

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062019\
 Data File : VV011616.D
 Acq On : 19 Jun 2019 12:54
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25ML/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Quant Time: Jun 20 02:01:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 19 07:50:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	181046	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	170405	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	76131	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	77383	5.66	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	113.20%
7) Chloroethane-d5	1.58	69	54131	6.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	125.00%
11) 1,1-Dichloroethene-d2	2.12	63	147067	5.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	113.00%
20) 2-Butanone-d5	3.96	46	187236	48.68	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.36%
24) Chloroform-d	4.40	84	144039	5.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.60%
26) 1,2-Dichloroethane-d4	5.08	65	78609	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	108.20%
32) Benzene-d6	5.09	84	291665	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	114.60%
36) 1,2-Dichloropropane-d6	6.11	67	87779	5.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.80%
41) Toluene-d8	7.36	98	270143	5.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	119.20%
43) trans-1,3-Dichloropropene-	7.66	79	30442	5.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	113.40%
46) 2-Hexanone-d5	8.14	63	145819	47.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.10%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	60825	5.03	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	86419	5.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	90376	5.596 ug/L	98
3) Chloromethane	1.25	50	78284	4.475 ug/L	98
5) Vinyl chloride	1.32	62	78374	4.536 ug/L	98
6) Bromomethane	1.53	94	41079	5.686 ug/L	96
8) Chloroethane	1.60	64	43270	5.172 ug/L	95
9) Trichlorofluoromethane	1.76	101	105683	5.553 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	62201	5.722 ug/L	98
12) 1,1-Dichloroethene	2.13	96	55339	4.915 ug/L	90
13) Acetone	2.22	43	111808	43.135 ug/L	98
14) Carbon disulfide	2.31	76	127174	4.178 ug/L	100
15) Methyl Acetate	2.47	43	28848	4.198 ug/L	98
16) Methylene chloride	2.53	84	60224	4.706 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	157312	4.660 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	63962	5.024 ug/L	99
19) 1,1-Dichloroethane	3.22	63	132422	5.028 ug/L	98
21) 2-Butanone	4.05	43	183432	44.729 ug/L	98
22) cis-1,2-Dichloroethene	3.95	96	69840	4.842 ug/L	99

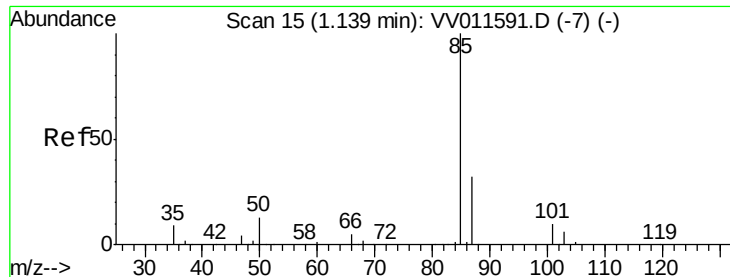
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV062019\
 Data File : VV011616.D
 Acq On : 19 Jun 2019 12:54
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25ML/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Quant Time: Jun 20 02:01:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061419WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jun 19 07:50:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	26662	4.703	ug/L	97
25) Chloroform	4.42	83	136596	5.168	ug/L	99
27) 1,2-Dichloroethane	5.18	62	87919	4.720	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	108011	5.094	ug/L	99
30) Cyclohexane	4.71	56	116686	5.327	ug/L	98
31) Carbon tetrachloride	4.87	117	89230	5.201	ug/L	100
33) Benzene	5.14	78	284259	5.107	ug/L	100
34) Trichloroethene	5.96	95	72145	5.083	ug/L	97
35) Methylcyclohexane	6.17	83	116108	5.737	ug/L	99
37) 1,2-Dichloropropane	6.22	63	71563	4.830	ug/L	99
38) Bromodichloromethane	6.55	83	80725	4.796	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	95816	5.138	ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	457728	43.340	ug/L	100
42) Toluene	7.43	91	304758	5.284	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	72179	5.059	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	45796	4.631	ug/L	97
47) Tetrachloroethene	8.02	164	54642	5.398	ug/L	96
48) 2-Hexanone	8.19	43	329259	44.348	ug/L	99
49) Dibromochloromethane	8.29	129	46481	4.678	ug/L	96
50) 1,2-Dibromoethane	8.40	107	42339	4.734	ug/L #	99
51) Chlorobenzene	8.92	112	182954	5.165	ug/L	98
52) Ethylbenzene	9.05	91	331030	5.464	ug/L	99
53) m,p-xylene	9.18	106	122468	5.524	ug/L	97
54) o-xylene	9.59	106	121308	5.448	ug/L	97
55) Styrene	9.60	104	196343	5.316	ug/L	98
56) Isopropylbenzene	9.97	105	316861	5.591	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	54831	4.534	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	41276	4.462	ug/L	98
61) Bromoform	9.77	173	20856	4.297	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	131843	5.341	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	131918	5.246	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	127542	5.133	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	7231	4.007	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	97982	5.434	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	73287	5.062	ug/L	99
69) Naphthalene	13.55	128	116850	4.104	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	69266	4.934	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.596 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

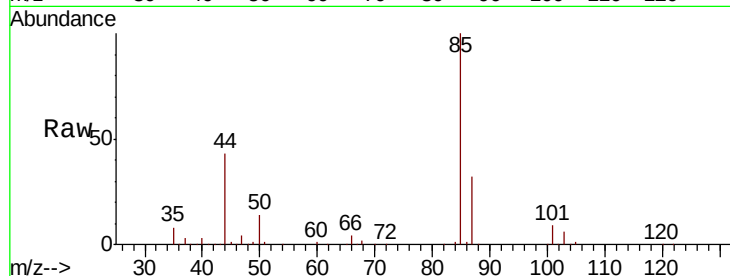
VSTD00560

Tgt Ion: 85 Resp: 90376

Ion Ratio Lower Upper

85 100

87 31.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.14

100000

80000

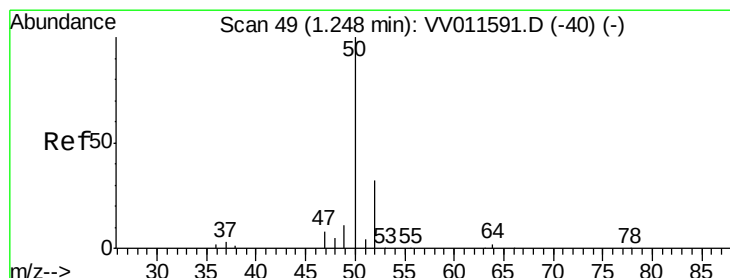
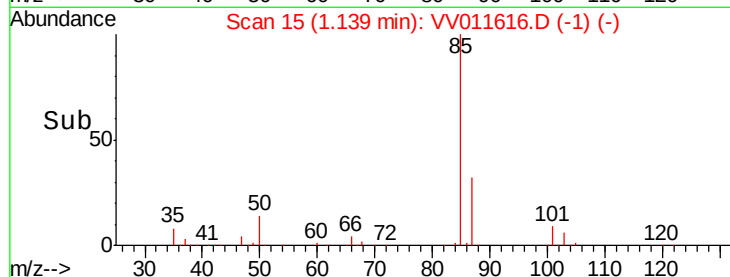
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.475 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011616.D

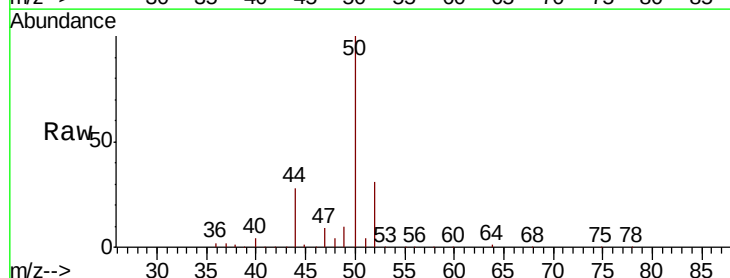
Acq: 19 Jun 2019 12:54

Tgt Ion: 50 Resp: 78284

Ion Ratio Lower Upper

50 100

52 31.1 22.7 42.1



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.25

100000

80000

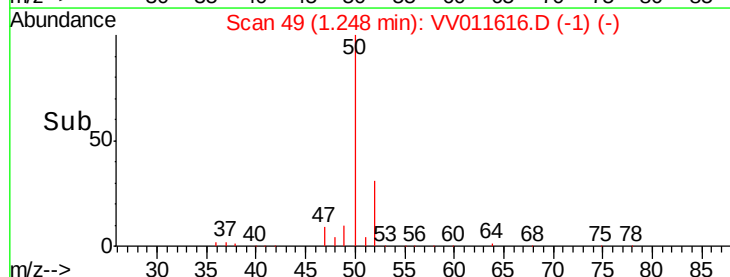
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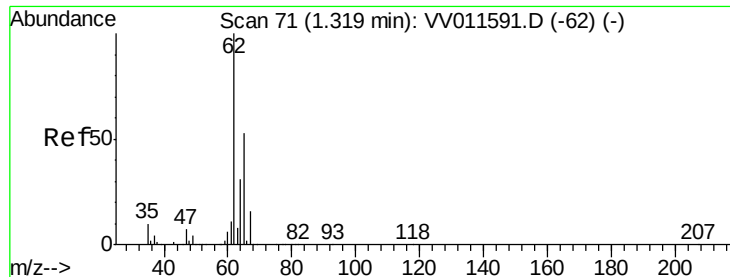
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.536 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

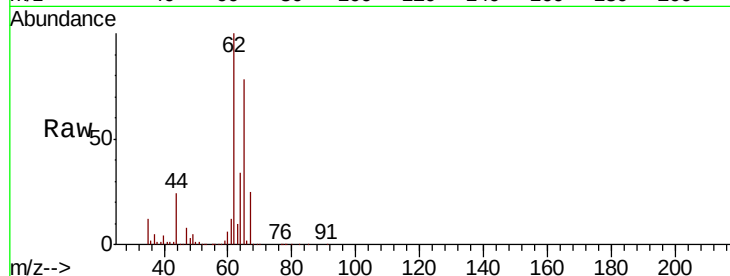
VSTD00560

Tgt Ion: 62 Resp: 78374

Ion Ratio Lower Upper

62 100

64 34.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV011591.D (-62) (-)

Ion 64.10 (63.80 to 64.80): VV011591.D (-62) (-)

80000

60000

40000

20000

0

1.25

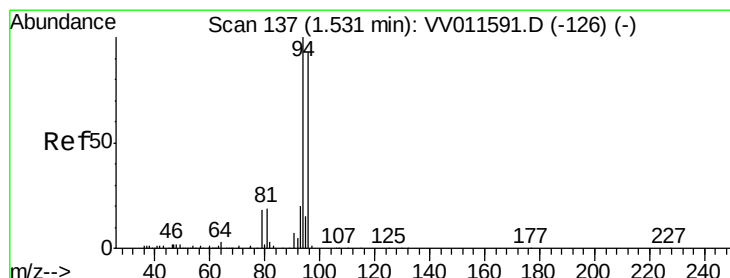
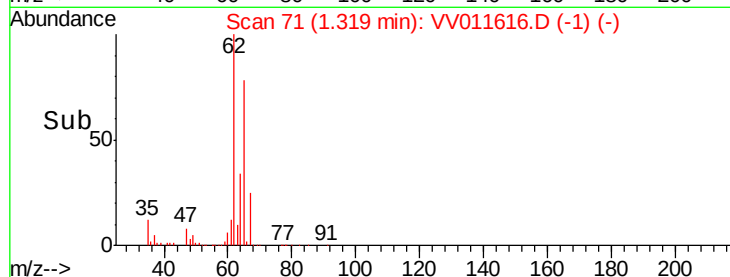
1.30

1.32

1.35

1.40

Time-->



#6

Bromomethane

Concen: 5.686 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV011616.D

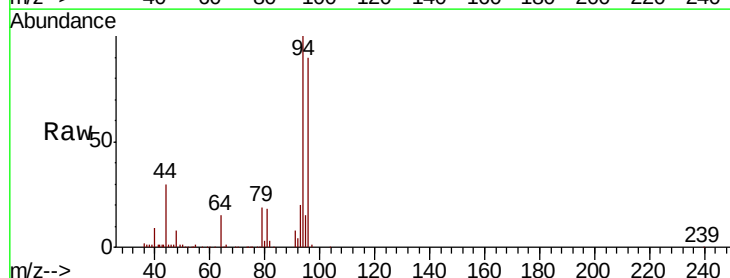
Acq: 19 Jun 2019 12:54

Tgt Ion: 94 Resp: 41079

Ion Ratio Lower Upper

94 100

96 90.1 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VV011591.D (-126) (-)

Ion 96.00 (95.70 to 96.70): VV011591.D (-126) (-)

40000

30000

20000

10000

0

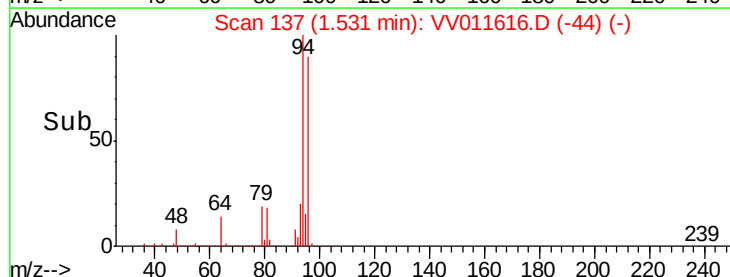
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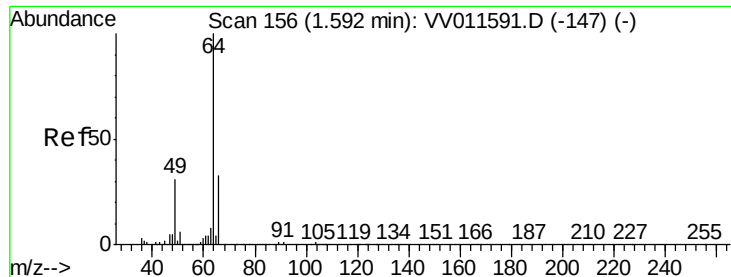
1.53

1.55

1.60

Time-->





#8

Chloroethane

Concen: 5.172 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

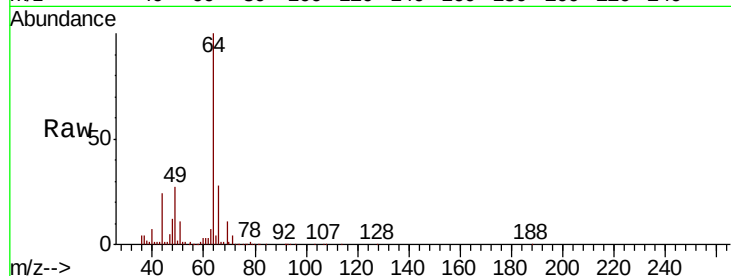
VSTD00560

Tgt Ion: 64 Resp: 43270

Ion Ratio Lower Upper

64 100

66 27.9 21.6 40.2



Abundance Ion 64.10 (63.80 to 64.80): VV011616.D (-64) (-)

Ion 66.05 (65.75 to 66.75): VV011616.D (-64) (-)

1.60

40000

30000

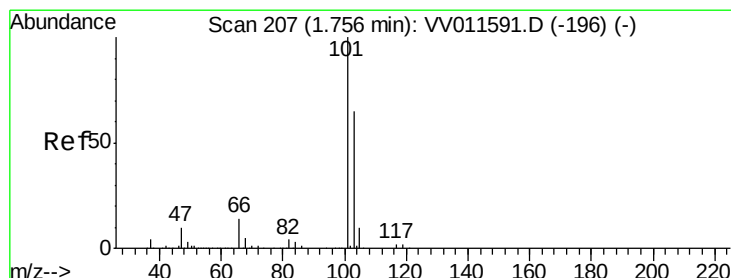
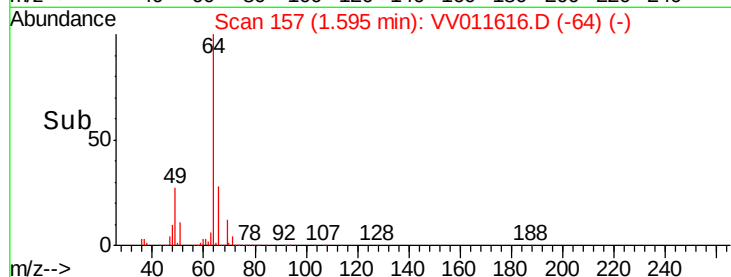
20000

10000

0

Time-->

1.55 1.60 1.65



#9

Trichlorofluoromethane

Concen: 5.553 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV011616.D

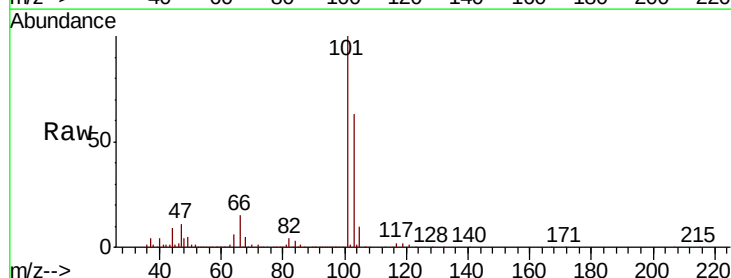
Acq: 19 Jun 2019 12:54

Tgt Ion: 101 Resp: 105683

Ion Ratio Lower Upper

101 100

103 63.3 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV011616.D (-114) (-)

Ion 103.00 (102.70 to 103.70): VV011616.D (-114) (-)

1.76

100000

80000

60000

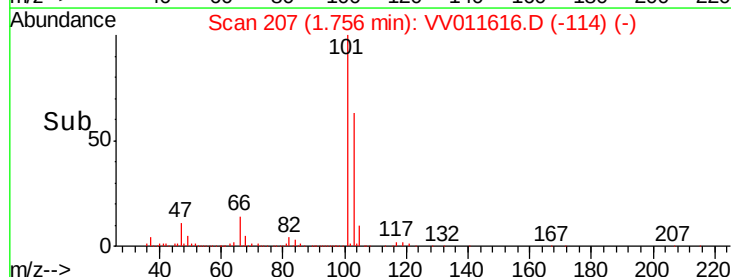
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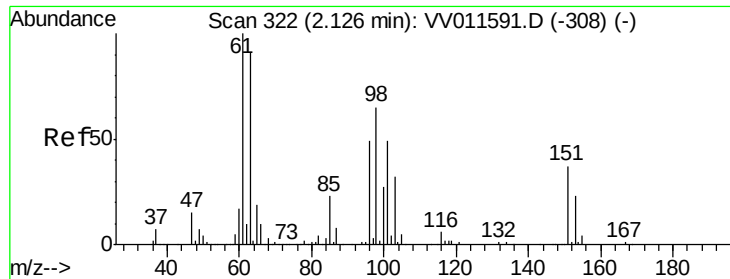
20000

0

Time-->

1.70 1.75 1.80





#10

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

Concen: 5.722 ug/L

RT: 2.13 min Scan# 322

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

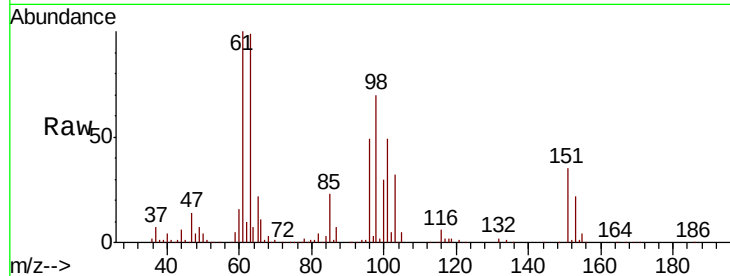
Tgt Ion:101 Resp: 62201

Ion Ratio Lower Upper

101 100

85 45.8 37.3 55.9

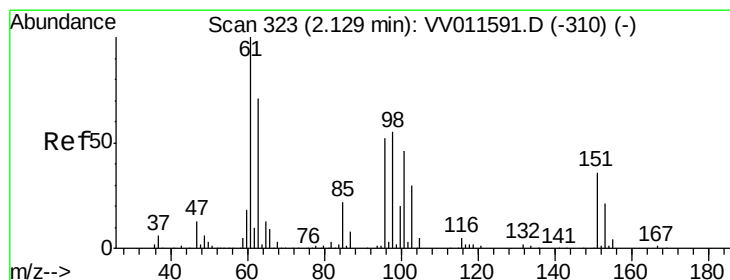
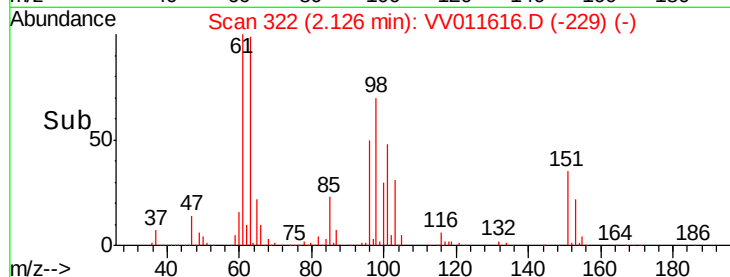
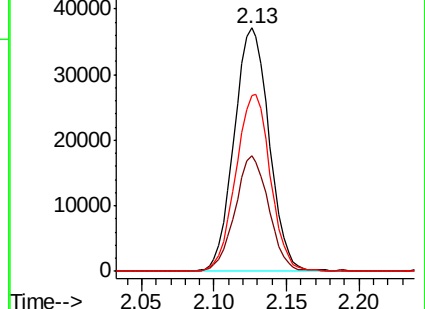
151 71.8 59.4 89.2



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: 4.915 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

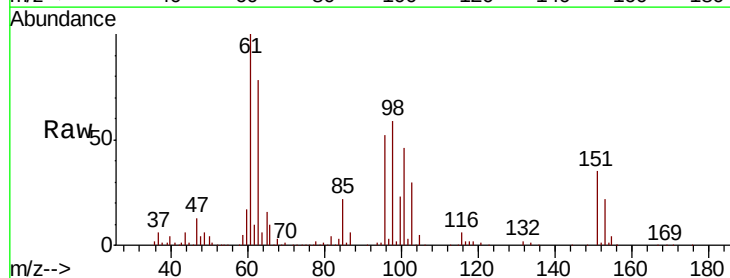
Tgt Ion: 96 Resp: 55339

Ion Ratio Lower Upper

96 100

61 193.8 135.9 252.5

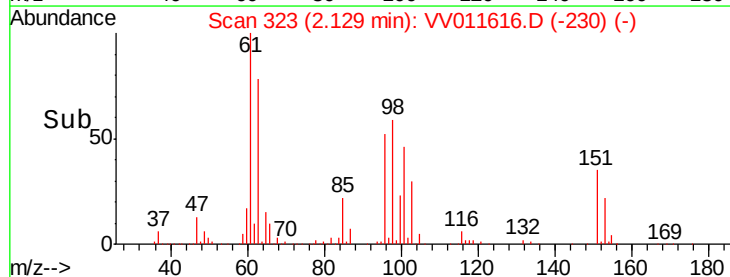
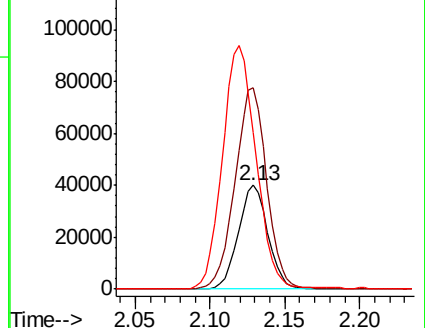
63 150.6 86.2 160.2

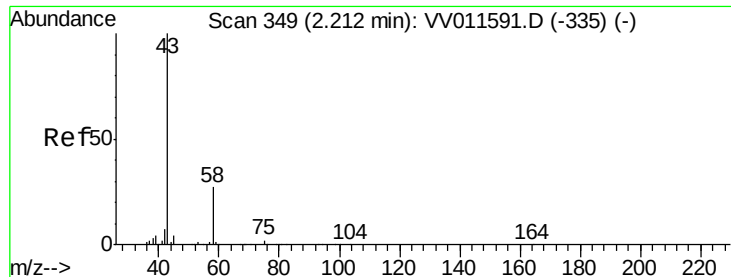


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 43.135 ug/L

RT: 2.22 min Scan# 351

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

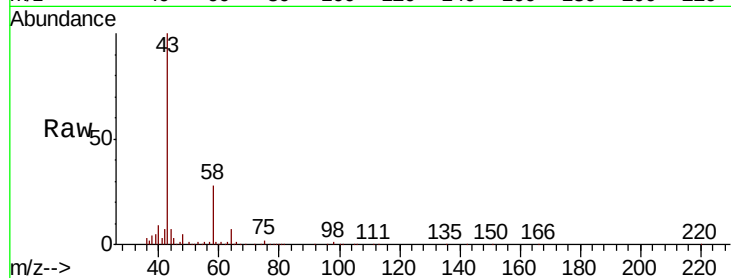
VSTD00560

Tgt Ion: 43 Resp: 111808

Ion Ratio Lower Upper

43 100

58 28.1 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

40000

30000

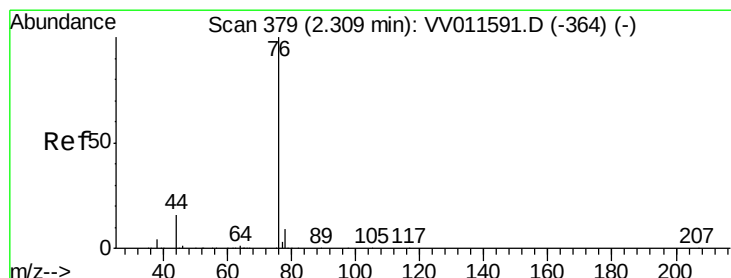
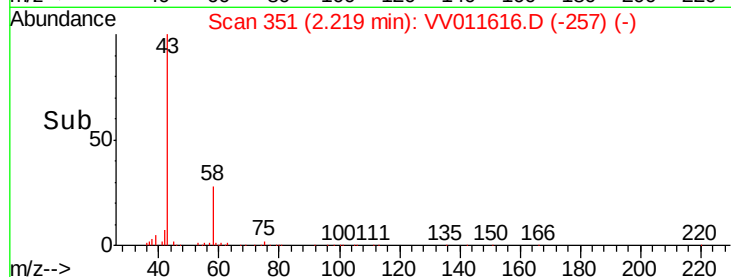
20000

10000

0

2.10 2.20 2.30 2.40

Time-->



#14

Carbon disulfide

Concen: 4.178 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV011616.D

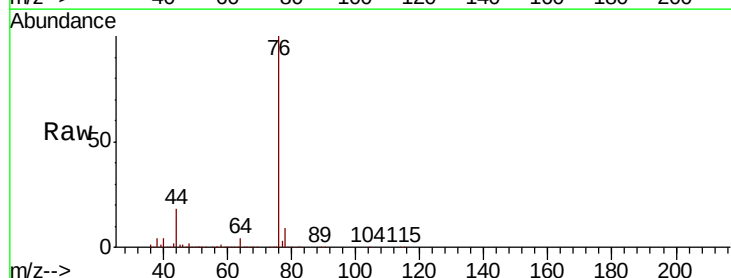
Acq: 19 Jun 2019 12:54

Tgt Ion: 76 Resp: 127174

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

100000

80000

60000

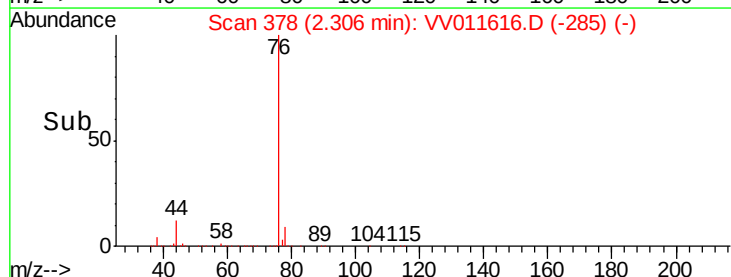
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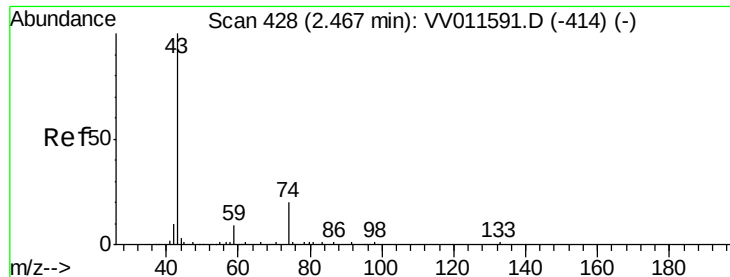
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0

2.25 2.30 2.35 2.40

Time-->

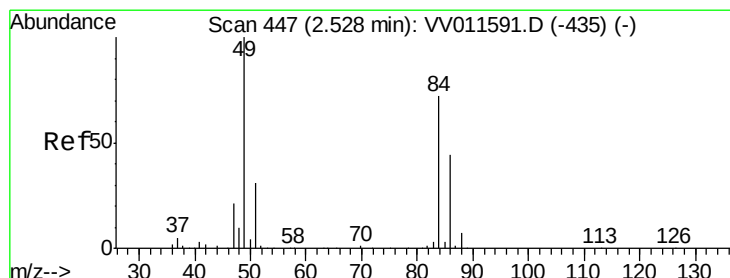
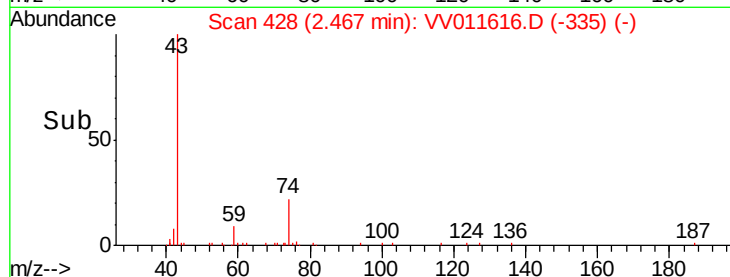
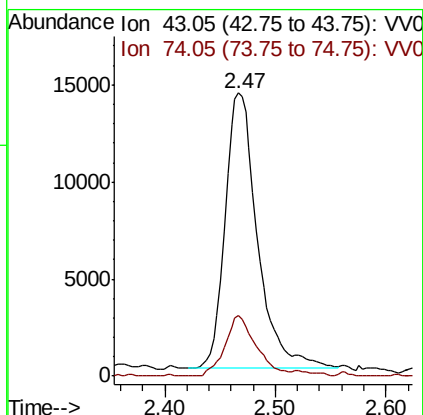
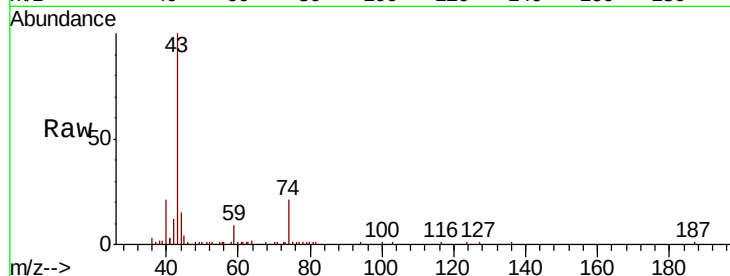




#15
Methyl Acetate
Concen: 4.198 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

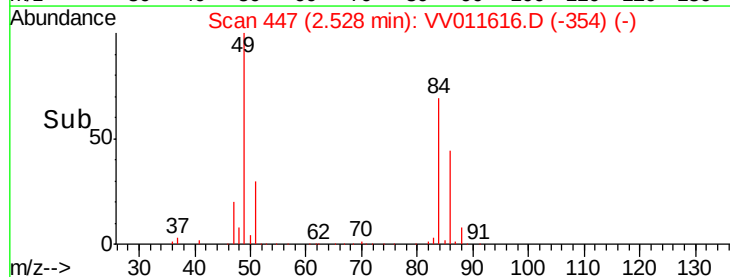
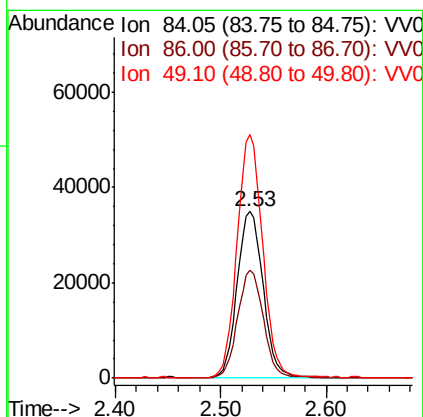
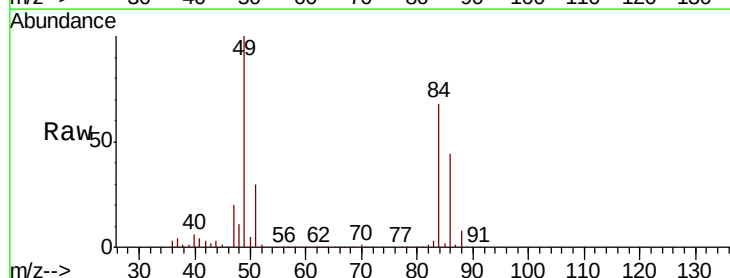
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

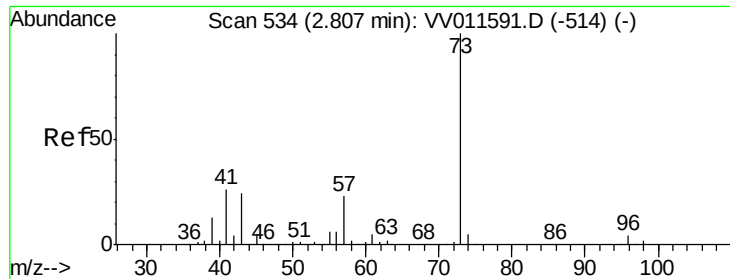
Tgt Ion: 43 Resp: 28848
Ion Ratio Lower Upper
43 100
74 21.4 16.5 24.7



#16
Methylene chloride
Concen: 4.706 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion: 84 Resp: 60224
Ion Ratio Lower Upper
84 100
86 64.8 42.5 78.9
49 146.0 97.7 181.5

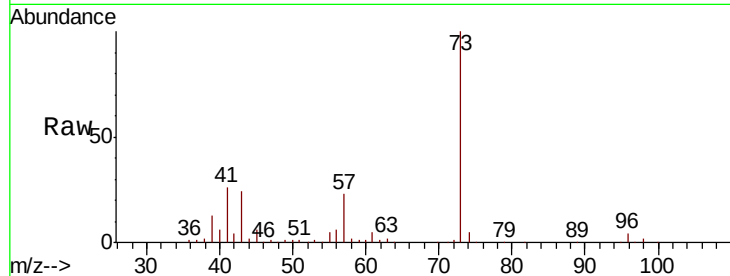




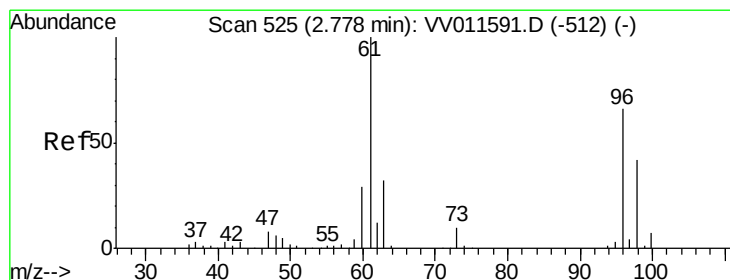
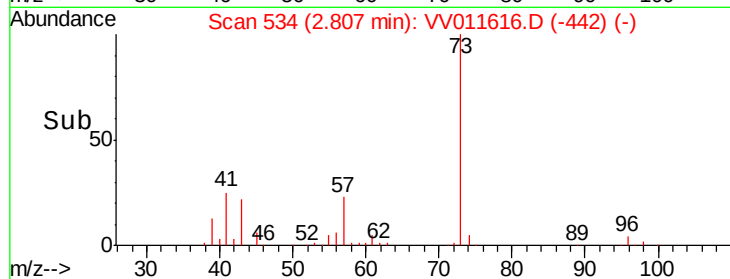
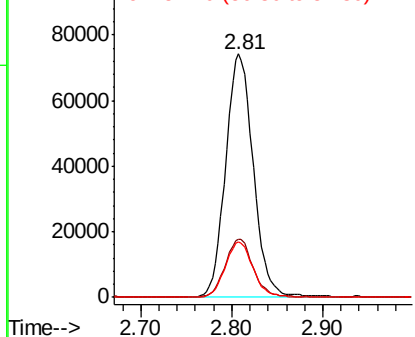
#17
Methyl tert-butyl Ether
Concen: 4.660 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tgt Ion: 73 Resp: 157312
Ion Ratio Lower Upper
73 100
43 23.7 18.2 27.4
57 23.0 17.4 26.2

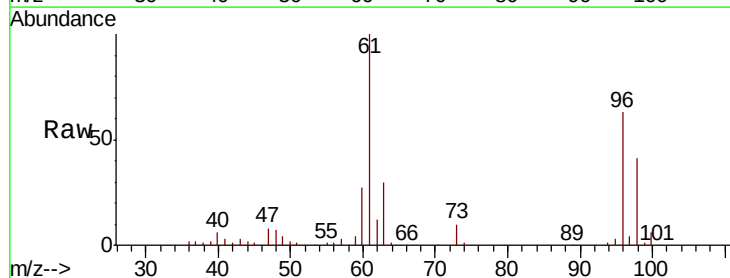


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

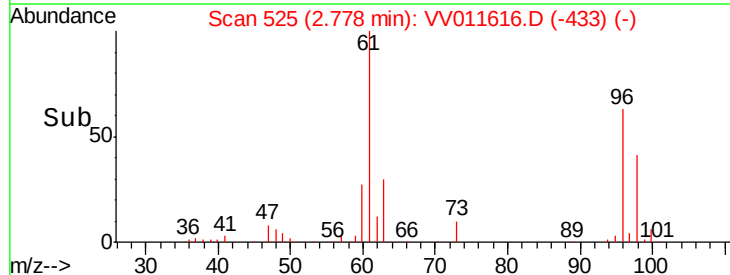
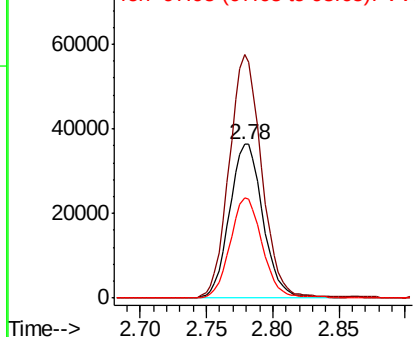


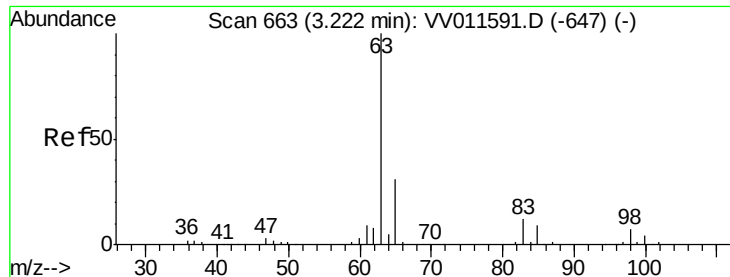
#18
trans-1,2-Dichloroethene
Concen: 5.024 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion: 96 Resp: 63962
Ion Ratio Lower Upper
96 100
61 158.2 110.0 204.4
98 65.3 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

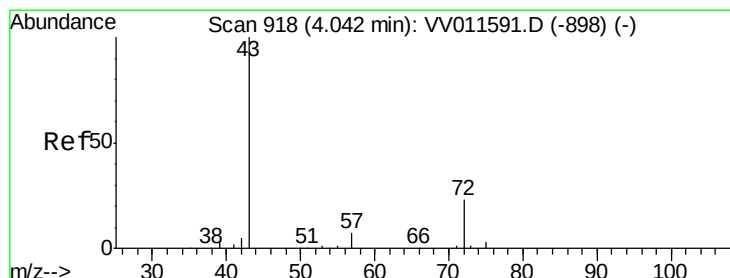
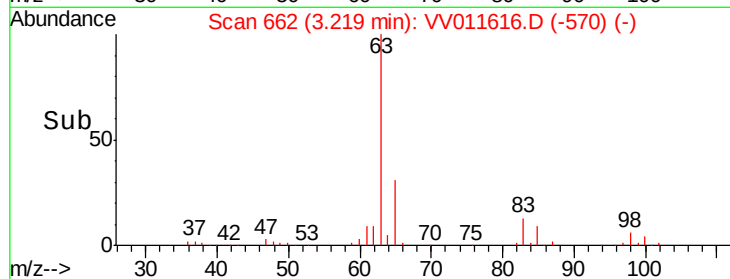
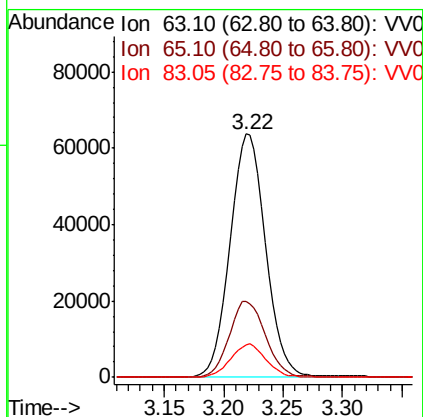
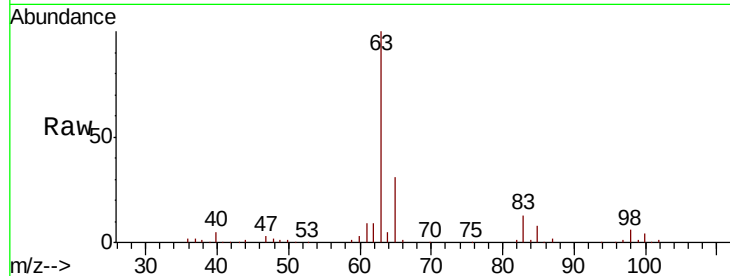




#19
 1,1-Dichloroethane
 Concen: 5.028 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

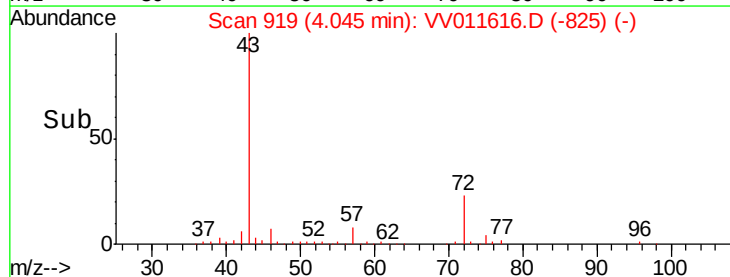
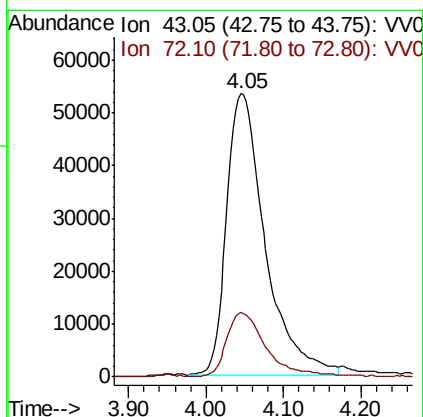
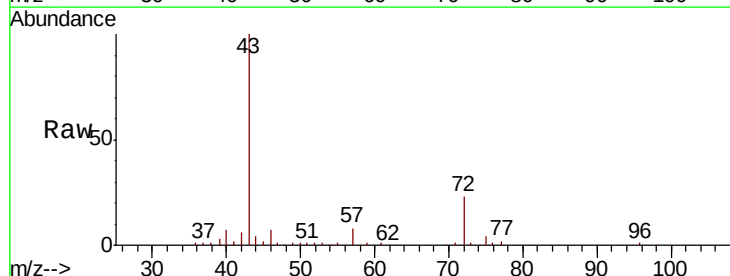
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

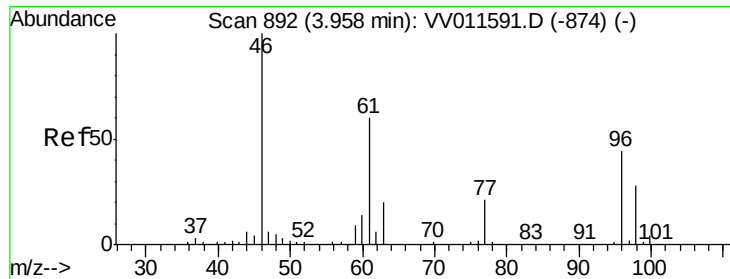
Tgt Ion: 63 Resp: 132422
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.5 41.9
 83 13.4 10.1 18.9



#21
 2-Butanone
 Concen: 44.729 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion: 43 Resp: 183432
 Ion Ratio Lower Upper
 43 100
 72 22.6 11.8 35.4



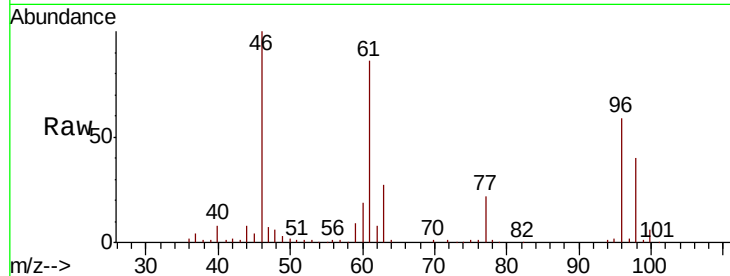


#22

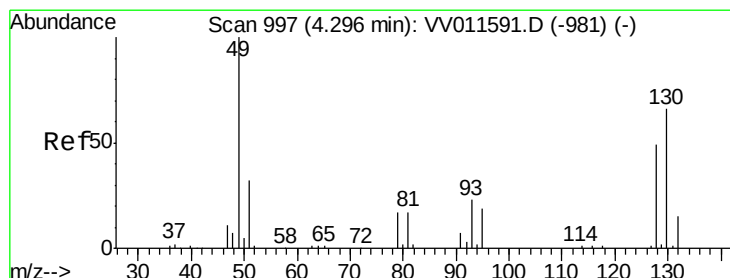
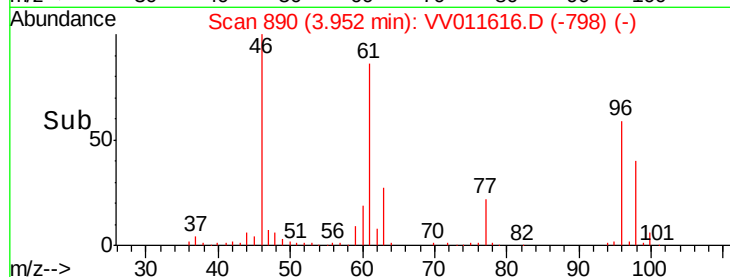
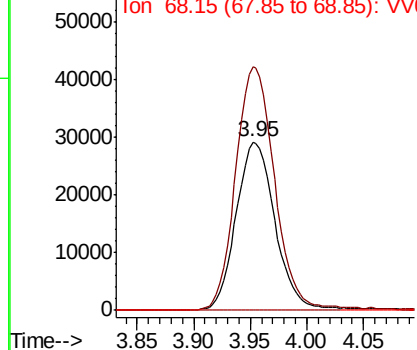
cis-1,2-Dichloroethene
Concen: 4.842 ug/L
RT: 3.95 min Scan# 890
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Instrument :
MSVOA_V
ClientSampled :
VSTD00560

Tgt Ion: 96 Resp: 69840
Ion Ratio Lower Upper
96 100
61 144.3 102.2 189.8
68 0.0 0.0 0.0



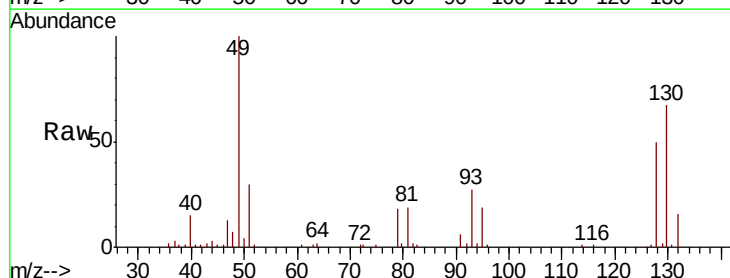
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



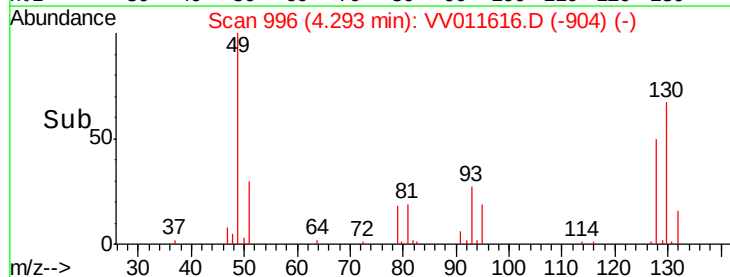
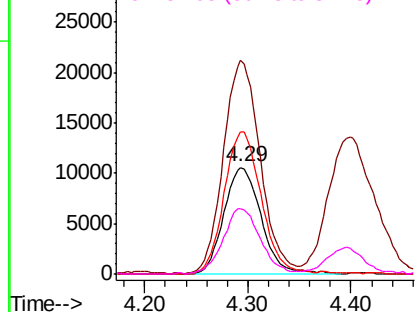
#23

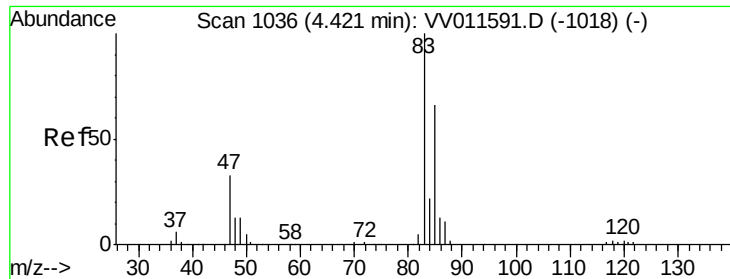
Bromochloromethane
Concen: 4.703 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion: 128 Resp: 26662
Ion Ratio Lower Upper
128 100
49 199.9 136.2 253.0
130 133.4 91.3 169.5
51 60.9 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

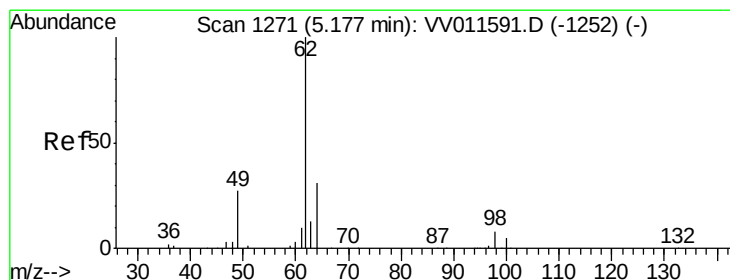
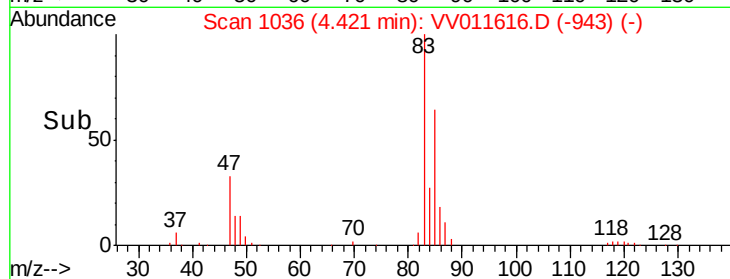
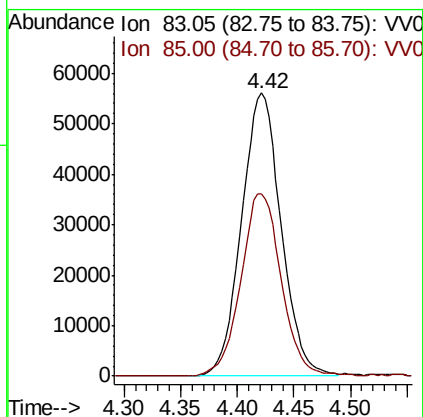
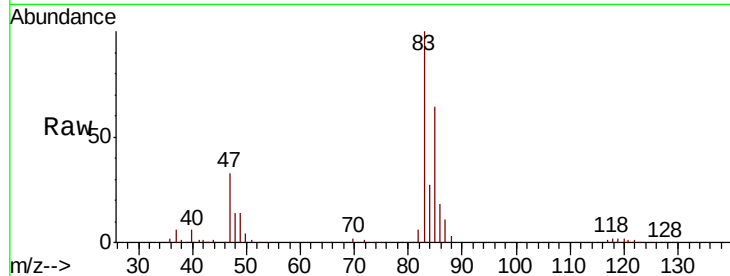




#25
Chloroform
Concen: 5.168 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

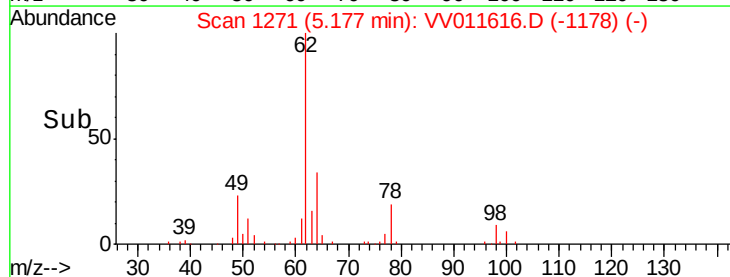
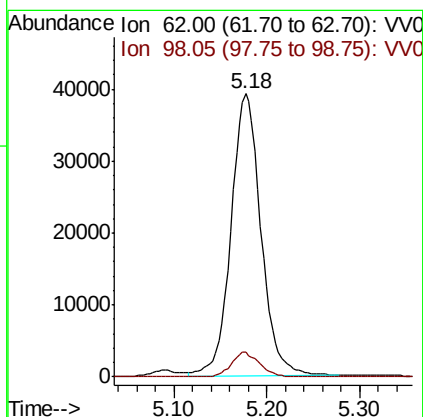
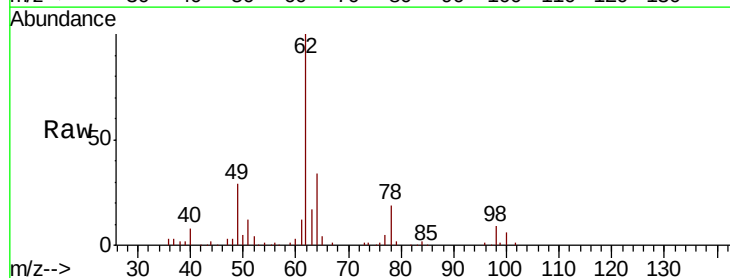
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

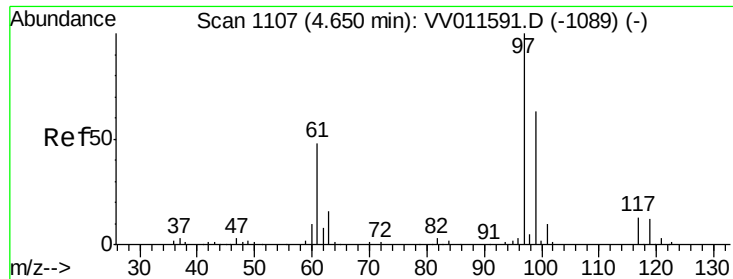
Tgt Ion: 83 Resp: 136596
Ion Ratio Lower Upper
83 100
85 64.3 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.720 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion: 62 Resp: 87919
Ion Ratio Lower Upper
62 100
98 8.5 6.5 9.7

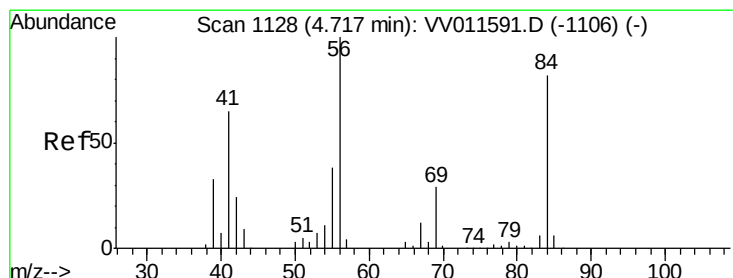
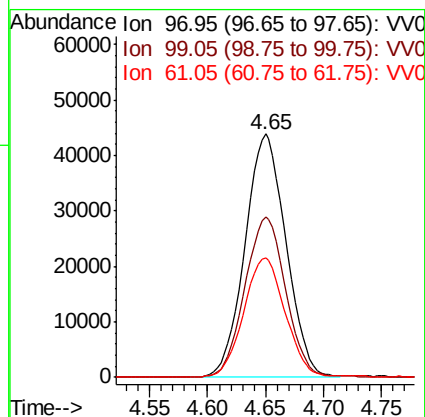
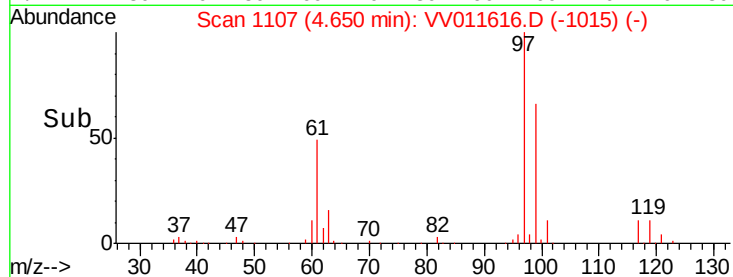
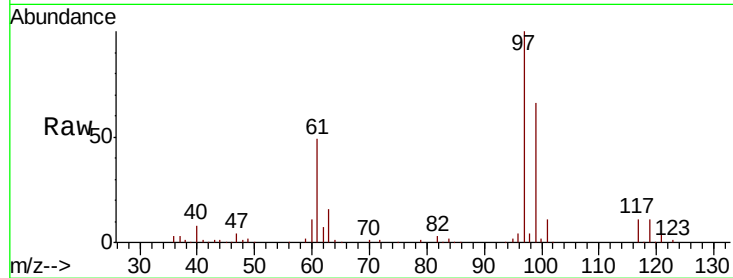




#29
1,1,1-Trichloroethane
Concen: 5.094 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

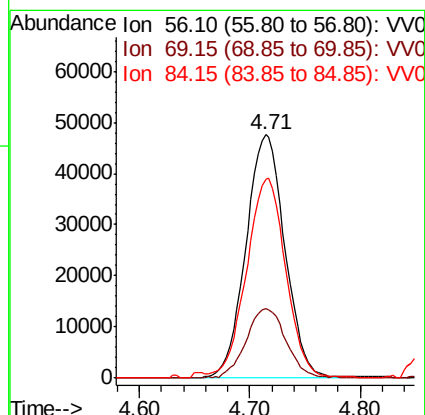
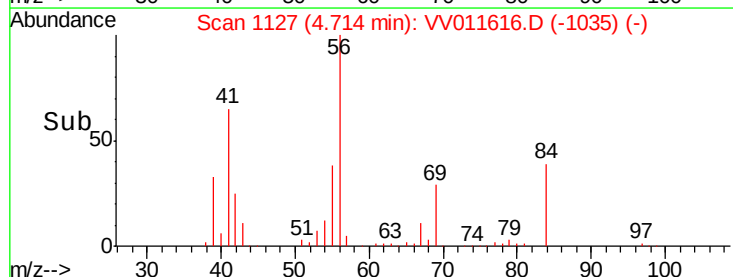
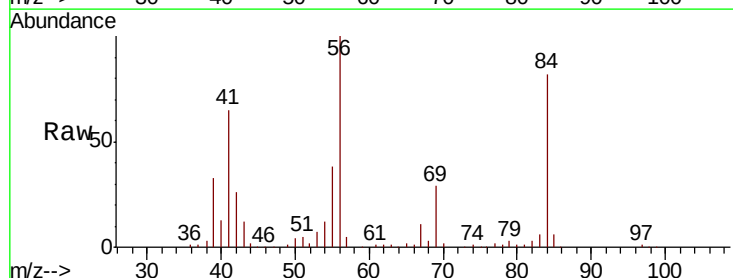
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

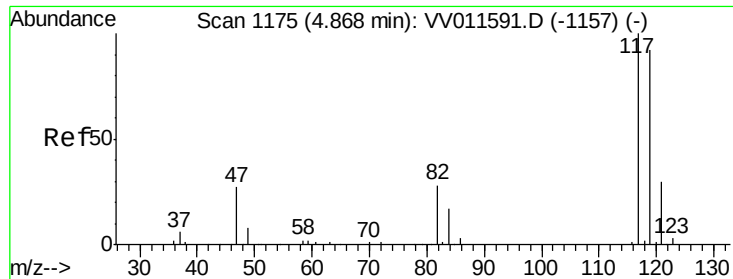
Tgt Ion: 97 Resp: 108011
Ion Ratio Lower Upper
97 100
99 65.6 51.6 77.4
61 49.6 40.4 60.6



#30
Cyclohexane
Concen: 5.327 ug/L
RT: 4.71 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion: 56 Resp: 116686
Ion Ratio Lower Upper
56 100
69 28.2 24.1 36.1
84 82.8 66.8 100.2





#31

Carbon tetrachloride

Concen: 5.201 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

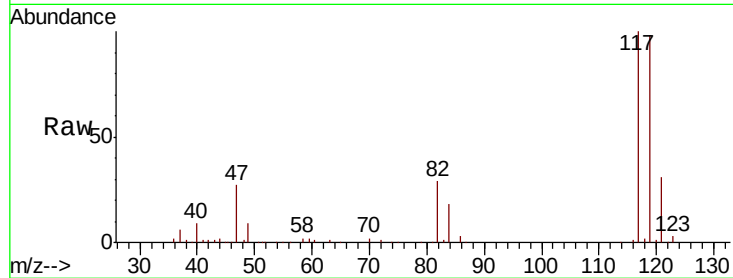
VSTD00560

Tgt Ion:117 Resp: 89230

Ion Ratio Lower Upper

117 100

119 97.3 77.4 116.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

40000

30000

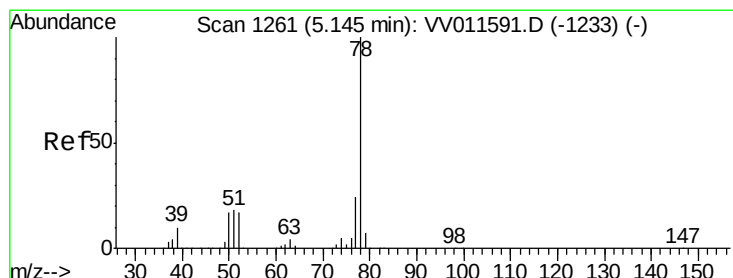
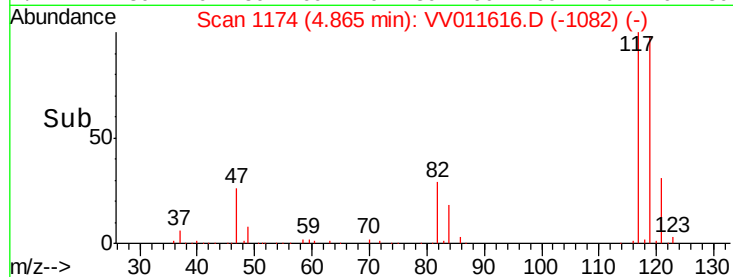
20000

10000

0

Time-->

4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 5.107 ug/L

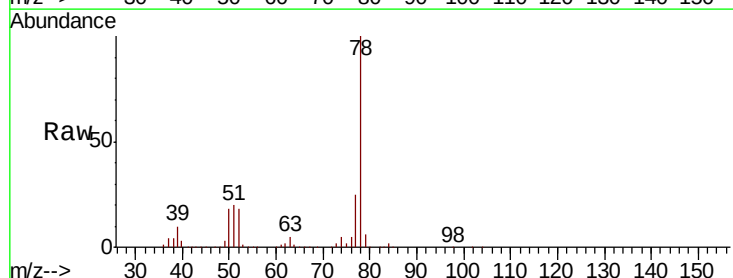
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Tgt Ion: 78 Resp: 284259



Abundance Ion 78.10 (77.80 to 78.80): VV0

150000

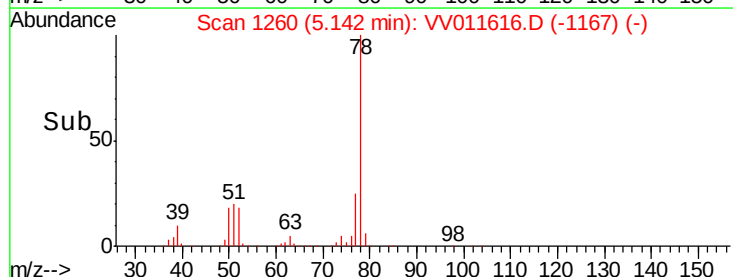
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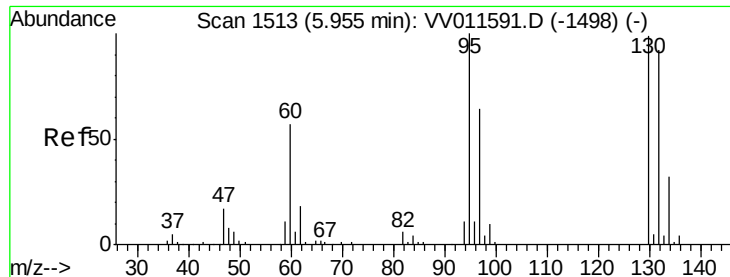
50000

0

Time-->

5.00 5.10 5.20





#34

Trichloroethene

Concen: 5.083 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

Tgt Ion: 95 Resp: 72145

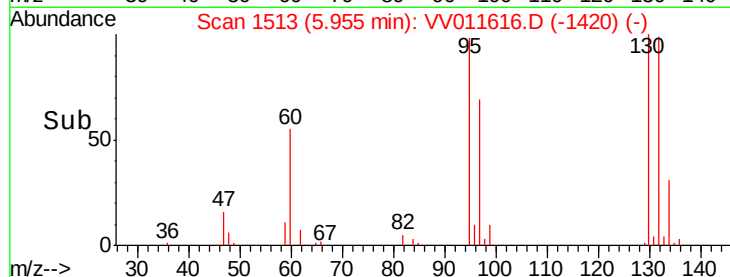
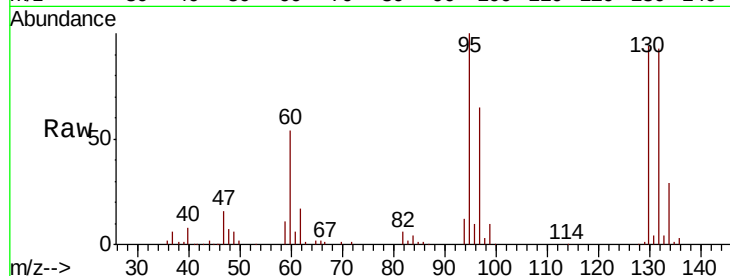
Ion Ratio Lower Upper

95 100

97 65.1 44.4 82.4

132 93.1 63.5 117.9

130 94.0 68.5 127.3

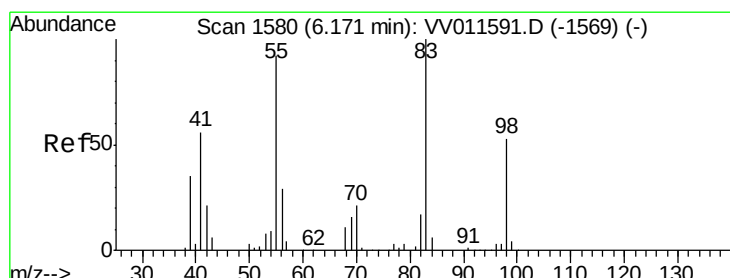
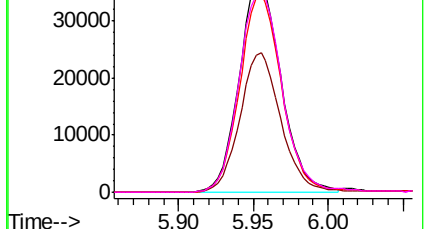


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 5.737 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

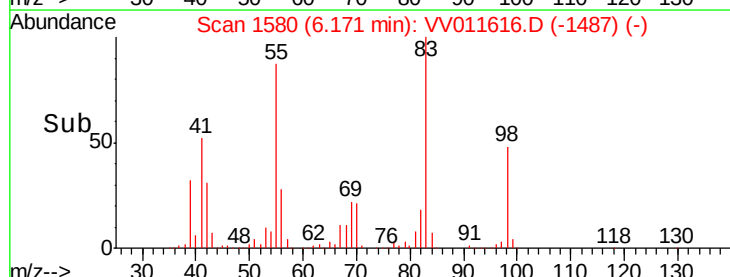
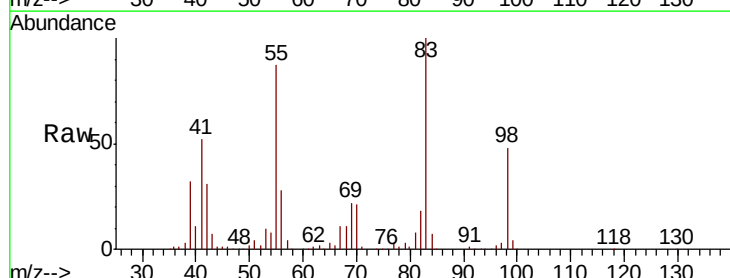
Tgt Ion: 83 Resp: 116108

Ion Ratio Lower Upper

83 100

55 85.5 67.9 101.9

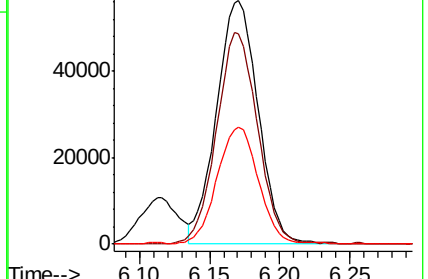
98 48.1 39.6 59.4

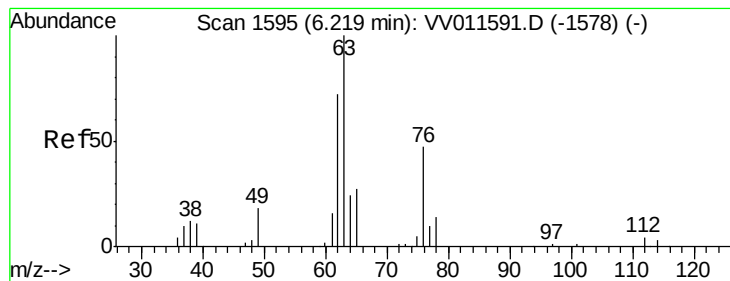


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.830 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

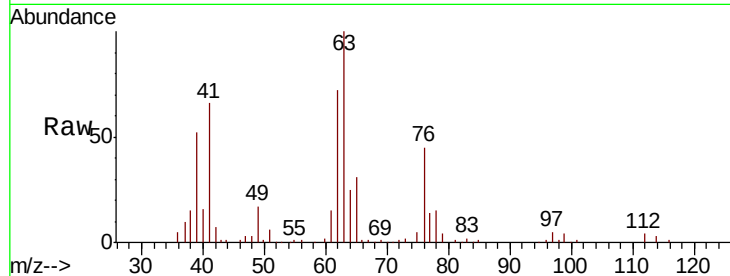
VSTD00560

Tgt Ion: 63 Resp: 71563

Ion Ratio Lower Upper

63 100

112 4.4 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VV011591.D (-1578) (-)

Ion 112.10 (111.80 to 112.80): VV011591.D (-1578) (-)

6.22

40000

30000

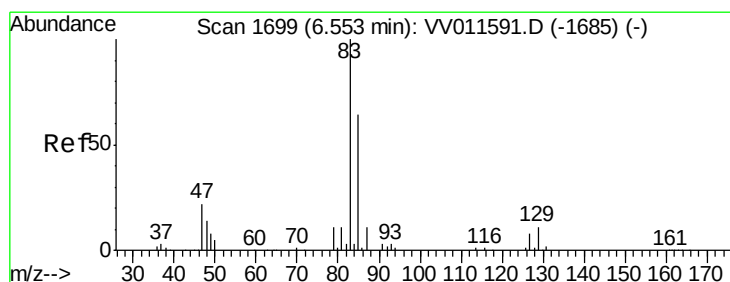
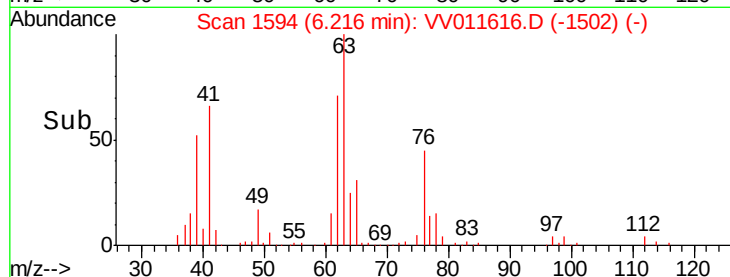
20000

10000

0

6.10 6.20 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.796 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

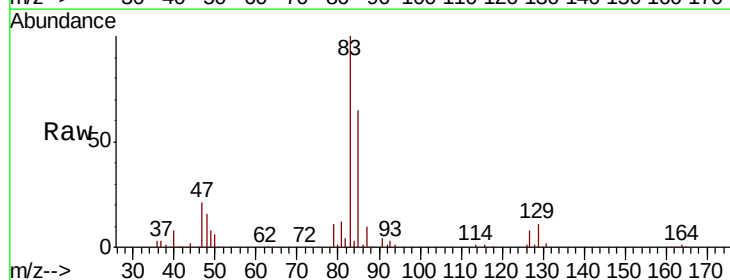
Tgt Ion: 83 Resp: 80725

Ion Ratio Lower Upper

83 100

85 65.0 44.7 83.1

127 8.5 6.2 9.4



Abundance Ion 82.95 (82.65 to 83.65): VV011591.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV011591.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV011591.D (-1685) (-)

6.55

50000

40000

30000

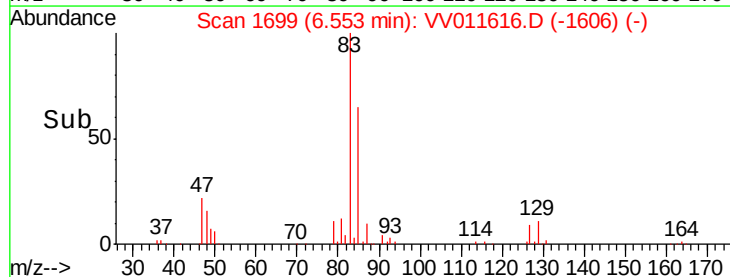
20000

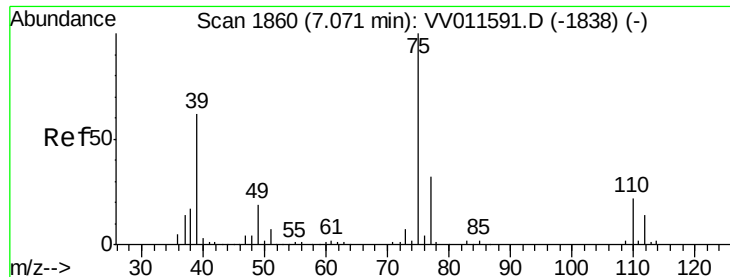
10000

0

6.50 6.60

Time-->

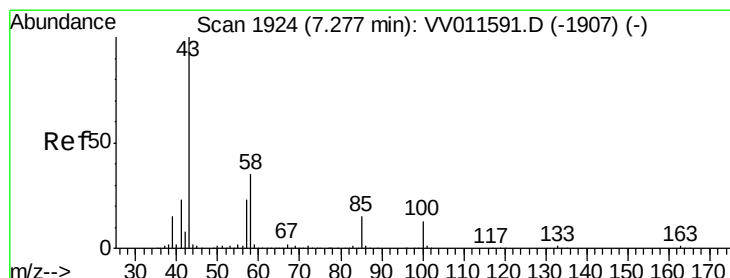
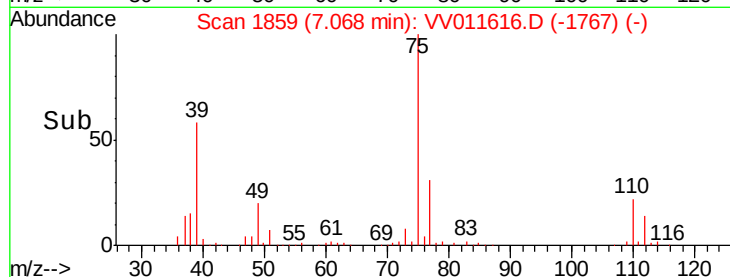
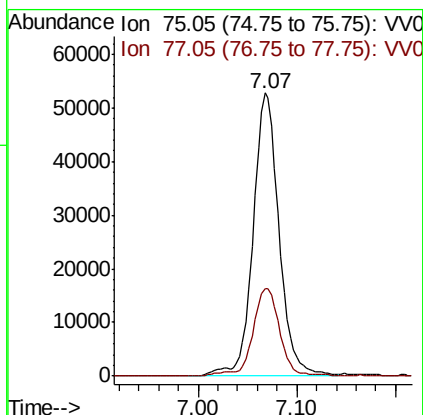
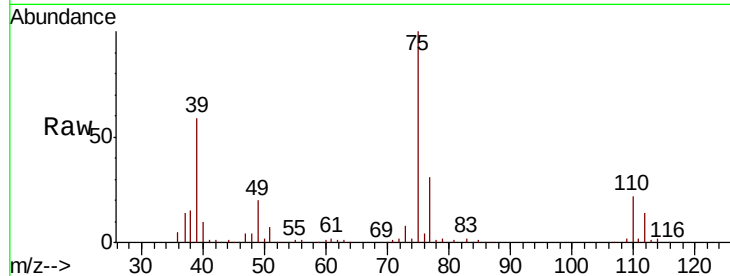




#39
 cis-1,3-Dichloropropene
 Concen: 5.138 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

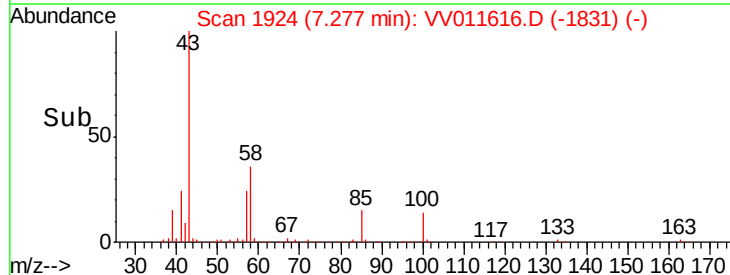
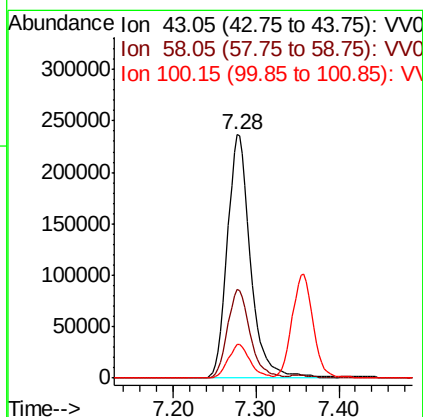
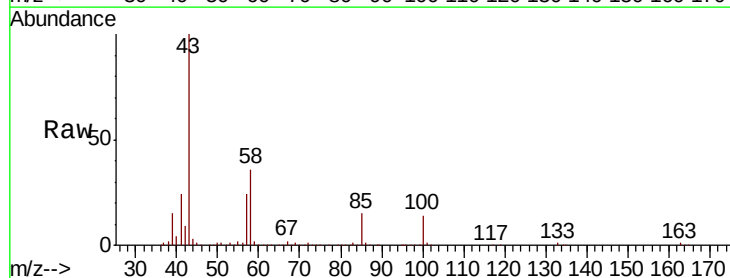
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

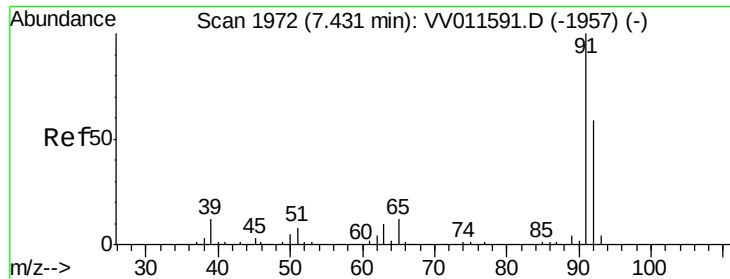
Tgt Ion: 75 Resp: 95816
 Ion Ratio Lower Upper
 75 100
 77 31.0 20.6 38.4



#40
 4-Methyl-2-pentanone
 Concen: 43.340 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion: 43 Resp: 457728
 Ion Ratio Lower Upper
 43 100
 58 35.9 28.7 43.1
 100 13.2 10.6 15.8





#42

Toluene

Concen: 5.284 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

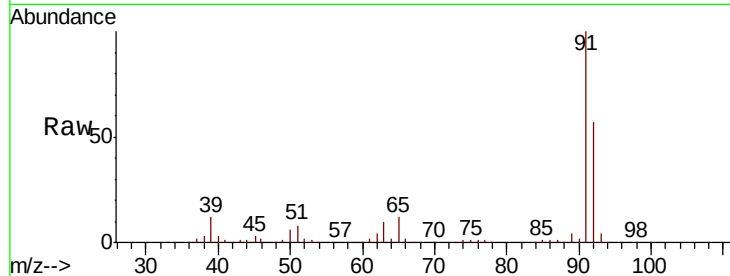
VSTD00560

Tgt Ion: 91 Resp: 304758

Ion Ratio Lower Upper

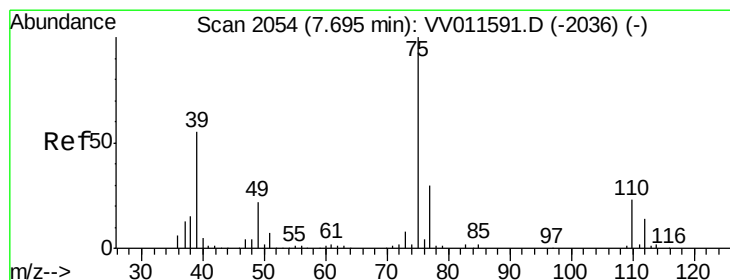
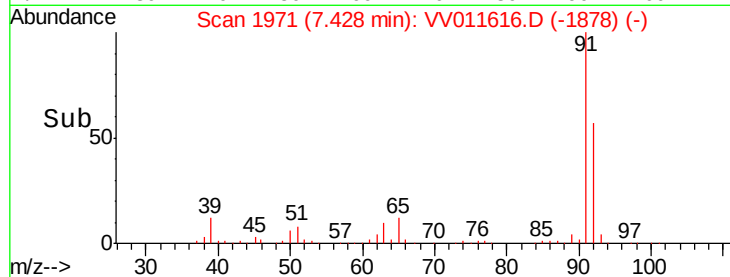
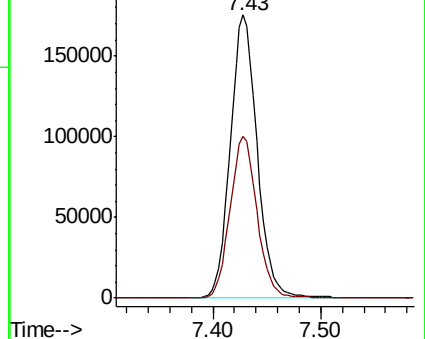
91 100

92 57.4 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 5.059 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011616.D

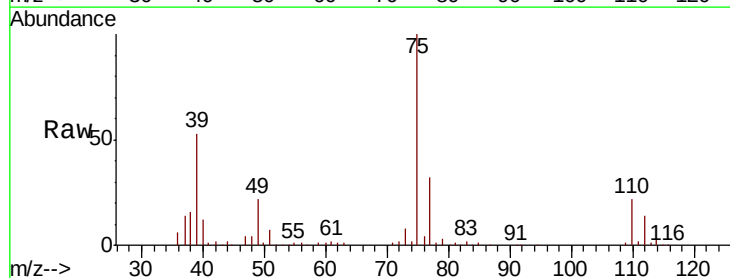
Acq: 19 Jun 2019 12:54

Tgt Ion: 75 Resp: 72179

Ion Ratio Lower Upper

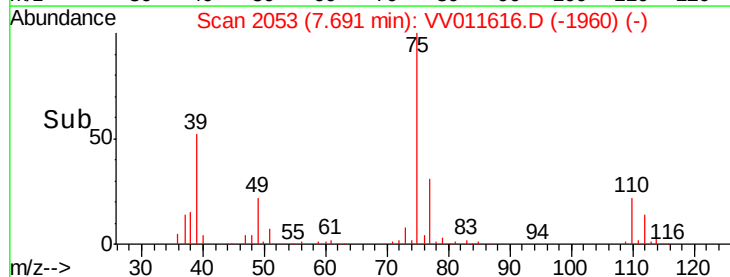
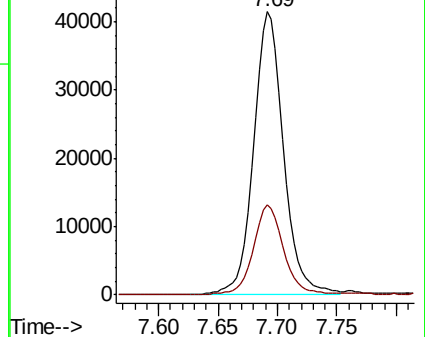
75 100

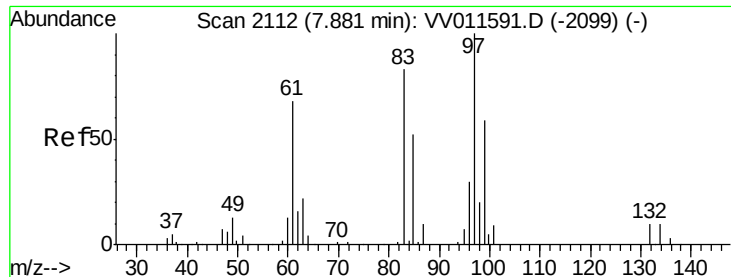
77 31.6 22.8 42.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

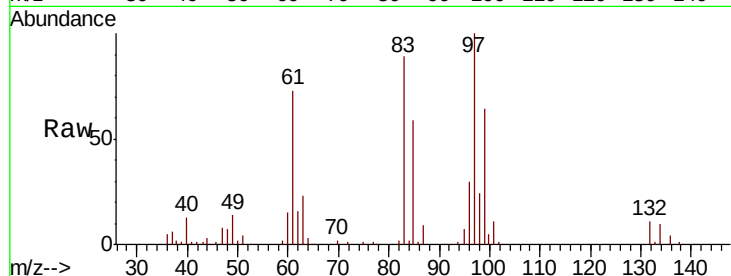




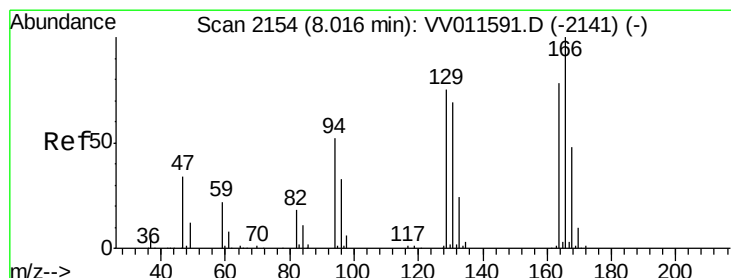
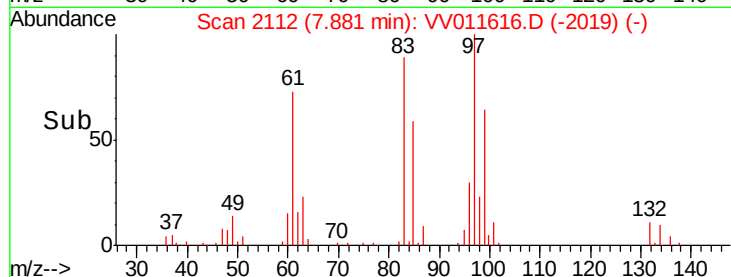
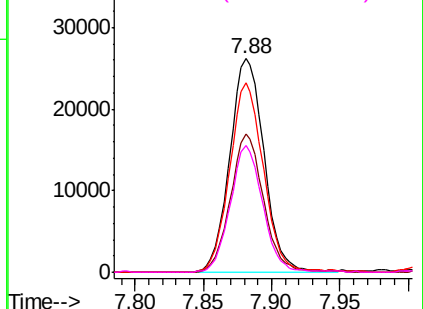
#45
 1,1,2-Trichloroethane
 Concen: 4.631 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tgt Ion:	97	Resp:	45796
Ion	Ratio	Lower	Upper
97	100		
99	64.5	45.4	84.4
83	88.5	60.6	112.6
85	59.3	38.6	71.6

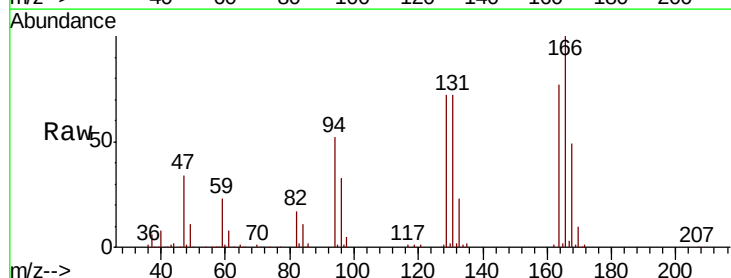


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

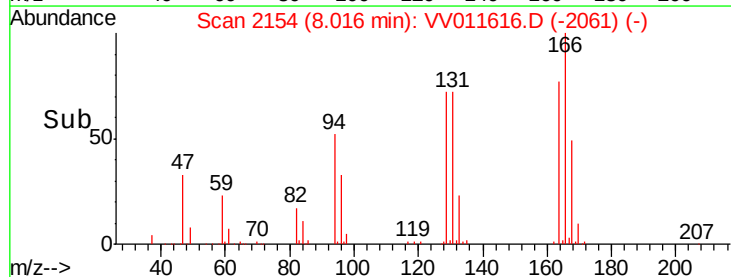
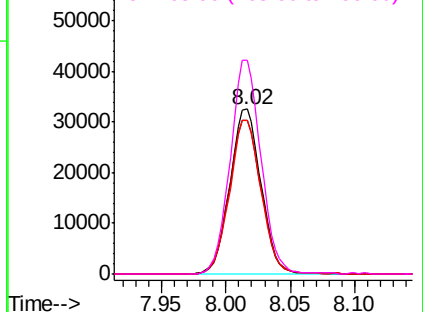


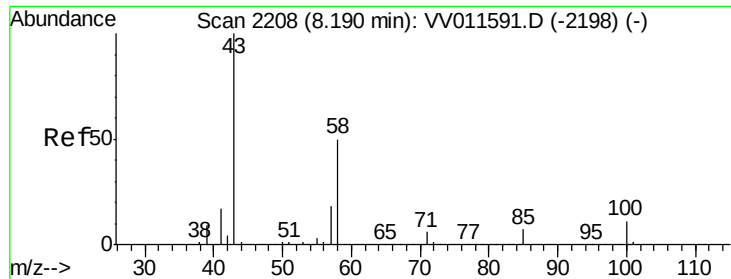
#47
 Tetrachloroethene
 Concen: 5.398 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion:	164	Resp:	54642
Ion	Ratio	Lower	Upper
164	100		
129	93.3	68.8	127.8
131	93.2	63.2	117.4
166	129.4	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

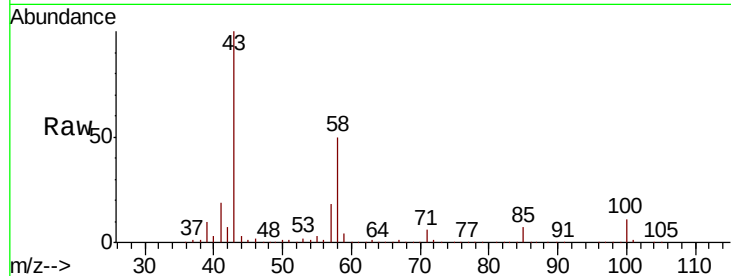




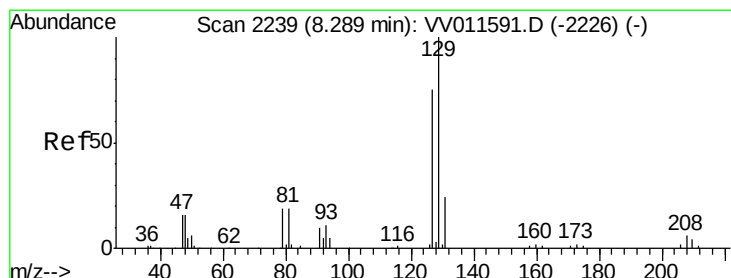
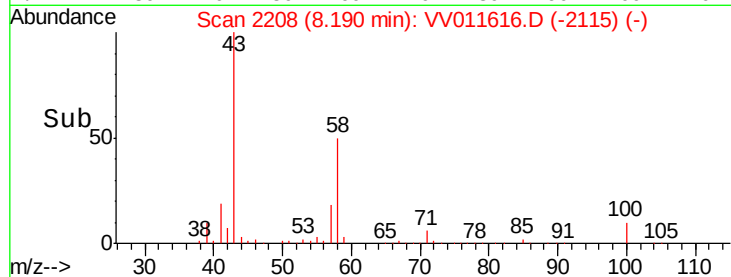
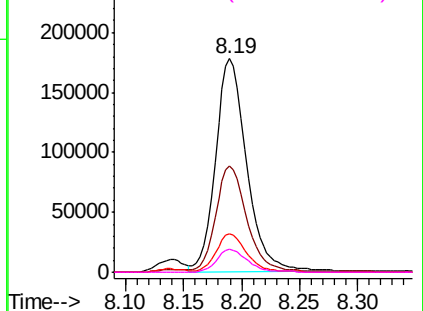
#48
2-Hexanone
Concen: 44.348 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tgt Ion:	43	Resp:	329259
Ion	Ratio	Lower	Upper
43	100		
58	49.9	40.6	60.8
57	17.9	14.2	21.4
100	11.0	8.6	12.8

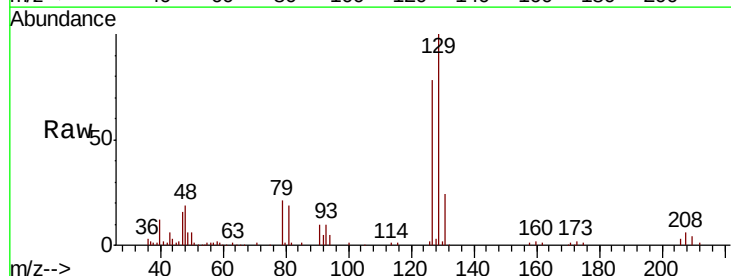


Abundance Ion 43.05 (42.75 to 43.75): VV011616.D (-2115) (-)
Ion 58.05 (57.75 to 58.75): VV011616.D (-2115) (-)
Ion 57.20 (56.90 to 57.90): VV011616.D (-2115) (-)
Ion 100.15 (99.85 to 100.85): VV011616.D (-2115) (-)

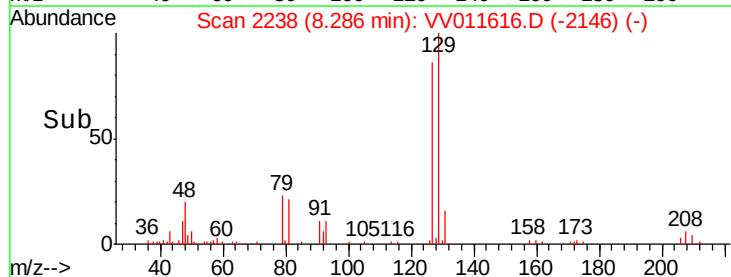
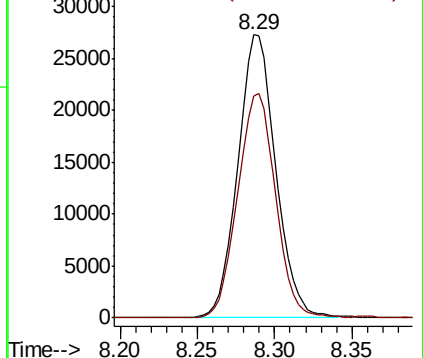


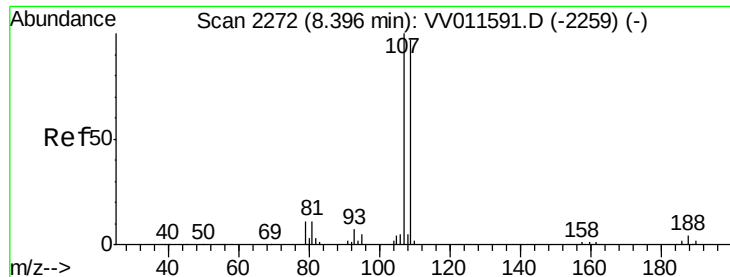
#49
Dibromochloromethane
Concen: 4.678 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion:	129	Resp:	46481
Ion	Ratio	Lower	Upper
129	100		
127	78.4	52.6	97.6



Abundance Ion 128.95 (128.65 to 129.65): VV011616.D (-2146) (-)
Ion 126.90 (126.60 to 127.60): VV011616.D (-2146) (-)

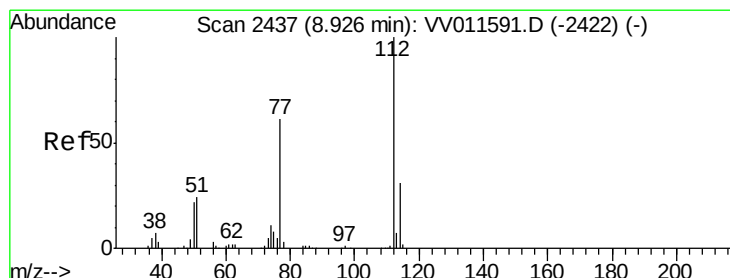
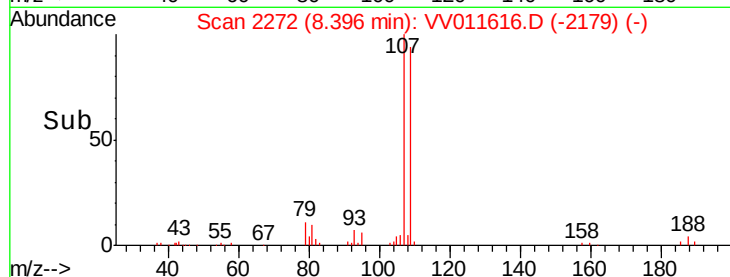
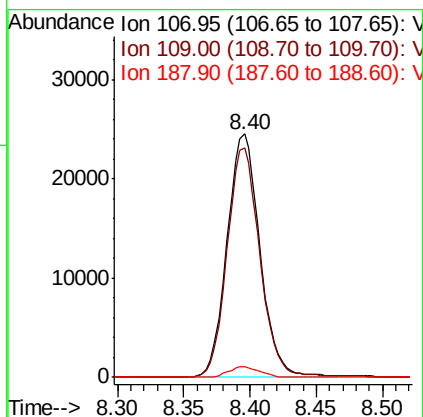
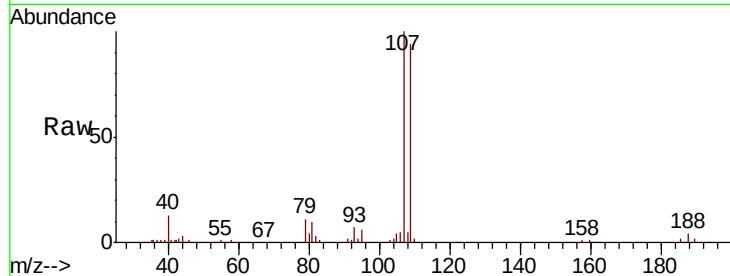




#50
1,2-Dibromoethane
Concen: 4.734 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

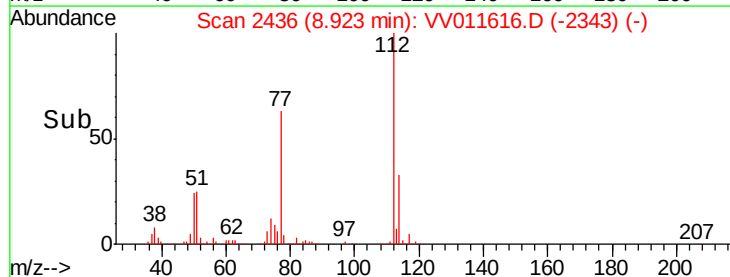
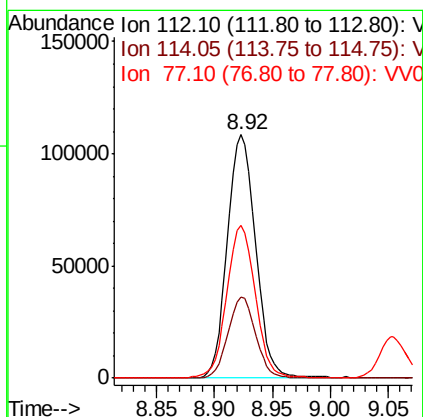
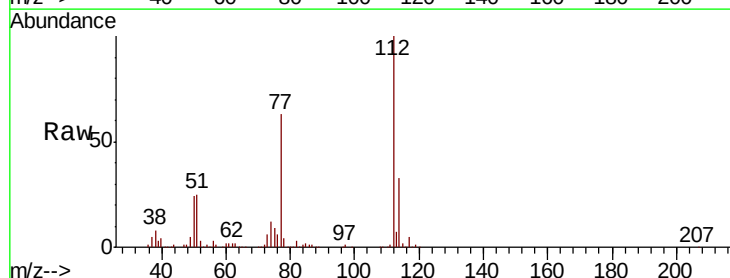
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

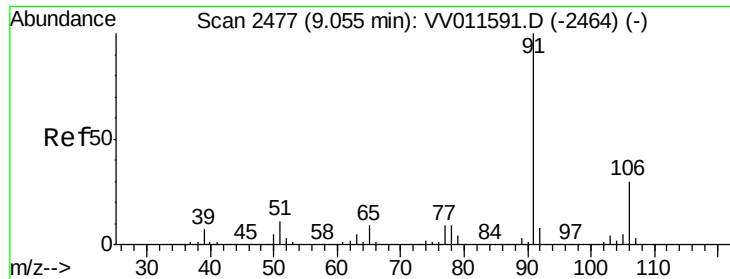
Tgt Ion:107 Resp: 42339
Ion Ratio Lower Upper
107 100
109 94.4 65.7 121.9
188 4.3 2.9 4.3#



#51
Chlorobenzene
Concen: 5.165 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV011616.D
Acq: 19 Jun 2019 12:54

Tgt Ion:112 Resp: 182954
Ion Ratio Lower Upper
112 100
114 33.4 21.9 40.7
77 62.8 49.3 73.9





#52

Ethylbenzene

Concen: 5.464 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

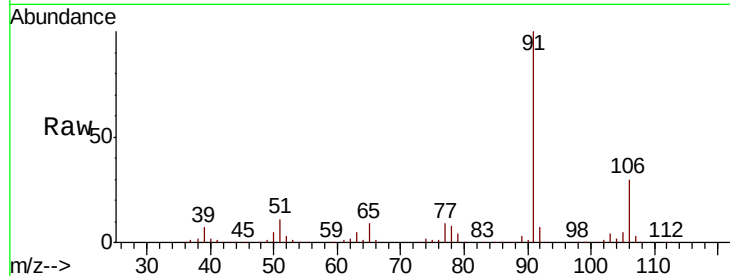
VSTD00560

Tgt Ion: 91 Resp: 331030

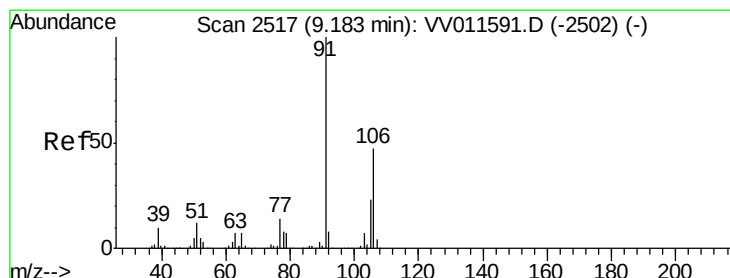
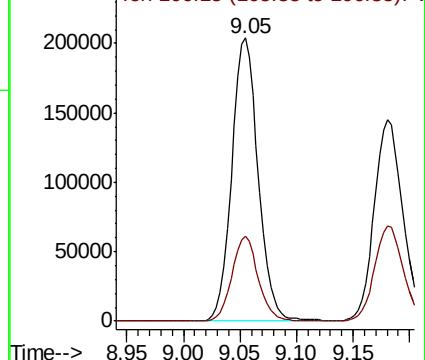
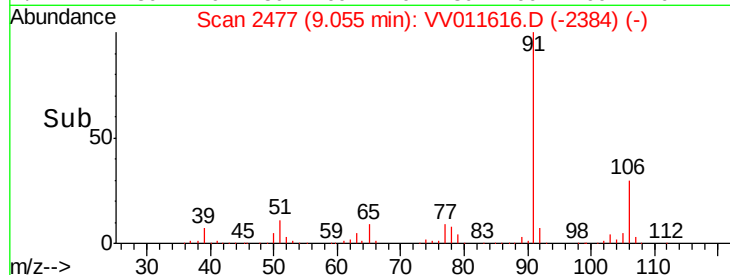
Ion Ratio Lower Upper

91 100

106 30.0 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VV011616.D (-2384) (-)



#53

m,p-xylene

Concen: 5.524 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV011616.D

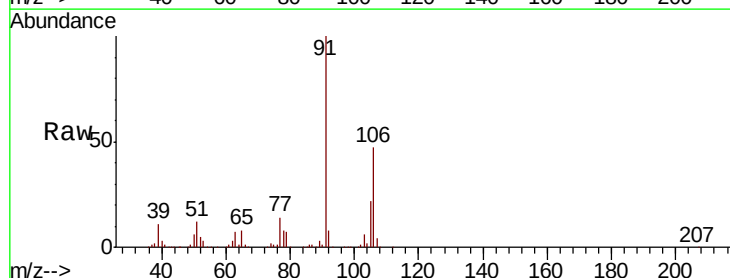
Acq: 19 Jun 2019 12:54

Tgt Ion: 106 Resp: 122468

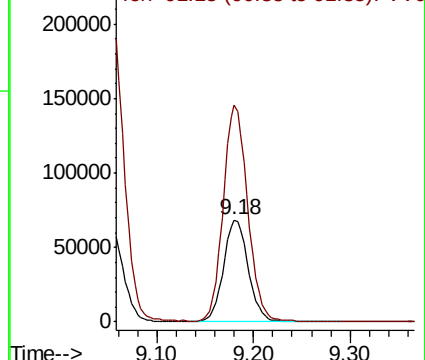
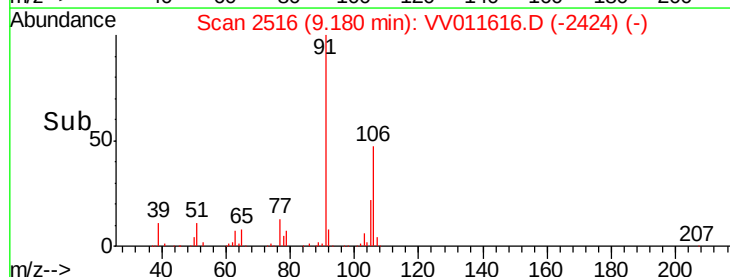
Ion Ratio Lower Upper

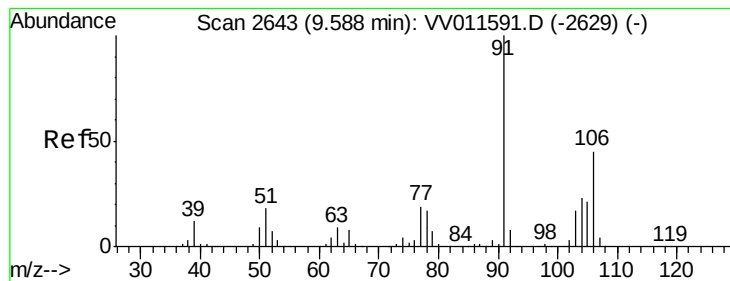
106 100

91 212.4 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): VV011616.D (-2424) (-)





#54

o-xylene

Concen: 5.448 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

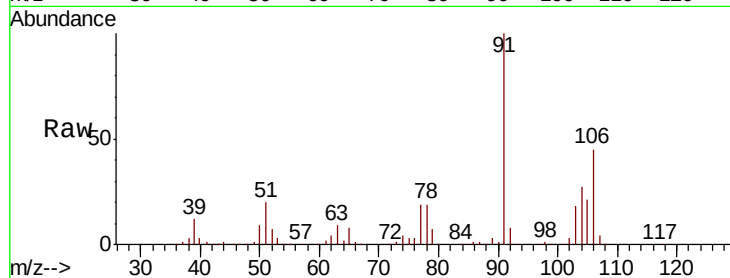
VSTD00560

Tgt Ion:106 Resp: 121308

Ion Ratio Lower Upper

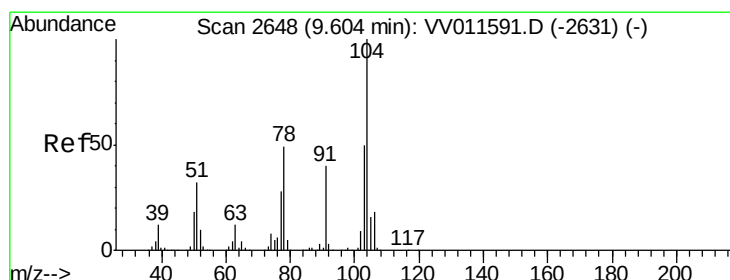
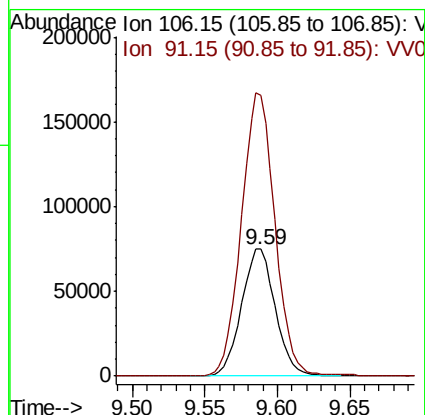
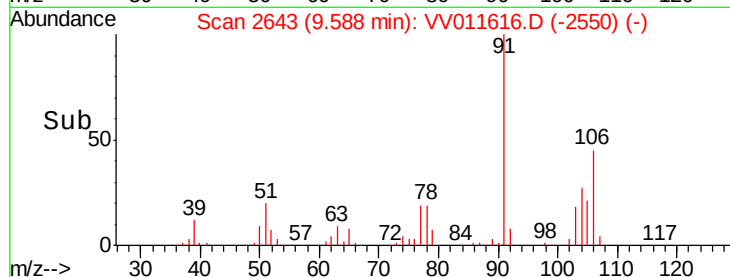
106 100

91 221.2 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.316 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011616.D

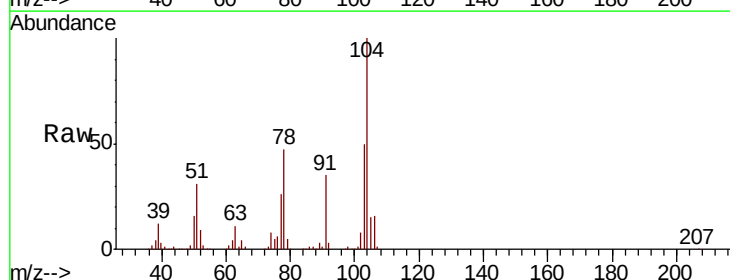
Acq: 19 Jun 2019 12:54

Tgt Ion:104 Resp: 196343

Ion Ratio Lower Upper

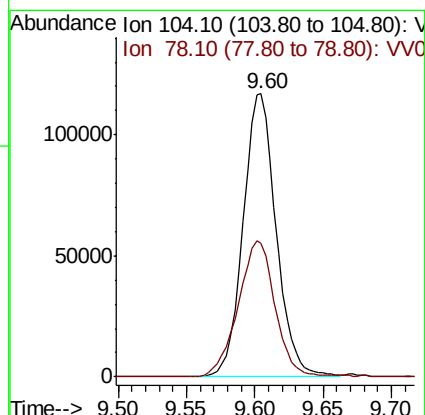
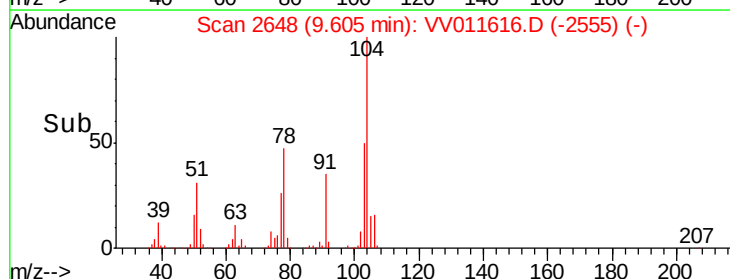
104 100

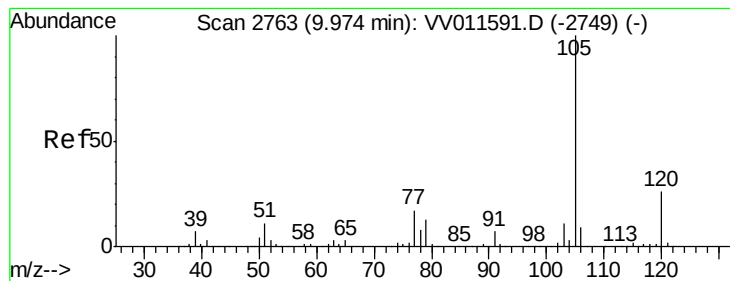
78 47.2 34.0 63.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.591 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

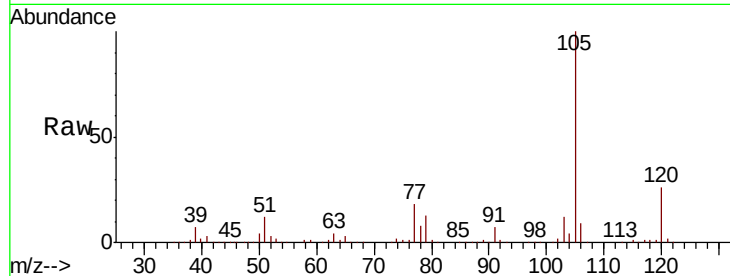
Tgt Ion: 105 Resp: 316861

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

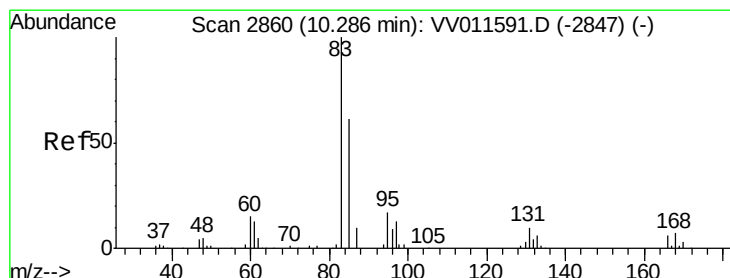
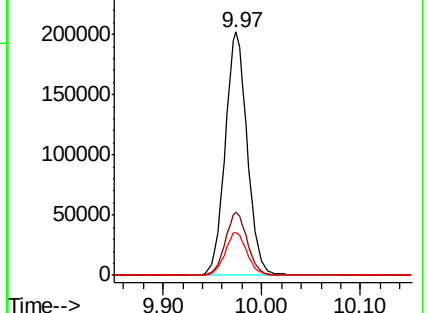
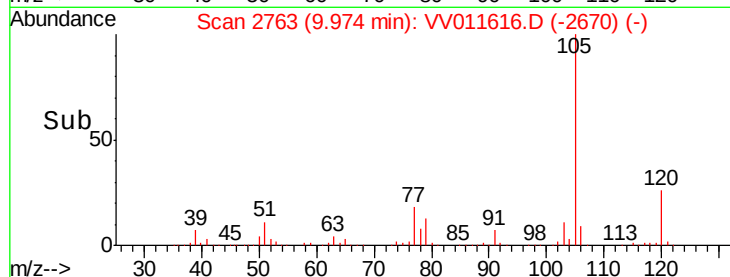
77 17.6 13.8 20.8



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: 4.534 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

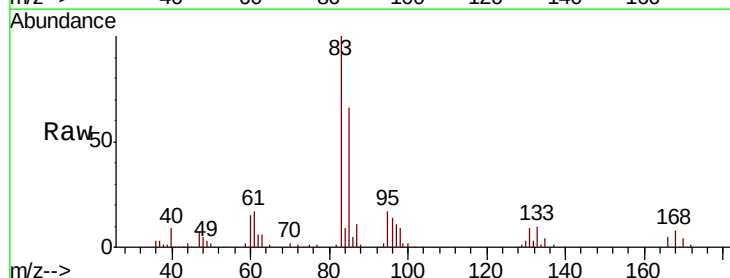
Tgt Ion: 83 Resp: 54831

Ion Ratio Lower Upper

83 100

85 65.9 45.6 84.8

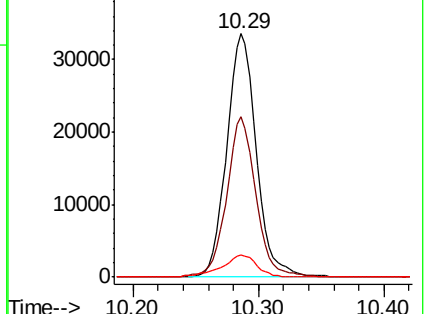
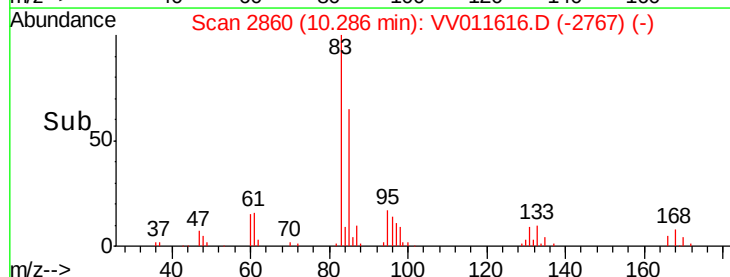
131 8.9 7.9 11.9

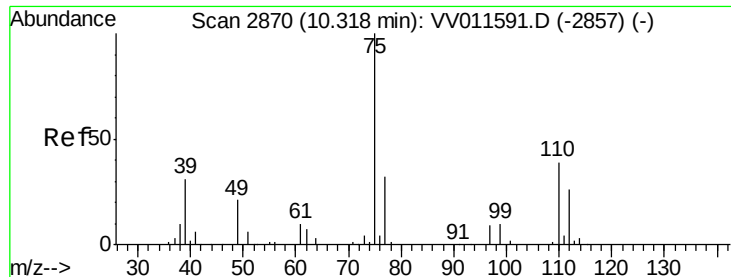


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

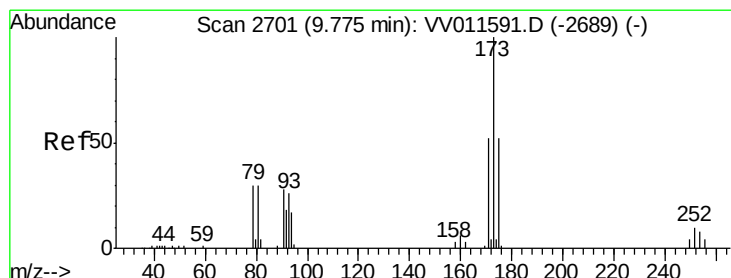
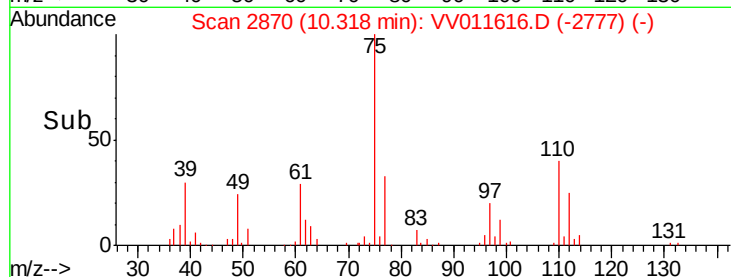
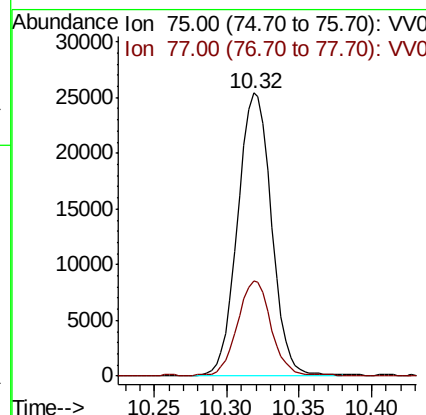
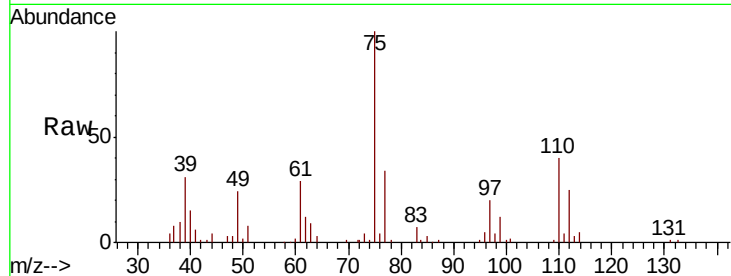




#59
 1,2,3-Trichloropropane
 Concen: 4.462 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

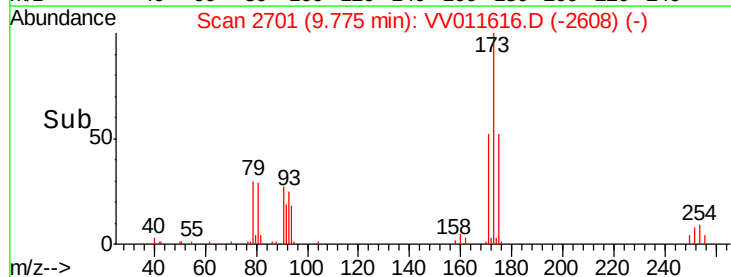
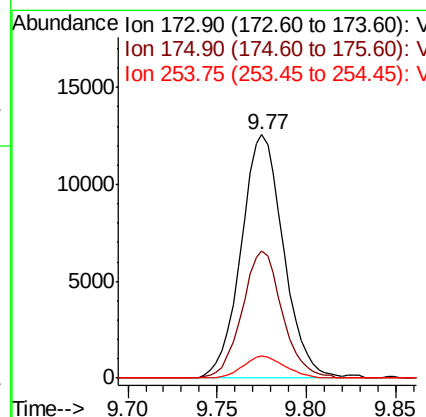
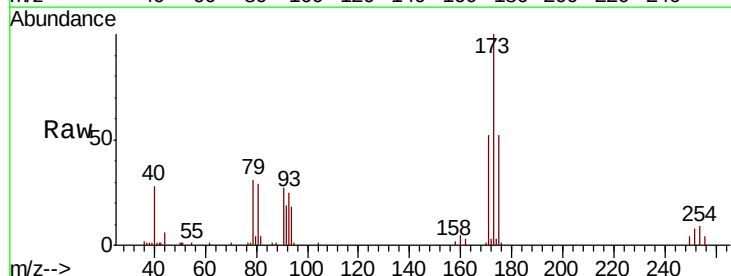
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

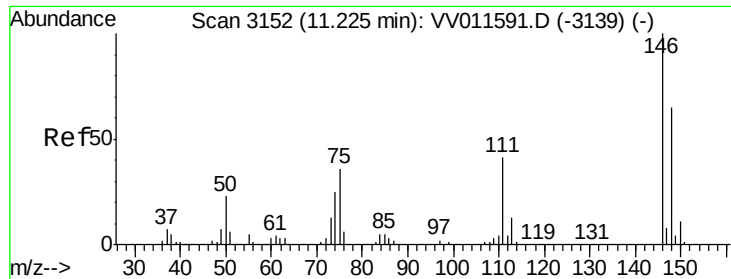
Tgt Ion: 75 Resp: 41276
 Ion Ratio Lower Upper
 75 100
 77 33.4 26.0 39.0



#61
 Bromoform
 Concen: 4.297 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion: 173 Resp: 20856
 Ion Ratio Lower Upper
 173 100
 175 49.6 38.3 57.5
 254 8.9 7.9 11.9

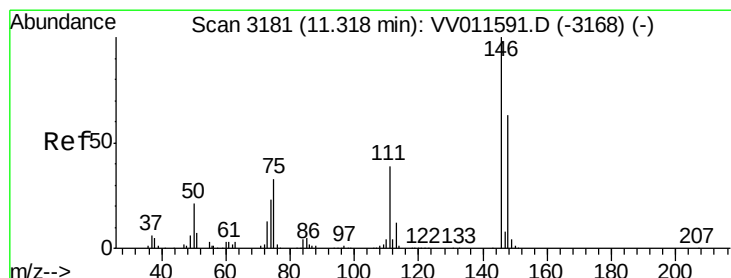
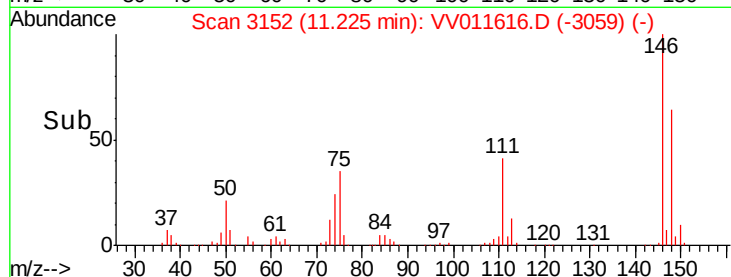
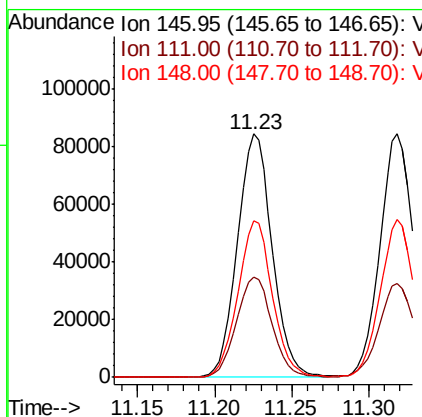
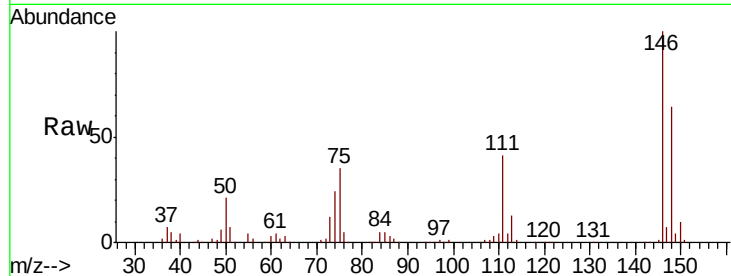




#62
 1,3-Dichlorobenzene
 Concen: 5.341 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

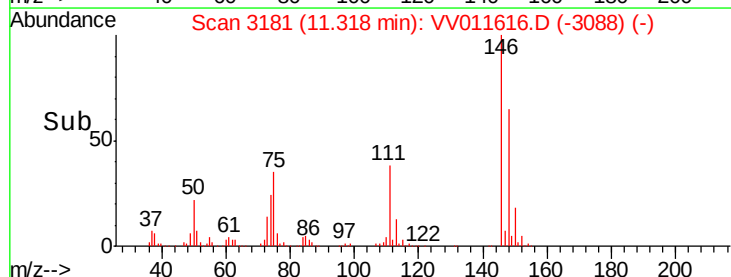
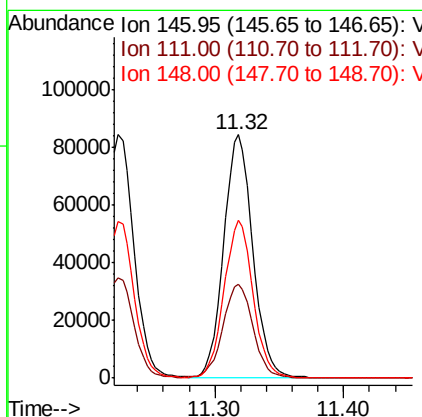
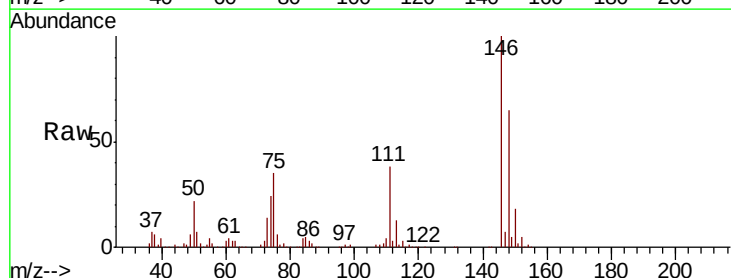
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

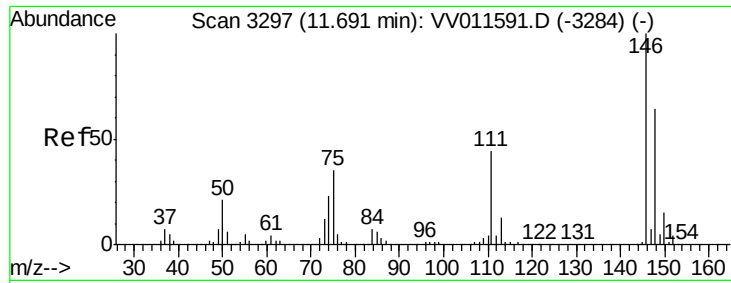
Tgt Ion:146 Resp: 131843
 Ion Ratio Lower Upper
 146 100
 111 41.4 29.2 54.2
 148 64.4 44.3 82.3



#63
 1,4-Dichlorobenzene
 Concen: 5.246 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion:146 Resp: 131918
 Ion Ratio Lower Upper
 146 100
 111 38.5 26.7 49.7
 148 64.7 44.2 82.2

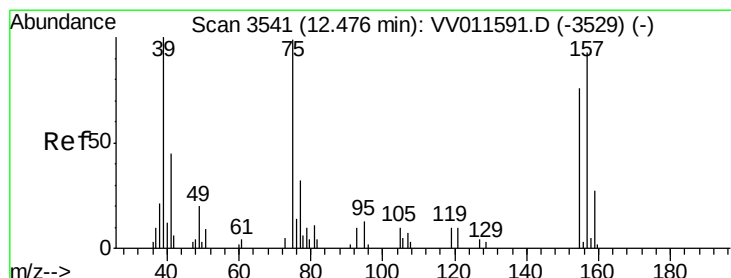
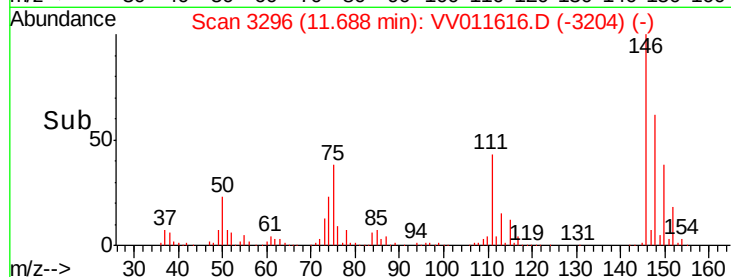
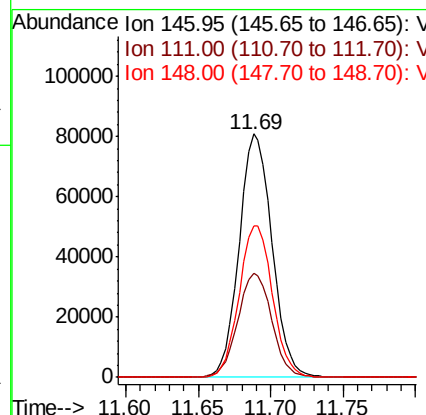
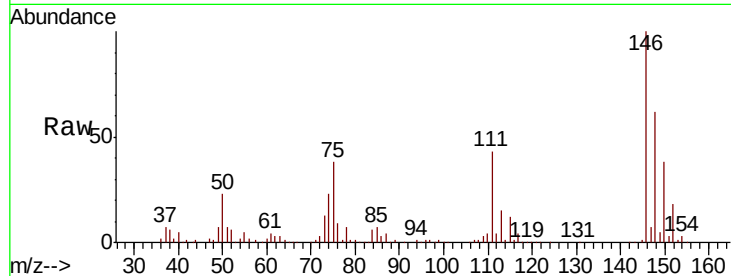




#65
 1,2-Dichlorobenzene
 Concen: 5.133 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

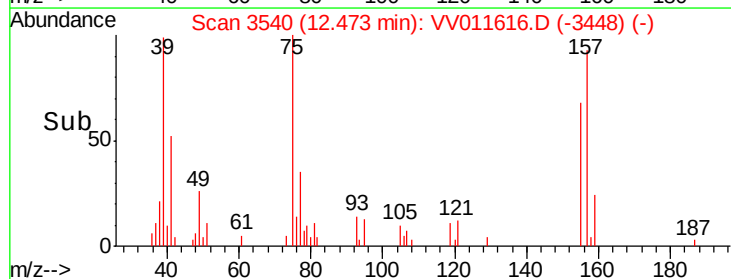
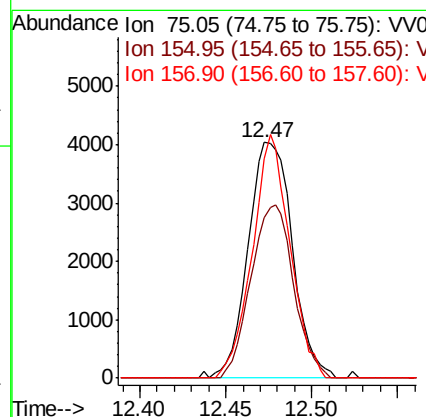
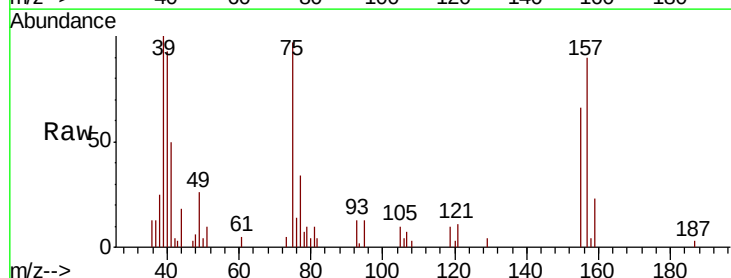
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

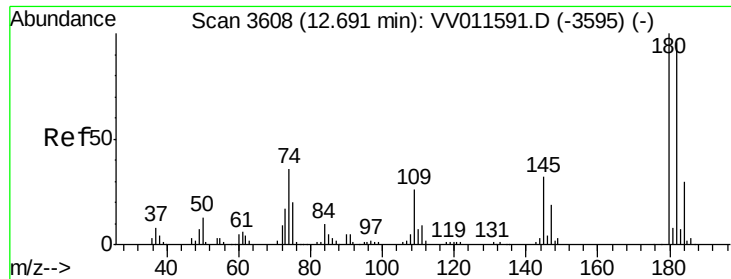
Tgt Ion: 146 Resp: 127542
 Ion Ratio Lower Upper
 146 100
 111 42.6 35.3 52.9
 148 62.4 51.3 76.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.007 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion: 75 Resp: 7231
 Ion Ratio Lower Upper
 75 100
 155 68.3 58.5 87.7
 157 92.9 79.8 119.6

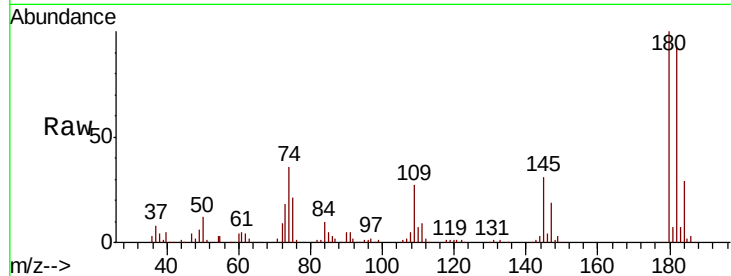




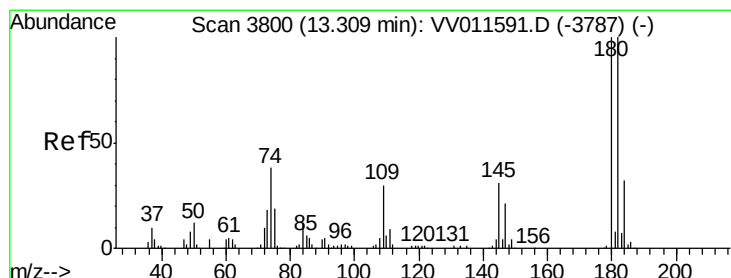
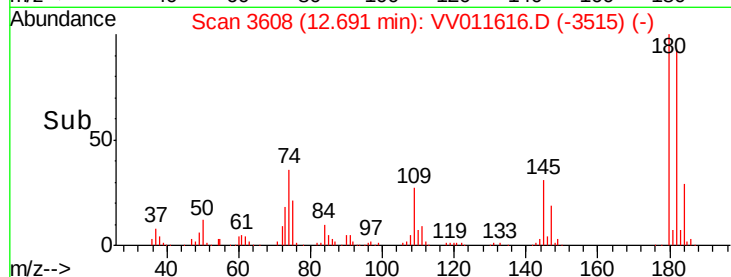
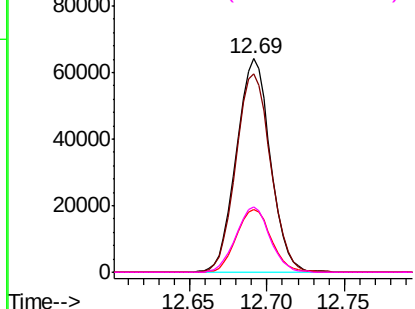
#67
 1,3,5-Trichlorobenzene
 Concen: 5.434 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tgt Ion:180 Resp: 97982
 Ion Ratio Lower Upper
 180 100
 182 95.2 75.4 113.0
 184 29.8 24.0 36.0
 145 30.5 24.4 36.6

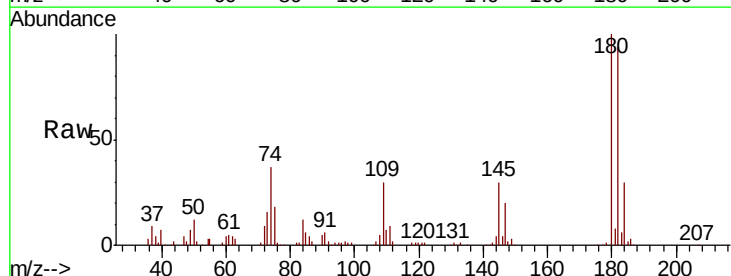


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

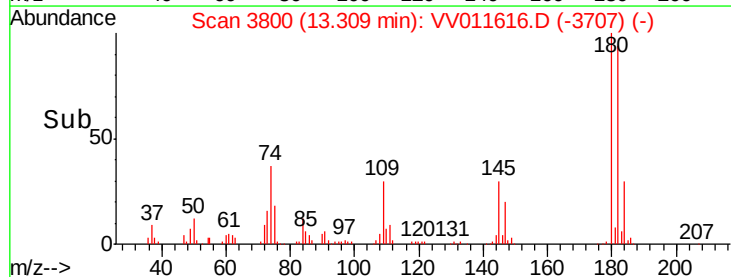
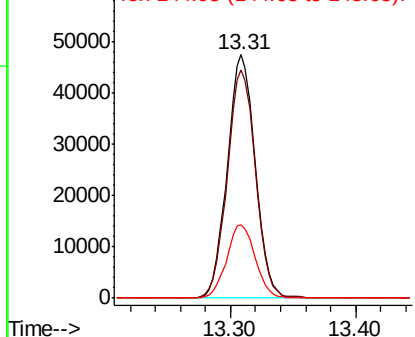


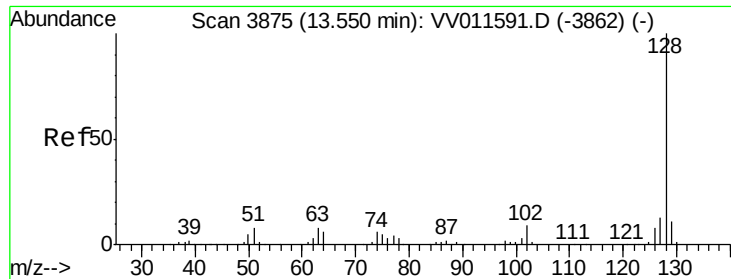
#68
 1,2,4-trichlorobenzene
 Concen: 5.062 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011616.D
 Acq: 19 Jun 2019 12:54

Tgt Ion:180 Resp: 73287
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.2 114.4
 145 30.7 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: 4.104 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

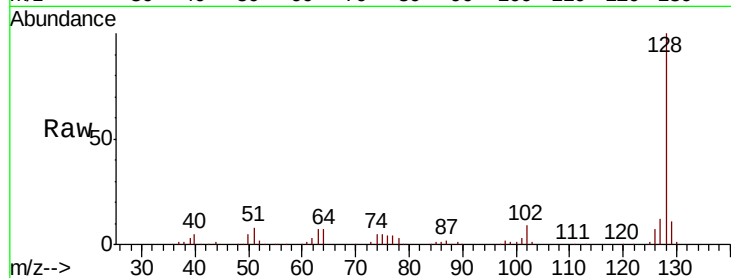
Tgt Ion:128 Resp: 116850

Ion Ratio Lower Upper

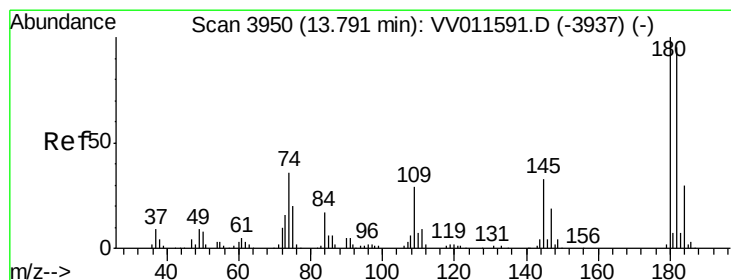
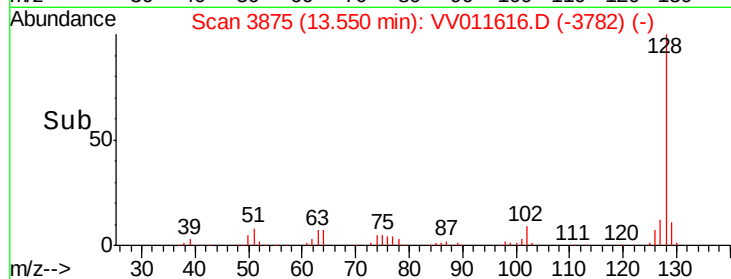
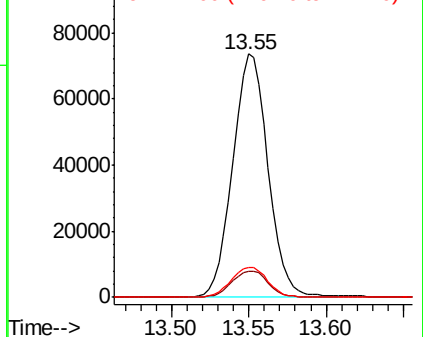
128 100

129 11.1 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: 4.934 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011616.D

Acq: 19 Jun 2019 12:54

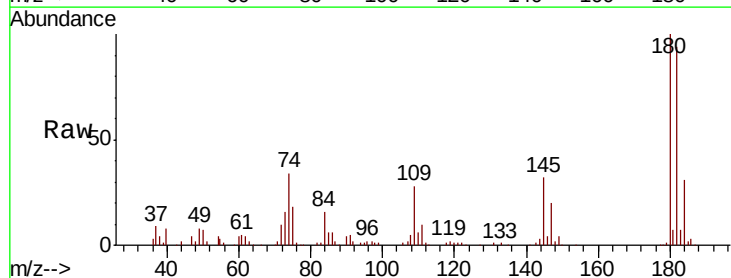
Tgt Ion:180 Resp: 69266

Ion Ratio Lower Upper

180 100

182 94.7 76.6 115.0

145 32.7 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

