

Data File : VV011523.D
Acq On : 15 Jun 2019 06:37
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00555

Quant Time: Jun 15 07:00:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 15 04:37:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	168329	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	150627	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	61929	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	54059	4.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.20%
7) Chloroethane-d5	1.57	69	38795	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.12	63	101231	4.18	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.60%
20) 2-Butanone-d5	3.95	46	189376	52.95	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.90%
24) Chloroform-d	4.40	84	118717	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
26) 1,2-Dichloroethane-d4	5.08	65	67770	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.40%
32) Benzene-d6	5.09	84	208418	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
36) 1,2-Dichloropropane-d6	6.12	67	69240	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.00%
41) Toluene-d8	7.36	98	175316	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	7.66	79	21861	4.60	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	92.00%
46) 2-Hexanone-d5	8.14	63	146897	53.63	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.26%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	53100	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	57937	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	66374	4.420 ug/L	100
3) Chloromethane	1.25	50	83485	5.132 ug/L	99
5) Vinyl chloride	1.32	62	78271	4.872 ug/L	99
6) Bromomethane	1.53	94	34270	5.102 ug/L	100
8) Chloroethane	1.59	64	39789	5.115 ug/L	98
9) Trichlorofluoromethane	1.76	101	86823	4.907 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	42910	4.246 ug/L	97
12) 1,1-Dichloroethene	2.13	96	47916	4.577 ug/L	89
13) Acetone	2.21	43	126599	52.531 ug/L	98
14) Carbon disulfide	2.31	76	120592	4.261 ug/L	100
15) Methyl Acetate	2.46	43	31734	4.967 ug/L	95
16) Methylene chloride	2.53	84	61292	5.151 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	167757	5.344 ug/L	97
18) trans-1,2-Dichloroethene	2.78	96	56497	4.773 ug/L	99
19) 1,1-Dichloroethane	3.22	63	128172	5.234 ug/L	98
21) 2-Butanone	4.04	43	208542	54.694 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	67698	5.048 ug/L	98

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Instrument :
MSVOA_V
ClientSampleId :
VSTD00555

Quant Time: Jun 15 07:00:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jun 15 04:37:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	27803	5.275	ug/L	97
25) Chloroform	4.42	83	126228	5.137	ug/L	98
27) 1,2-Dichloroethane	5.18	62	88935	5.135	ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	91952	4.906	ug/L	100
30) Cyclohexane	4.72	56	77541	4.005	ug/L	99
31) Carbon tetrachloride	4.87	117	69453	4.580	ug/L	99
33) Benzene	5.14	78	256295	5.209	ug/L	100
34) Trichloroethene	5.96	95	61762	4.923	ug/L	98
35) Methylcyclohexane	6.17	83	74597	4.170	ug/L	98
37) 1,2-Dichloropropane	6.22	63	67800	5.177	ug/L	100
38) Bromodichloromethane	6.55	83	78465	5.274	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	83271	5.051	ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	527654	56.521	ug/L	100
42) Toluene	7.43	91	246914	4.843	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	64502	5.115	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	47901	5.479	ug/L	96
47) Tetrachloroethene	8.02	164	39185	4.380	ug/L	98
48) 2-Hexanone	8.19	43	366522	55.849	ug/L	99
49) Dibromochloromethane	8.29	129	45726	5.206	ug/L	93
50) 1,2-Dibromoethane	8.40	107	43769	5.536	ug/L	97
51) Chlorobenzene	8.92	112	145875	4.659	ug/L	97
52) Ethylbenzene	9.05	91	241906	4.517	ug/L	99
53) m,p-xylene	9.18	106	88533	4.518	ug/L	99
54) o-xylene	9.59	106	93413	4.746	ug/L	96
55) Styrene	9.60	104	155304	4.757	ug/L	100
56) Isopropylbenzene	9.97	105	220892	4.409	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	55589	5.200	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	43002	5.259	ug/L	100
61) Bromoform	9.77	173	21672	5.489	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	96724	4.817	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	97336	4.758	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	102239	5.058	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7682	5.234	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	68567	4.675	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	54681	4.643	ug/L	99
69) Naphthalene	13.55	128	113662	4.908	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	56391	4.938	ug/L	97

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

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Misc : 25ML/MSVOA V/WATER

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00555

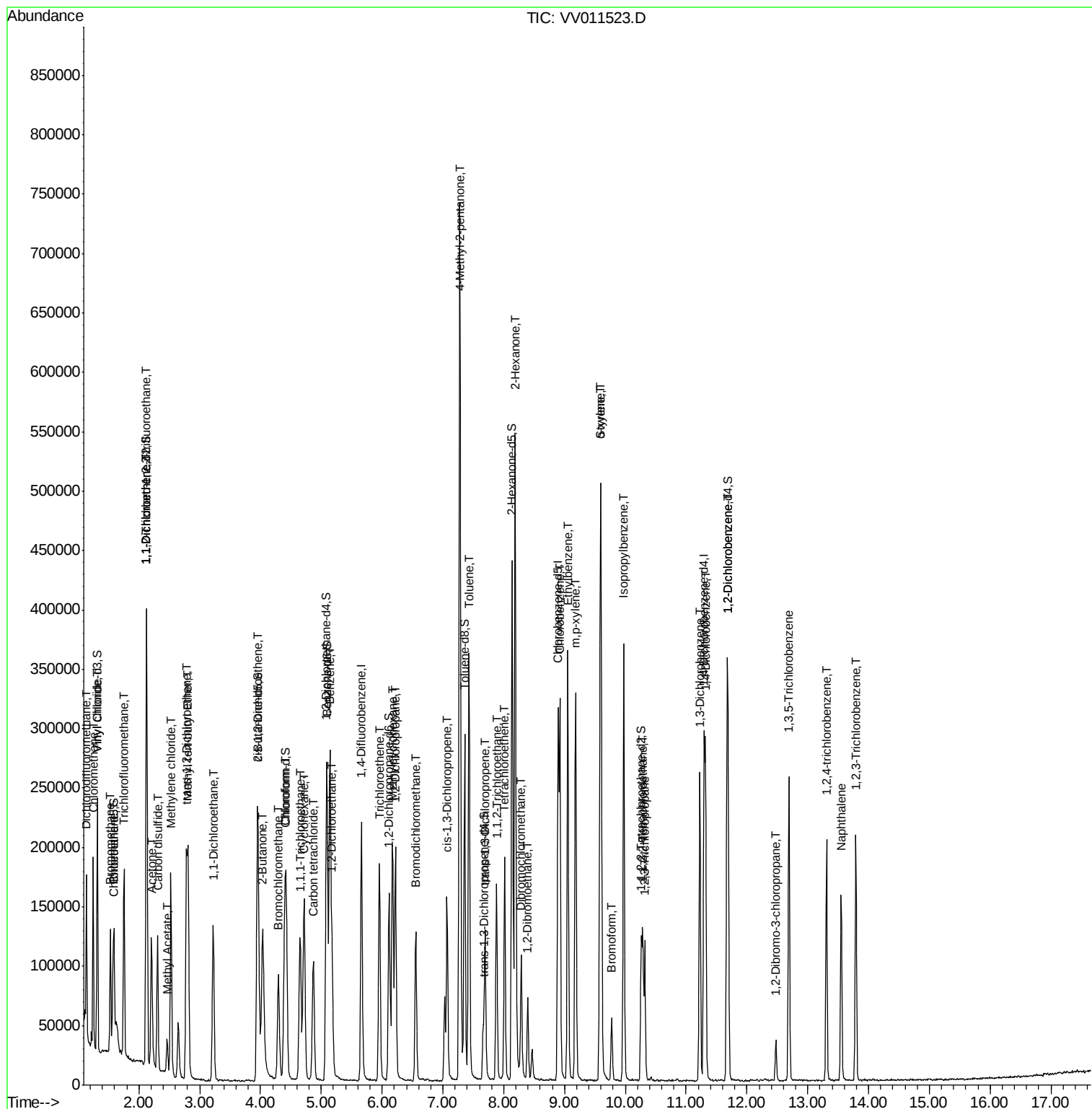
Quant Time: Jun 15 07:00:10 2019

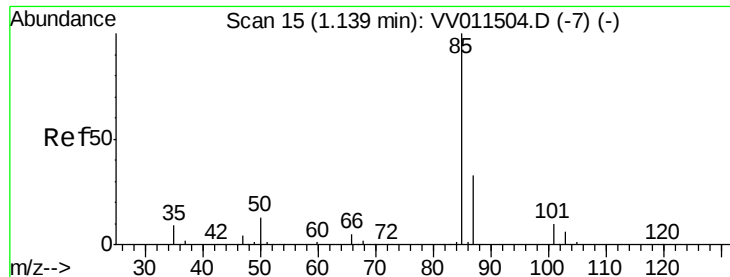
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR061419WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Sat Jun 15 04:37:55 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.420 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

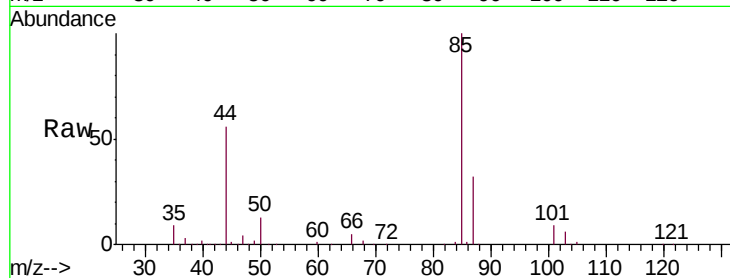
VSTD00555

Tgt Ion: 85 Resp: 66374

Ion Ratio Lower Upper

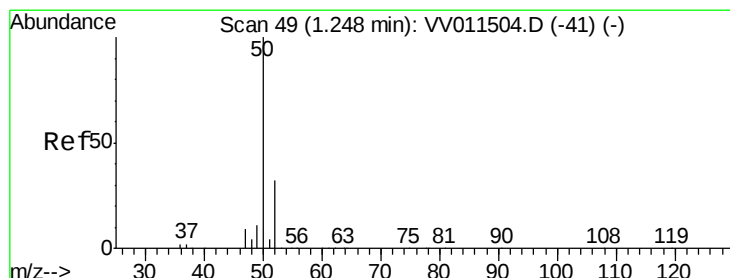
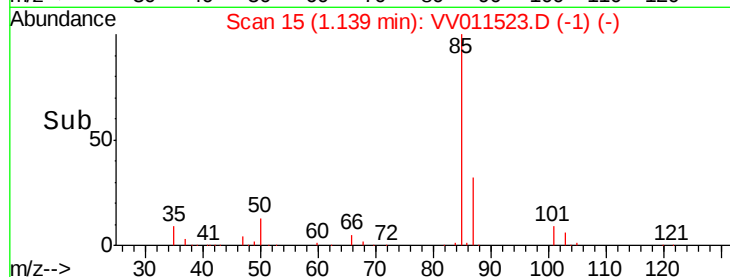
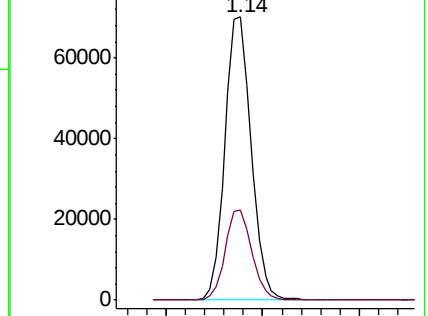
85 100

87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV011504.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV011523.D (-1) (-)



#3

Chloromethane

Concen: 5.132 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV011523.D

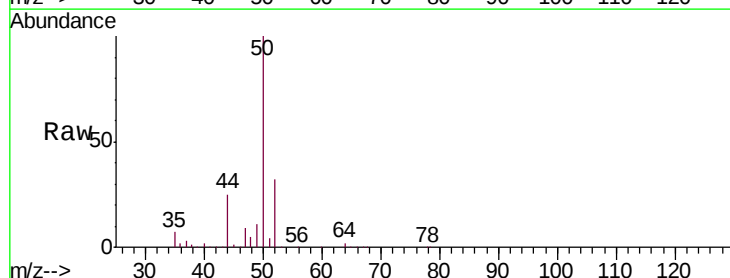
Acq: 15 Jun 2019 06:37

Tgt Ion: 50 Resp: 83485

Ion Ratio Lower Upper

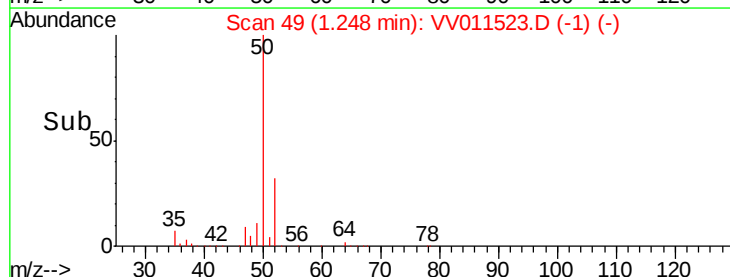
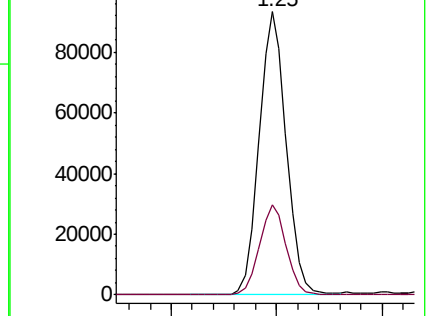
50 100

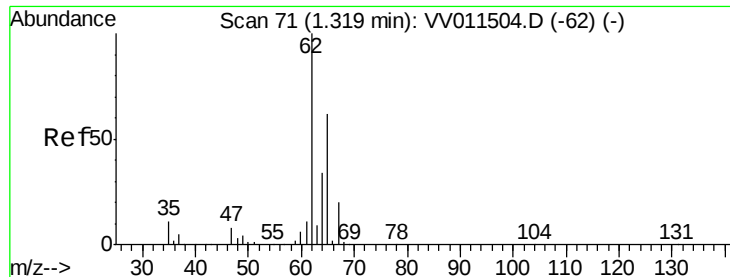
52 31.8 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV011504.D (-41) (-)

Ion 52.05 (51.75 to 52.75): VV011523.D (-1) (-)





#5

Vinyl chloride

Concen: 4.872 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

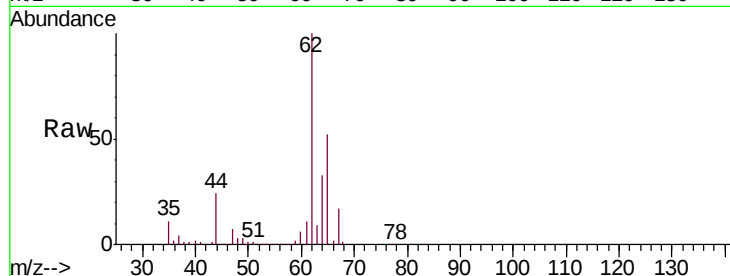
VSTD00555

Tgt Ion: 62 Resp: 78271

Ion Ratio Lower Upper

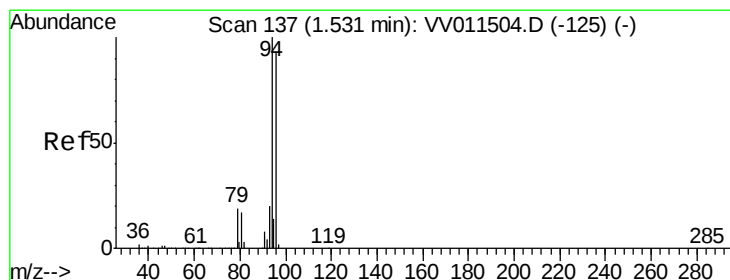
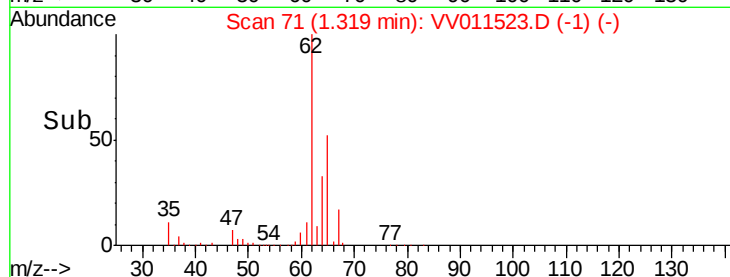
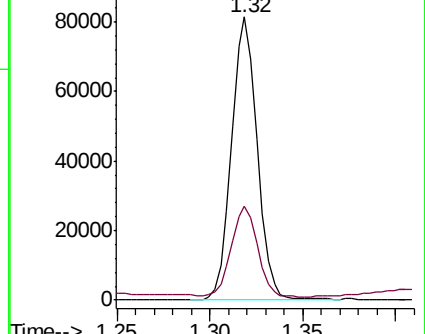
62 100

64 33.2 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV011504.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV011504.D (-62) (-)



#6

Bromomethane

Concen: 5.102 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV011523.D

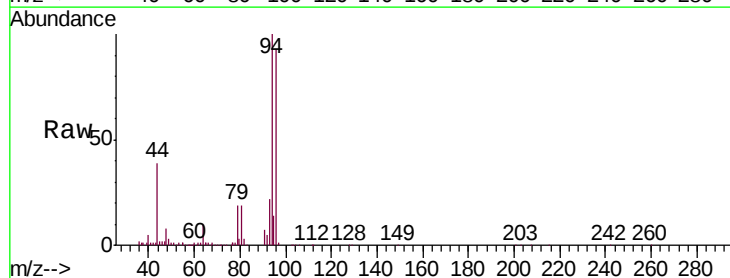
Acq: 15 Jun 2019 06:37

Tgt Ion: 94 Resp: 34270

Ion Ratio Lower Upper

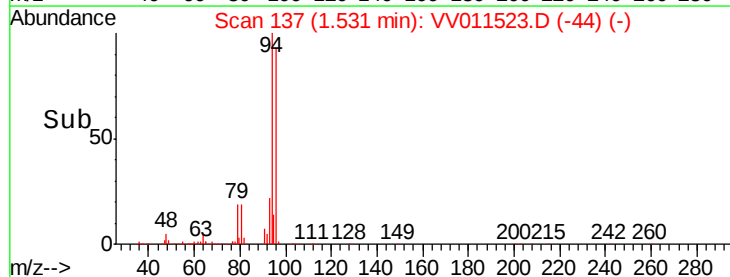
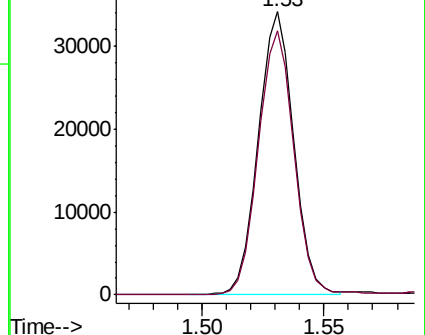
94 100

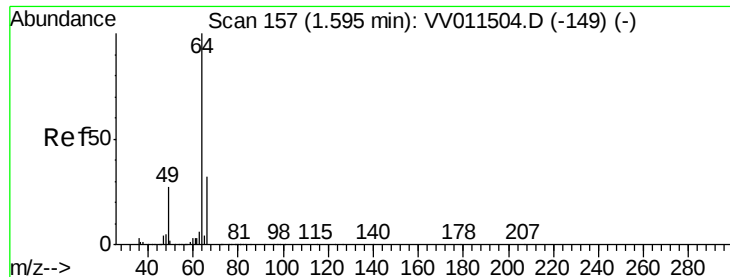
96 93.4 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV011504.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV011504.D (-125) (-)





#8

Chloroethane

Concen: 5.115 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.01 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

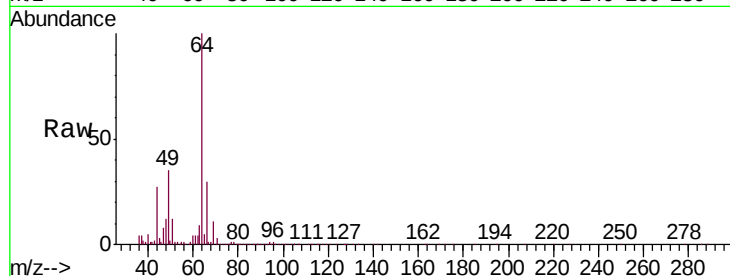
VSTD00555

Tgt Ion: 64 Resp: 39789

Ion Ratio Lower Upper

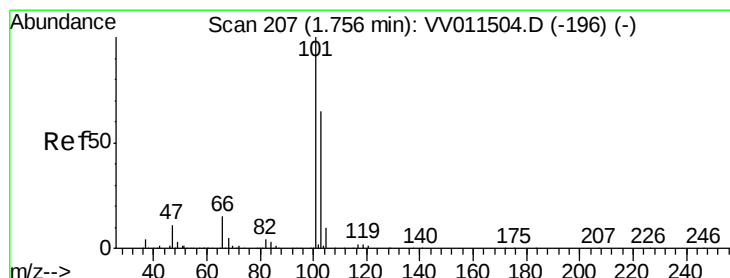
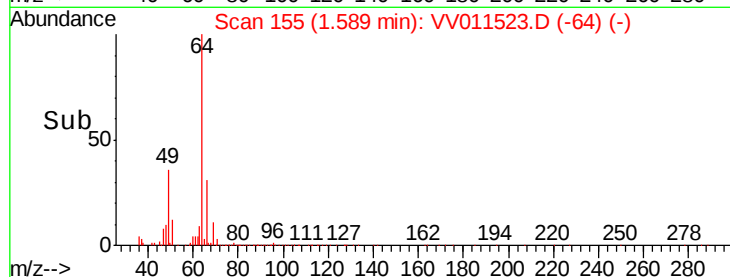
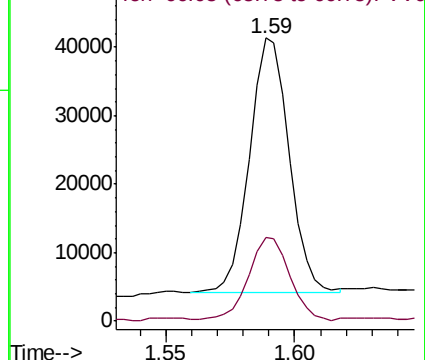
64 100

66 29.8 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV011504.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV011504.D (-149) (-)



#9

Trichlorofluoromethane

Concen: 4.907 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.00 min

Lab File: VV011523.D

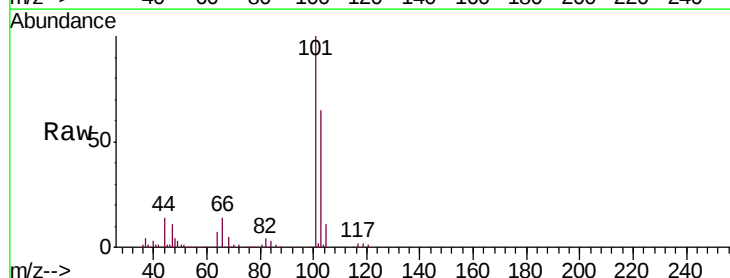
Acq: 15 Jun 2019 06:37

Tgt Ion: 101 Resp: 86823

Ion Ratio Lower Upper

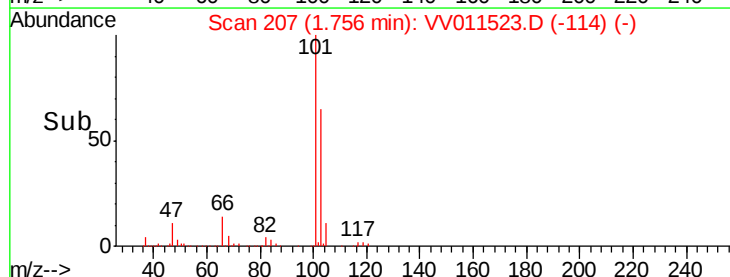
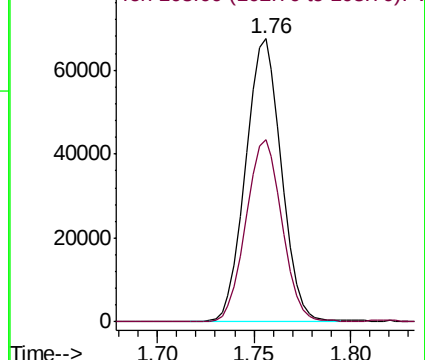
101 100

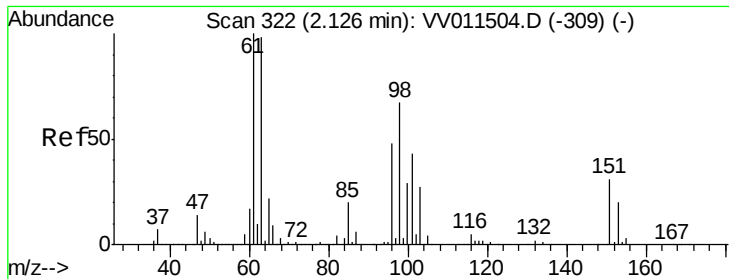
103 65.0 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV011504.D (-196) (-)

Ion 103.00 (102.70 to 103.70): VV011504.D (-196) (-)





#10

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

Concen: 4.246 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

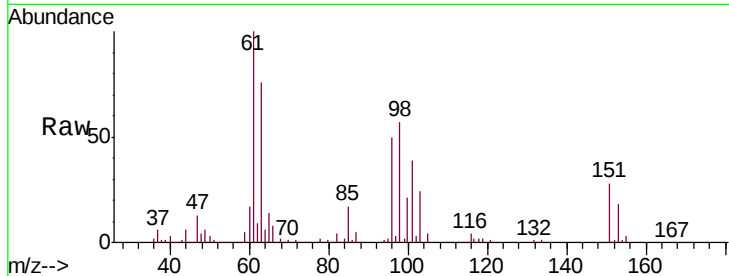
Tgt Ion: 101 Resp: 42910

Ion Ratio Lower Upper

101 100

85 45.1 37.3 55.9

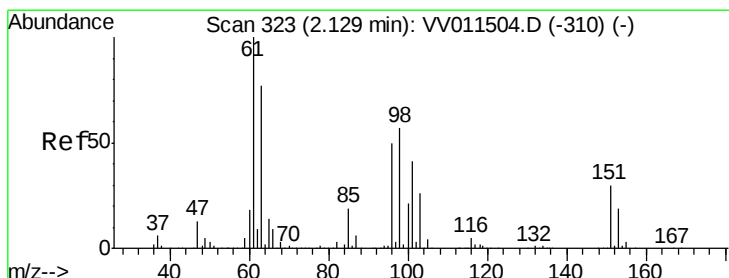
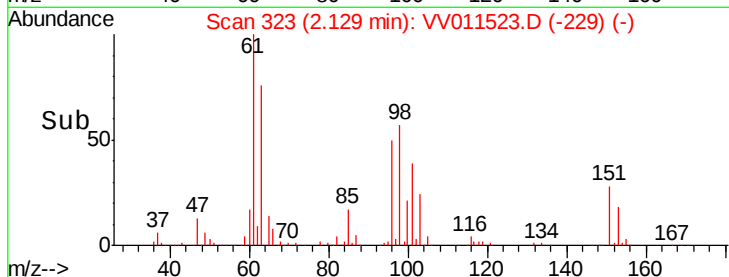
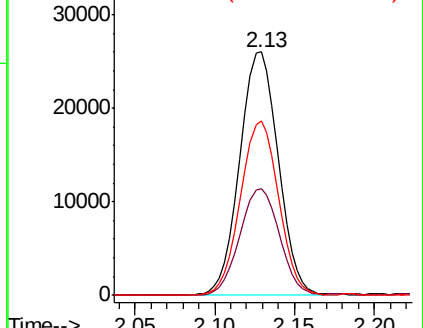
151 70.8 59.4 89.2



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: 4.577 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

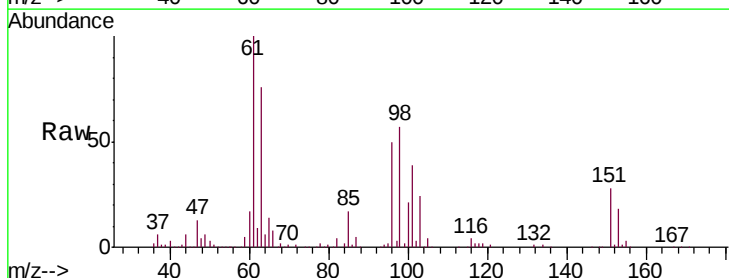
Tgt Ion: 96 Resp: 47916

Ion Ratio Lower Upper

96 100

61 198.1 135.9 252.5

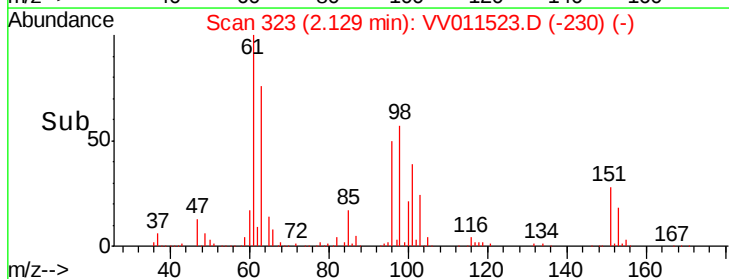
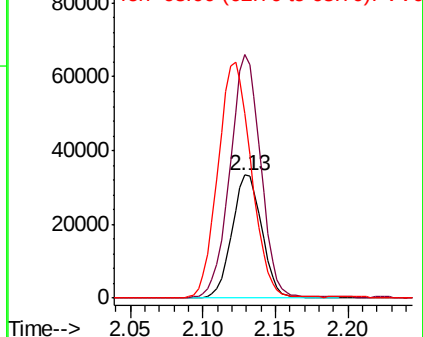
63 150.0 86.2 160.2

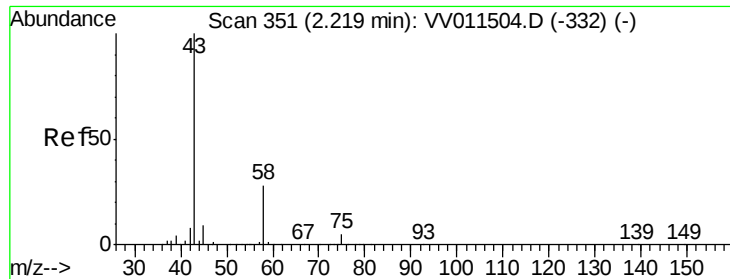


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 52.531 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

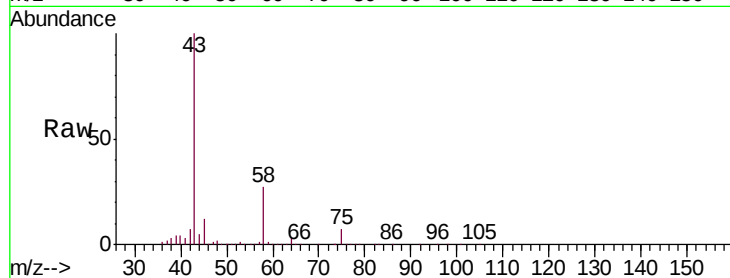
VSTD00555

Tgt Ion: 43 Resp: 126599

Ion Ratio Lower Upper

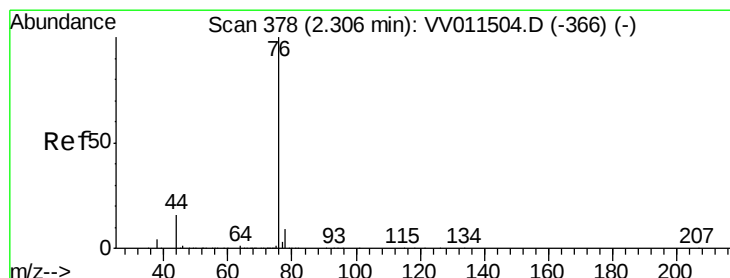
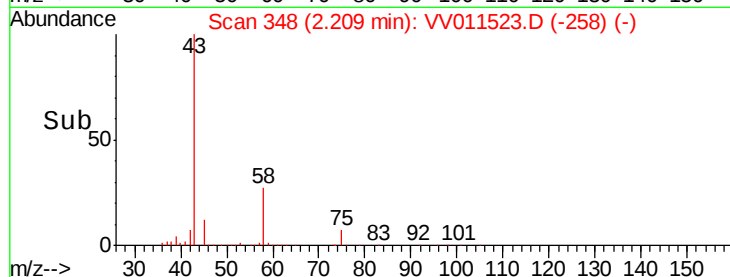
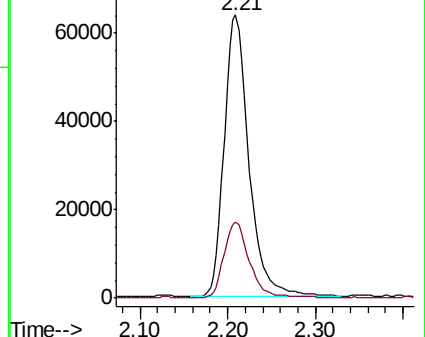
43 100

58 27.9 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV011504.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV011504.D (-332) (-)



#14

Carbon disulfide

Concen: 4.261 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV011523.D

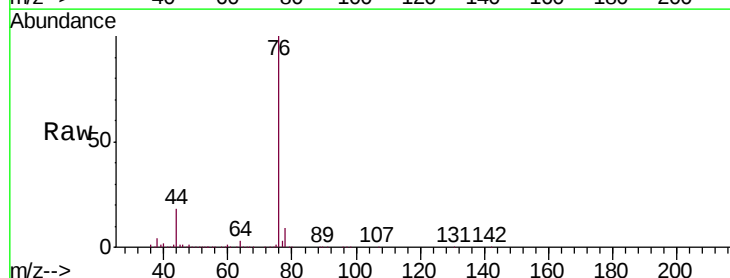
Acq: 15 Jun 2019 06:37

Tgt Ion: 76 Resp: 120592

Ion Ratio Lower Upper

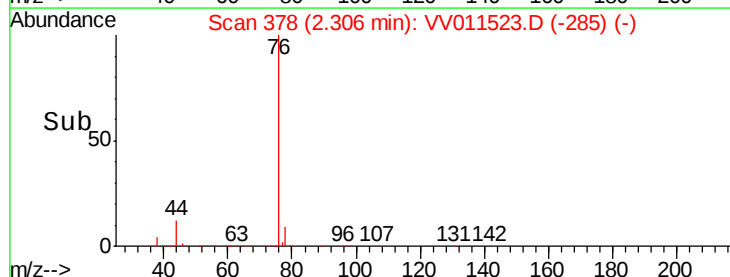
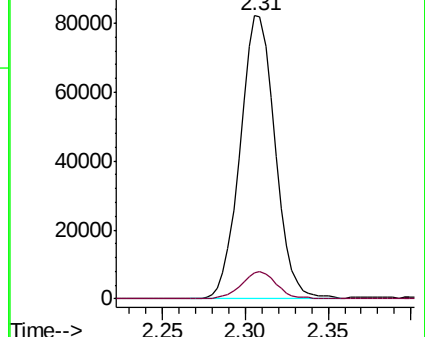
76 100

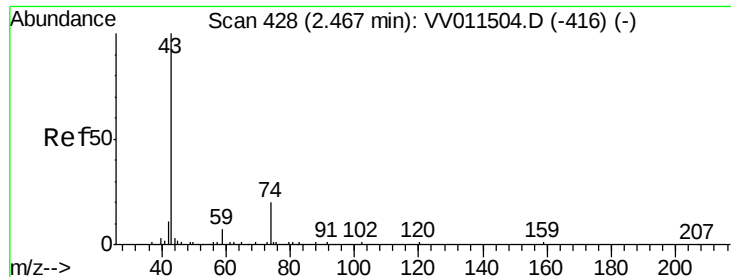
78 9.2 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV011504.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV011504.D (-366) (-)





#15

Methyl Acetate

Concen: 4.967 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

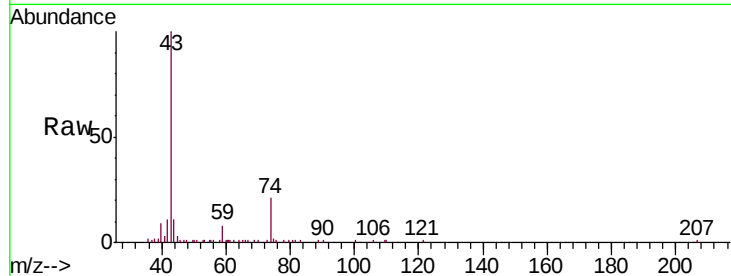
VSTD00555

Tgt Ion: 43 Resp: 31734

Ion Ratio Lower Upper

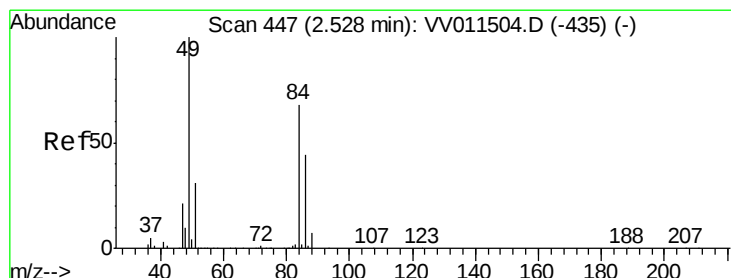
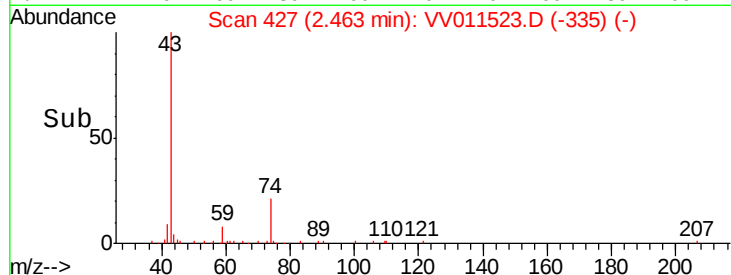
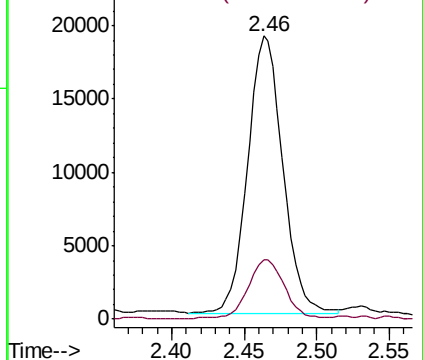
43 100

74 22.8 16.5 24.7



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.151 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

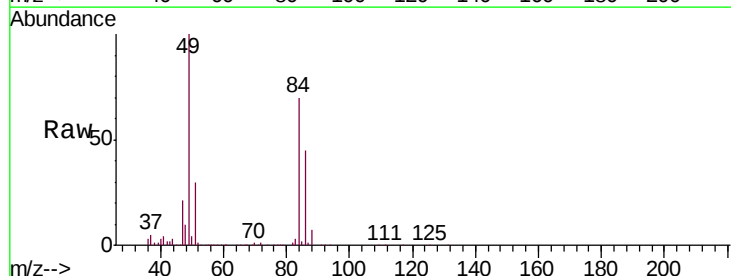
Tgt Ion: 84 Resp: 61292

Ion Ratio Lower Upper

84 100

86 63.8 42.5 78.9

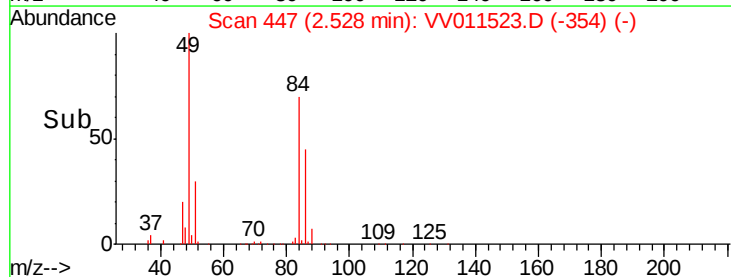
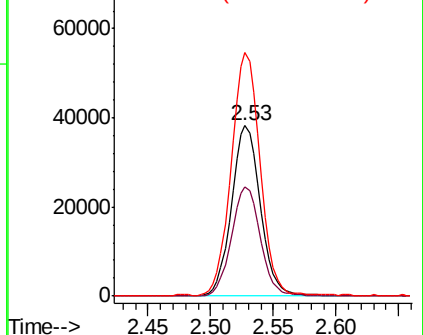
49 142.9 97.7 181.5

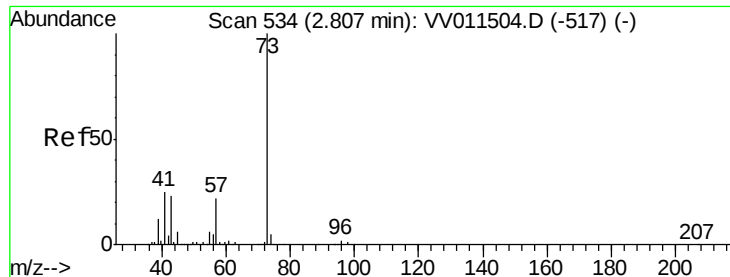


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#17

Methyl tert-butyl Ether

Concen: 5.344 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

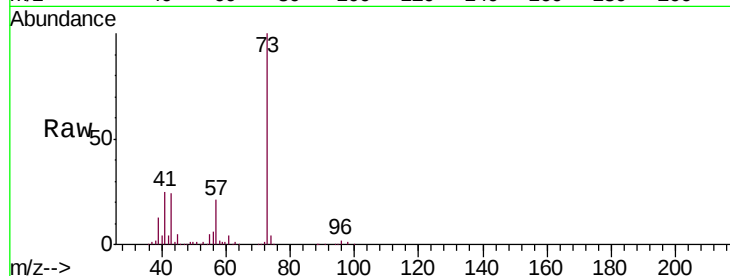
Tgt Ion: 73 Resp: 167757

Ion Ratio Lower Upper

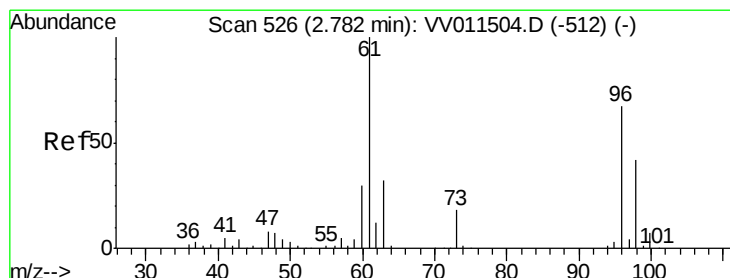
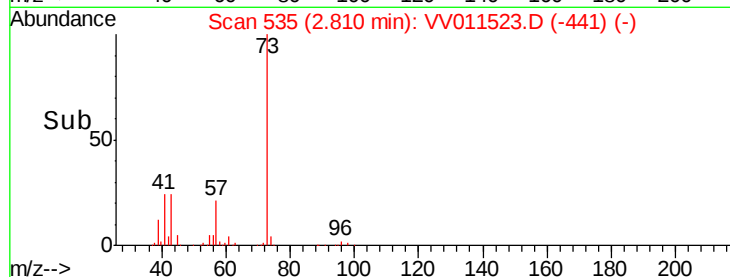
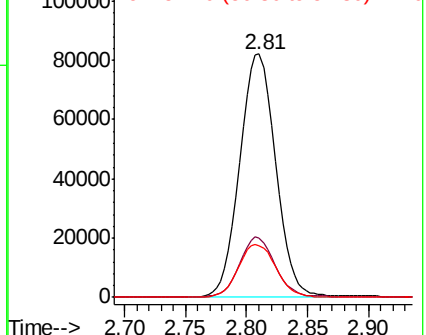
73 100

43 24.9 18.2 27.4

57 22.9 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: 4.773 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

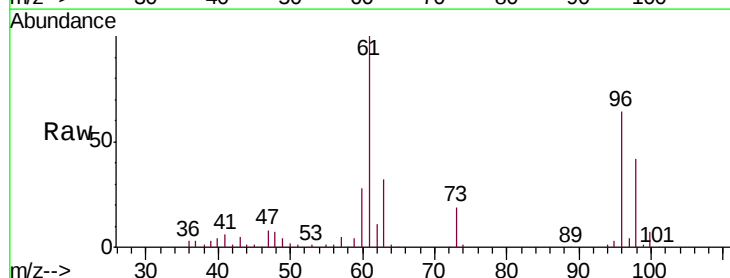
Tgt Ion: 96 Resp: 56497

Ion Ratio Lower Upper

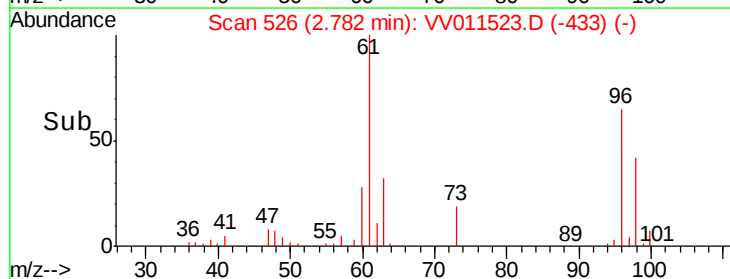
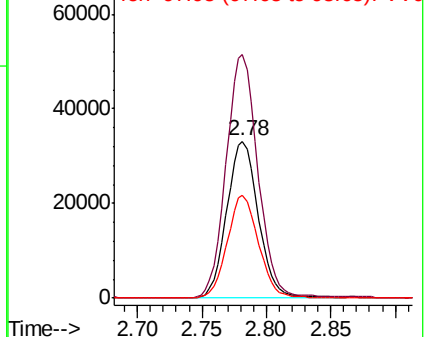
96 100

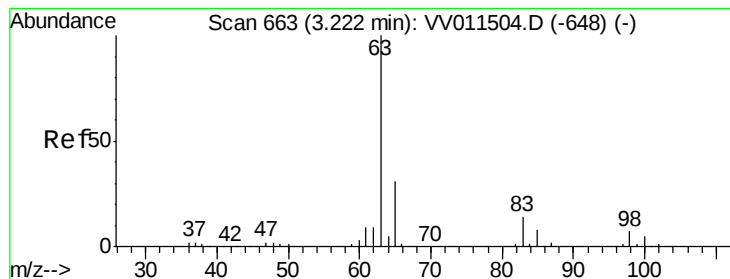
61 155.3 110.0 204.4

98 65.6 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: 5.234 ug/L

RT: 3.22 min Scan# 663

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

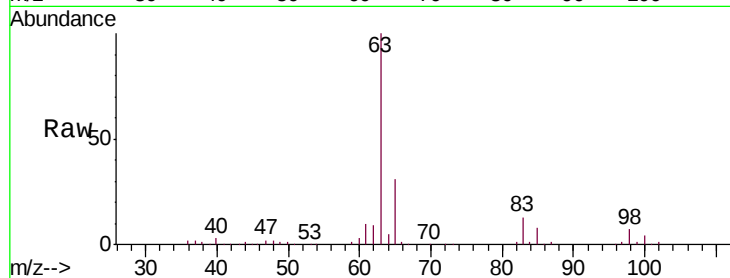
Tgt Ion: 63 Resp: 128172

Ion Ratio Lower Upper

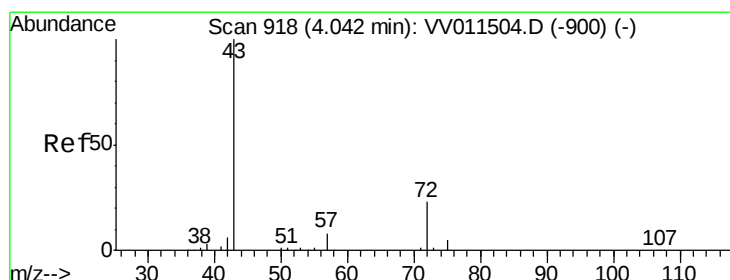
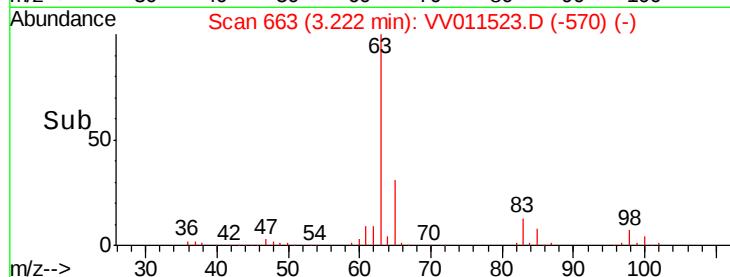
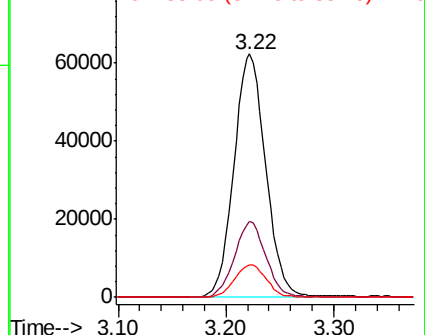
63 100

65 31.2 22.5 41.9

83 13.2 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 54.694 ug/L

RT: 4.04 min Scan# 916

Delta R.T. -0.01 min

Lab File: VV011523.D

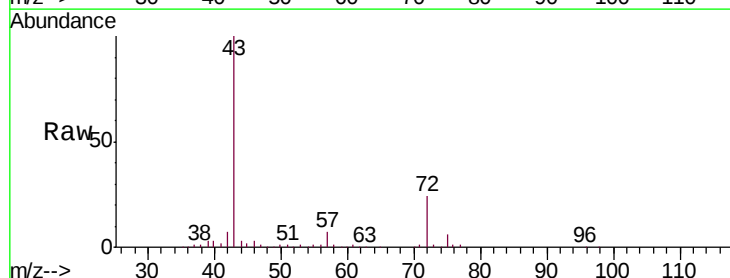
Acq: 15 Jun 2019 06:37

Tgt Ion: 43 Resp: 208542

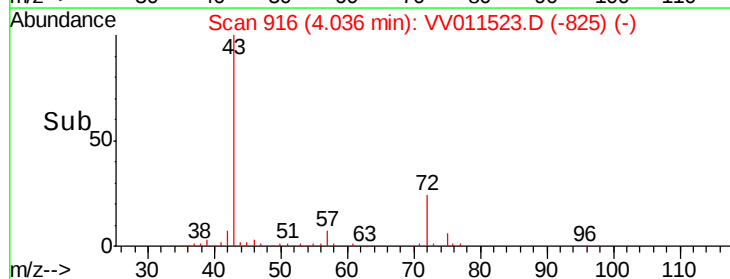
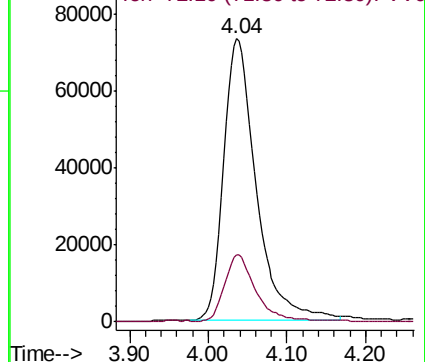
Ion Ratio Lower Upper

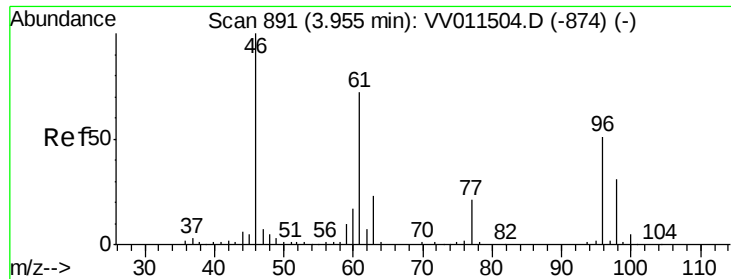
43 100

72 22.7 11.8 35.4



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 72.10 (71.80 to 72.80): VV0



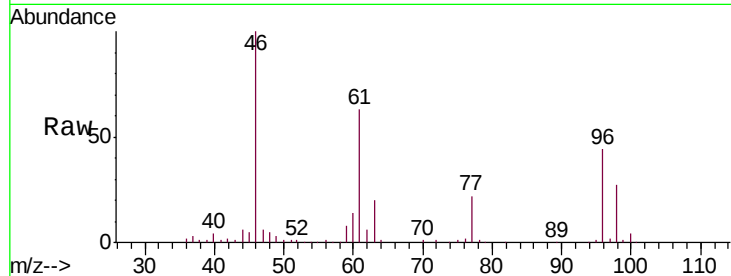


#22

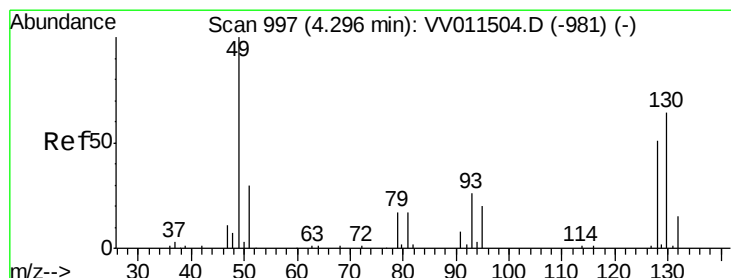
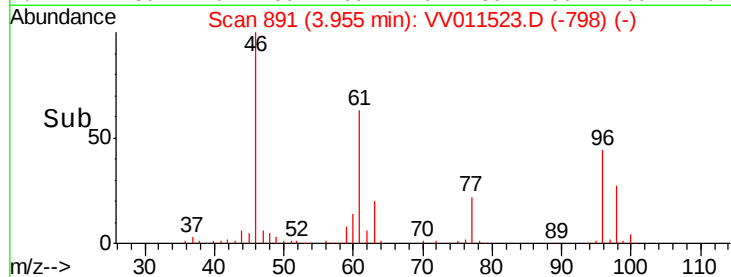
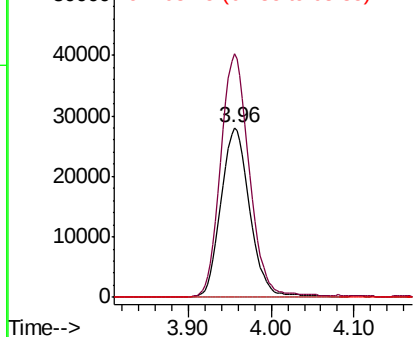
cis-1,2-Dichloroethene
Concen: 5.048 ug/L
RT: 3.96 min Scan# 891
Delta R.T. -0.00 min
Lab File: VV011523.D
Acq: 15 Jun 2019 06:37

Instrument :
MSVOA_V
ClientSampled :
VSTD00555

Tgt Ion: 96 Resp: 67698
Ion Ratio Lower Upper
96 100
61 143.2 102.2 189.8
68 0.0 0.0 0.0



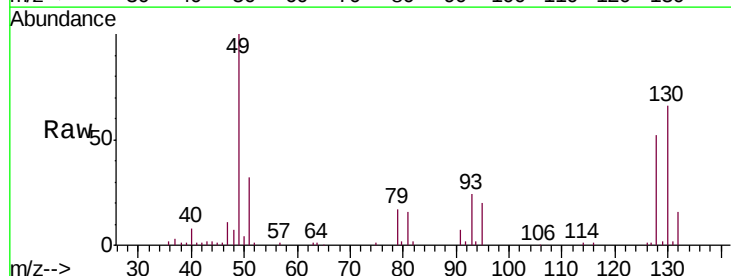
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



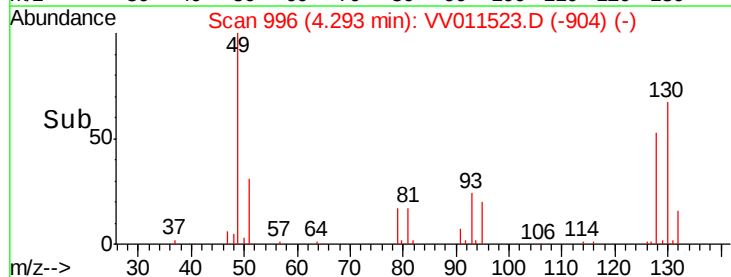
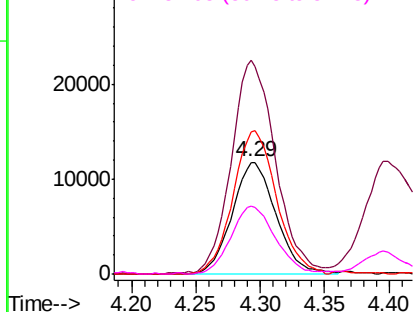
#23

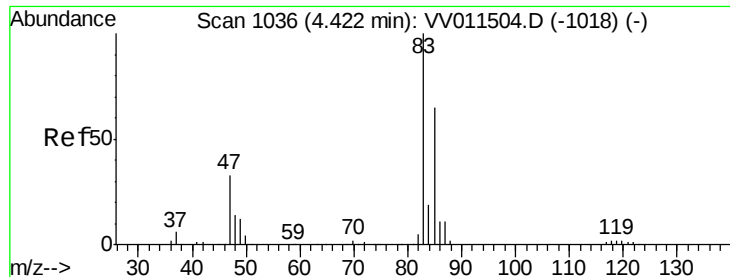
Bromochloromethane
Concen: 5.275 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV011523.D
Acq: 15 Jun 2019 06:37

Tgt Ion: 128 Resp: 27803
Ion Ratio Lower Upper
128 100
49 190.7 136.2 253.0
130 126.5 91.3 169.5
51 60.7 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

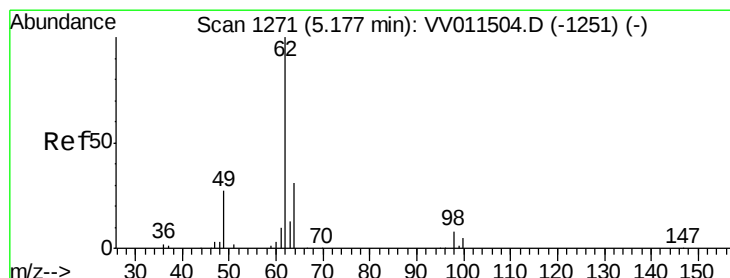
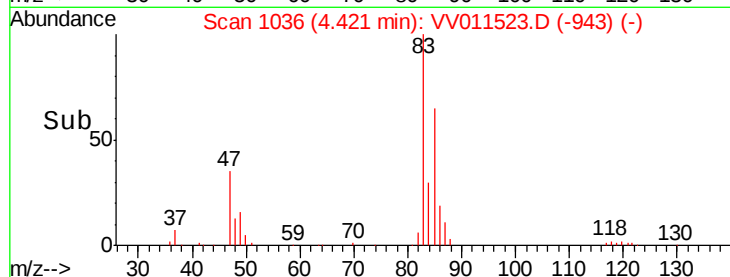
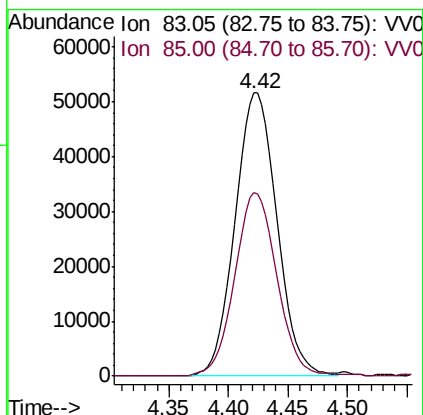
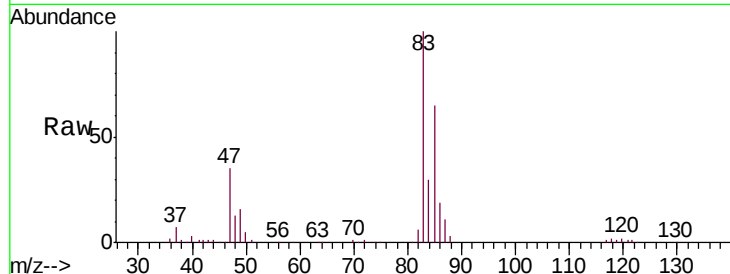




#25
Chloroform
Concen: 5.137 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011523.D
Acq: 15 Jun 2019 06:37

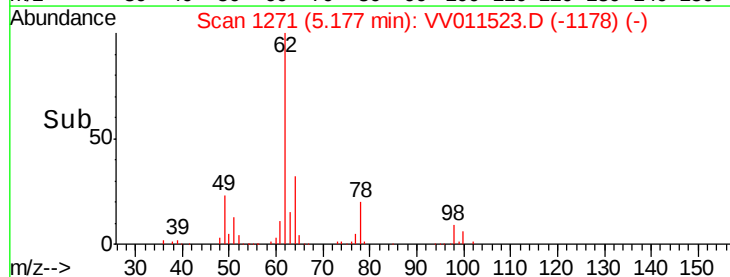
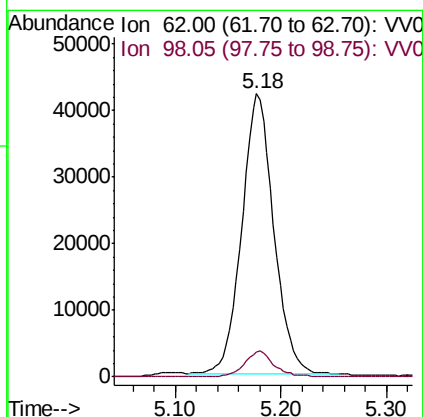
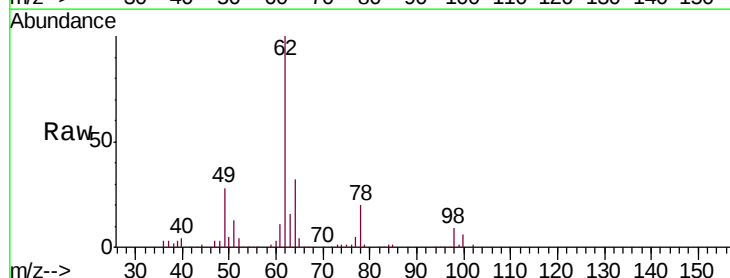
Instrument :
MSVOA_V
ClientSampleId :
VSTD00555

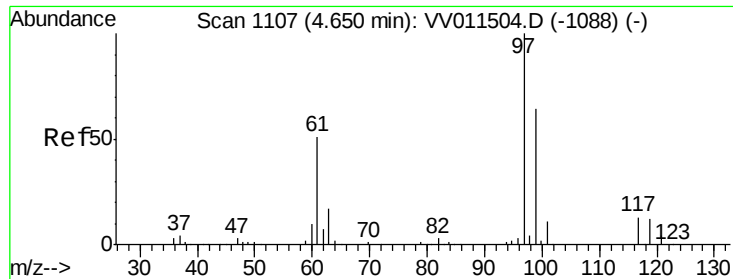
Tgt Ion: 83 Resp: 126228
Ion Ratio Lower Upper
83 100
85 65.0 44.6 82.8



#27
1,2-Dichloroethane
Concen: 5.135 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV011523.D
Acq: 15 Jun 2019 06:37

Tgt Ion: 62 Resp: 88935
Ion Ratio Lower Upper
62 100
98 8.7 6.5 9.7

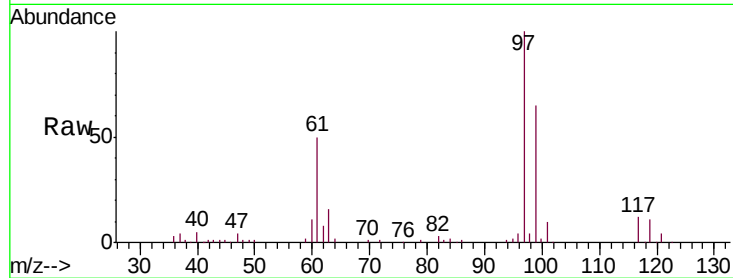




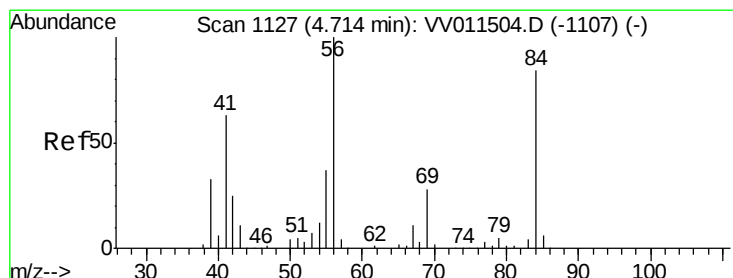
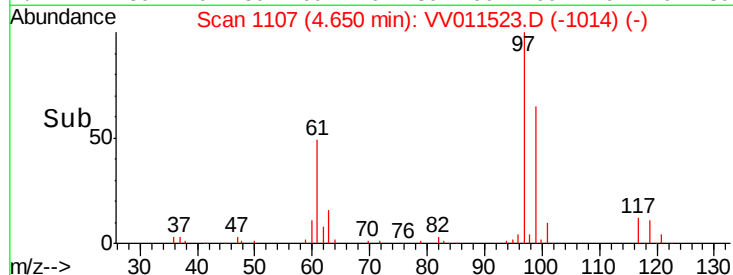
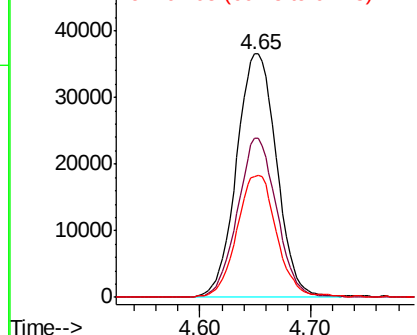
#29
 1,1,1-Trichloroethane
 Concen: 4.906 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

Tgt Ion: 97 Resp: 91952
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.6 77.4
 61 50.1 40.4 60.6

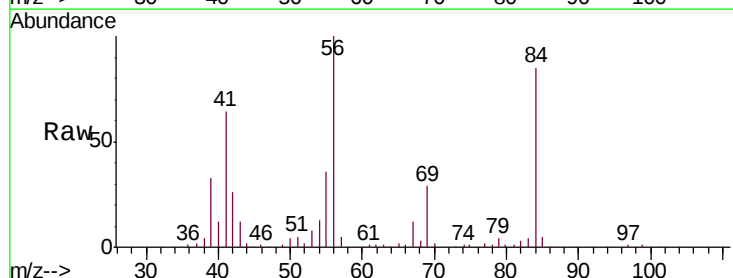


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

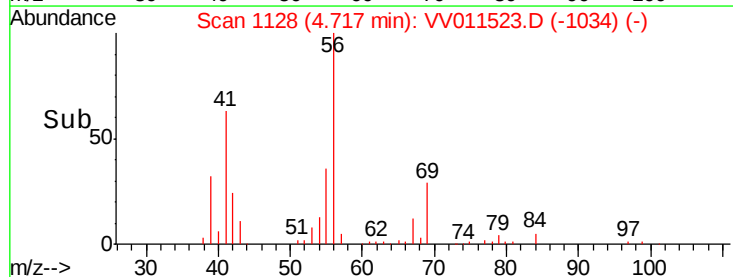
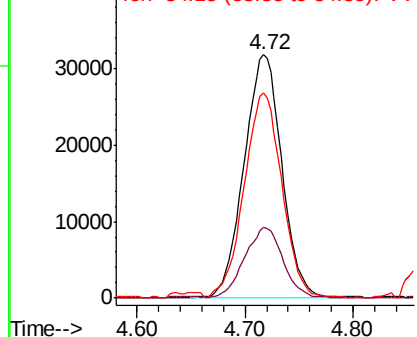


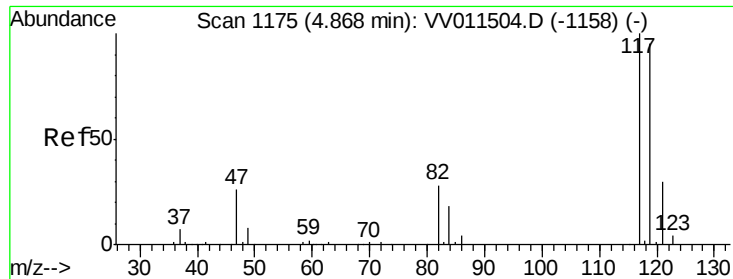
#30
 Cyclohexane
 Concen: 4.005 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. 0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion: 56 Resp: 77541
 Ion Ratio Lower Upper
 56 100
 69 29.7 24.1 36.1
 84 84.3 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: 4.580 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

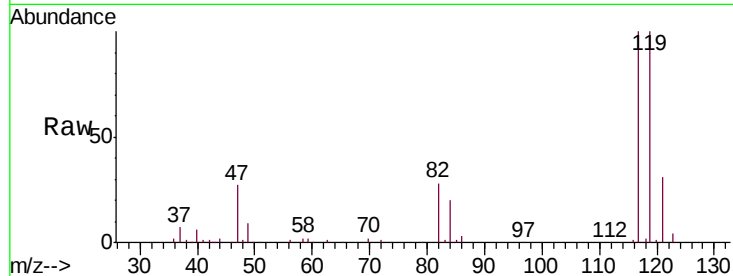
VSTD00555

Tgt Ion:117 Resp: 69453

Ion Ratio Lower Upper

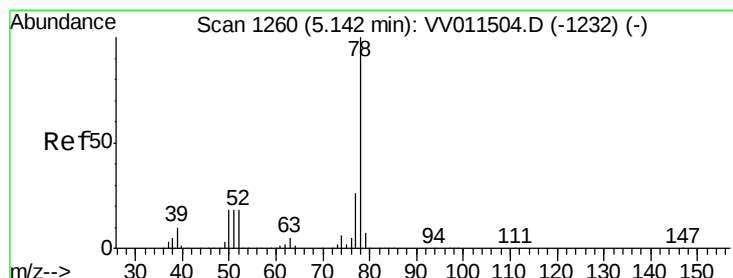
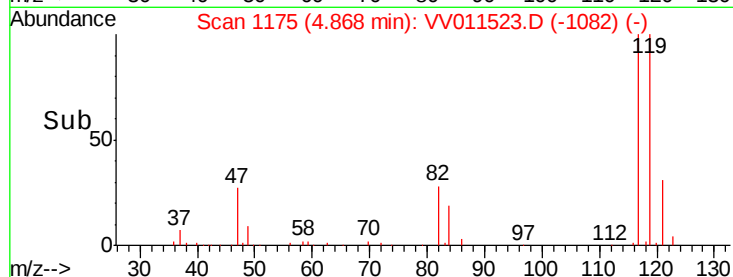
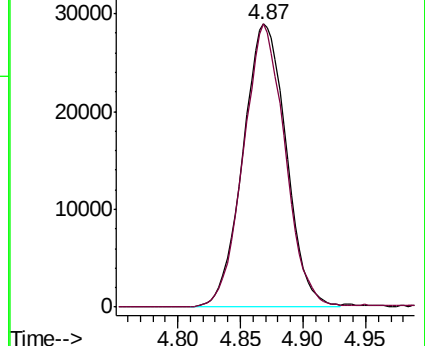
117 100

119 96.2 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: 5.209 ug/L

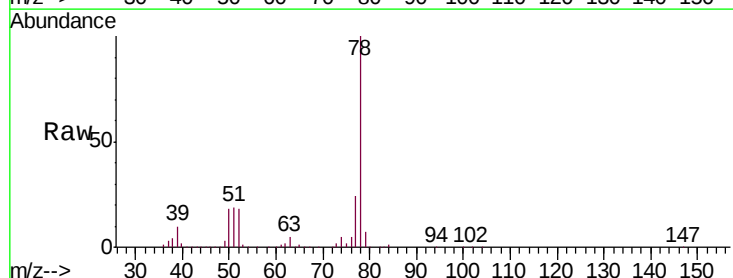
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

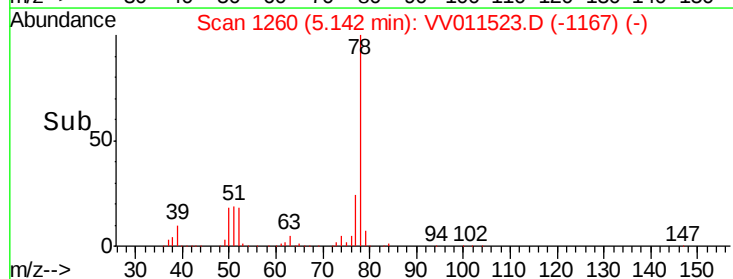
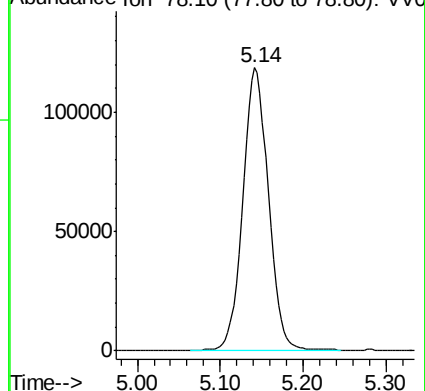
Lab File: VV011523.D

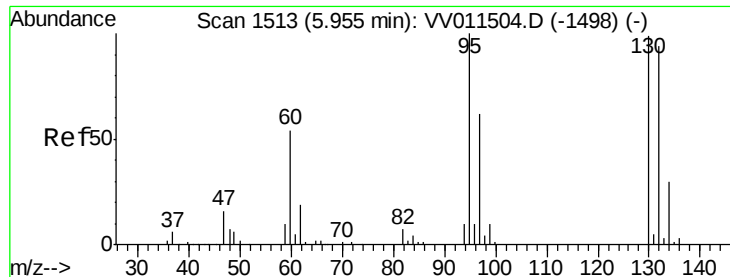
Acq: 15 Jun 2019 06:37

Tgt Ion: 78 Resp: 256295



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.923 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

Tgt Ion: 95 Resp: 61762

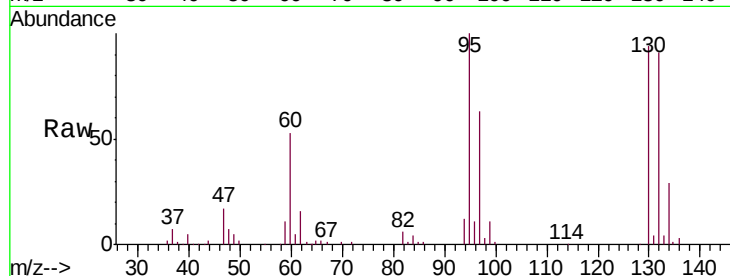
Ion Ratio Lower Upper

95 100

97 63.0 44.4 82.4

132 91.4 63.5 117.9

130 94.4 68.5 127.3

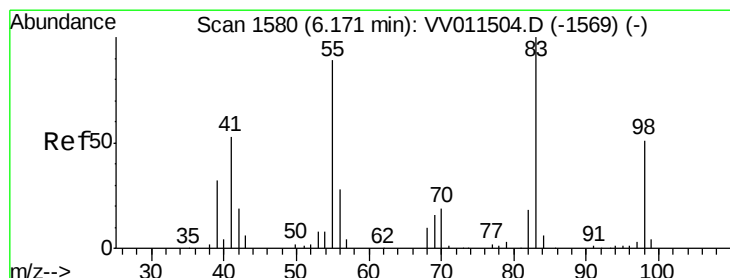
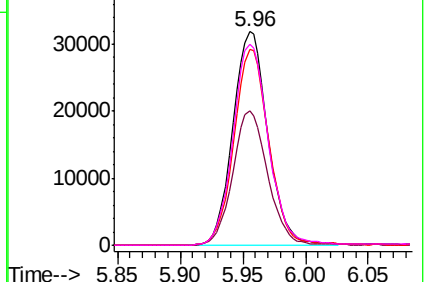
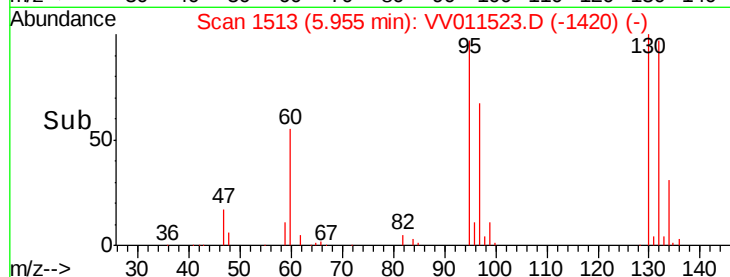


Abundance Ion 95.00 (94.70 to 95.70): VV011523.D (-1420) (-)

Ion 96.95 (96.65 to 97.65): VV011523.D (-1420) (-)

Ion 131.95 (131.65 to 132.65): VV011523.D (-1420) (-)

Ion 129.95 (129.65 to 130.65): VV011523.D (-1420) (-)



#35

Methylcyclohexane

Concen: 4.170 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

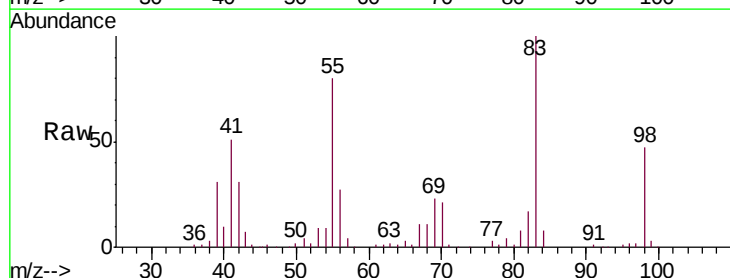
Tgt Ion: 83 Resp: 74597

Ion Ratio Lower Upper

83 100

55 82.9 67.9 101.9

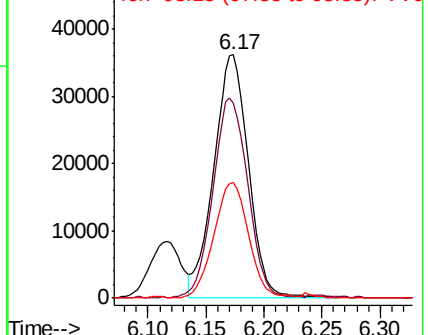
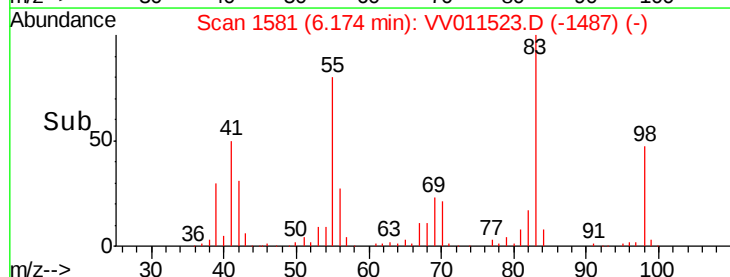
98 48.2 39.6 59.4

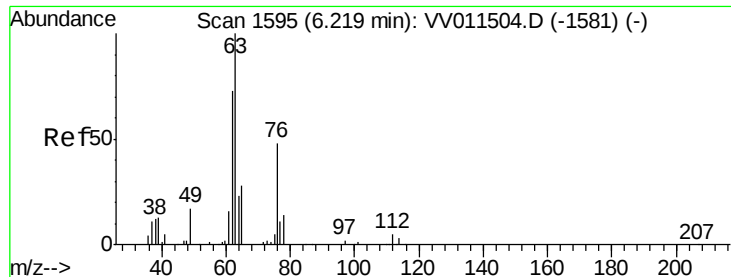


Abundance Ion 83.15 (82.85 to 83.85): VV011523.D (-1487) (-)

Ion 55.10 (54.80 to 55.80): VV011523.D (-1487) (-)

Ion 98.15 (97.85 to 98.85): VV011523.D (-1487) (-)





#37

1,2-Dichloropropane

Concen: 5.177 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

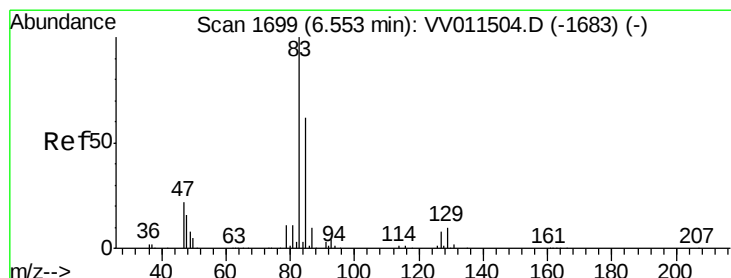
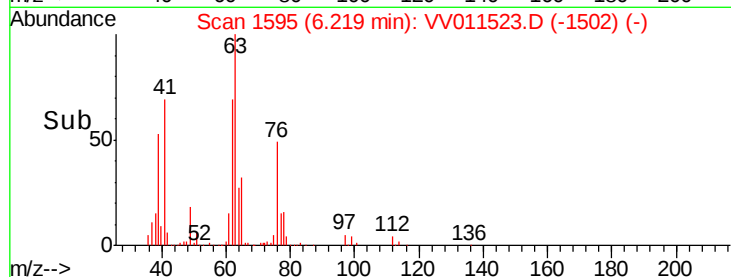
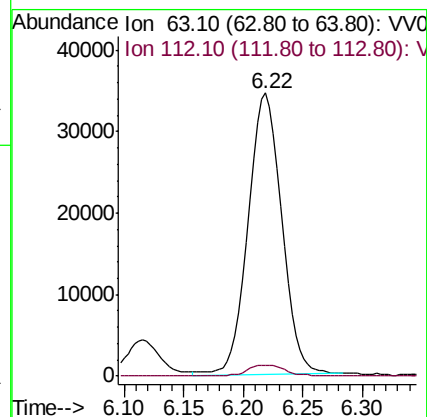
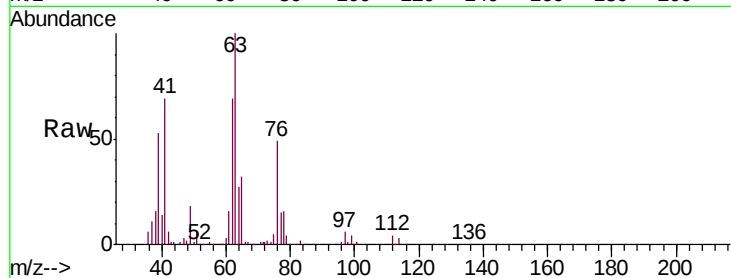
VSTD00555

Tgt Ion: 63 Resp: 67800

Ion Ratio Lower Upper

63 100

112 4.5 3.7 5.5



#38

Bromodichloromethane

Concen: 5.274 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

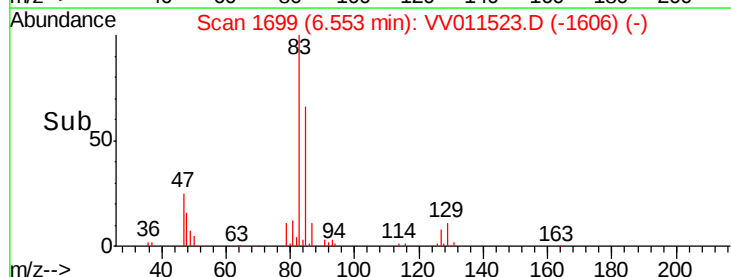
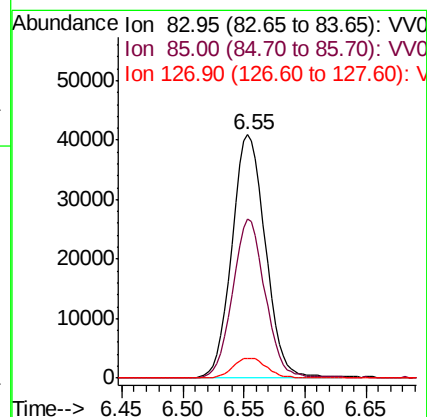
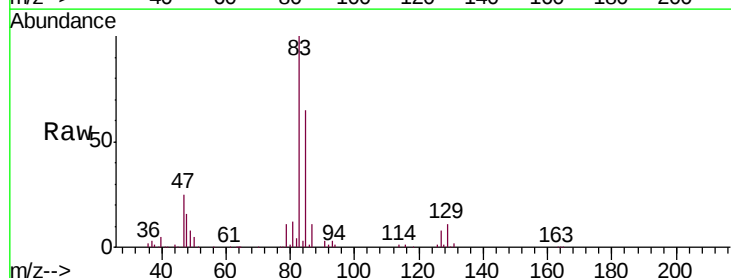
Tgt Ion: 83 Resp: 78465

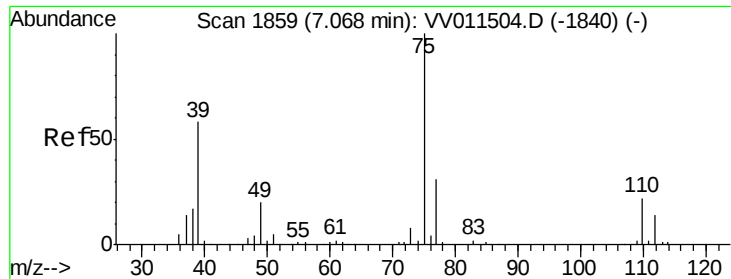
Ion Ratio Lower Upper

83 100

85 65.5 44.7 83.1

127 8.2 6.2 9.4

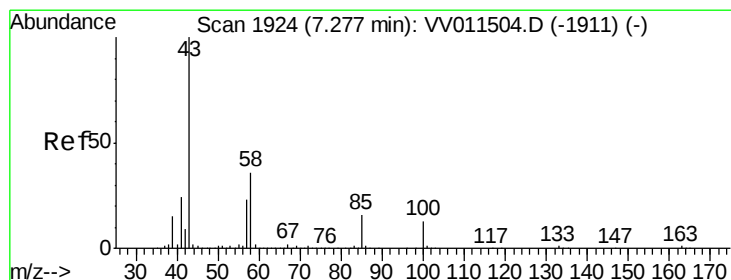
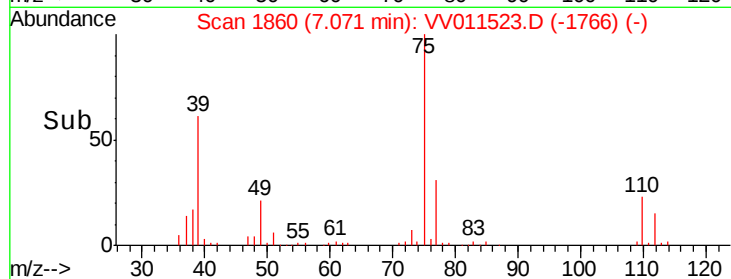
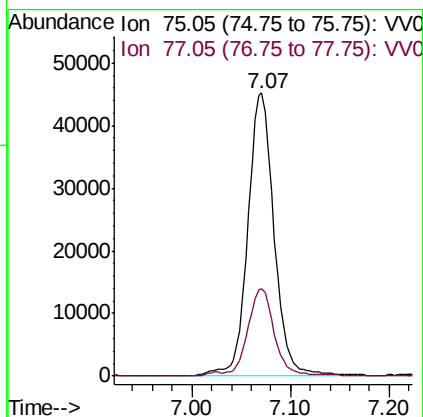
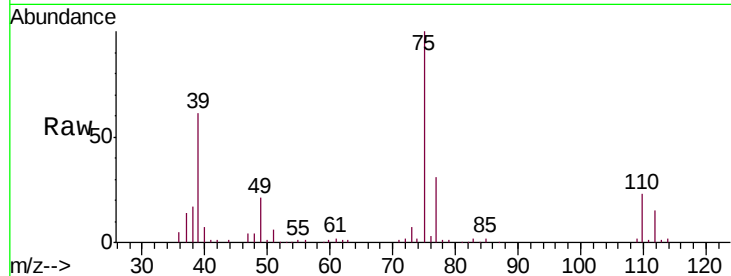




#39
 cis-1,3-Dichloropropene
 Concen: 5.051 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

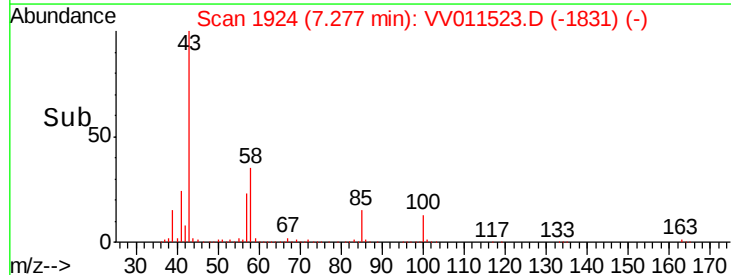
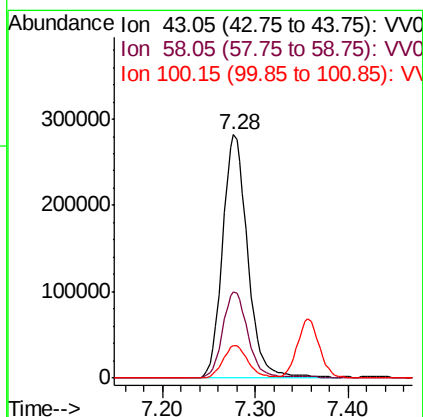
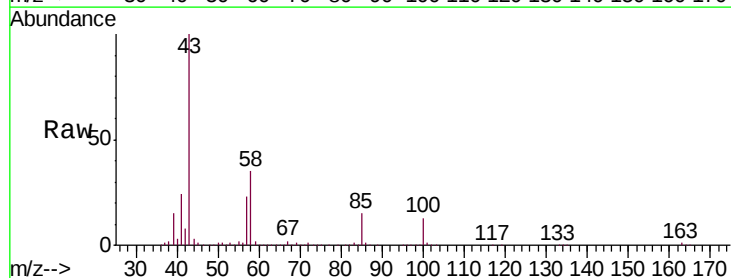
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

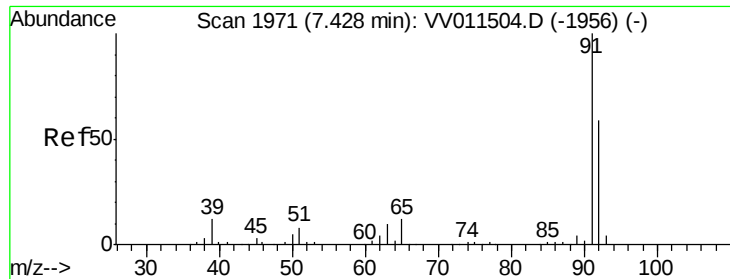
Tgt Ion: 75 Resp: 83271
 Ion Ratio Lower Upper
 75 100
 77 31.1 20.6 38.4



#40
 4-Methyl-2-pentanone
 Concen: 56.521 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion: 43 Resp: 527654
 Ion Ratio Lower Upper
 43 100
 58 35.6 28.7 43.1
 100 13.3 10.6 15.8





#42

Toluene

Concen: 4.843 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

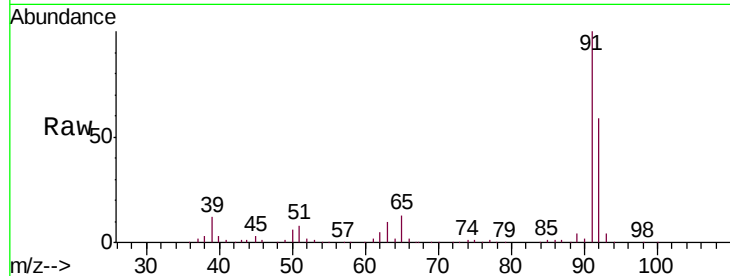
VSTD00555

Tgt Ion: 91 Resp: 246914

Ion Ratio Lower Upper

91 100

92 58.7 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV011504.D (-1956) (-)

Ion 92.15 (91.85 to 92.85): VV011504.D (-1956) (-)

7.43

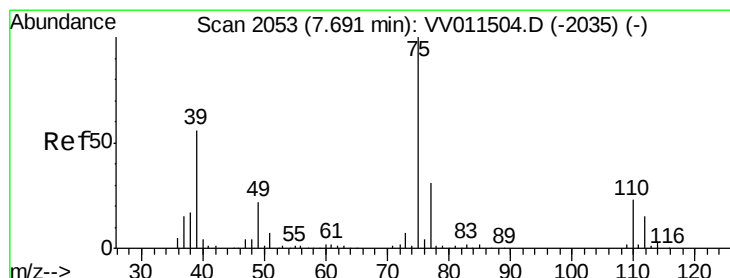
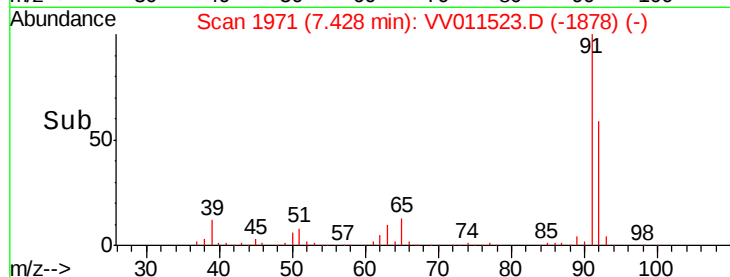
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.115 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011523.D

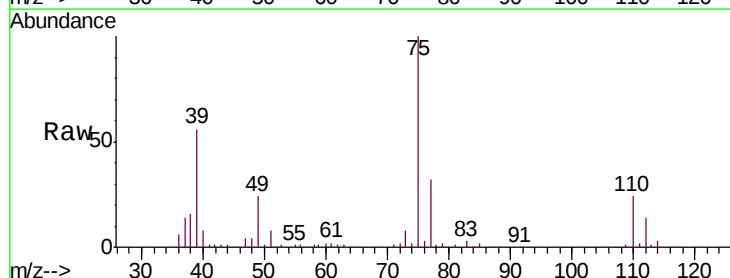
Acq: 15 Jun 2019 06:37

Tgt Ion: 75 Resp: 64502

Ion Ratio Lower Upper

75 100

77 32.3 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV011504.D (-2035) (-)

Ion 77.05 (76.75 to 77.75): VV011504.D (-2035) (-)

7.69

40000

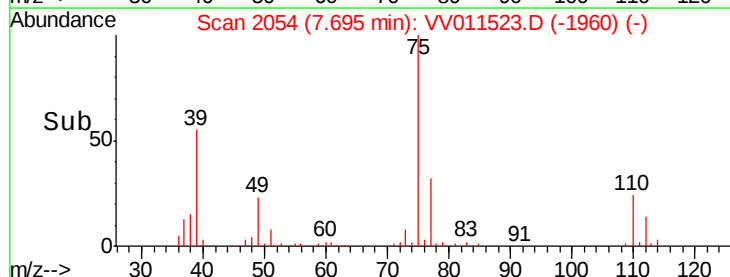
30000

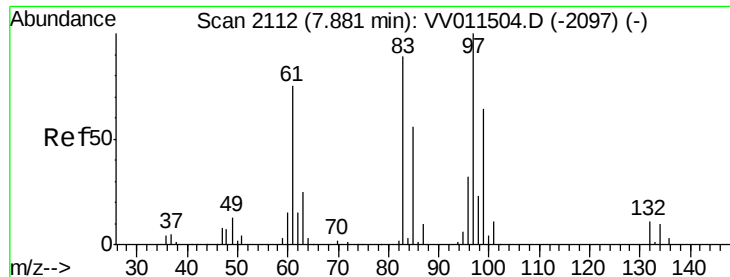
20000

10000

0

Time-->

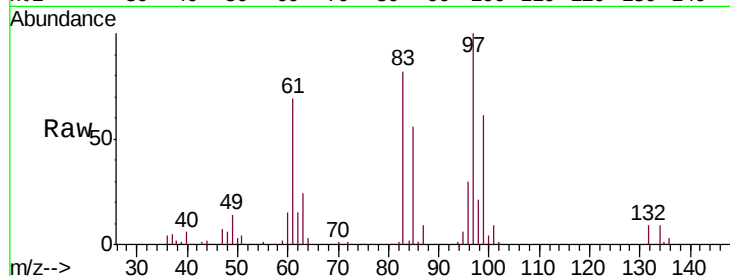




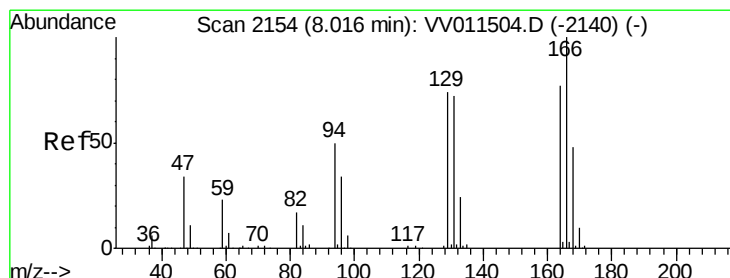
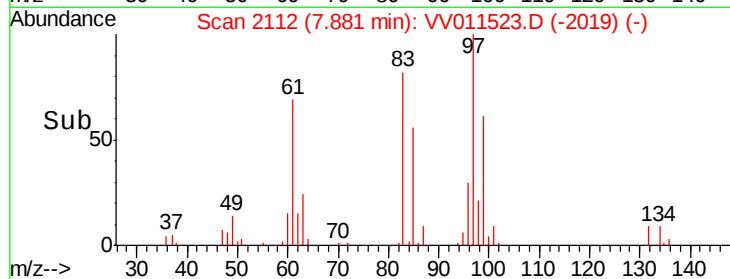
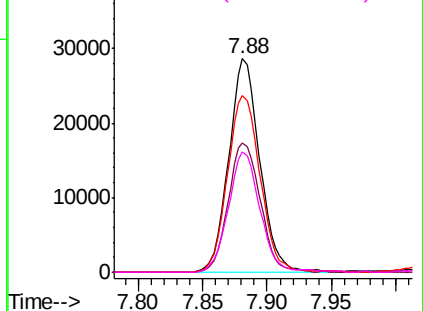
#45
 1,1,2-Trichloroethane
 Concen: 5.479 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

Tgt Ion:	97	Resp:	47901
Ion	Ratio	Lower	Upper
97	100		
99	60.6	45.4	84.4
83	82.5	60.6	112.6
85	56.2	38.6	71.6

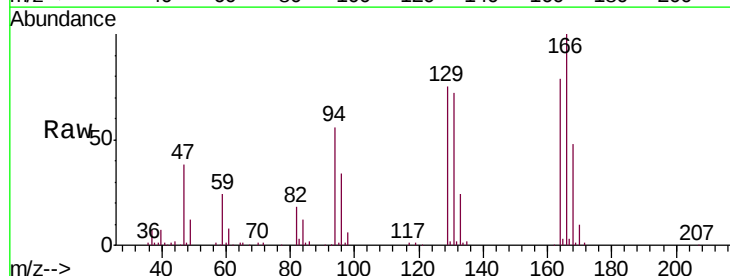


Abundance Ion 96.95 (96.65 to 97.65): VV011504.D (-2097) (-)
 Ion 99.05 (98.75 to 99.75): VV011504.D (-2097) (-)
 Ion 82.95 (82.65 to 83.65): VV011504.D (-2097) (-)
 Ion 85.00 (84.70 to 85.70): VV011504.D (-2097) (-)

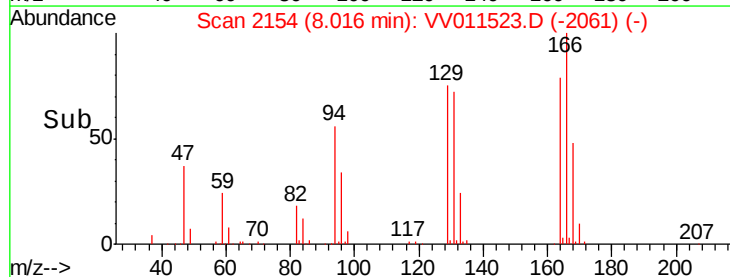
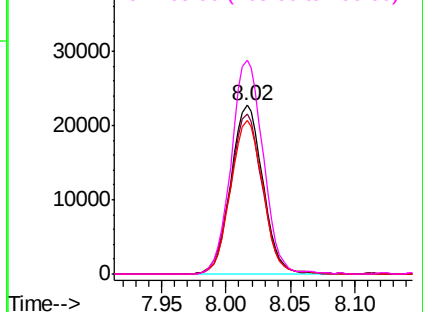


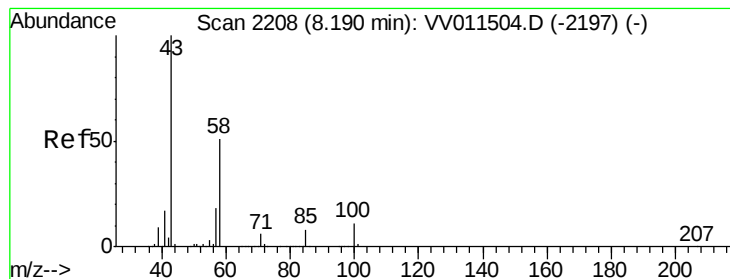
#47
 Tetrachloroethene
 Concen: 4.380 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion:	164	Resp:	39185
Ion	Ratio	Lower	Upper
164	100		
129	94.7	68.8	127.8
131	91.0	63.2	117.4
166	126.5	87.0	161.6



Abundance Ion 163.90 (163.60 to 164.60): VV011504.D (-2140) (-)
 Ion 128.95 (128.65 to 129.65): VV011504.D (-2140) (-)
 Ion 130.95 (130.65 to 131.65): VV011504.D (-2140) (-)
 Ion 165.90 (165.60 to 166.60): VV011504.D (-2140) (-)





#48

2-Hexanone

Concen: 55.849 ug/L

RT: 8.19 min Scan# 2208

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

Tgt Ion: 43 Resp: 366522

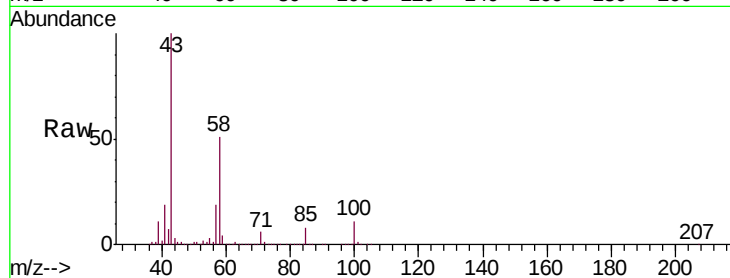
Ion Ratio Lower Upper

43 100

58 50.1 40.6 60.8

57 18.3 14.2 21.4

100 10.2 8.6 12.8

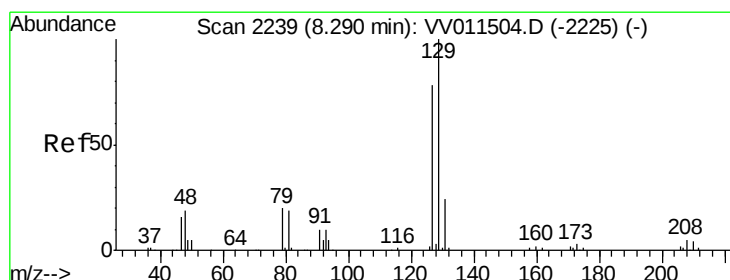
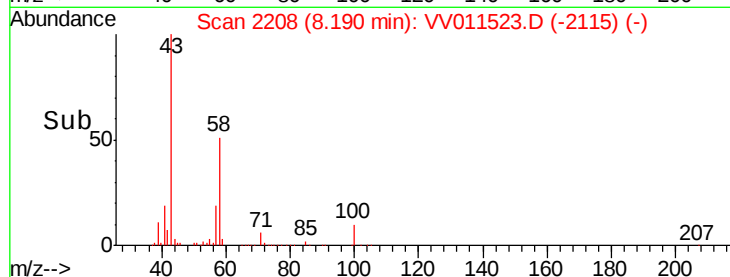
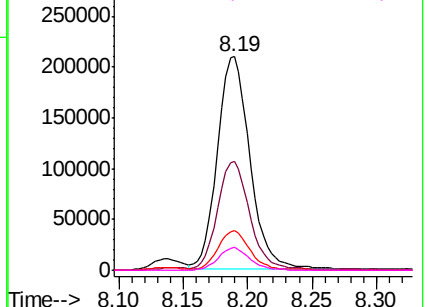


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0



#49

Dibromochloromethane

Concen: 5.206 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV011523.D

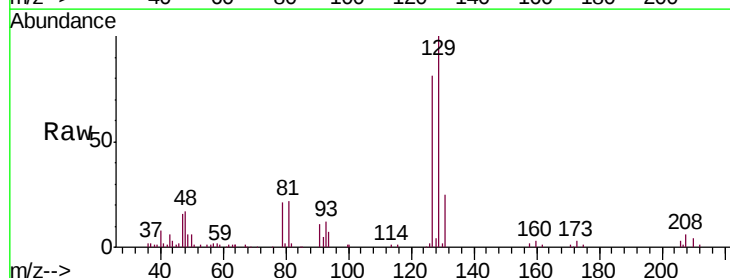
Acq: 15 Jun 2019 06:37

Tgt Ion: 129 Resp: 45726

Ion Ratio Lower Upper

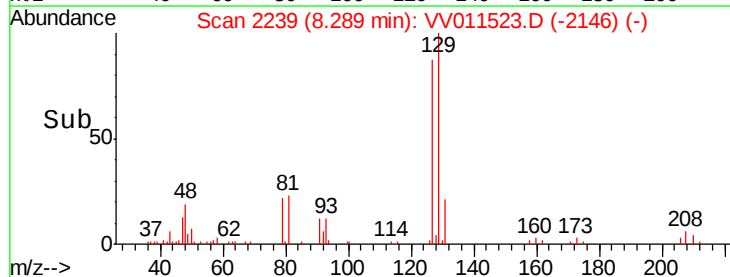
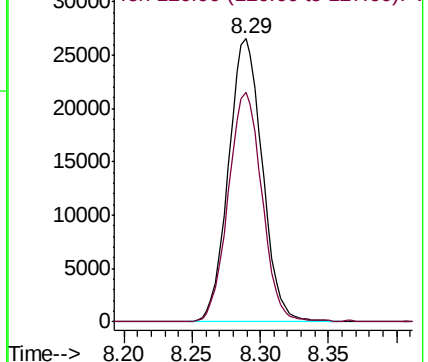
129 100

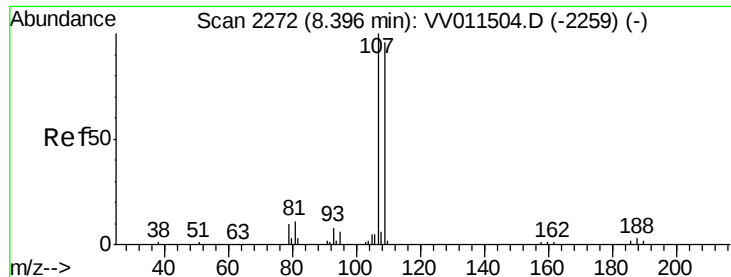
127 81.1 52.6 97.6



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

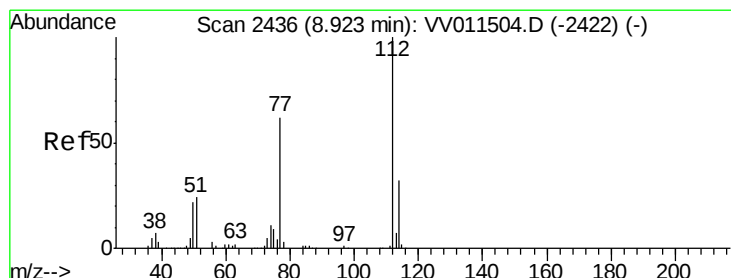
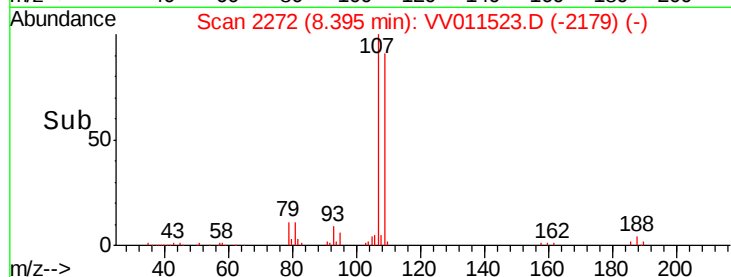
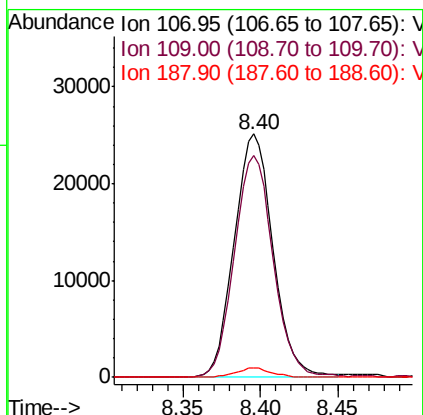
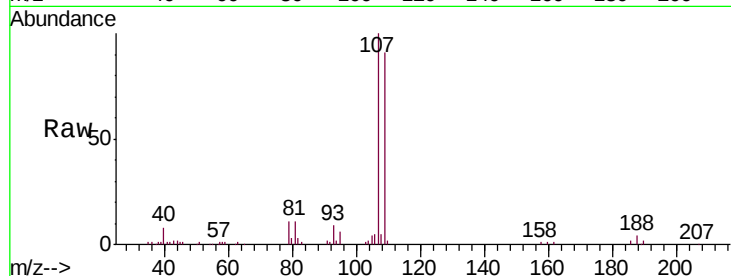




#50
 1,2-Dibromoethane
 Concen: 5.536 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

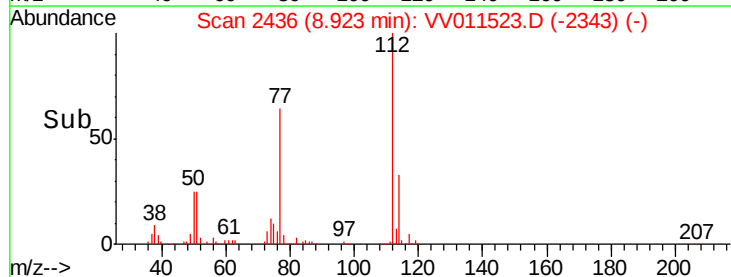
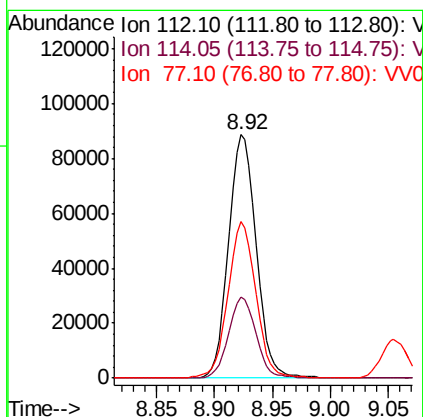
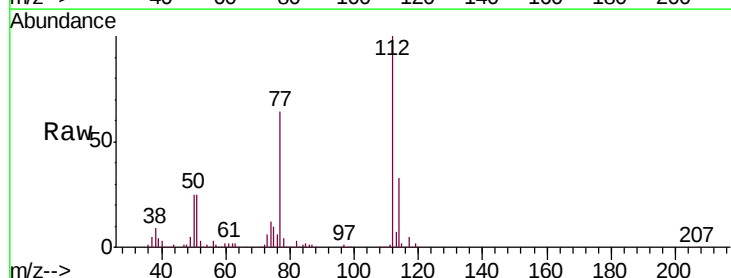
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

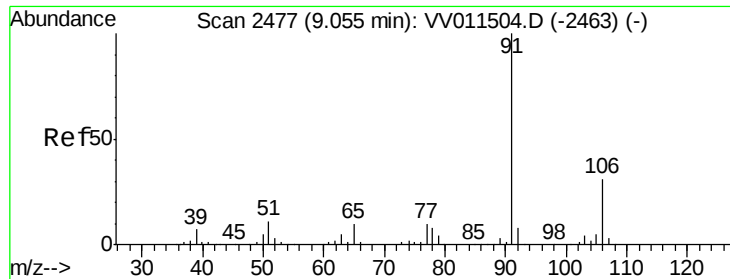
Tgt Ion:107 Resp: 43769
 Ion Ratio Lower Upper
 107 100
 109 91.2 65.7 121.9
 188 4.1 2.9 4.3



#51
 Chlorobenzene
 Concen: 4.659 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion:112 Resp: 145875
 Ion Ratio Lower Upper
 112 100
 114 33.1 21.9 40.7
 77 64.1 49.3 73.9





#52

Ethylbenzene

Concen: 4.517 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

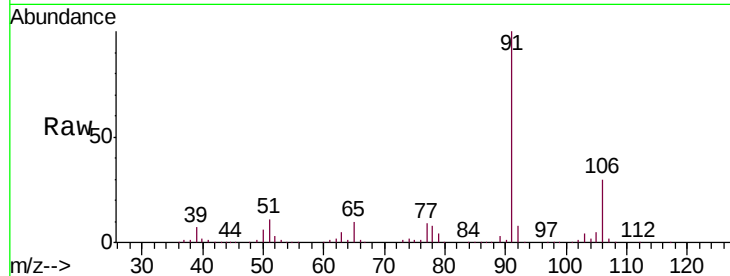
VSTD00555

Tgt Ion: 91 Resp: 241906

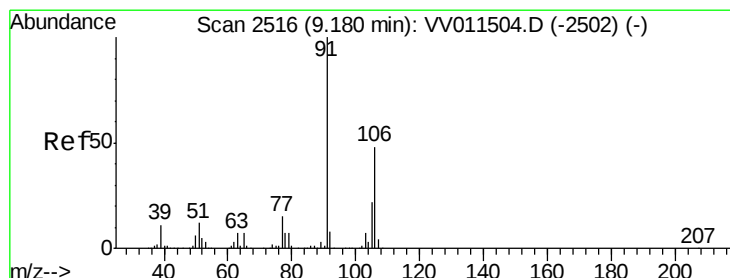
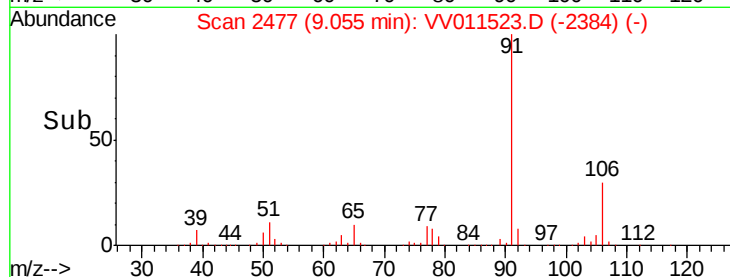
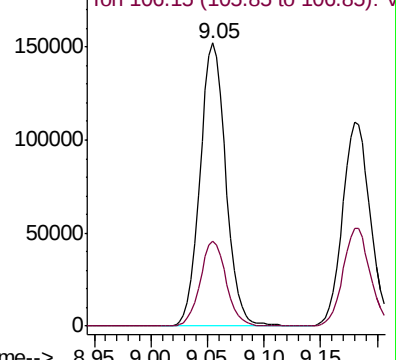
Ion Ratio Lower Upper

91 100

106 29.9 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VV011523.D (-2384) (-)



#53

m,p-xylene

Concen: 4.518 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV011523.D

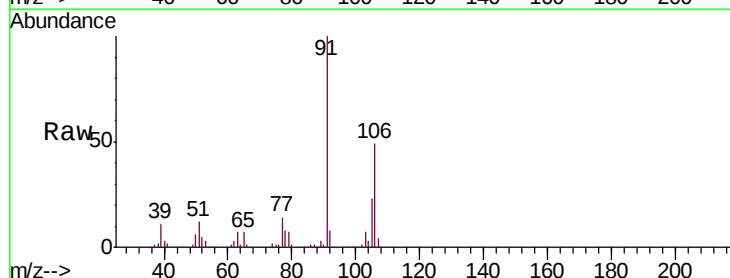
Acq: 15 Jun 2019 06:37

Tgt Ion: 106 Resp: 88533

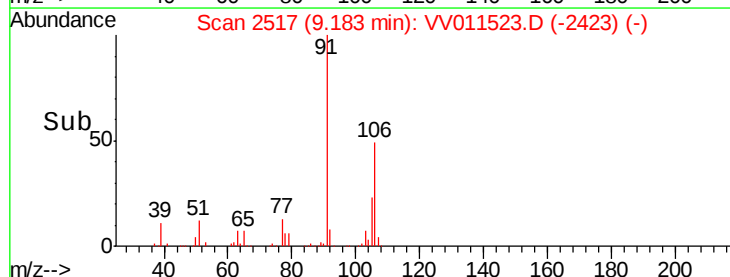
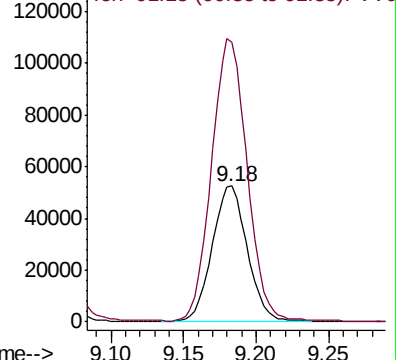
Ion Ratio Lower Upper

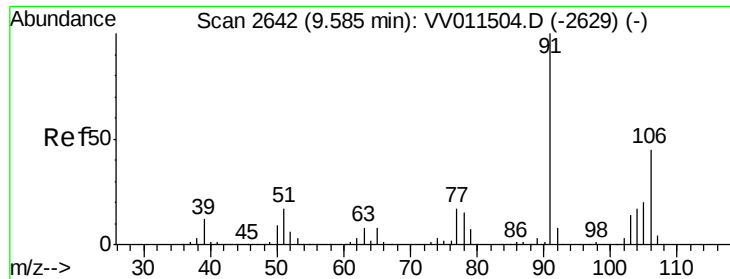
106 100

91 206.2 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV011523.D (-2423) (-)





#54

o-xylene

Concen: 4.746 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

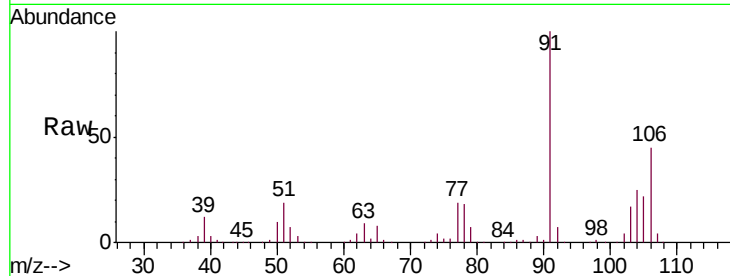
VSTD00555

Tgt Ion:106 Resp: 93413

Ion Ratio Lower Upper

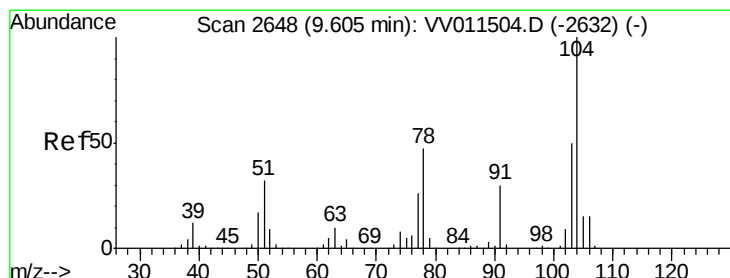
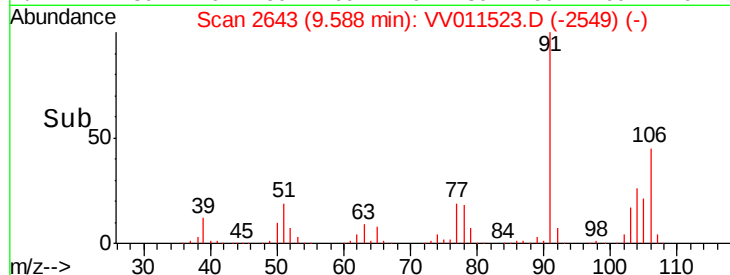
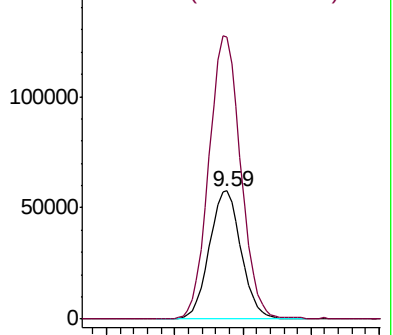
106 100

91 220.2 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.757 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV011523.D

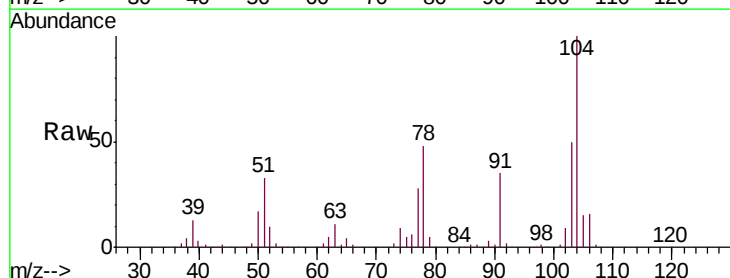
Acq: 15 Jun 2019 06:37

Tgt Ion:104 Resp: 155304

Ion Ratio Lower Upper

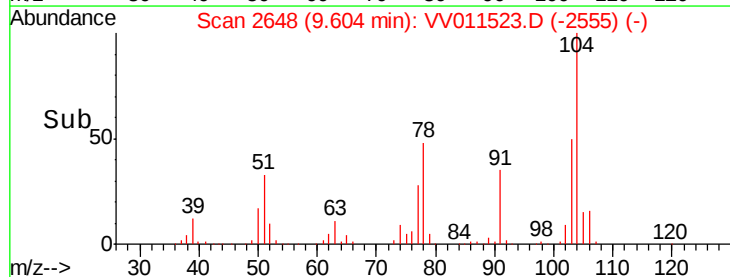
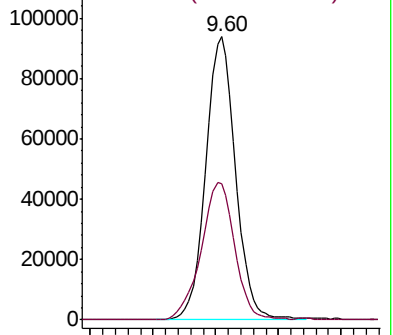
104 100

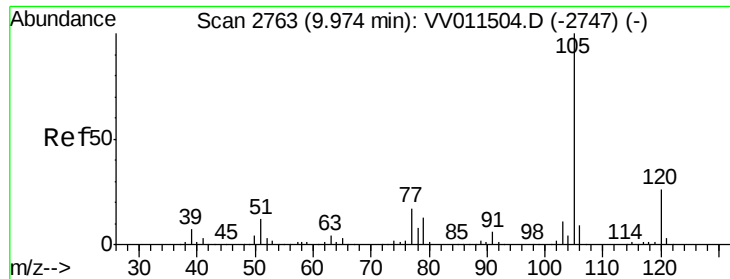
78 48.3 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.409 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

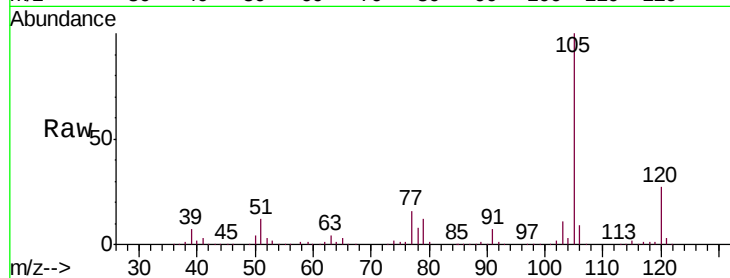
Tgt Ion: 105 Resp: 220892

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

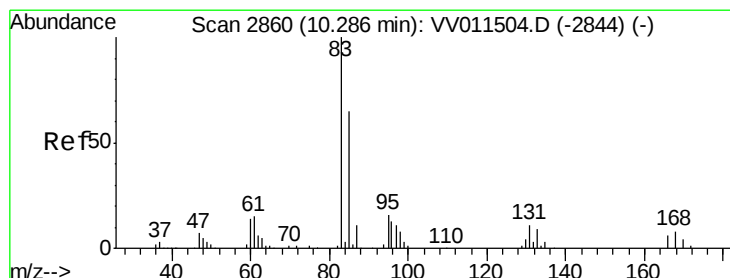
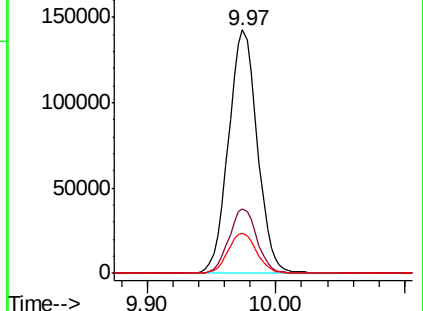
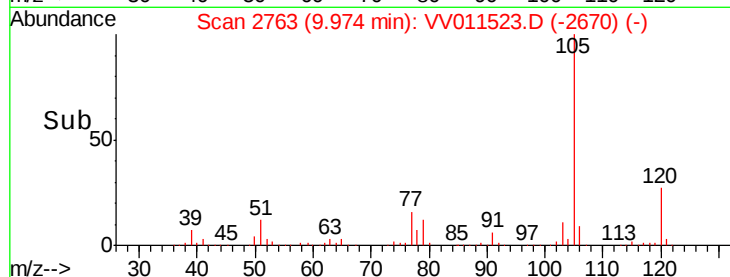
77 16.5 13.8 20.8



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: 5.200 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

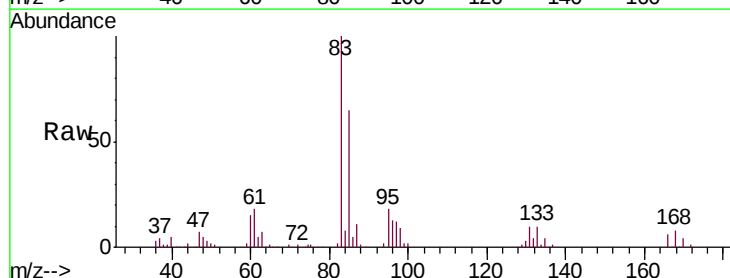
Tgt Ion: 83 Resp: 55589

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.8

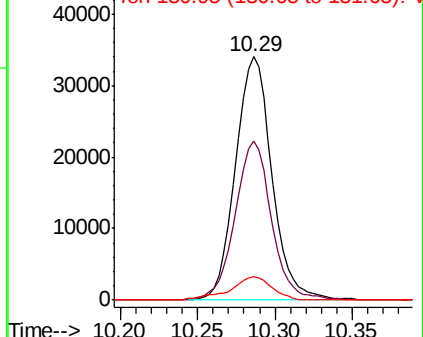
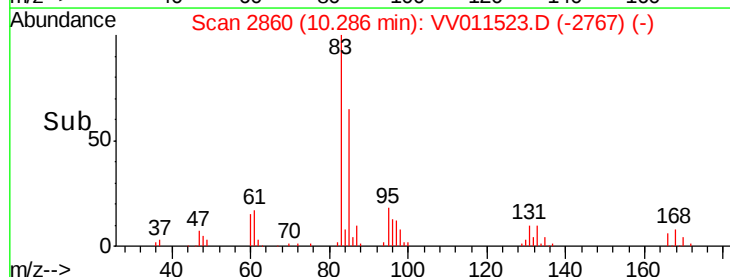
131 9.7 7.9 11.9

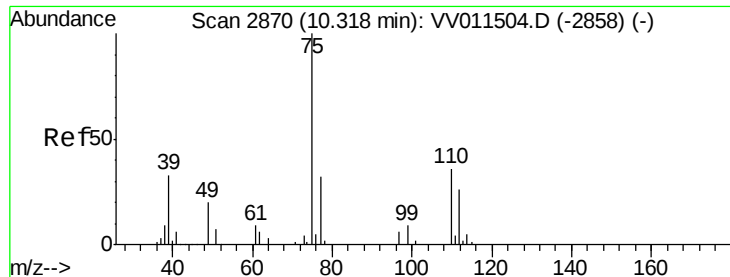


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.259 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

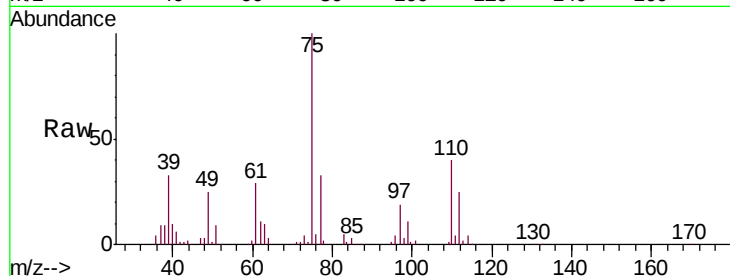
VSTD00555

Tgt Ion: 75 Resp: 43002

Ion Ratio Lower Upper

75 100

77 32.5 26.0 39.0

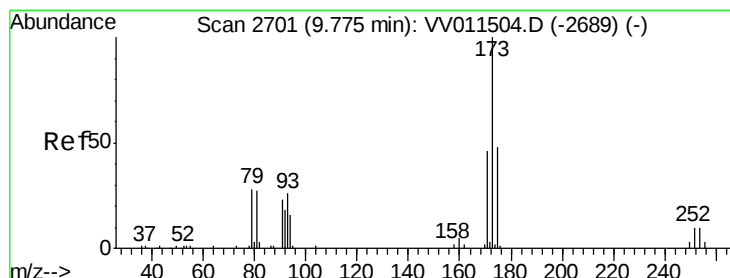
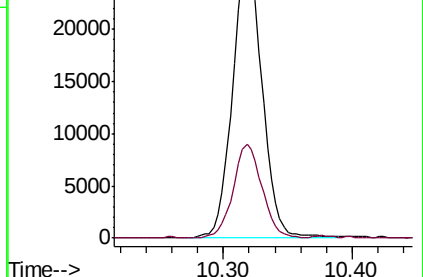
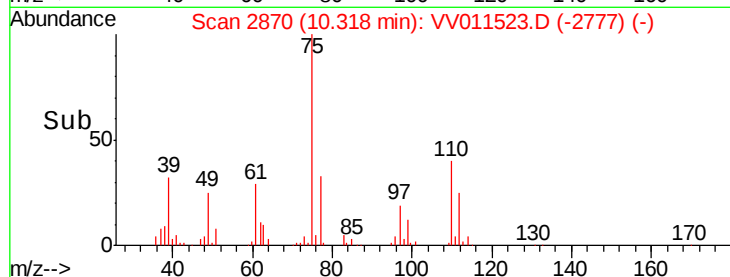


Abundance Ion 75.00 (74.70 to 75.70): VV011504.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV011504.D (-2858) (-)

10.32

Time-->



#61

Bromoform

Concen: 5.489 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

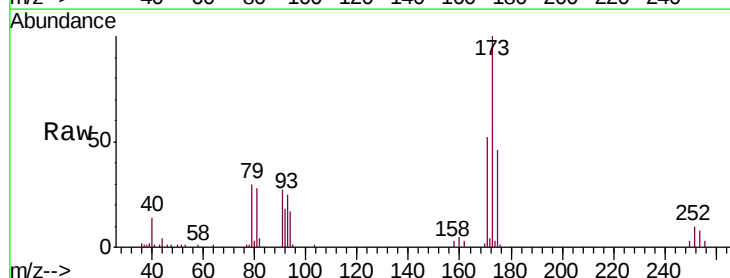
Tgt Ion: 173 Resp: 21672

Ion Ratio Lower Upper

173 100

175 47.2 38.3 57.5

254 9.1 7.9 11.9



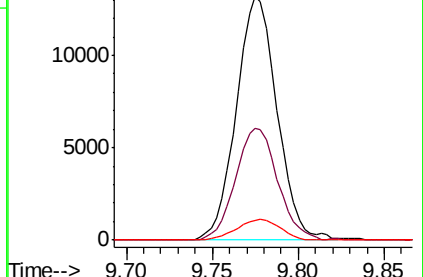
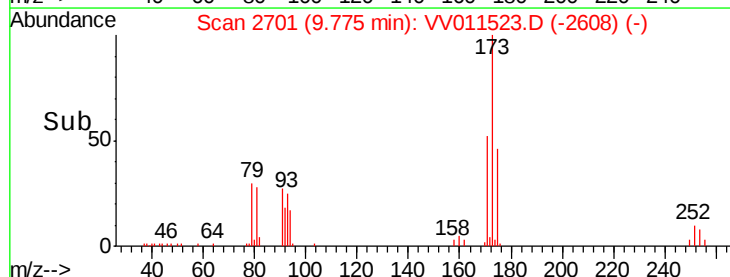
Abundance Ion 172.90 (172.60 to 173.60): VV011504.D (-2689) (-)

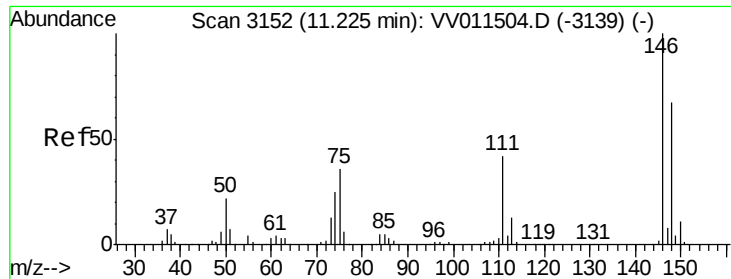
Ion 174.90 (174.60 to 175.60): VV011504.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV011504.D (-2689) (-)

9.77

Time-->

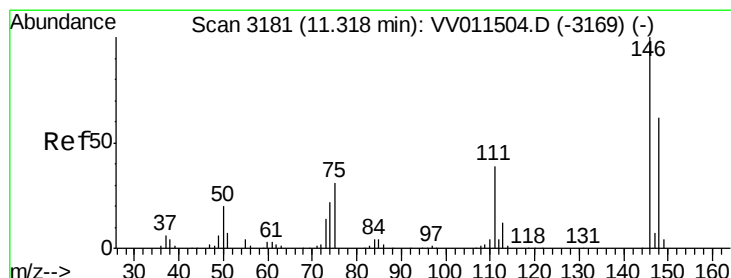
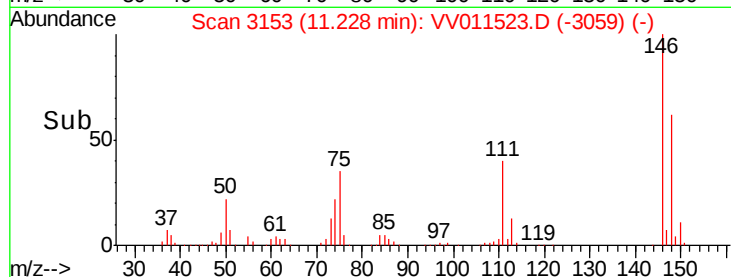
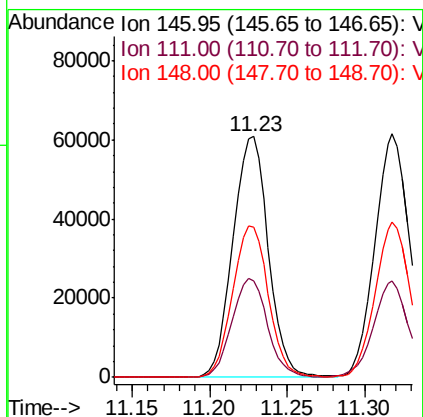
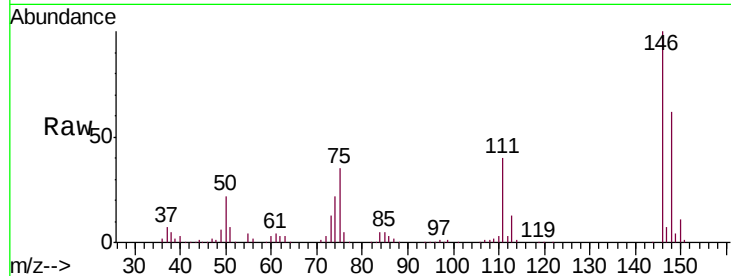




#62
 1,3-Dichlorobenzene
 Concen: 4.817 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

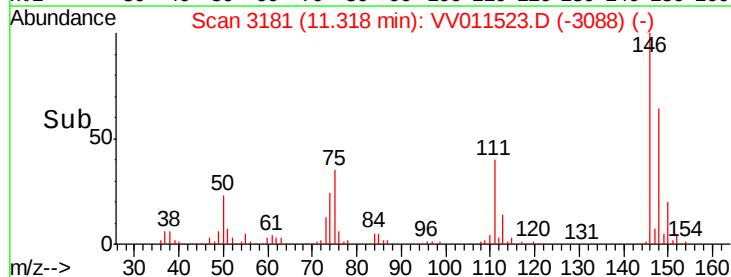
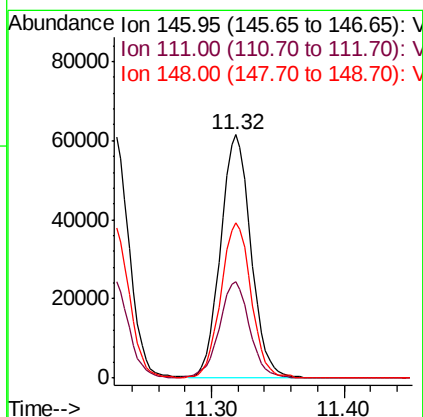
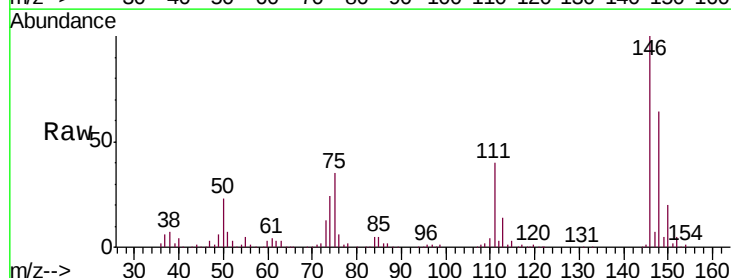
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

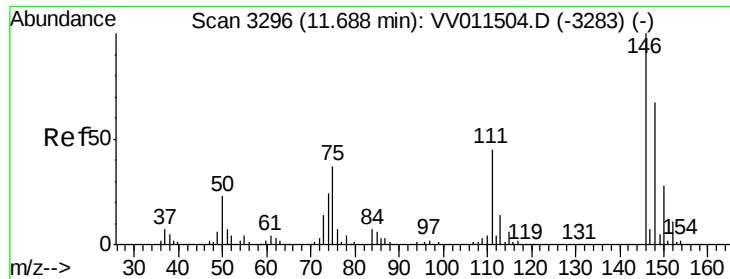
Tgt Ion:146 Resp: 96724
 Ion Ratio Lower Upper
 146 100
 111 40.2 29.2 54.2
 148 62.3 44.3 82.3



#63
 1,4-Dichlorobenzene
 Concen: 4.758 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion:146 Resp: 97336
 Ion Ratio Lower Upper
 146 100
 111 39.6 26.7 49.7
 148 63.7 44.2 82.2





#65

1,2-Dichlorobenzene

Concen: 5.058 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

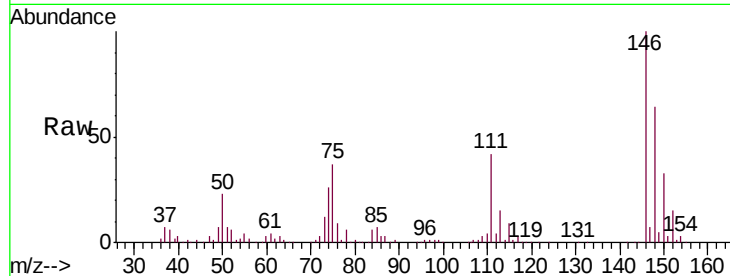
Tgt Ion:146 Resp: 102239

Ion Ratio Lower Upper

146 100

111 42.3 35.3 52.9

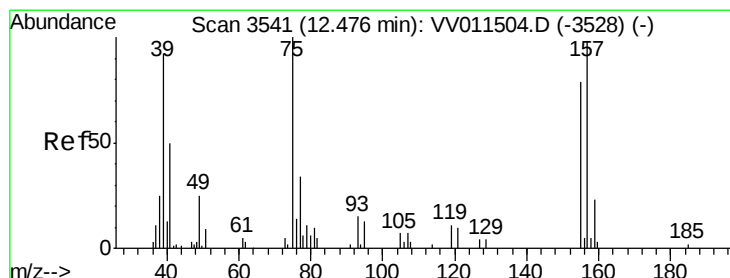
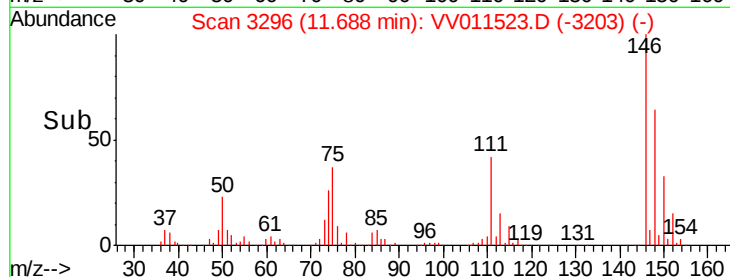
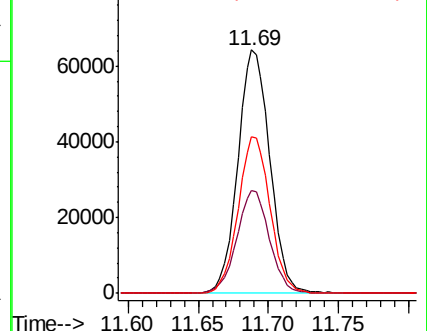
148 64.2 51.3 76.9



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: 5.234 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

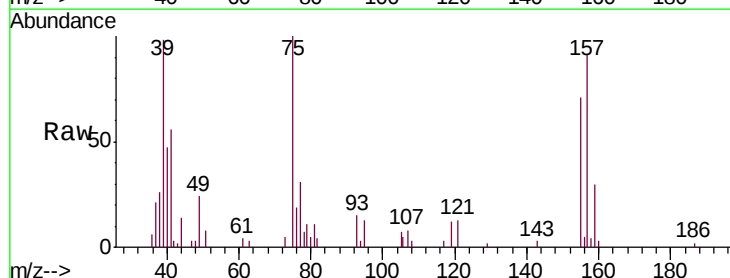
Tgt Ion: 75 Resp: 7682

Ion Ratio Lower Upper

75 100

155 70.7 58.5 87.7

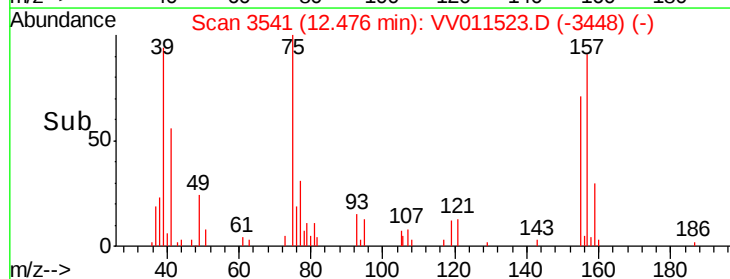
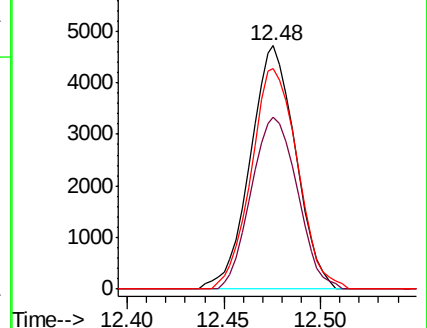
157 90.7 79.8 119.6

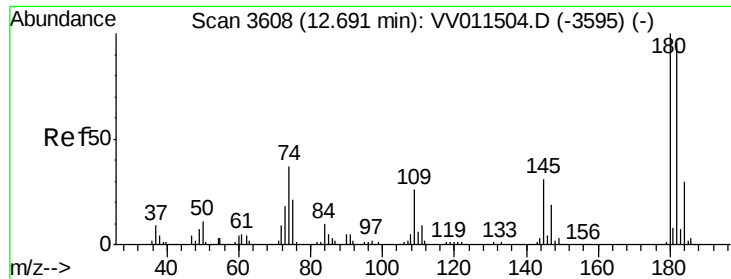


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

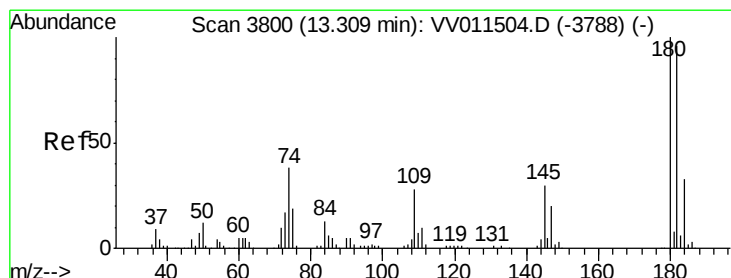
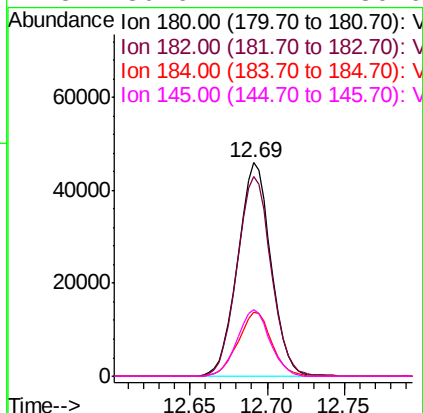
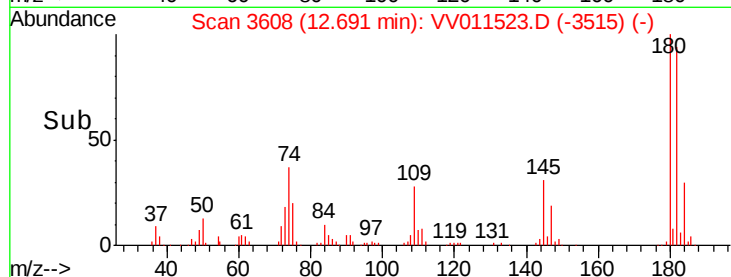
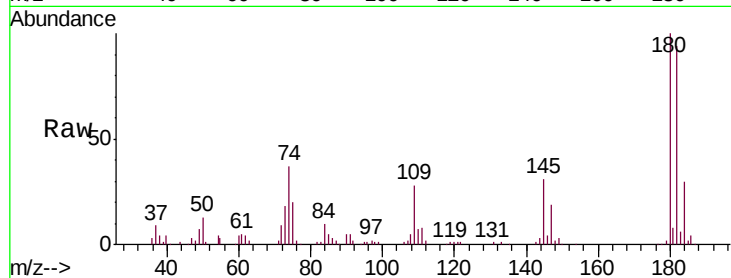




#67
 1,3,5-Trichlorobenzene
 Concen: 4.675 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

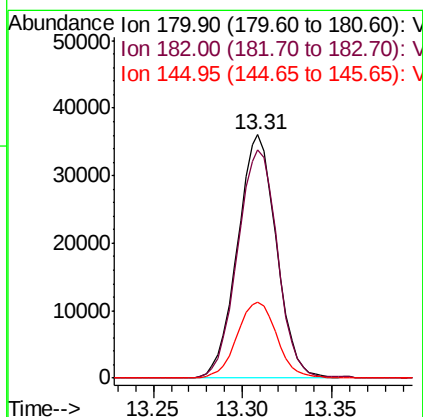
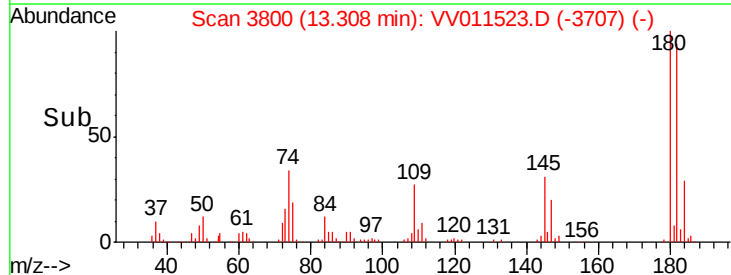
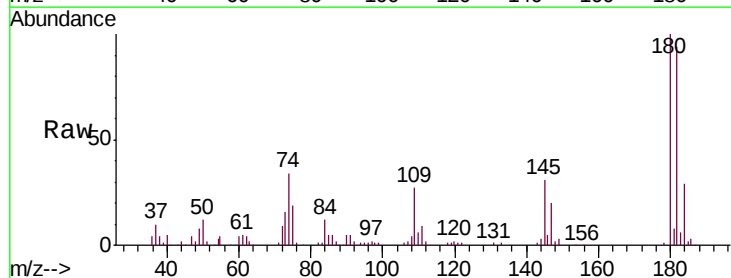
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00555

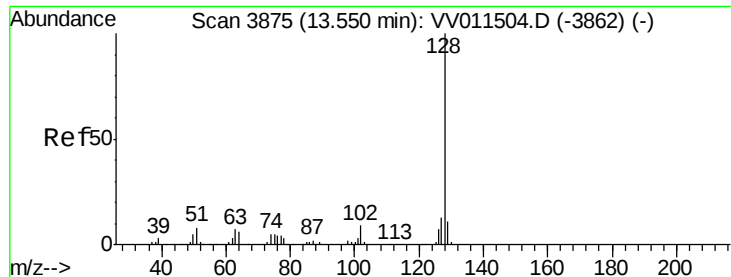
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.4	113.0
184	30.3	24.0	36.0
145	30.6	24.4	36.6



#68
 1,2,4-trichlorobenzene
 Concen: 4.643 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011523.D
 Acq: 15 Jun 2019 06:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.4
145	31.9	24.7	37.1





#69

Naphthalene

Concen: 4.908 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00555

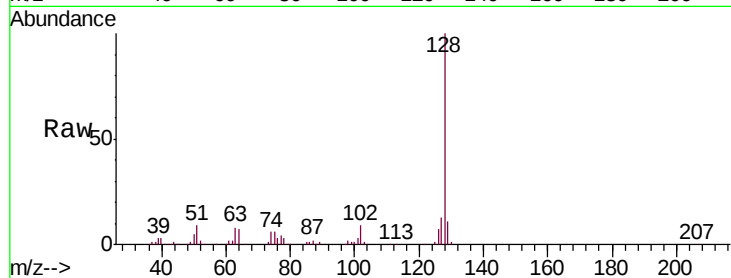
Tgt Ion:128 Resp: 113662

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

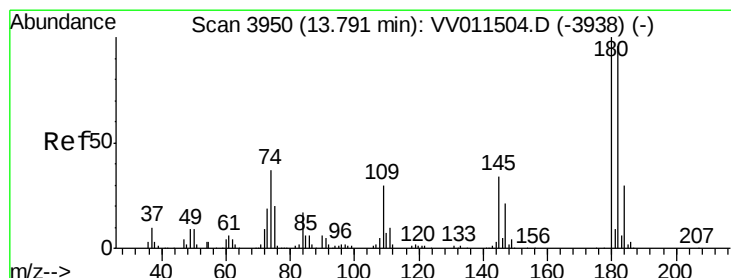
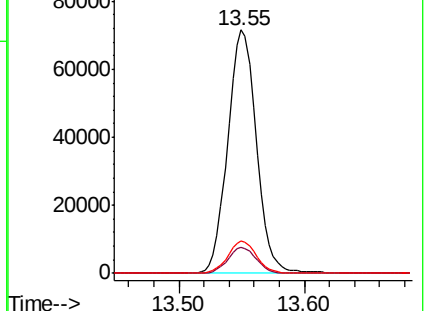
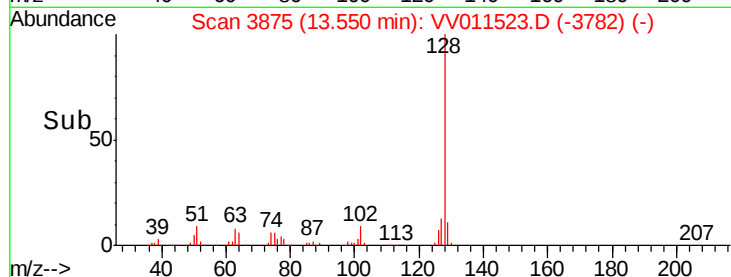
127 13.3 10.9 16.3



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: 4.938 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011523.D

Acq: 15 Jun 2019 06:37

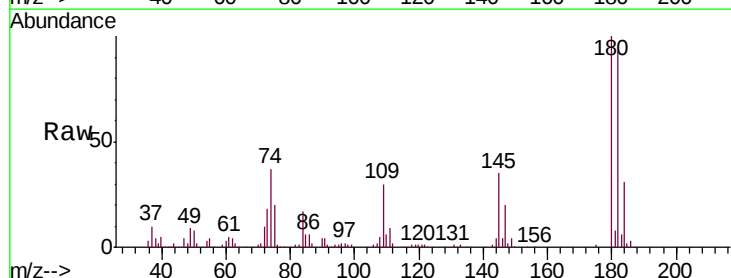
Tgt Ion:180 Resp: 56391

Ion Ratio Lower Upper

180 100

182 92.5 76.6 115.0

145 32.4 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

