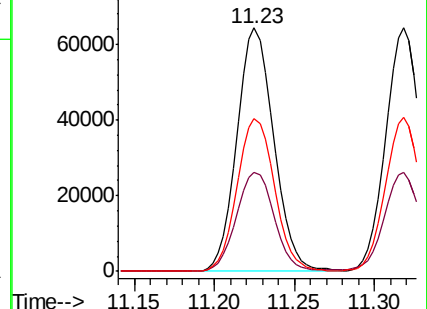
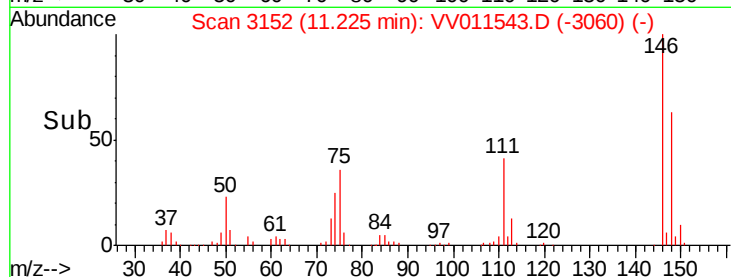
148 62.9 44.3 82.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.919 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

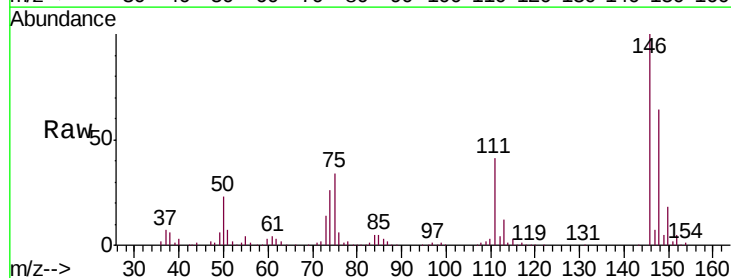
Tgt Ion:146 Resp: 101381

Ion Ratio Lower Upper

146 100

111 40.5 26.7 49.7

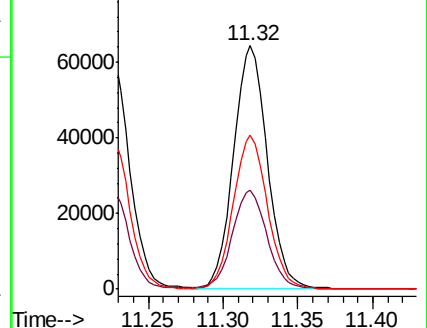
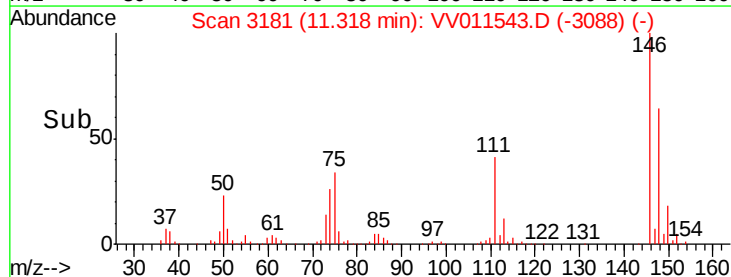
148 63.5 44.2 82.2

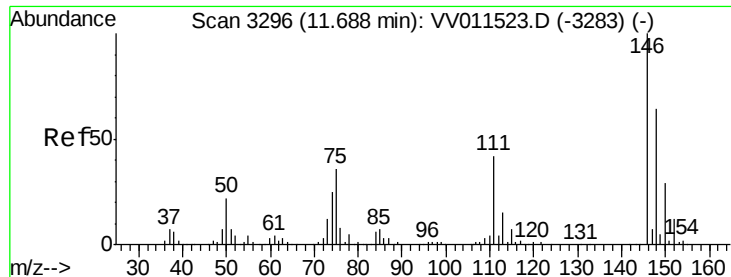


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.279 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

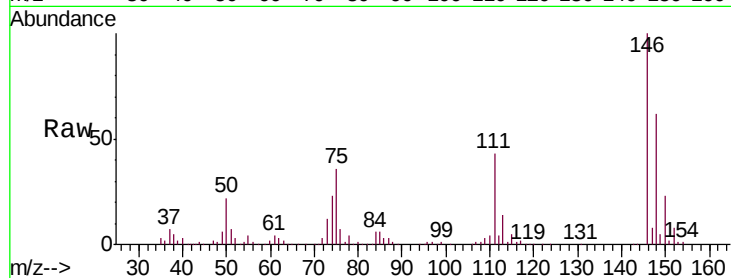
Tgt Ion: 146 Resp: 107491

Ion Ratio Lower Upper

146 100

111 42.5 35.3 52.9

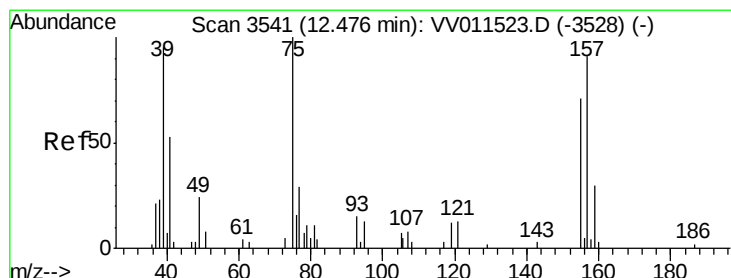
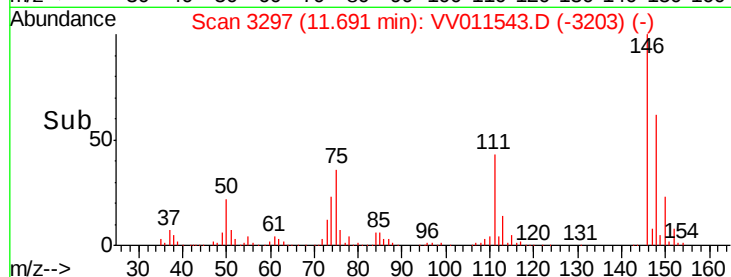
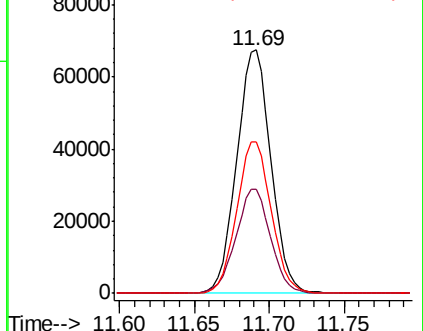
148 62.2 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.693 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

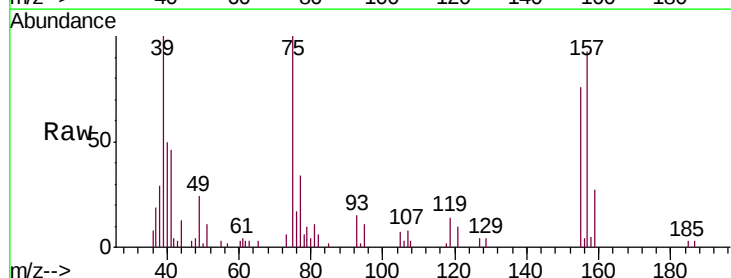
Tgt Ion: 75 Resp: 6940

Ion Ratio Lower Upper

75 100

155 76.4 58.5 87.7

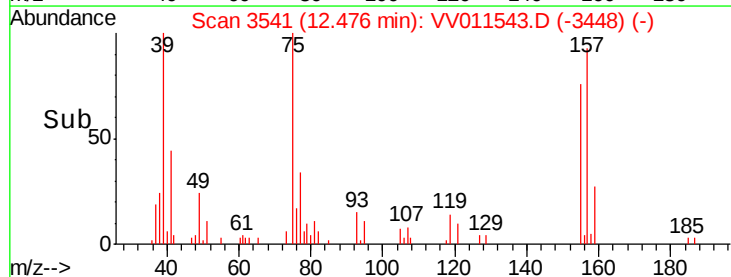
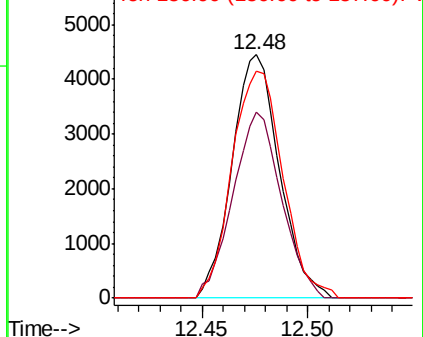
157 93.0 79.8 119.6

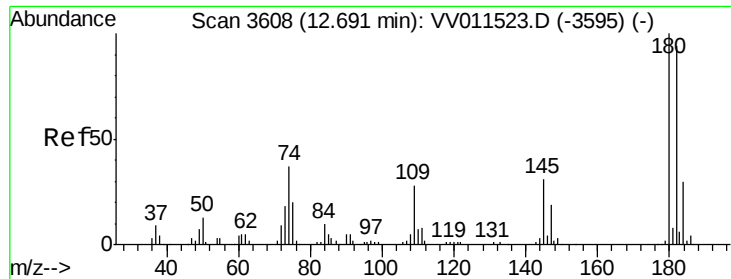


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

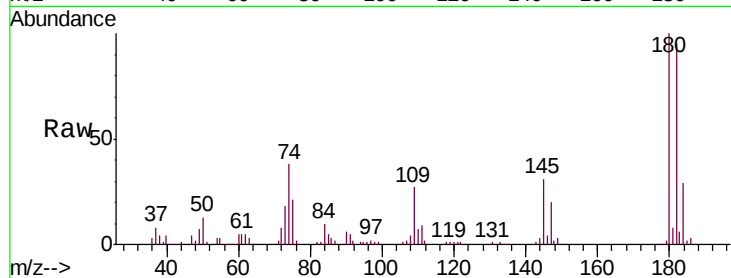




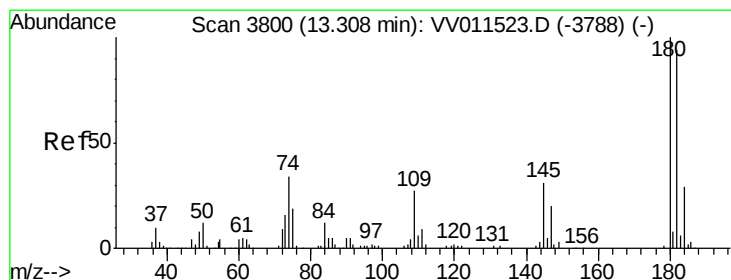
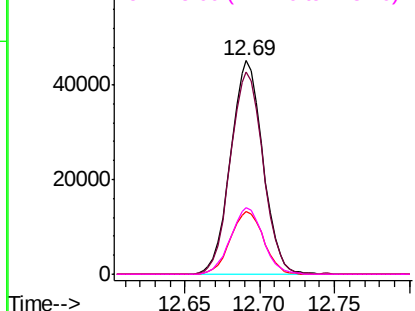
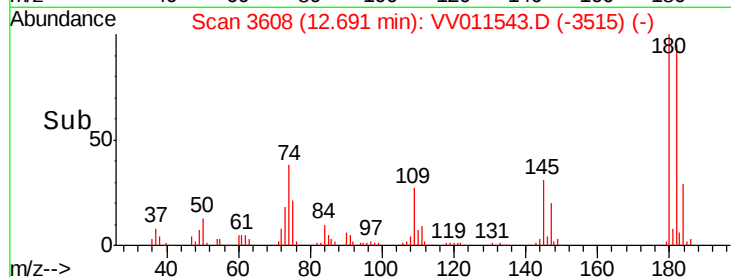
#67
 1,3,5-Trichlorobenzene
 Concen: 4.582 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

Tgt Ion:180 Resp: 67703
 Ion Ratio Lower Upper
 180 100
 182 96.1 75.4 113.0
 184 30.2 24.0 36.0
 145 31.5 24.4 36.6

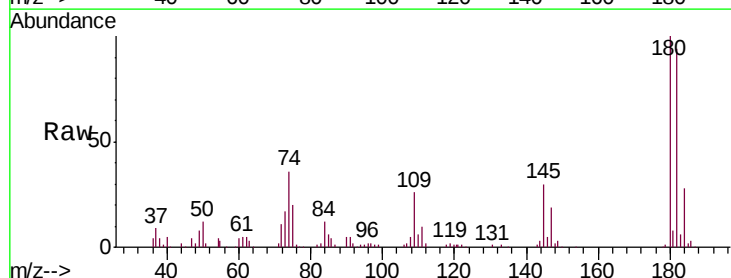


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

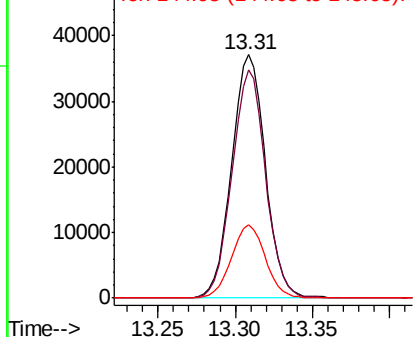
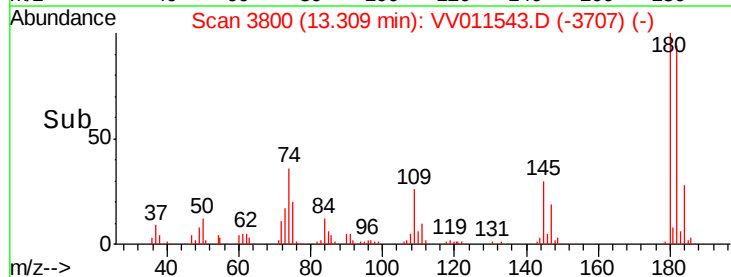


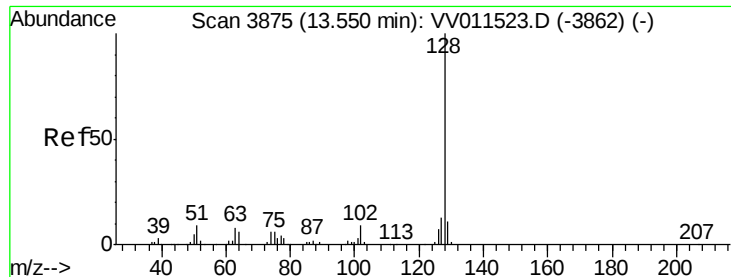
#68
 1,2,4-trichlorobenzene
 Concen: 4.713 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011543.D
 Acq: 15 Jun 2019 16:59

Tgt Ion:180 Resp: 55922
 Ion Ratio Lower Upper
 180 100
 182 93.4 76.2 114.4
 145 30.3 24.7 37.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.892 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

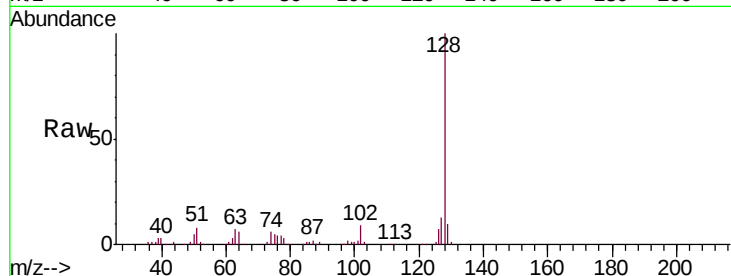
Tgt Ion:128 Resp: 114143

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

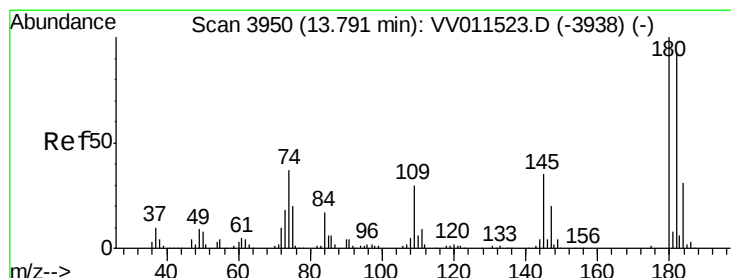
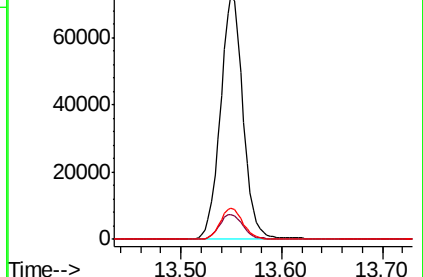
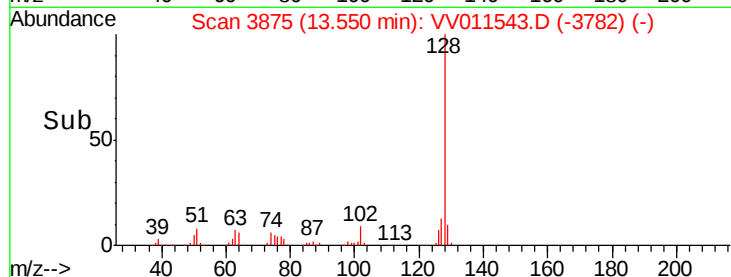
127 12.8 10.9 16.3



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: 4.991 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV011543.D

Acq: 15 Jun 2019 16:59

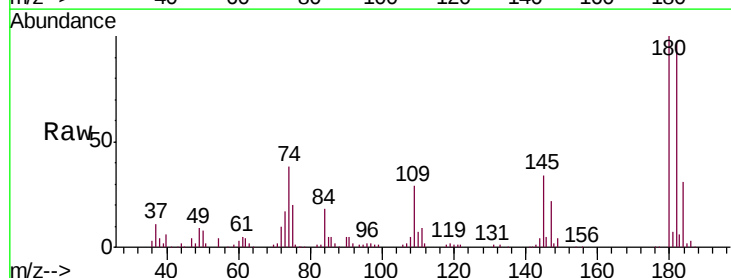
Tgt Ion:180 Resp: 57427

Ion Ratio Lower Upper

180 100

182 95.0 76.6 115.0

145 33.4 27.1 40.7



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

