

Data File : VV011751.D
Acq On : 25 Jun 2019 15:52
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Quant Time: Jun 26 01:45:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 26 01:40:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	202490	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	189750	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	90876	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64534	4.80	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.00%
7) Chloroethane-d5	1.58	69	44930	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.20%
11) 1,1-Dichloroethene-d2	2.12	63	129919	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.00%
20) 2-Butanone-d5	3.95	46	164100	46.35	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.70%
24) Chloroform-d	4.40	84	122249	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.60%
26) 1,2-Dichloroethane-d4	5.08	65	67436	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
32) Benzene-d6	5.09	84	254604	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.11	67	76452	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.36	98	235153	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
43) trans-1,3-Dichloropropene-	7.66	79	26747	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.14	63	128767	48.17	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.34%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	53005	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	79006	4.61	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	91856	4.361 ug/L	97
3) Chloromethane	1.25	50	88667	4.640 ug/L	100
5) Vinyl chloride	1.32	62	85936	4.590 ug/L	97
6) Bromomethane	1.53	94	31652	3.878 ug/L	100
8) Chloroethane	1.60	64	42790	4.373 ug/L	95
9) Trichlorofluoromethane	1.76	101	114200	4.714 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	65249	4.753 ug/L	99
12) 1,1-Dichloroethene	2.13	96	57626	4.598 ug/L	97
13) Acetone	2.21	43	112593	44.027 ug/L	97
14) Carbon disulfide	2.31	76	140814	4.175 ug/L	98
15) Methyl Acetate	2.46	43	27912	4.383 ug/L	96
16) Methylene chloride	2.53	84	64568	4.624 ug/L	94
17) Methyl tert-butyl Ether	2.81	73	157073	4.582 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	67401	4.575 ug/L	99
19) 1,1-Dichloroethane	3.22	63	134489	4.592 ug/L	98
21) 2-Butanone	4.03	43	190291	46.184 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	74375	4.594 ug/L	98

Data File : VV011751.D
Acq On : 25 Jun 2019 15:52
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Quant Time: Jun 26 01:45:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR062119WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jun 26 01:40:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	27797	4.557	ug/L	97
25) Chloroform	4.42	83	142172	4.421	ug/L	96
27) 1,2-Dichloroethane	5.18	62	88011	4.517	ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	114472	4.685	ug/L	99
30) Cyclohexane	4.72	56	124855	4.474	ug/L	99
31) Carbon tetrachloride	4.87	117	94375	4.570	ug/L	99
33) Benzene	5.14	78	296066	4.707	ug/L	100
34) Trichloroethene	5.96	95	74709	4.478	ug/L	98
35) Methylcyclohexane	6.17	83	124867	4.637	ug/L	96
37) 1,2-Dichloropropane	6.22	63	73353	4.593	ug/L	98
38) Bromodichloromethane	6.55	83	83658	4.593	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	100308	4.786	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	465779	46.491	ug/L	99
42) Toluene	7.43	91	310829	4.729	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	75454	4.861	ug/L	95
45) 1,1,2-Trichloroethane	7.88	97	46316	4.568	ug/L	95
47) Tetrachloroethene	8.02	164	57096	4.596	ug/L	98
48) 2-Hexanone	8.19	43	340093	48.279	ug/L	100
49) Dibromochloromethane	8.29	129	48711	4.781	ug/L	99
50) 1,2-Dibromoethane	8.40	107	42612	4.603	ug/L #	98
51) Chlorobenzene	8.92	112	191529	4.699	ug/L	98
52) Ethylbenzene	9.05	91	338968	4.672	ug/L	98
53) m,p-xylene	9.18	106	126869	4.762	ug/L	100
54) o-xylene	9.59	106	124220	4.769	ug/L	100
55) Styrene	9.60	104	208039	5.012	ug/L	98
56) Isopropylbenzene	9.97	105	334717	4.796	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	58013	4.813	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	42569	4.587	ug/L	99
61) Bromoform	9.77	173	22927	4.492	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	139378	4.547	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	140622	4.441	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	132418	4.535	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	7691	4.599	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	106918	4.691	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	85126	4.819	ug/L	97
69) Naphthalene	13.55	128	138726	4.803	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	77948	4.747	ug/L	98

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

Data File : VV011751.D

Acq On : 25 Jun 2019 15:52

Operator : SY/MD

Sample : VSTDCCC005EC

Misc : 25ML/MSVOA V/WATER

```
ALS Vial      : 9      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

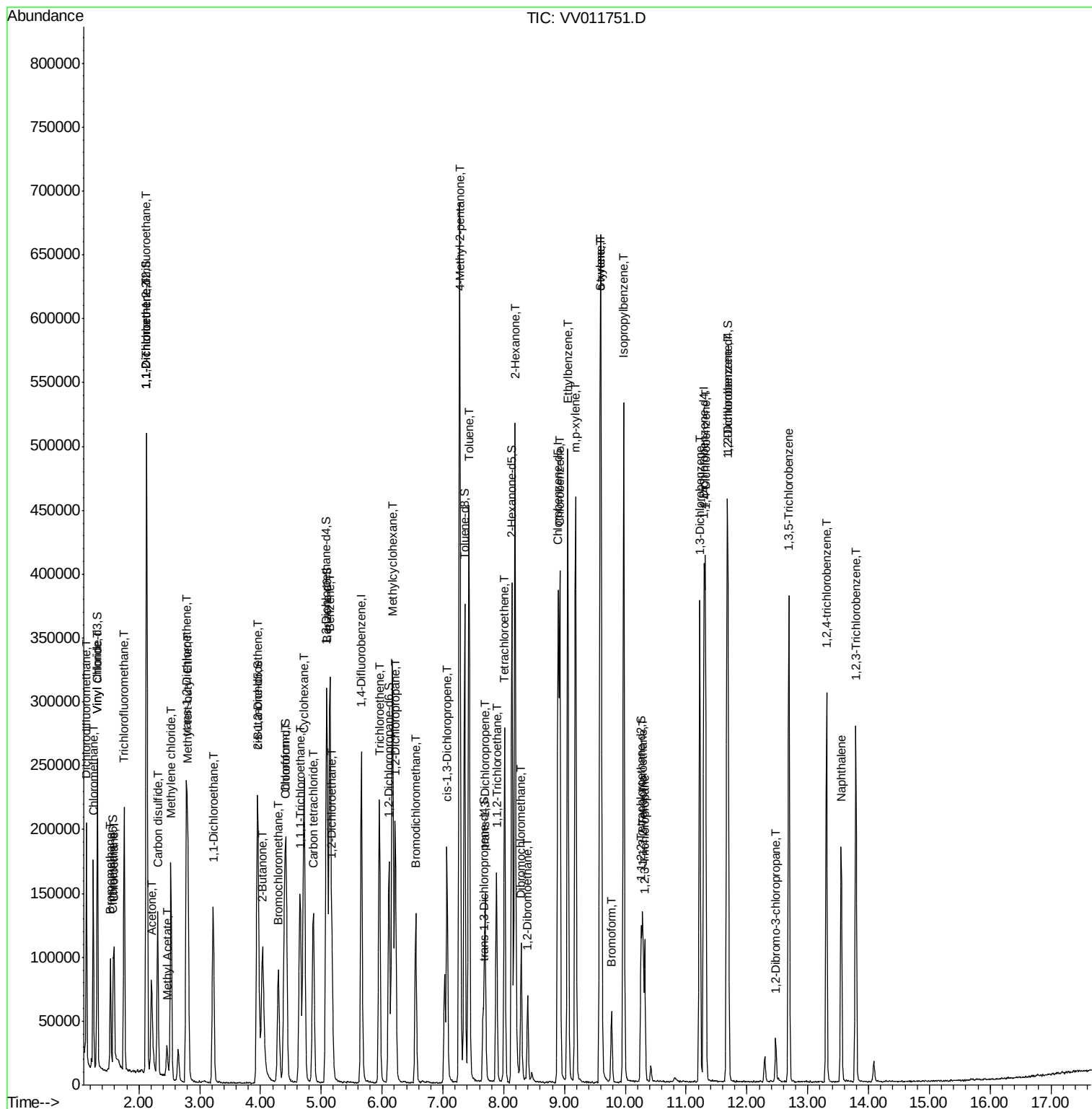
Quant Time: Jun 26 01:45:01 2019

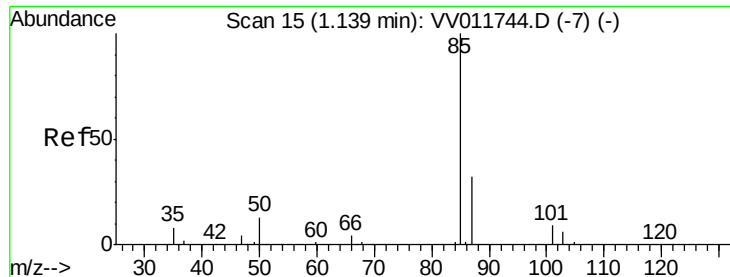
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR062119WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Jun 26 01:40:21 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.361 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

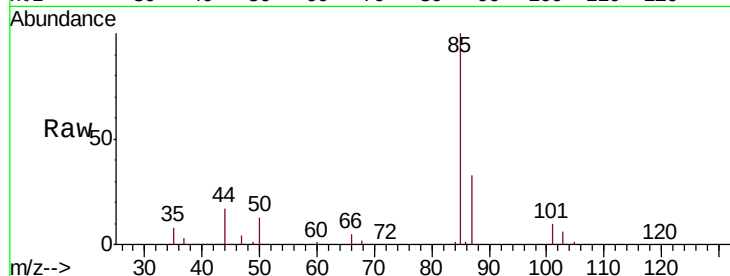
VSTD00550

Tgt Ion: 85 Resp: 91856

Ion Ratio Lower Upper

85 100

87 32.7 25.0 37.4



Abundance Ion 85.00 (84.70 to 85.70): VV011744.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV011744.D (-7) (-)

1.14

100000

80000

60000

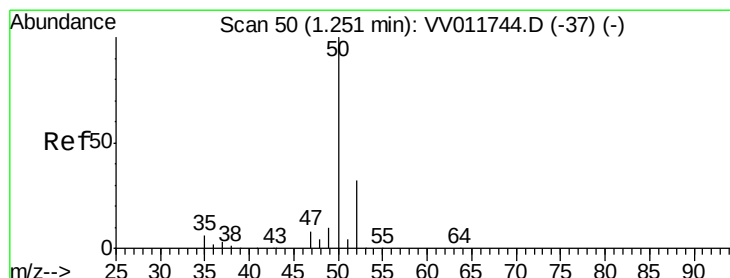
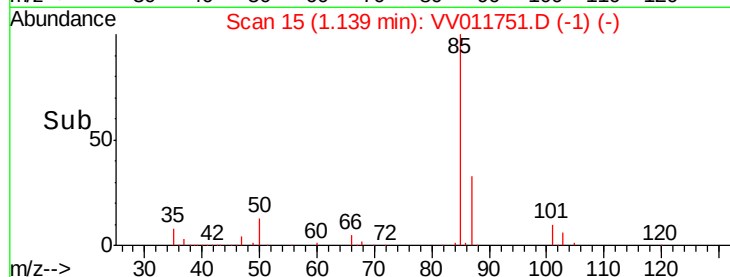
40000

20000

0

1.10 1.15 1.20

Time-->



#3

Chloromethane

Concen: 4.640 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV011751.D

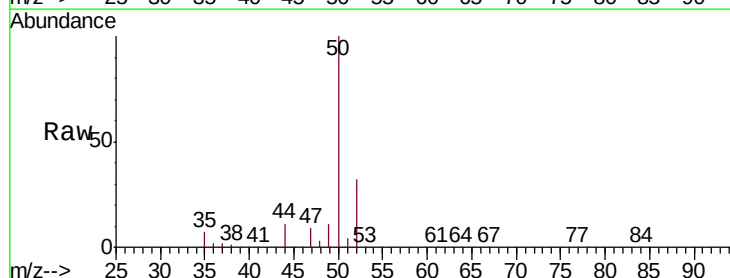
Acq: 25 Jun 2019 15:52

Tgt Ion: 50 Resp: 88667

Ion Ratio Lower Upper

50 100

52 31.6 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VV011744.D (-37) (-)

Ion 52.05 (51.75 to 52.75): VV011744.D (-37) (-)

1.25

100000

80000

60000

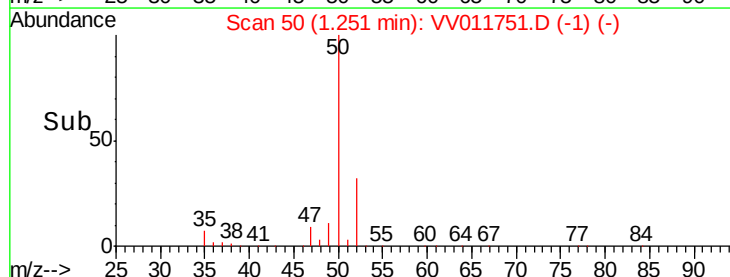
40000

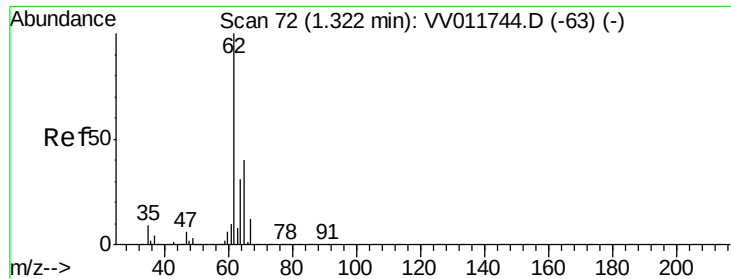
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 4.590 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

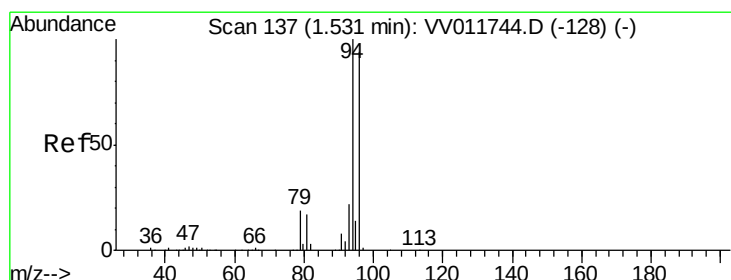
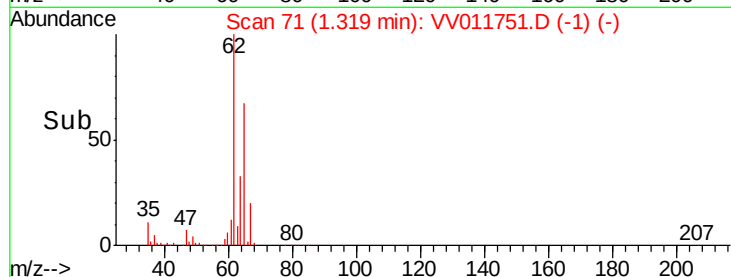
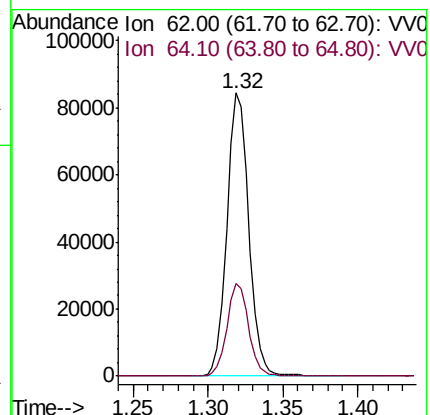
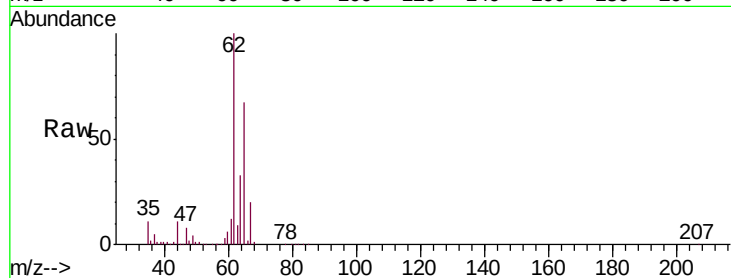
VSTD00550

Tgt Ion: 62 Resp: 85936

Ion Ratio Lower Upper

62 100

64 32.7 24.1 44.7



#6

Bromomethane

Concen: 3.878 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV011751.D

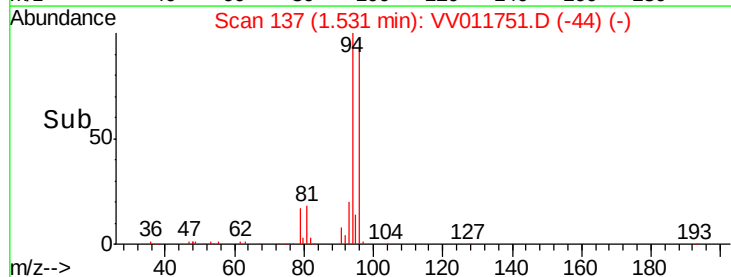
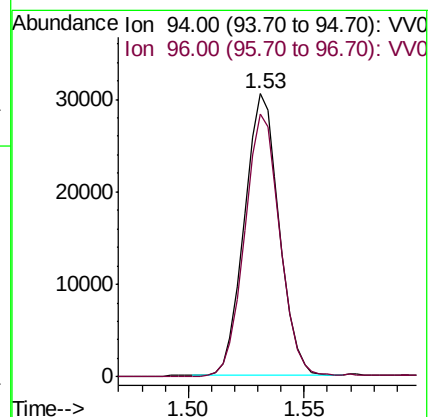
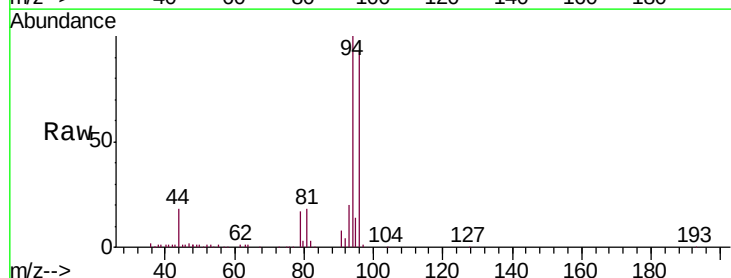
Acq: 25 Jun 2019 15:52

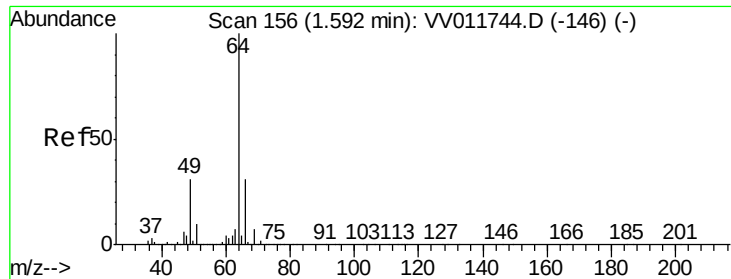
Tgt Ion: 94 Resp: 31652

Ion Ratio Lower Upper

94 100

96 93.1 65.2 121.2

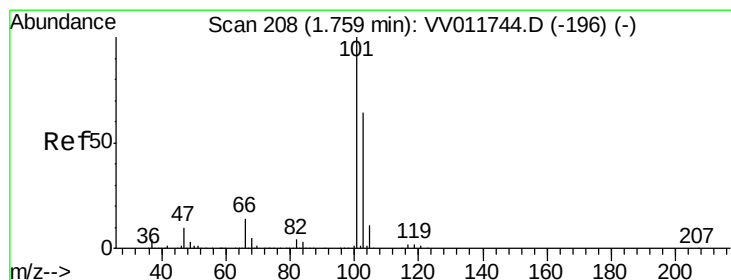
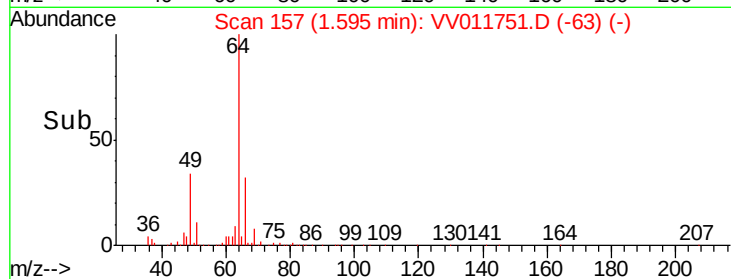
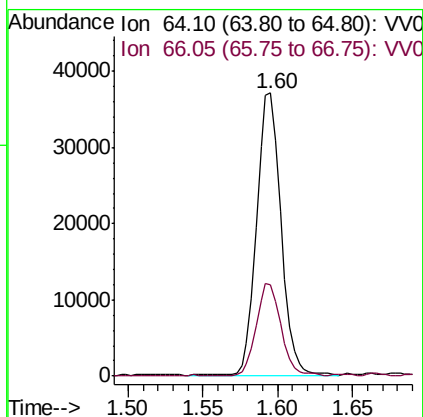
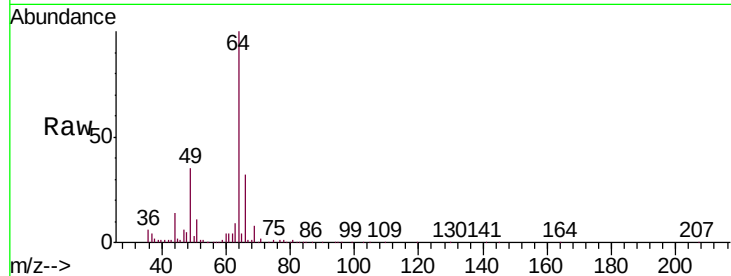




#8
Chloroethane
Concen: 4.373 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

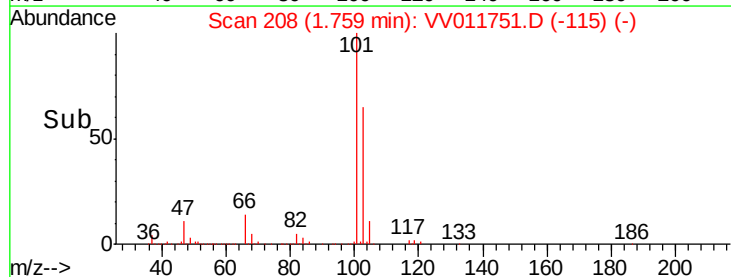
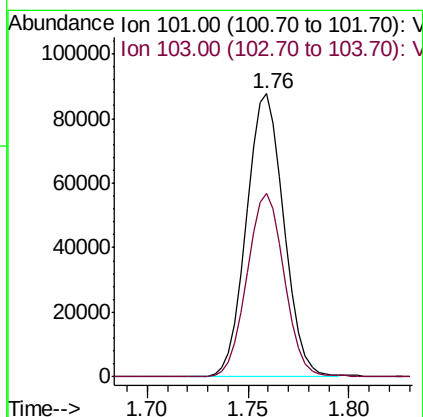
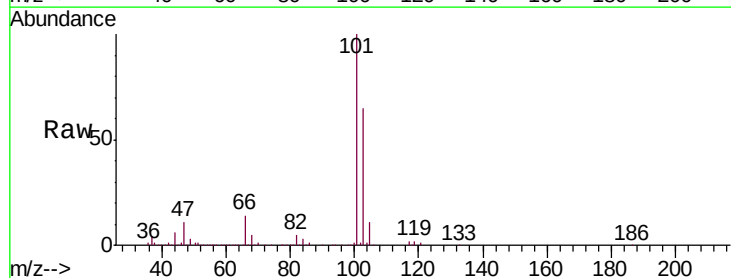
Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

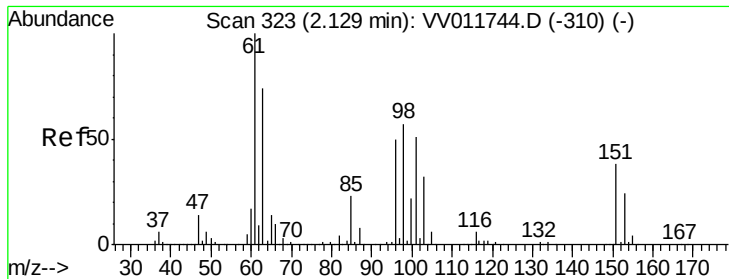
Tgt Ion: 64 Resp: 42790
Ion Ratio Lower Upper
64 100
66 32.4 20.6 38.4



#9
Trichlorofluoromethane
Concen: 4.714 ug/L
RT: 1.76 min Scan# 208
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 101 Resp: 114200
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.2





#10

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

Concen: 4.753 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00550

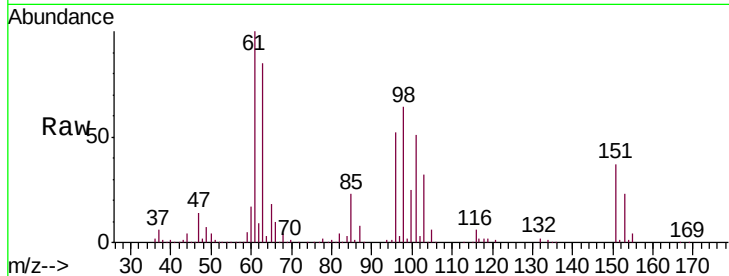
Tgt Ion:101 Resp: 65249

Ion Ratio Lower Upper

101 100

85 43.7 35.9 53.9

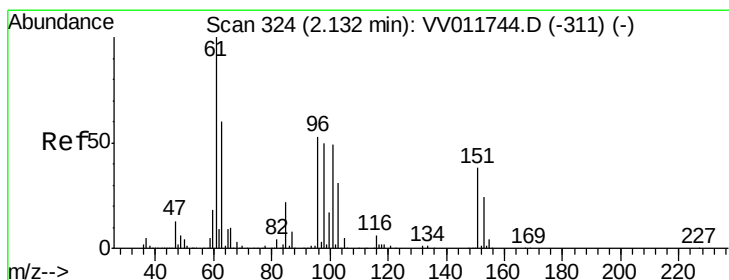
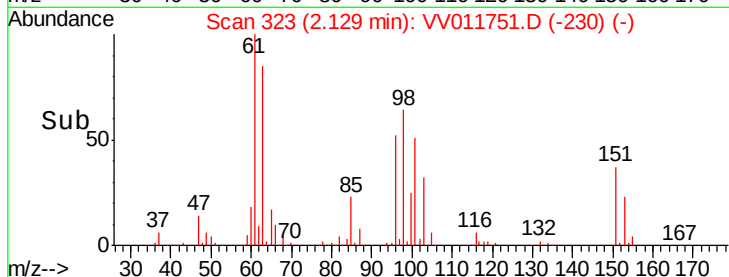
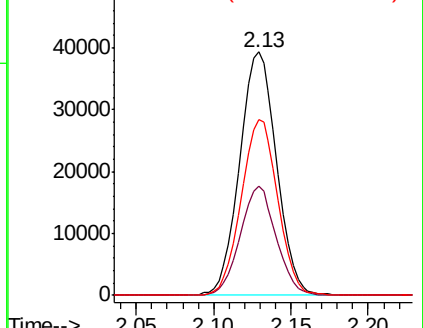
151 71.5 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): VV011744.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV011744.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV011744.D (-310) (-)



#12

1,1-Dichloroethene

Concen: 4.598 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

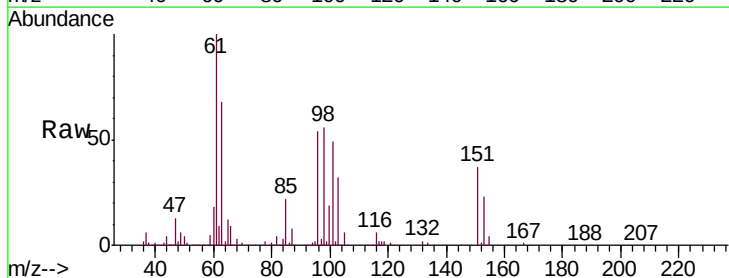
Tgt Ion: 96 Resp: 57626

Ion Ratio Lower Upper

96 100

61 185.7 131.5 244.1

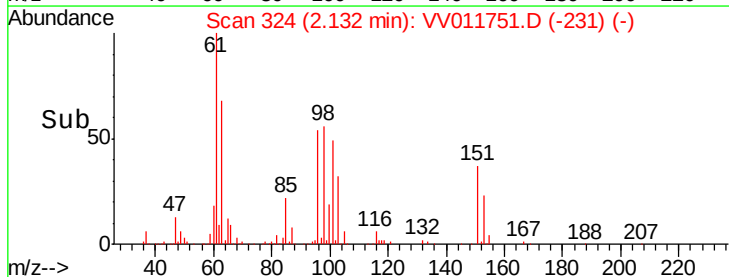
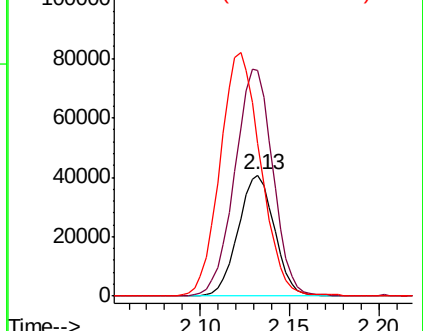
63 126.3 91.8 170.4

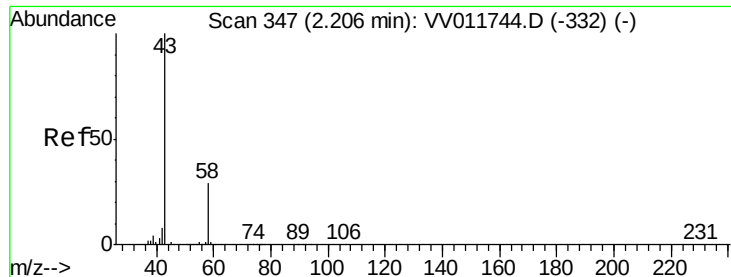


Abundance Ion 96.00 (95.70 to 96.70): VV011744.D (-311) (-)

Ion 61.05 (60.75 to 61.75): VV011744.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV011744.D (-311) (-)





#13

Acetone

Concen: 44.027 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

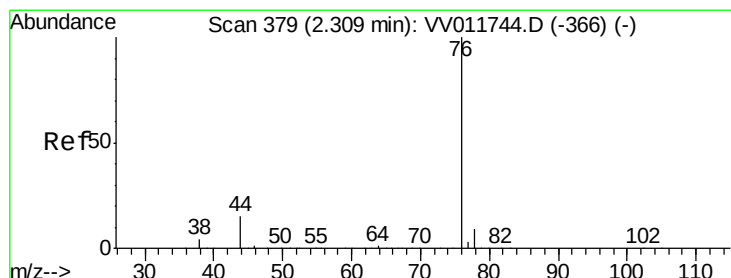
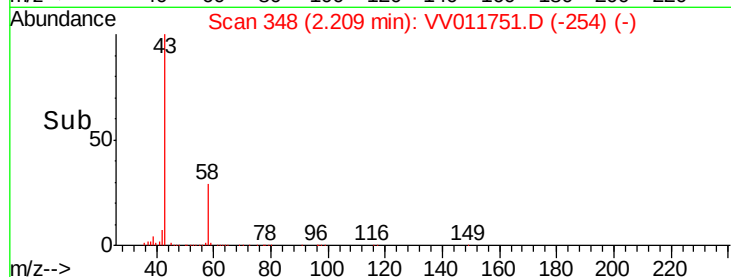
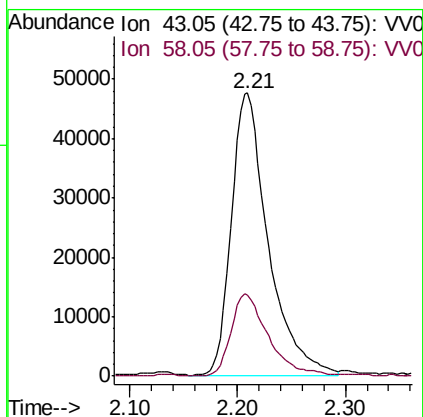
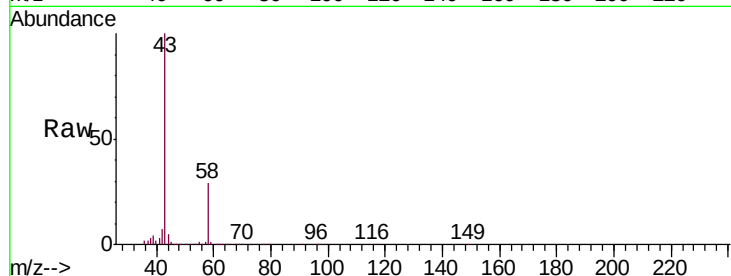
VSTD00550

Tgt Ion: 43 Resp: 112593

Ion Ratio Lower Upper

43 100

58 30.0 0.0 56.6



#14

Carbon disulfide

Concen: 4.175 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV011751.D

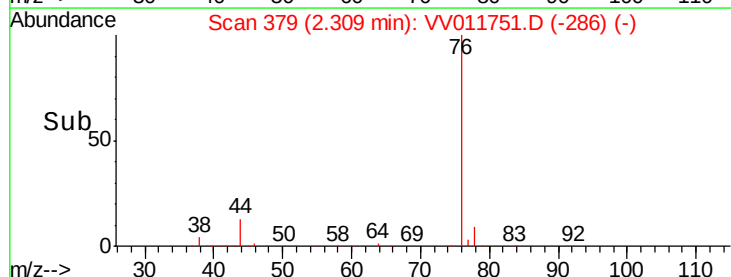
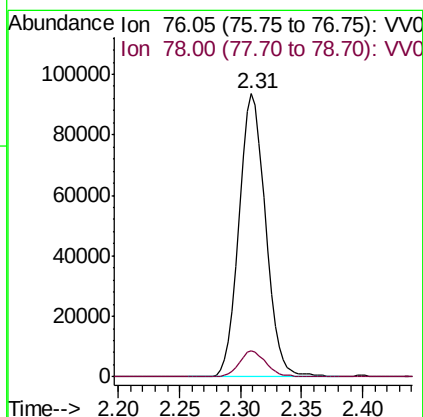
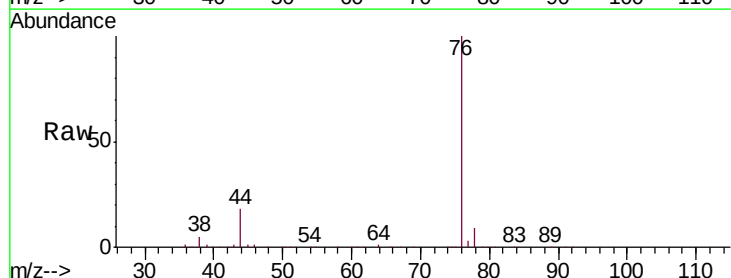
Acq: 25 Jun 2019 15:52

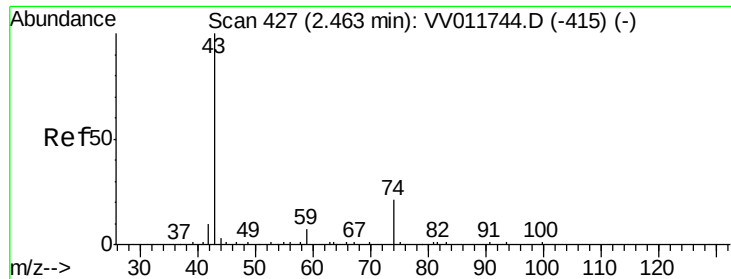
Tgt Ion: 76 Resp: 140814

Ion Ratio Lower Upper

76 100

78 9.4 7.0 10.4

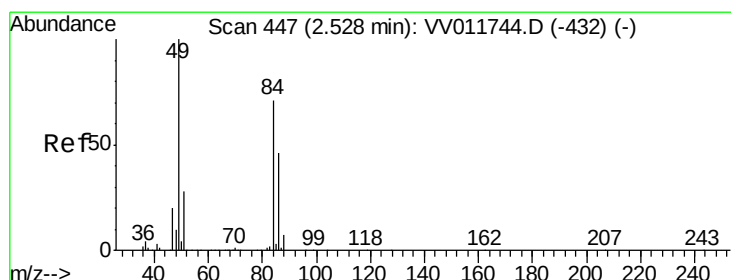
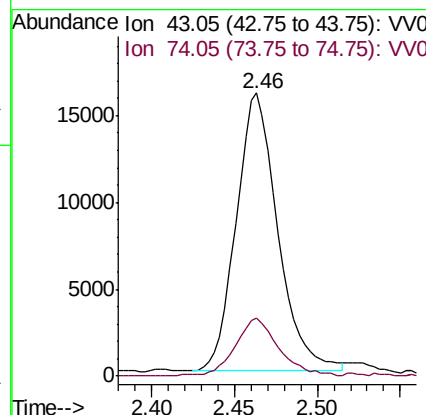
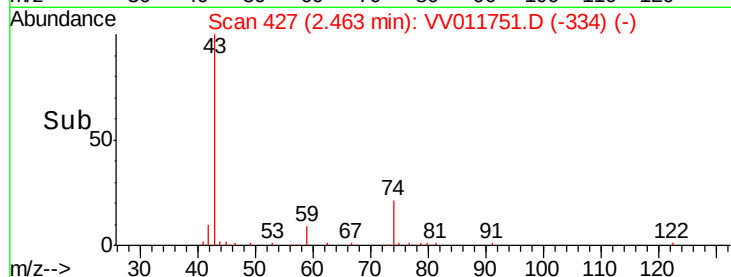
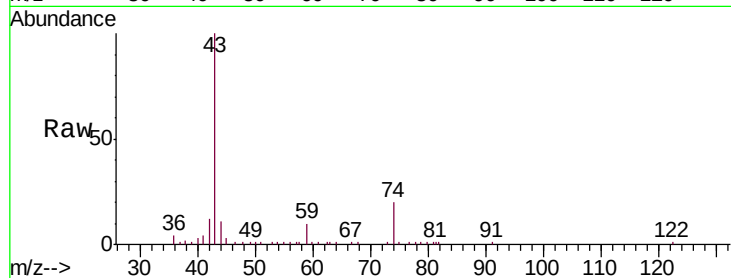




#15
Methyl Acetate
Concen: 4.383 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

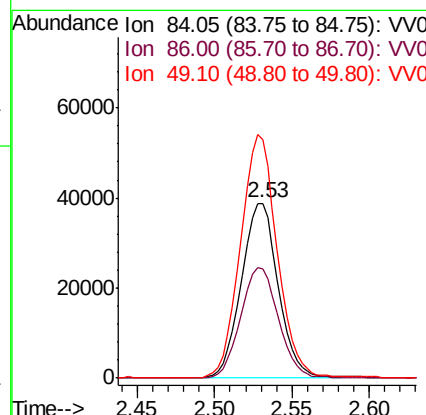
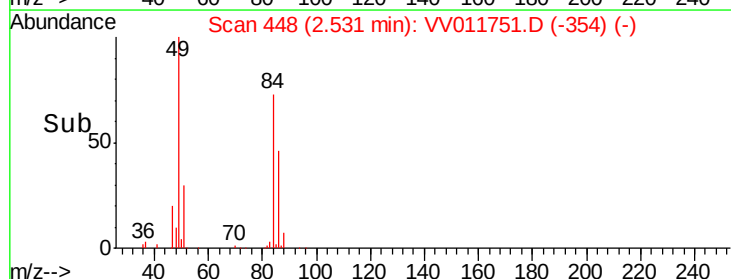
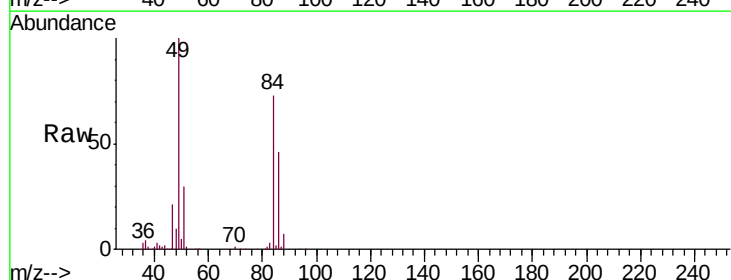
Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

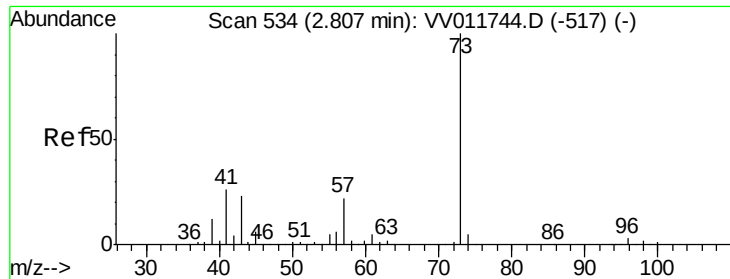
Tgt Ion: 43 Resp: 27912
Ion Ratio Lower Upper
43 100
74 21.8 16.2 24.2



#16
Methylene chloride
Concen: 4.624 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 84 Resp: 64568
Ion Ratio Lower Upper
84 100
86 62.1 44.9 83.5
49 136.2 101.4 188.2

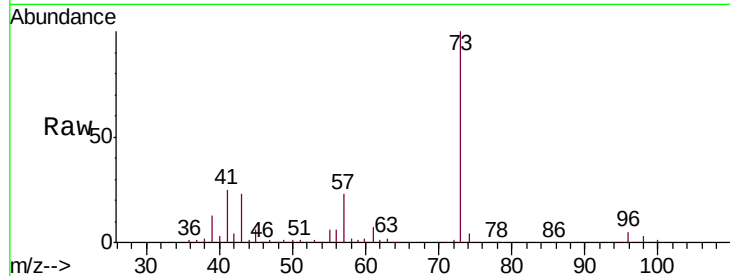




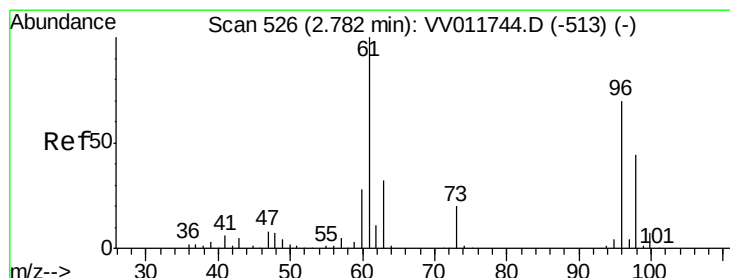
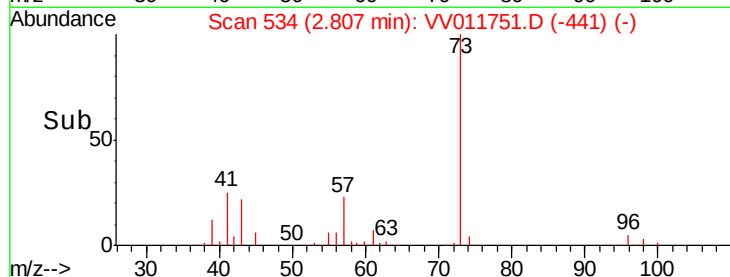
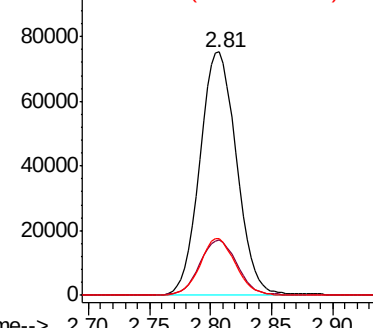
#17
Methyl tert-butyl Ether
Concen: 4.582 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Tgt Ion: 73 Resp: 157073
Ion Ratio Lower Upper
73 100
43 23.0 18.9 28.3
57 22.7 18.0 27.0

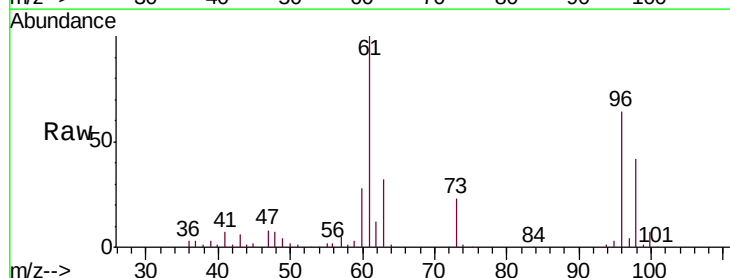


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

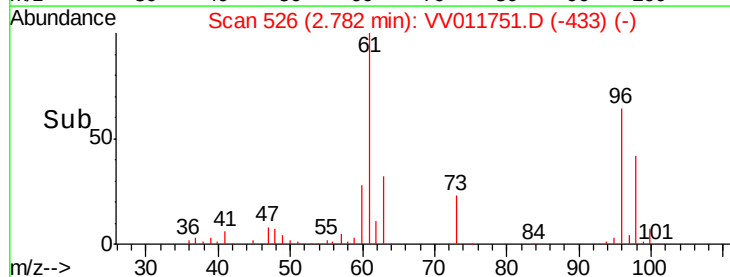
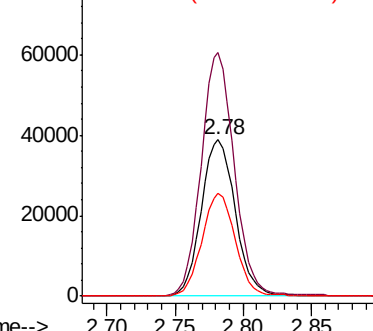


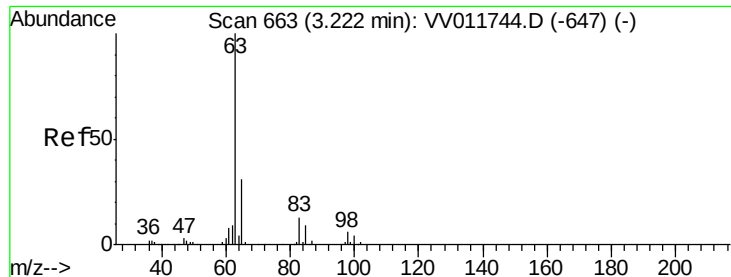
#18
trans-1,2-Dichloroethene
Concen: 4.575 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 96 Resp: 67401
Ion Ratio Lower Upper
96 100
61 155.9 109.3 203.1
98 65.7 44.6 82.8



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

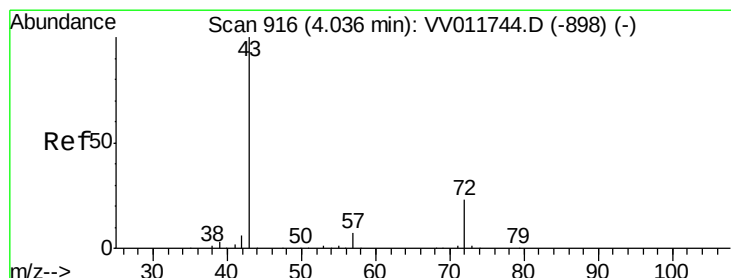
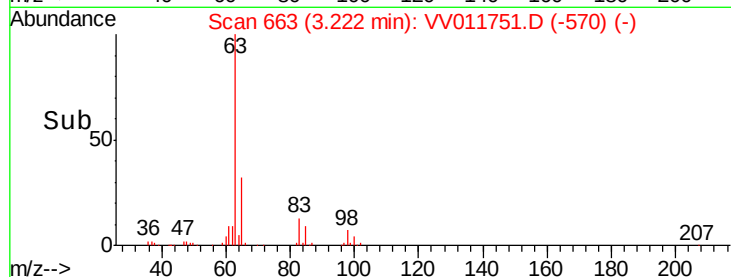
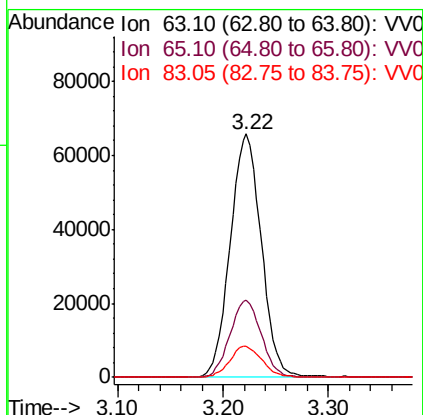
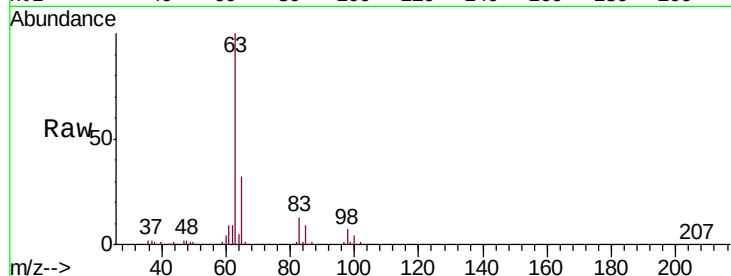




#19
 1,1-Dichloroethane
 Concen: 4.592 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

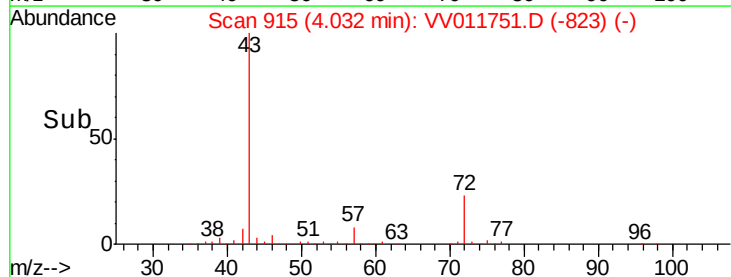
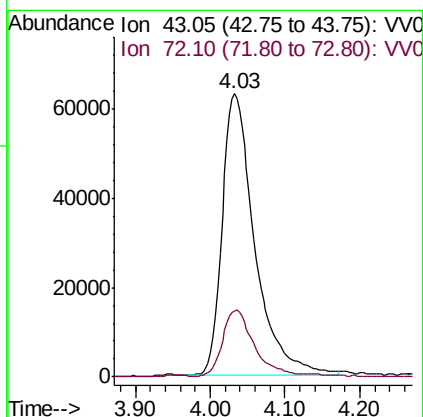
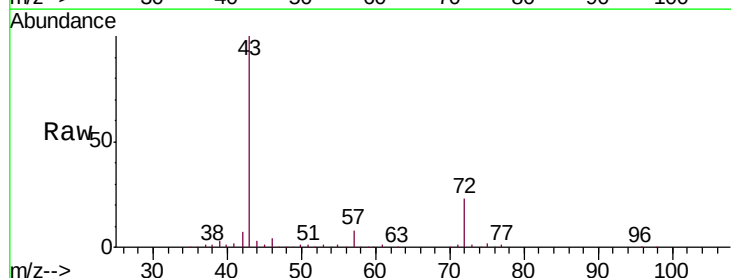
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00550

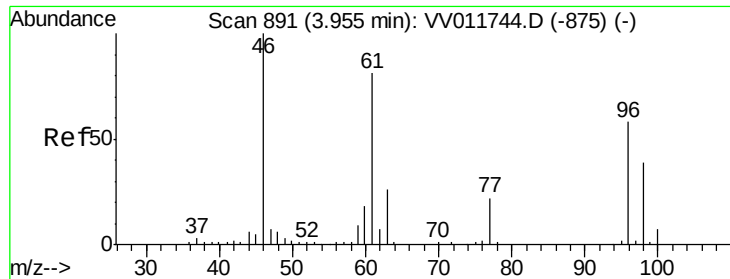
Tgt Ion: 63 Resp: 134489
 Ion Ratio Lower Upper
 63 100
 65 31.7 23.0 42.8
 83 12.7 9.5 17.7



#21
 2-Butanone
 Concen: 46.184 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. -0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion: 43 Resp: 190291
 Ion Ratio Lower Upper
 43 100
 72 22.4 10.9 32.6



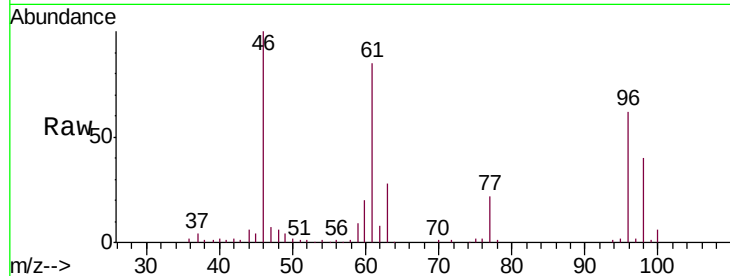


#22

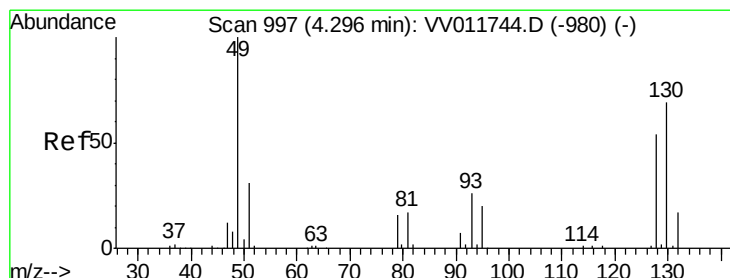
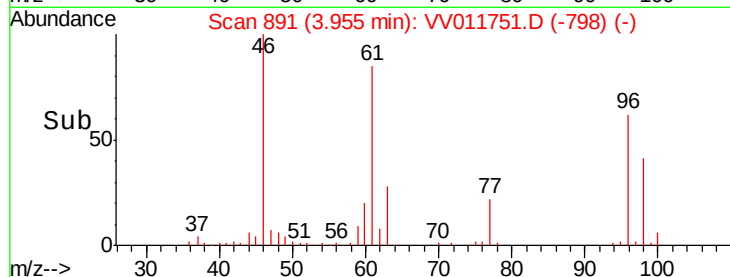
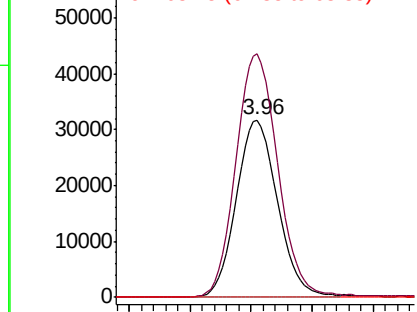
cis-1,2-Dichloroethene
Concen: 4.594 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Tgt Ion: 96 Resp: 74375
Ion Ratio Lower Upper
96 100
61 137.3 97.9 181.7
68 0.0 0.0 0.0



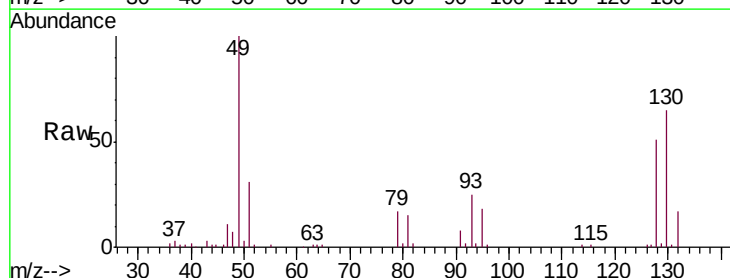
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



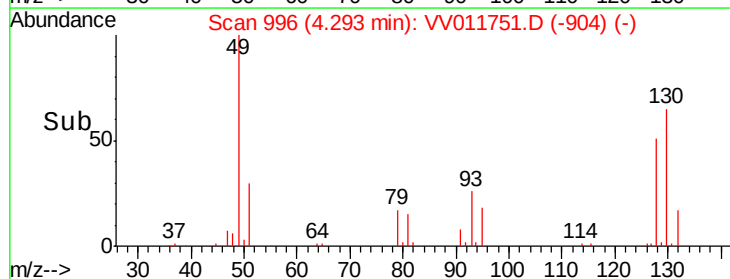
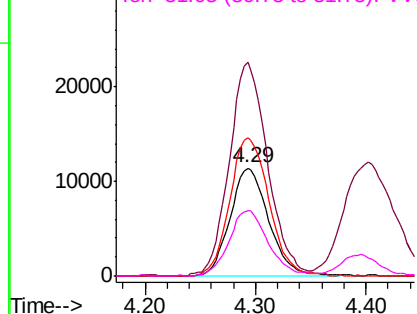
#23

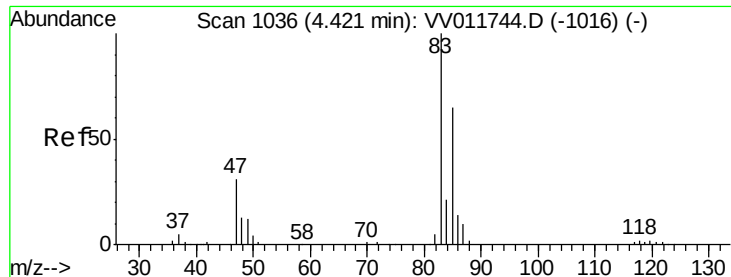
Bromochloromethane
Concen: 4.557 ug/L
RT: 4.29 min Scan# 996
Delta R.T. -0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 128 Resp: 27797
Ion Ratio Lower Upper
128 100
49 197.6 134.8 250.4
130 127.8 91.2 169.4
51 60.5 47.2 70.8



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

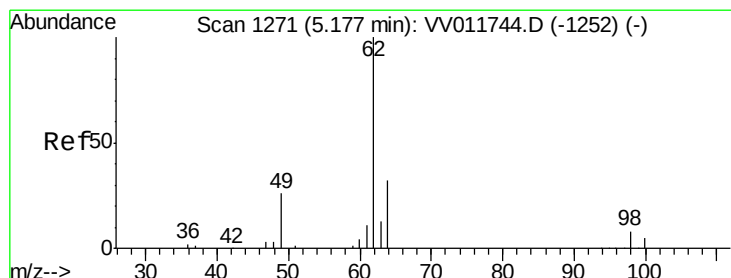
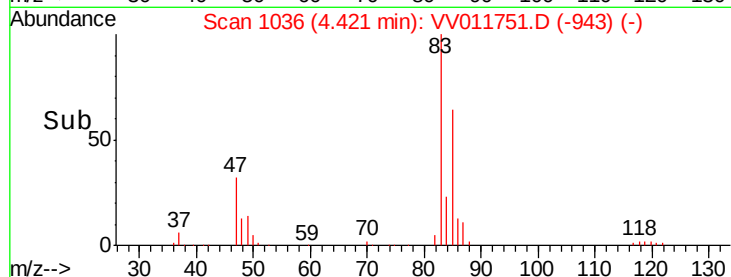
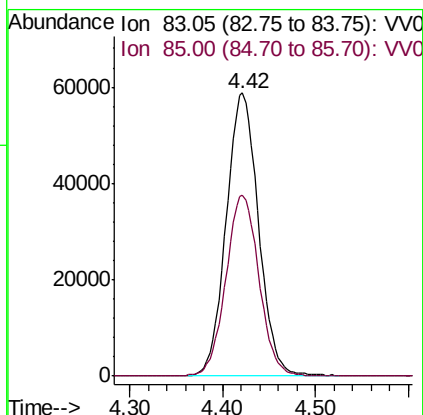
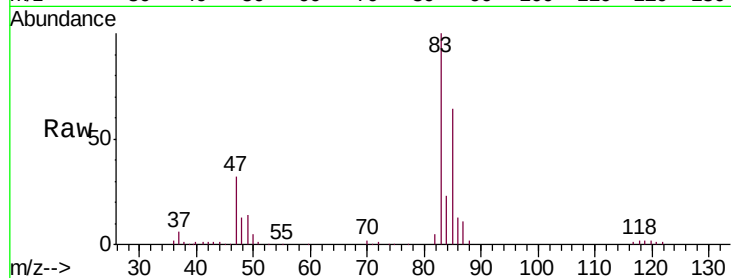




#25
Chloroform
Concen: 4.421 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

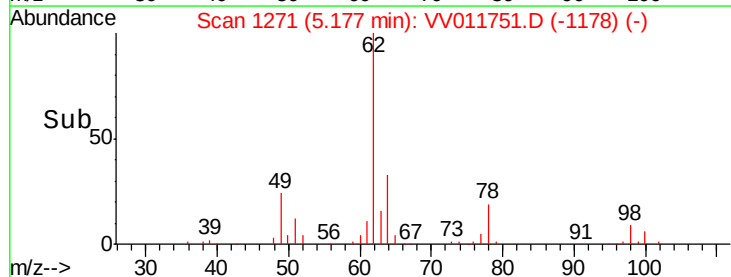
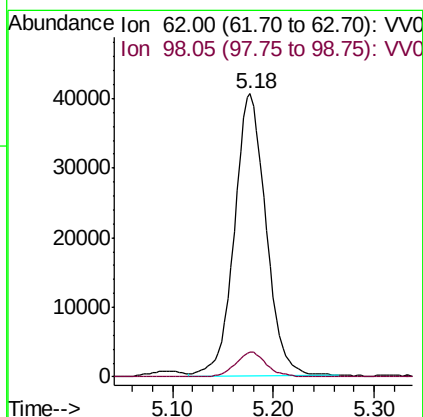
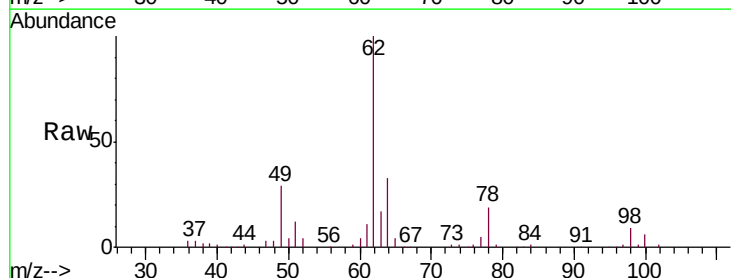
Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

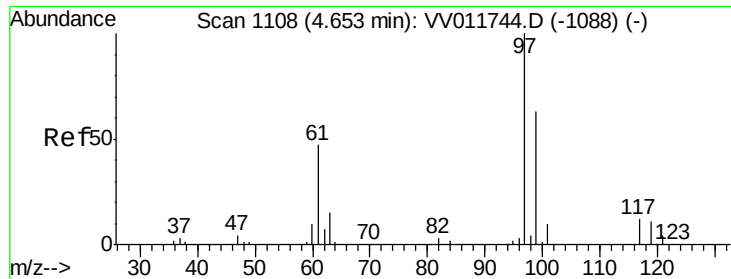
Tgt Ion: 83 Resp: 142172
Ion Ratio Lower Upper
83 100
85 64.1 47.0 87.2



#27
1,2-Dichloroethane
Concen: 4.517 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 62 Resp: 88011
Ion Ratio Lower Upper
62 100
98 8.6 6.2 9.4

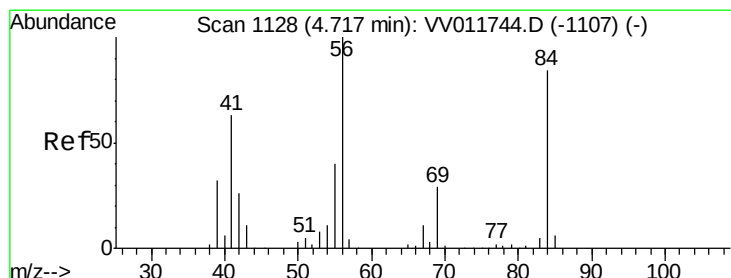
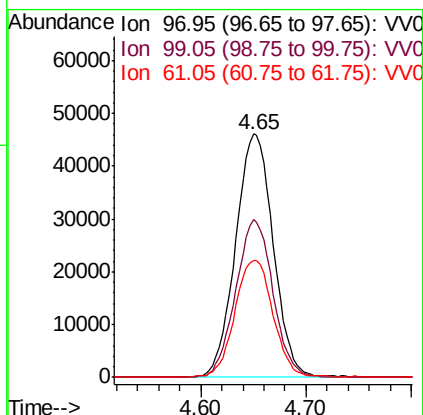
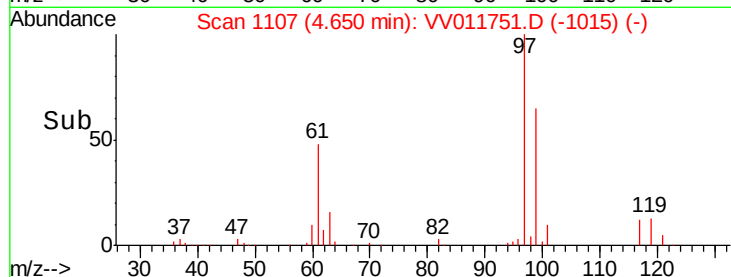
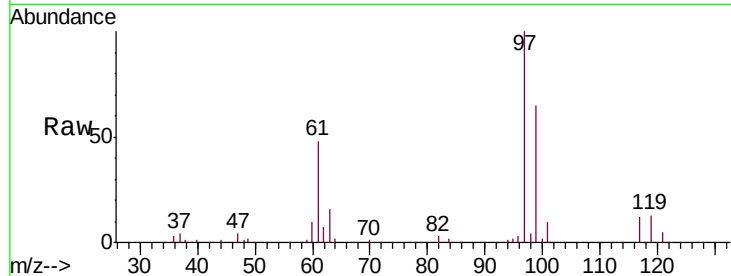




#29
 1,1,1-Trichloroethane
 Concen: 4.685 ug/L
 RT: 4.65 min Scan# 1107
 Delta R.T. -0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

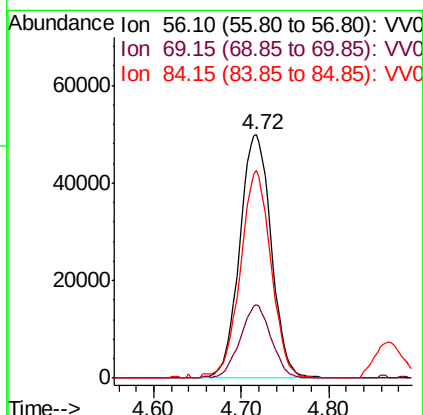
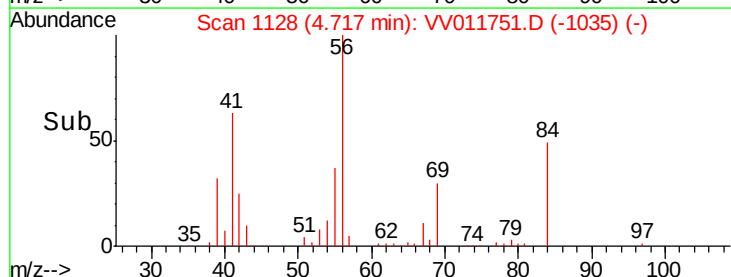
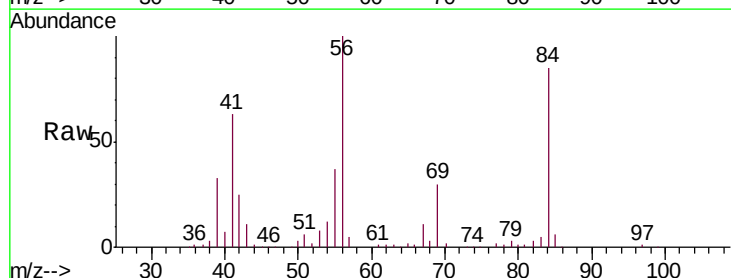
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00550

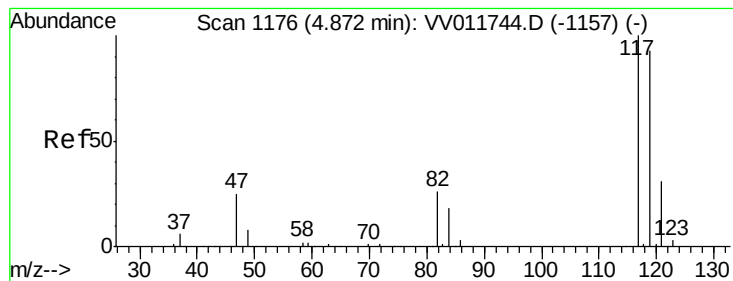
Tgt Ion: 97 Resp: 114472
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.6 77.4
 61 49.0 39.8 59.6



#30
 Cyclohexane
 Concen: 4.474 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion: 56 Resp: 124855
 Ion Ratio Lower Upper
 56 100
 69 29.4 23.2 34.8
 84 82.7 65.0 97.4





#31

Carbon tetrachloride

Concen: 4.570 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

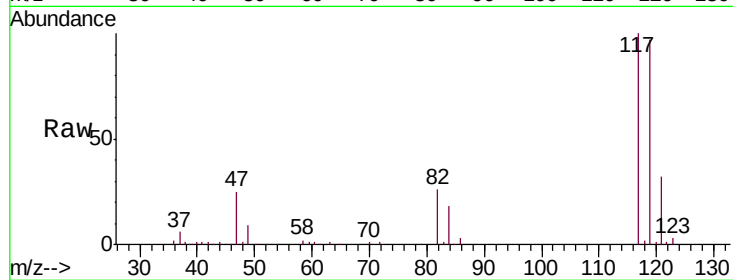
VSTD00550

Tgt Ion:117 Resp: 94375

Ion Ratio Lower Upper

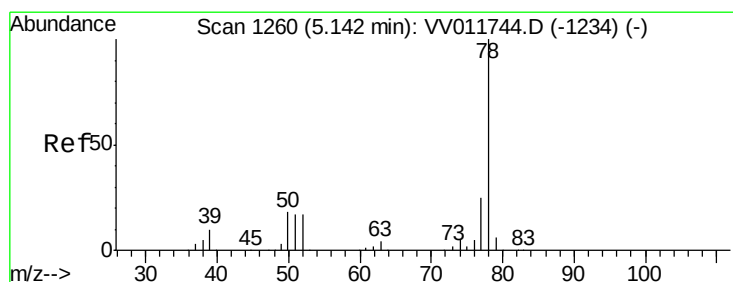
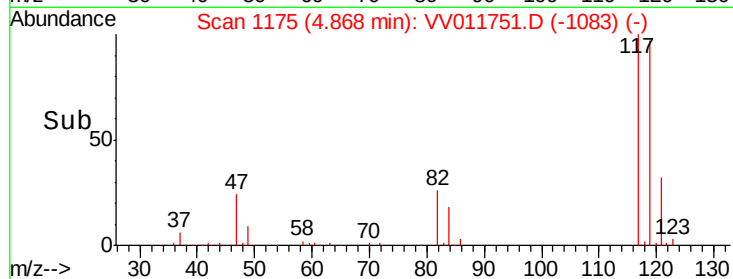
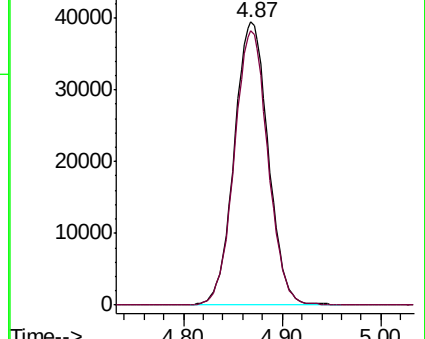
117 100

119 95.8 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.707 ug/L

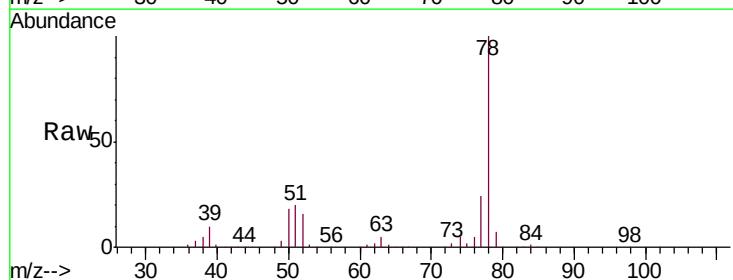
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

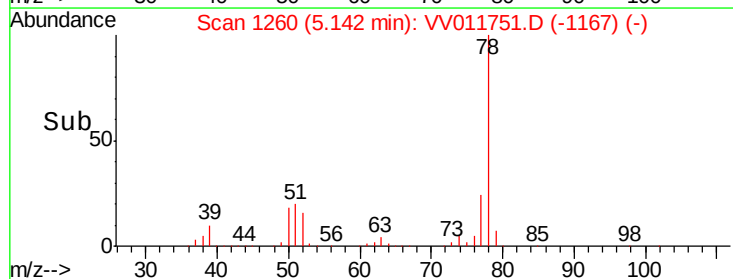
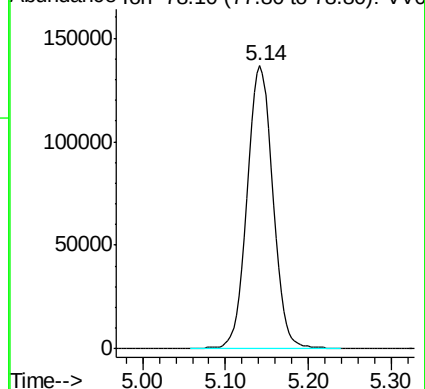
Lab File: VV011751.D

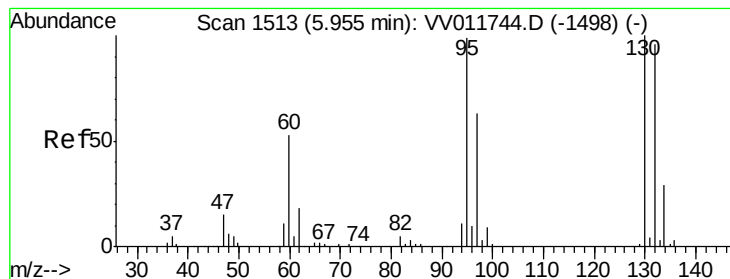
Acq: 25 Jun 2019 15:52

Tgt Ion: 78 Resp: 296066



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.478 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00550

Tgt Ion: 95 Resp: 74709

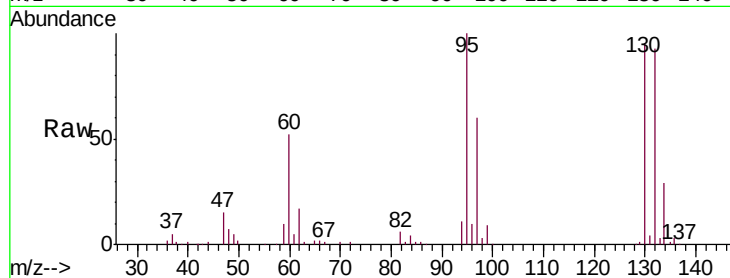
Ion Ratio Lower Upper

95 100

97 59.9 44.4 82.5

132 93.4 65.0 120.6

130 95.4 67.1 124.7

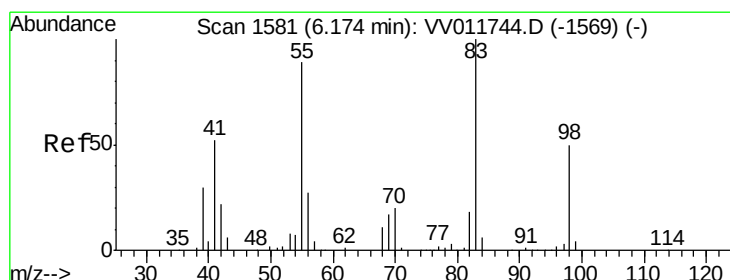
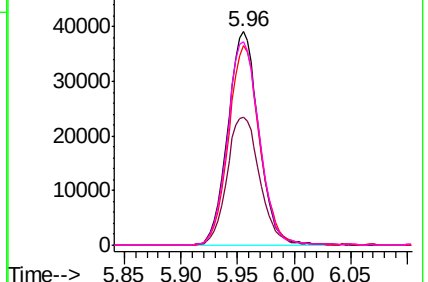
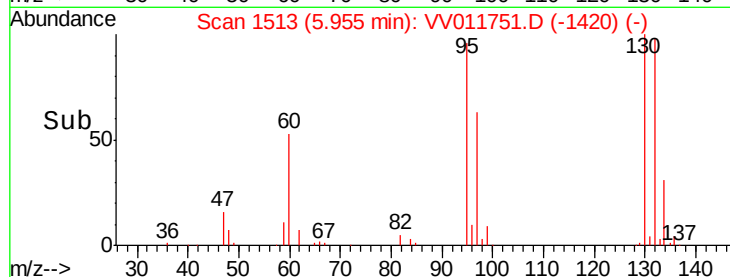


Abundance Ion 95.00 (94.70 to 95.70): VV011751.D (-1420) (-)

Ion 96.95 (96.65 to 97.65): VV011751.D (-1420) (-)

Ion 131.95 (131.65 to 132.65): VV011751.D (-1420) (-)

Ion 129.95 (129.65 to 130.65): VV011751.D (-1420) (-)



#35

Methylcyclohexane

Concen: 4.637 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

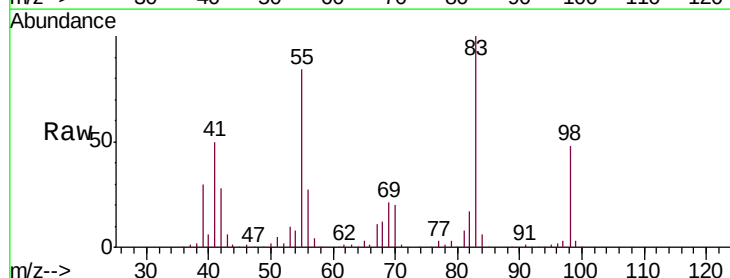
Tgt Ion: 83 Resp: 124867

Ion Ratio Lower Upper

83 100

55 82.5 69.4 104.2

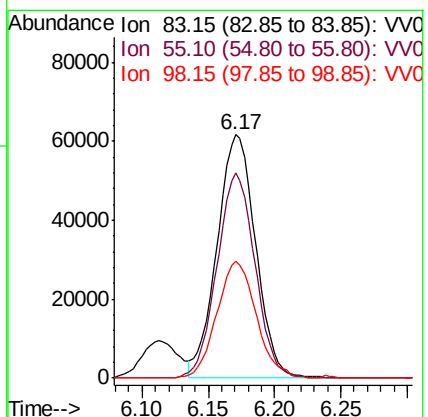
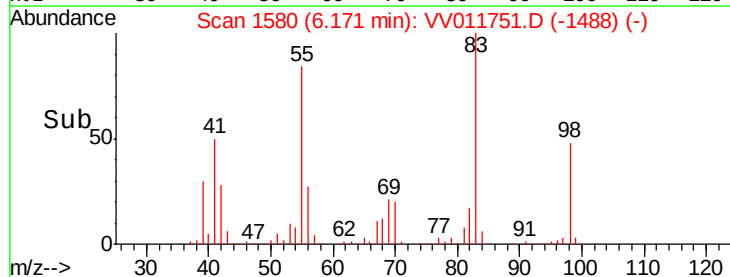
98 49.1 40.2 60.4

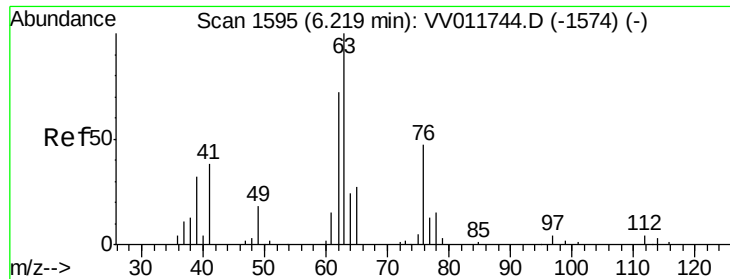


Abundance Ion 83.15 (82.85 to 83.85): VV011751.D (-1488) (-)

Ion 55.10 (54.80 to 55.80): VV011751.D (-1488) (-)

Ion 98.15 (97.85 to 98.85): VV011751.D (-1488) (-)

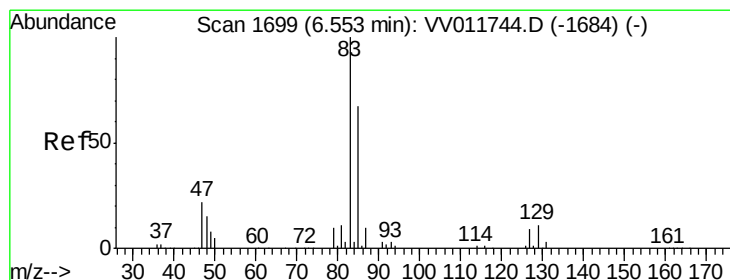
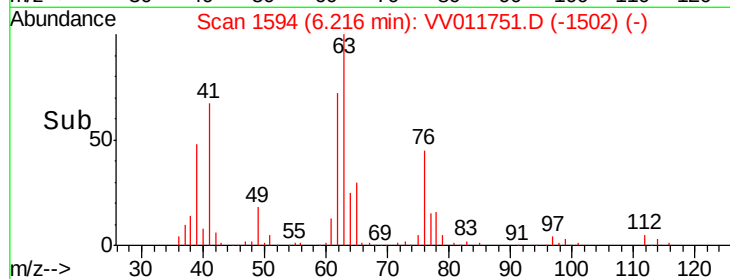
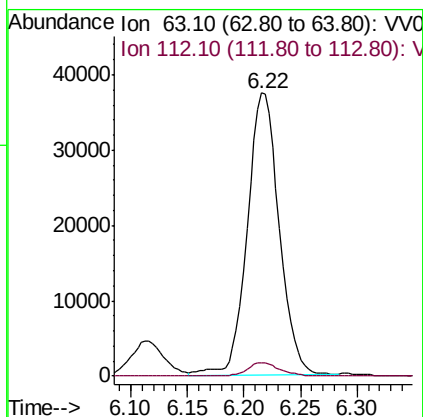
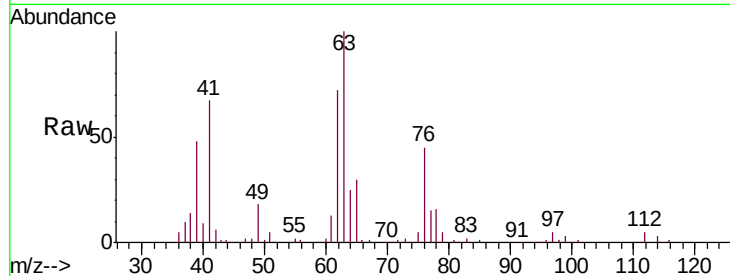




#37
 1,2-Dichloropropane
 Concen: 4.593 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

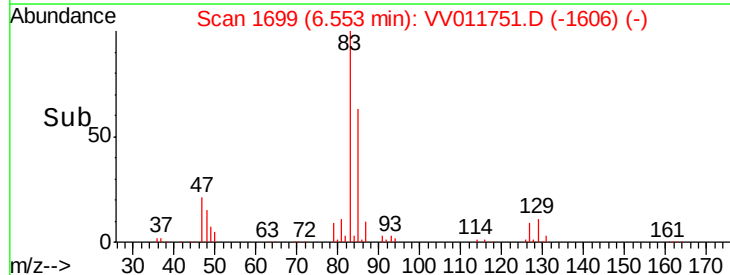
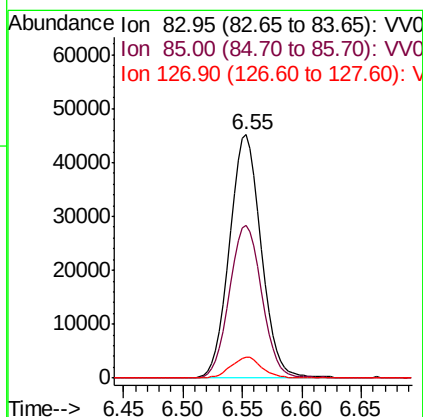
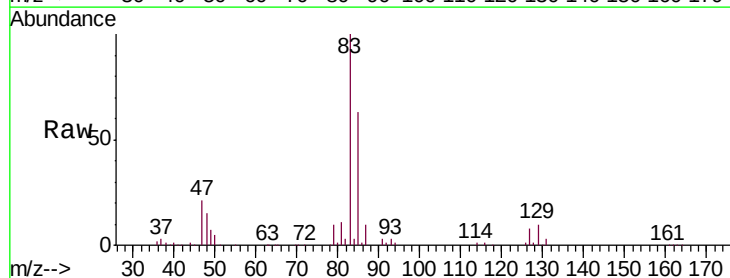
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00550

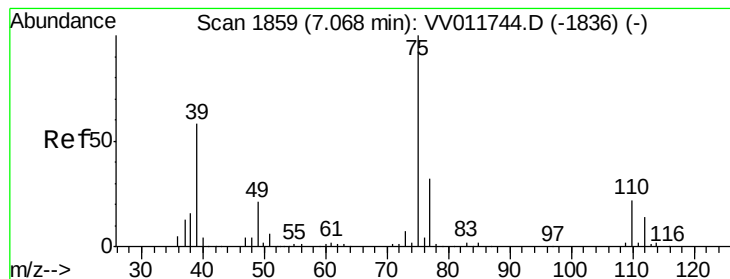
Tgt Ion: 63 Resp: 73353
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.4 5.2



#38
 Bromodichloromethane
 Concen: 4.593 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion: 83 Resp: 83658
 Ion Ratio Lower Upper
 83 100
 85 62.9 44.5 82.7
 127 8.5 6.2 9.2



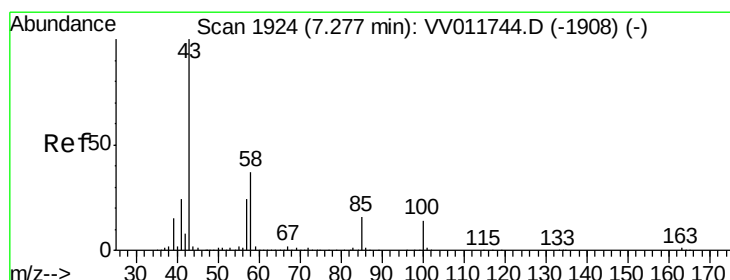
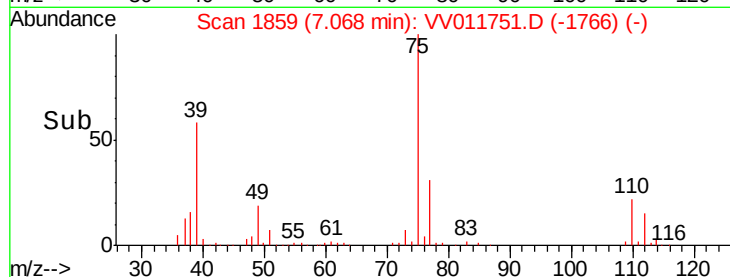
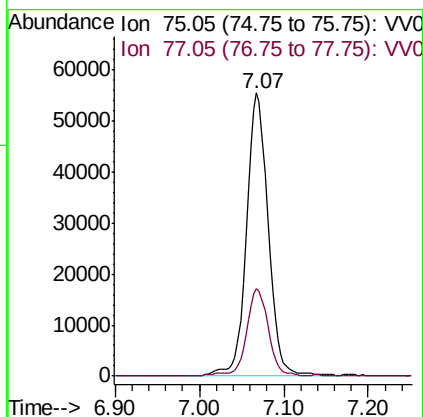
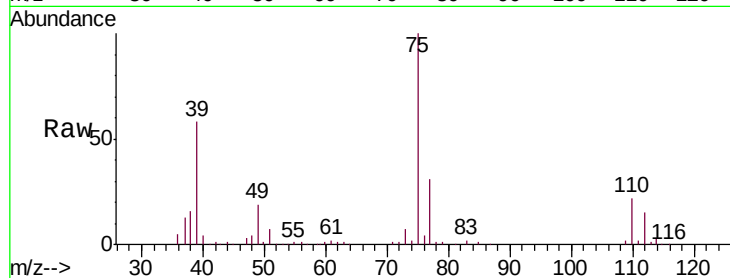


#39

cis-1,3-Dichloropropene
 Concen: 4.786 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00550

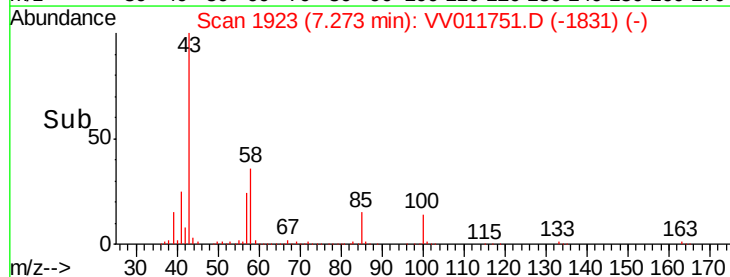
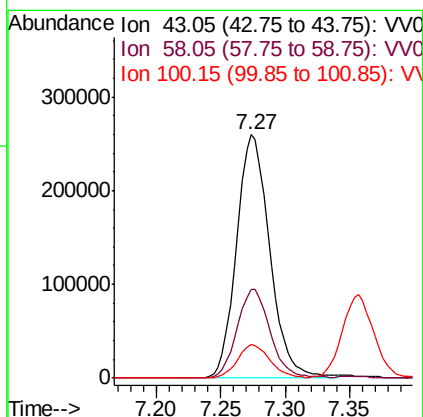
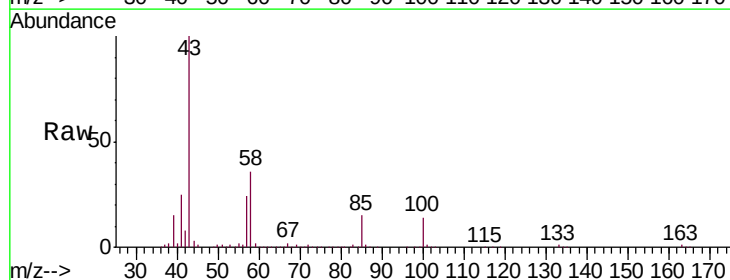
Tgt Ion: 75 Resp: 100308
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.4 41.6

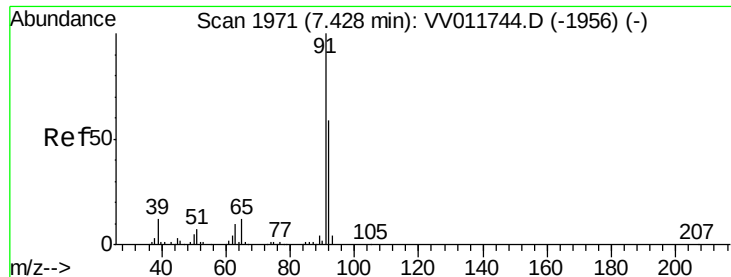


#40

4-Methyl-2-pentanone
 Concen: 46.491 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. -0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion: 43 Resp: 465779
 Ion Ratio Lower Upper
 43 100
 58 36.5 28.6 43.0
 100 13.6 10.7 16.1





#42

Toluene

Concen: 4.729 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

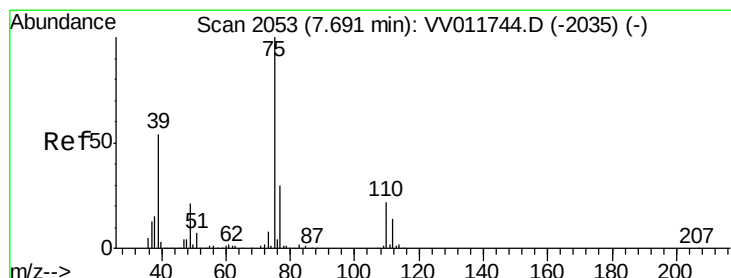
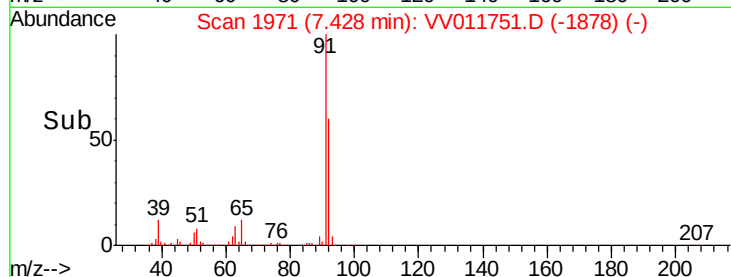
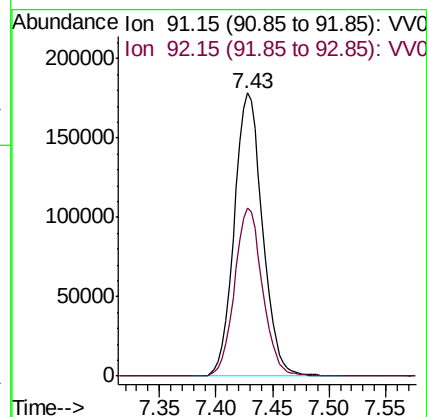
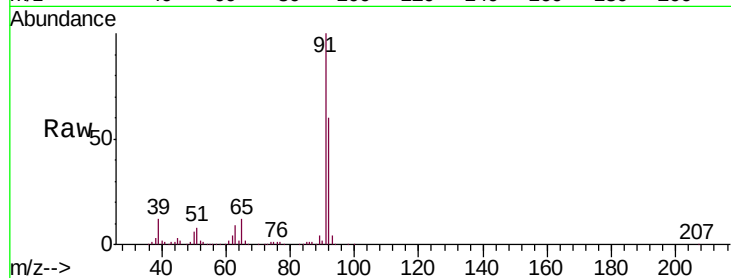
VSTD00550

Tgt Ion: 91 Resp: 310829

Ion Ratio Lower Upper

91 100

92 59.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 4.861 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011751.D

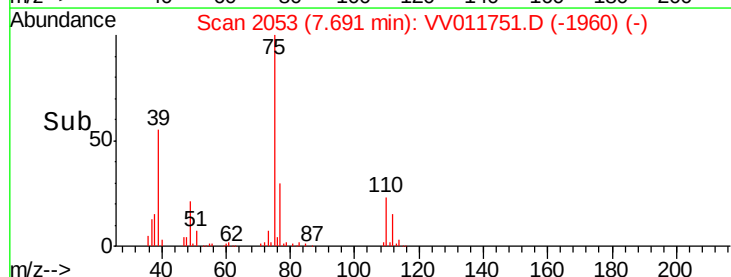
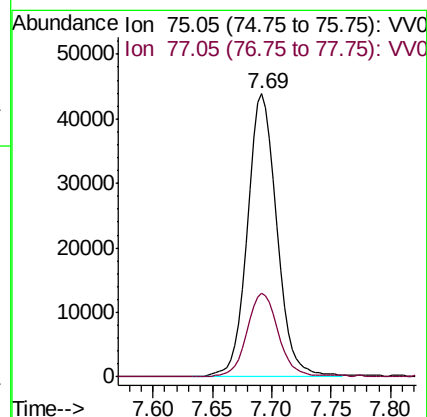
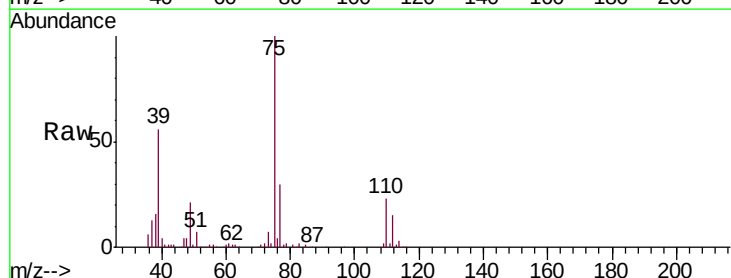
Acq: 25 Jun 2019 15:52

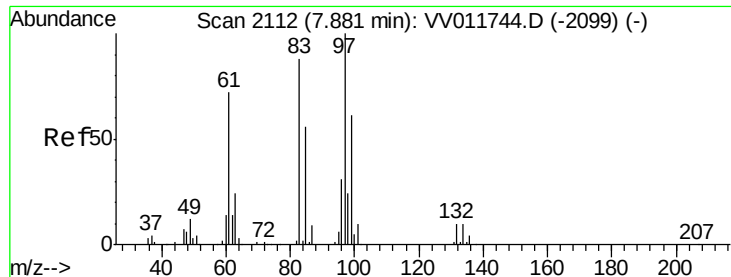
Tgt Ion: 75 Resp: 75454

Ion Ratio Lower Upper

75 100

77 29.5 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 4.568 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00550

Tgt Ion: 97 Resp: 46316

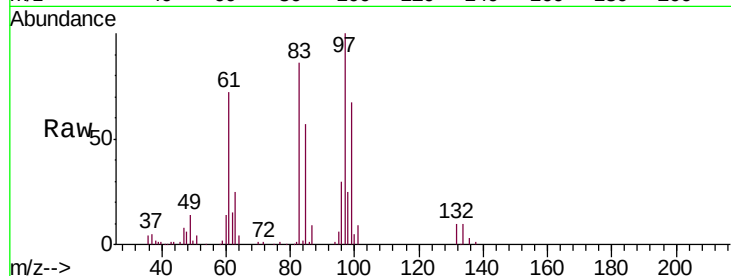
Ion Ratio Lower Upper

97 100

99 67.1 45.7 84.9

83 86.2 65.0 120.6

85 57.1 42.4 78.6



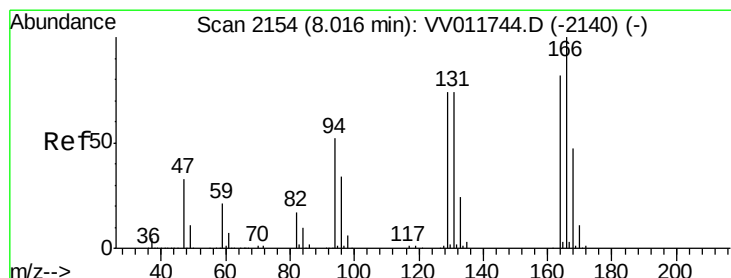
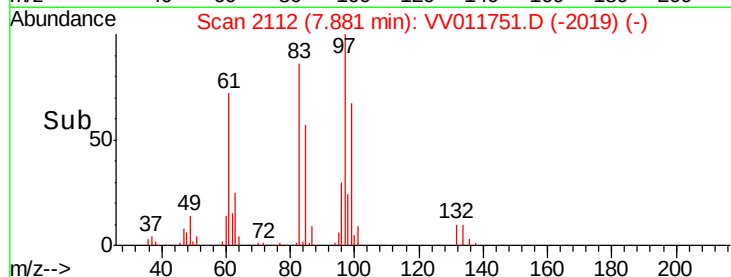
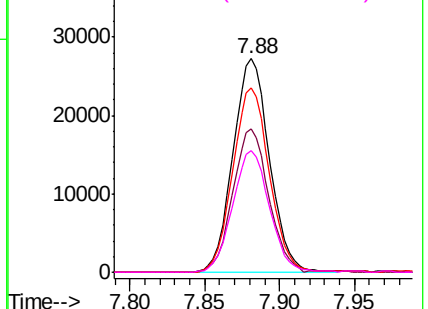
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.596 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Tgt Ion:164 Resp: 57096

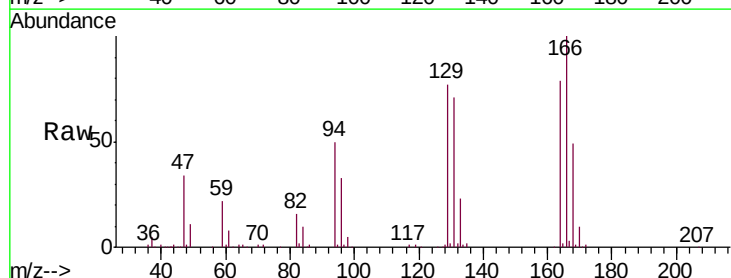
Ion Ratio Lower Upper

164 100

129 98.1 69.7 129.5

131 90.3 64.6 120.0

166 126.7 86.4 160.4



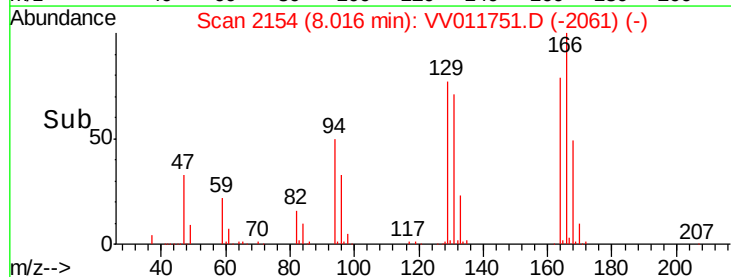
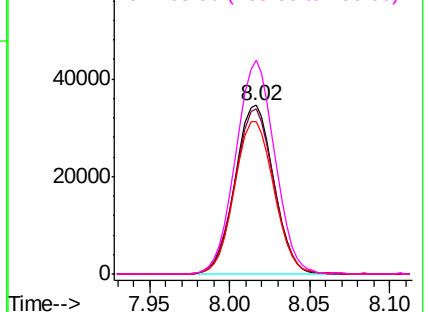
Abundance

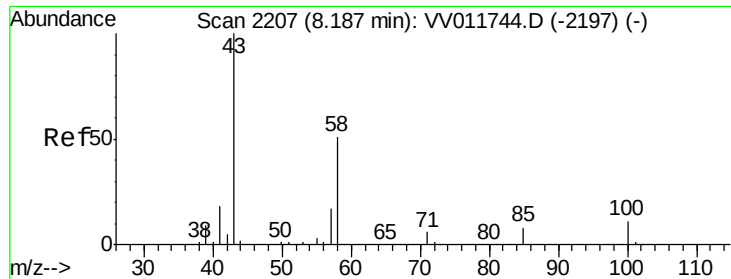
Ion 163.90 (163.60 to 164.60): V

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

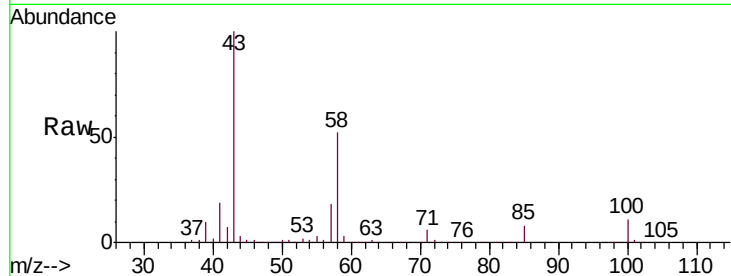




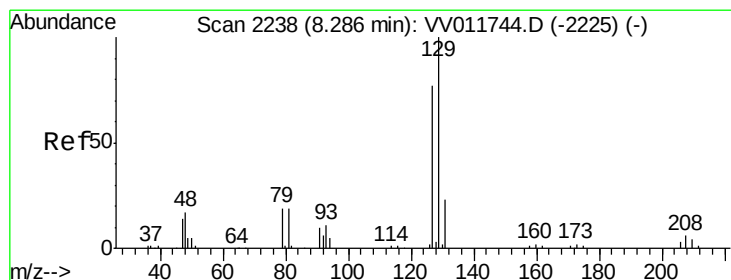
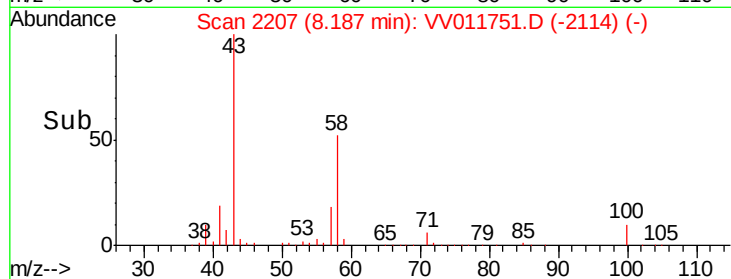
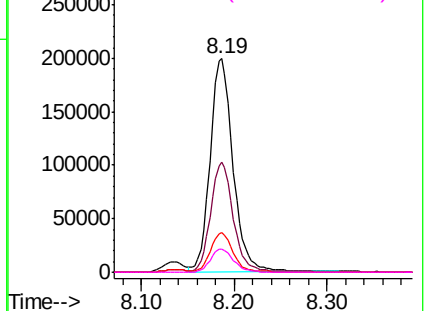
#48
2-Hexanone
Concen: 48.279 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Tgt Ion: 43 Resp: 340093
Ion Ratio Lower Upper
43 100
58 50.4 40.1 60.1
57 18.3 14.4 21.6
100 10.7 8.6 12.8

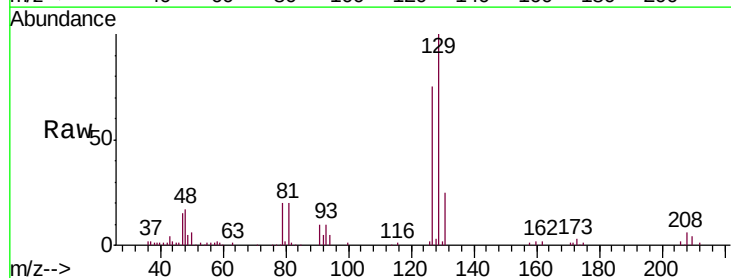


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

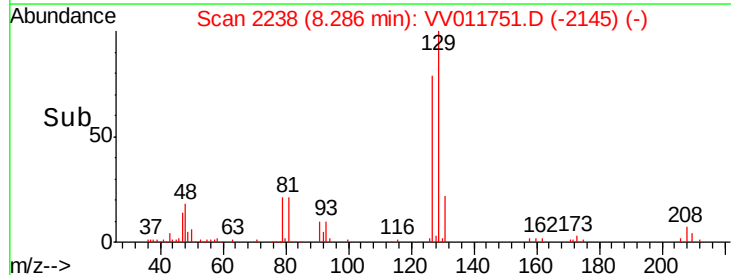
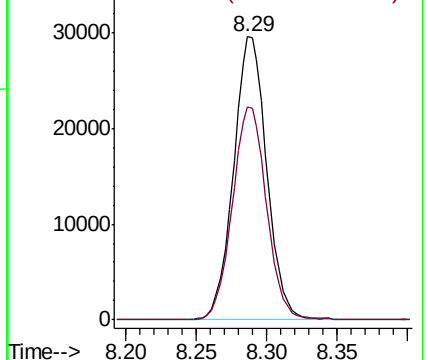


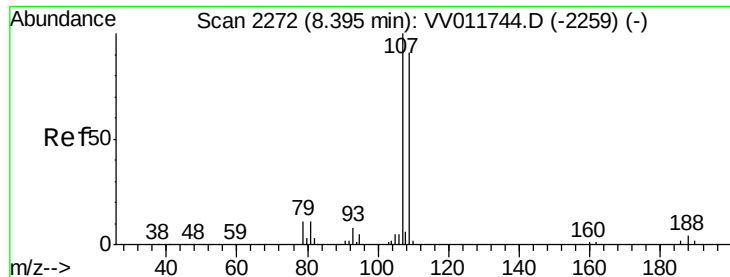
#49
Dibromochloromethane
Concen: 4.781 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion: 129 Resp: 48711
Ion Ratio Lower Upper
129 100
127 75.4 53.5 99.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

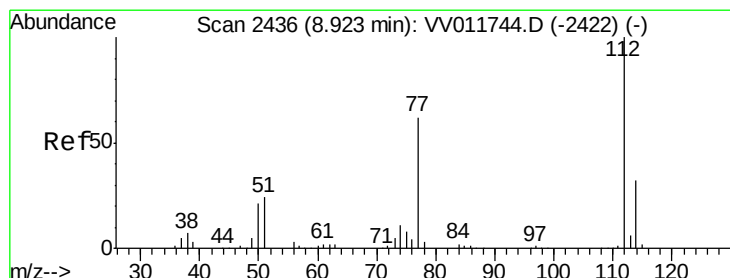
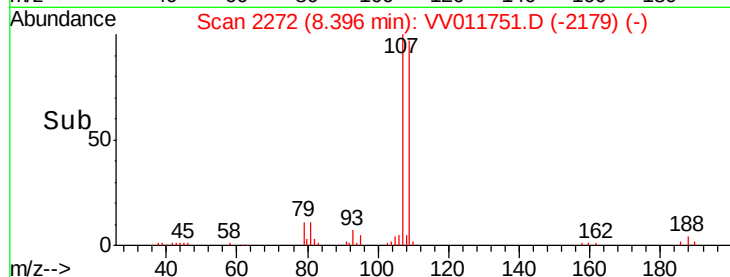
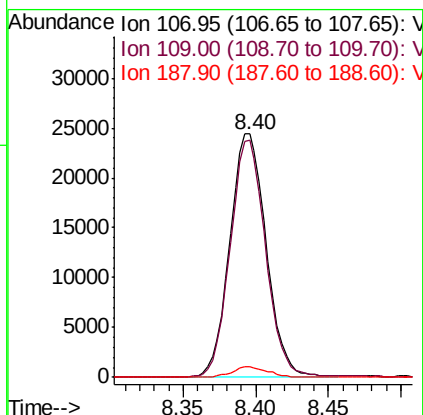
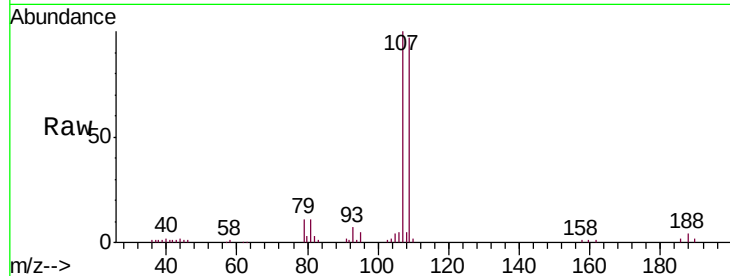




#50
1,2-Dibromoethane
Concen: 4.603 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

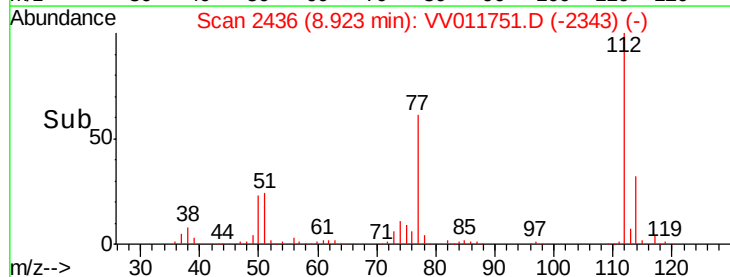
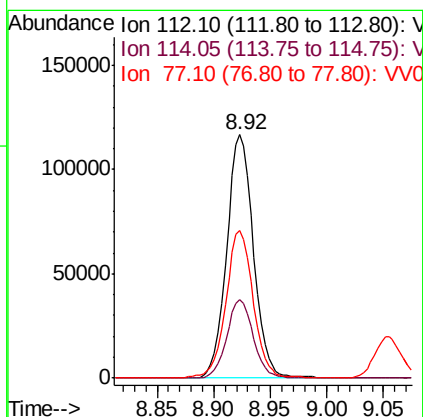
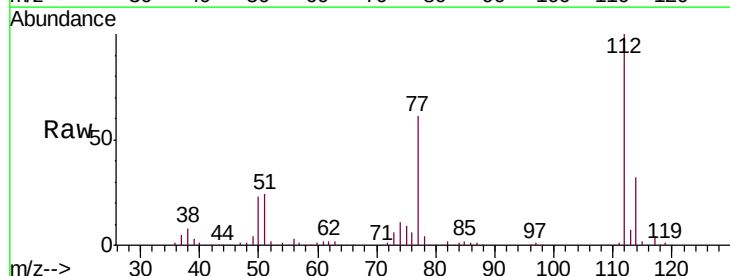
Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

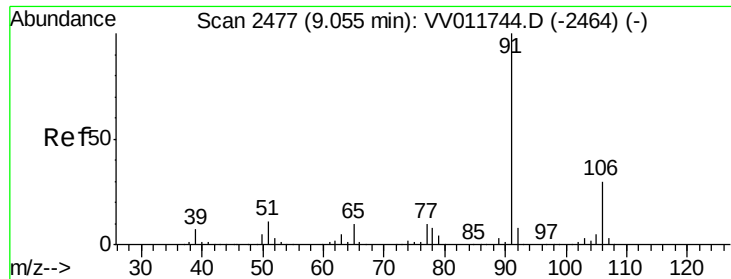
Tgt Ion:107 Resp: 42612
Ion Ratio Lower Upper
107 100
109 97.4 66.7 123.9
188 4.3 2.6 3.8#



#51
Chlorobenzene
Concen: 4.699 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion:112 Resp: 191529
Ion Ratio Lower Upper
112 100
114 32.2 23.0 42.8
77 60.9 50.0 75.0





#52

Ethylbenzene

Concen: 4.672 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

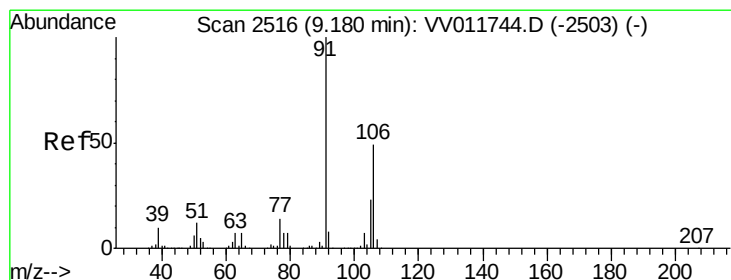
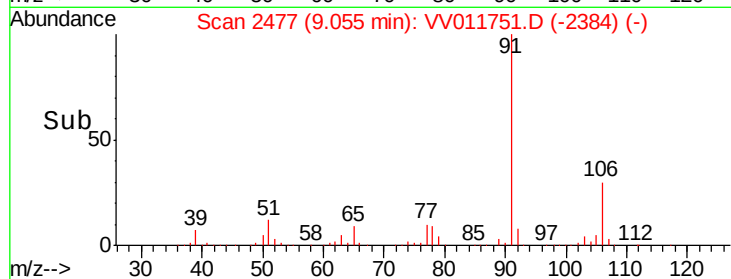
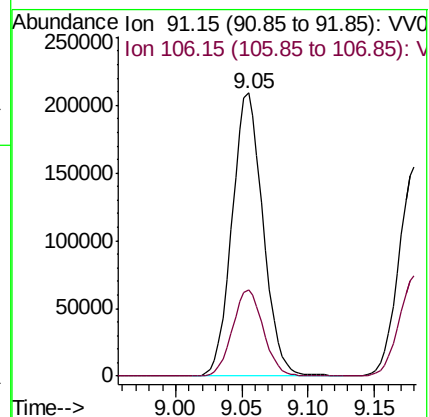
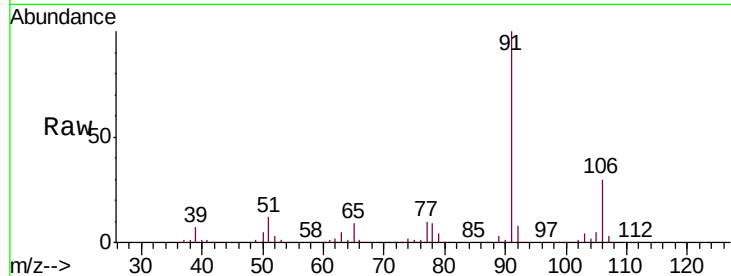
VSTD00550

Tgt Ion: 91 Resp: 338968

Ion Ratio Lower Upper

91 100

106 30.4 20.7 38.5



#53

m,p-xylene

Concen: 4.762 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011751.D

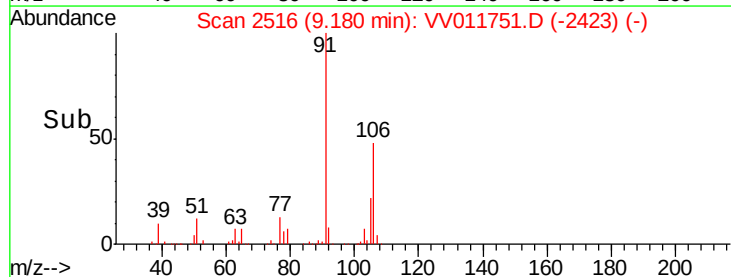
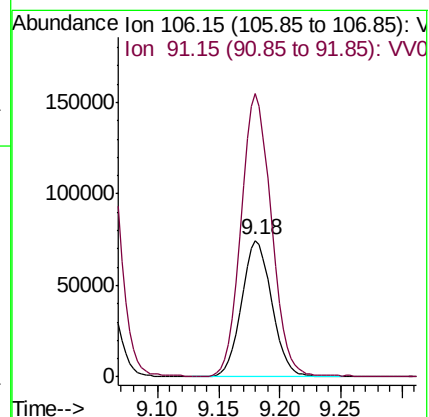
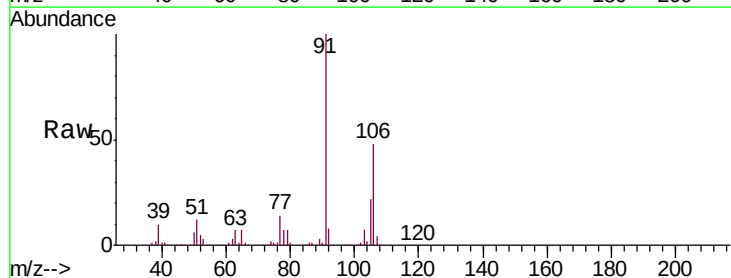
Acq: 25 Jun 2019 15:52

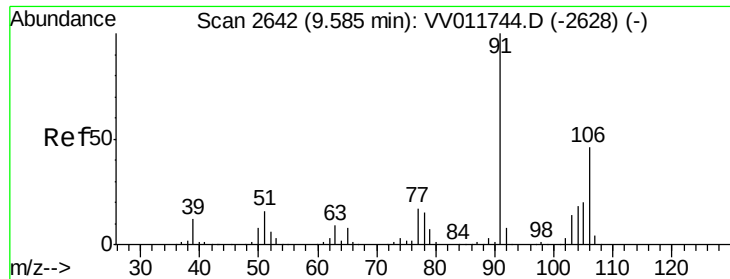
Tgt Ion: 106 Resp: 126869

Ion Ratio Lower Upper

106 100

91 207.8 144.9 269.1

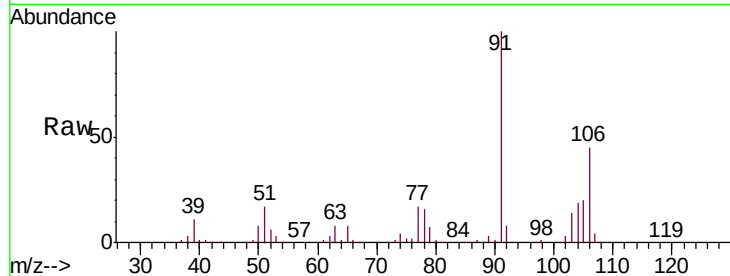




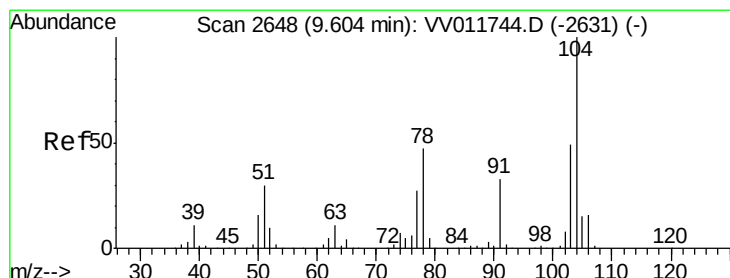
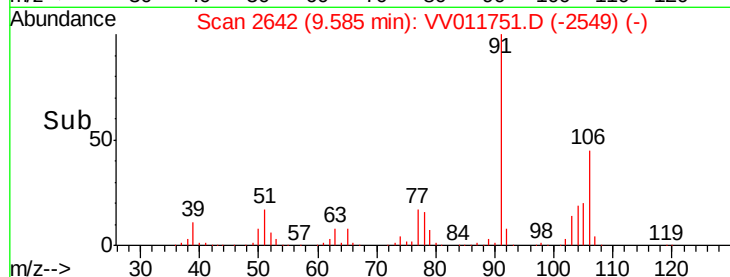
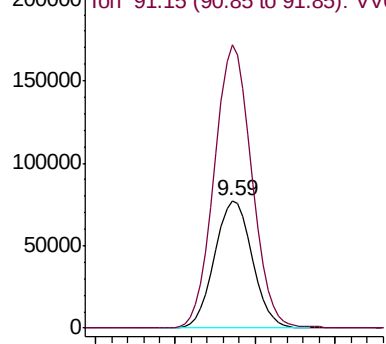
#54
o-xylene
Concen: 4.769 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD00550

Tgt Ion:106 Resp: 124220
Ion Ratio Lower Upper
106 100
91 222.0 155.2 288.2

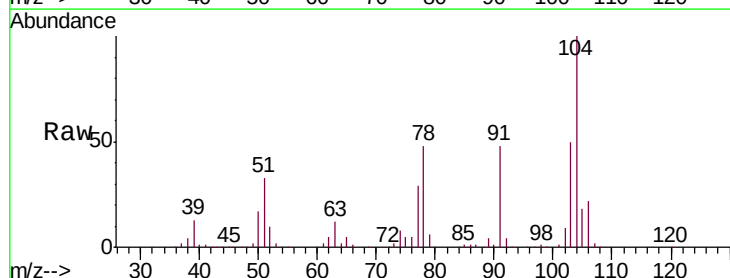


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

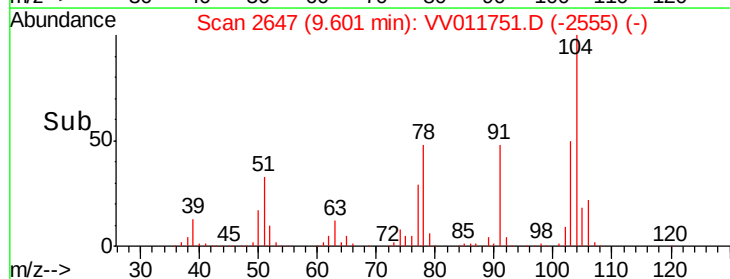
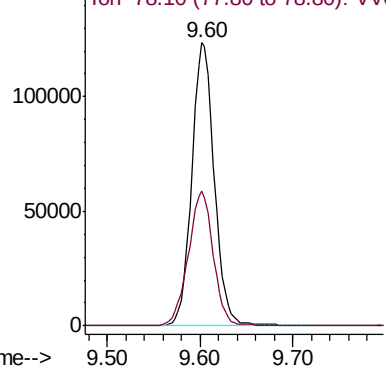


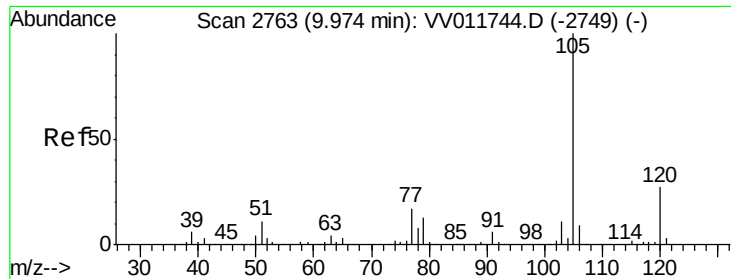
#55
Styrene
Concen: 5.012 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV011751.D
Acq: 25 Jun 2019 15:52

Tgt Ion:104 Resp: 208039
Ion Ratio Lower Upper
104 100
78 47.6 34.1 63.3



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





#56

Isopropylbenzene

Concen: 4.796 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampled :

VSTD00550

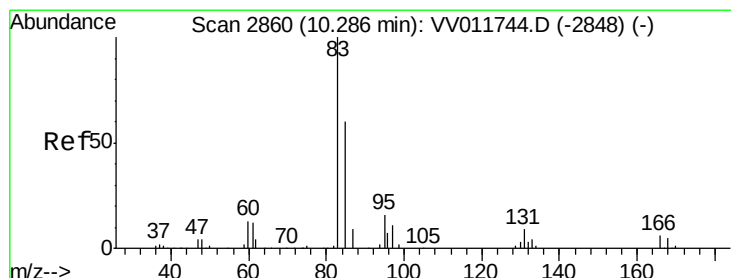
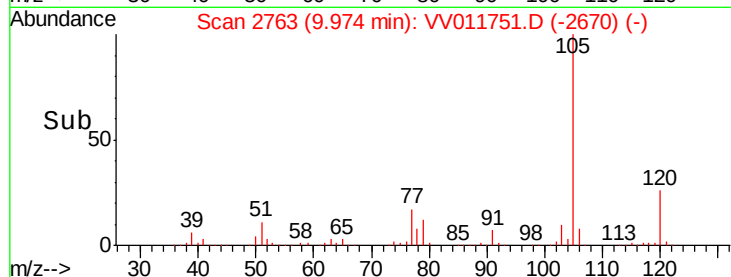
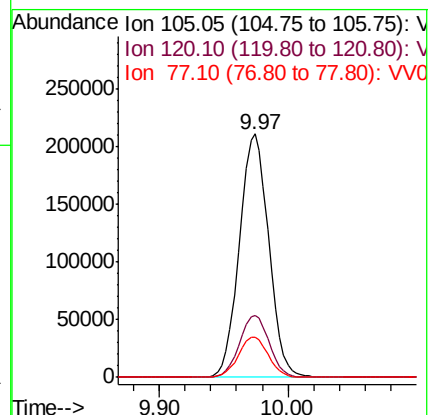
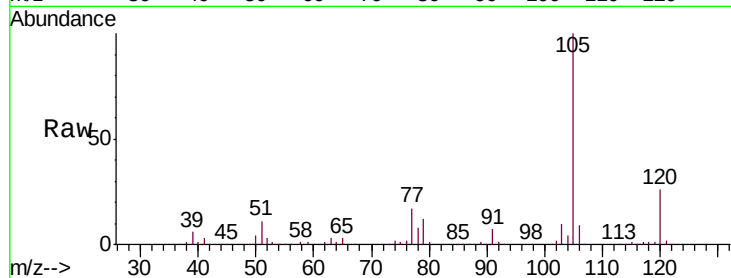
Tgt Ion: 105 Resp: 334717

Ion Ratio Lower Upper

105 100

120 25.7 20.6 30.8

77 16.9 13.8 20.6



#58

1,1,2,2-Tetrachloroethane

Concen: 4.813 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

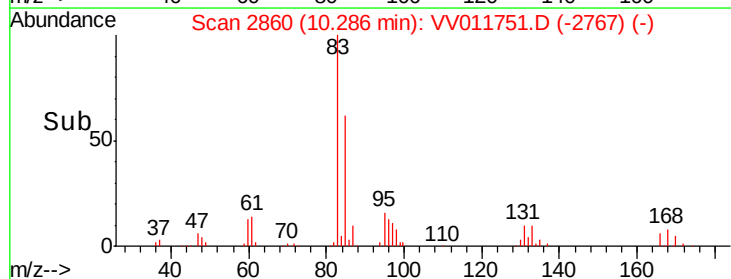
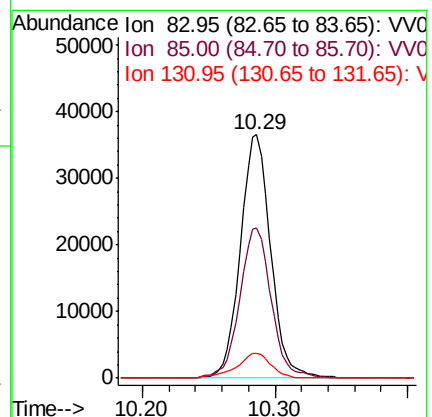
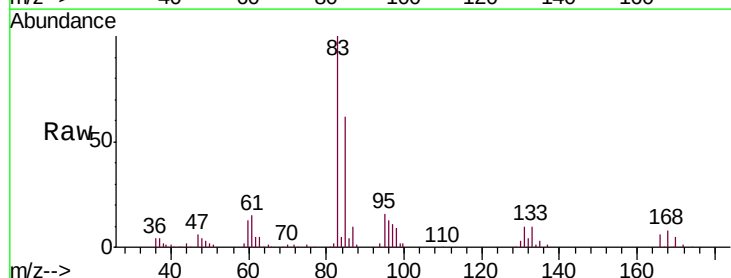
Tgt Ion: 83 Resp: 58013

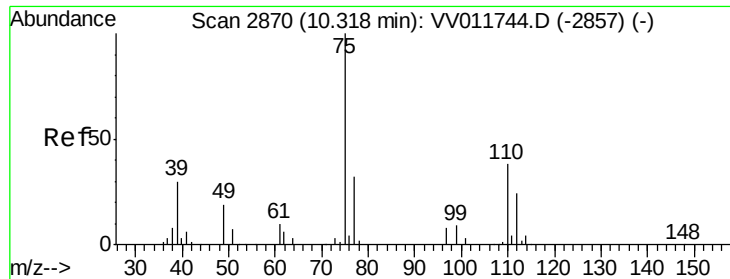
Ion Ratio Lower Upper

83 100

85 61.7 45.9 85.3

131 10.4 7.8 11.6





#59

1,2,3-Trichloropropane

Concen: 4.587 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

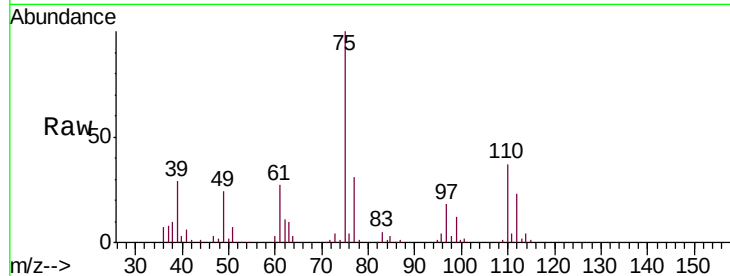
VSTD00550

Tgt Ion: 75 Resp: 42569

Ion Ratio Lower Upper

75 100

77 31.9 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VV011744.D (-2857) (-)

Ion 77.00 (76.70 to 77.70): VV011744.D (-2857) (-)

10.32

30000

25000

20000

15000

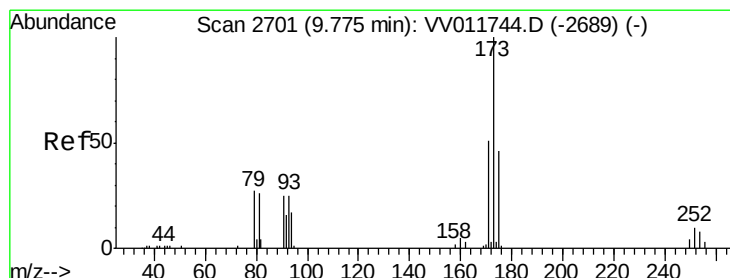
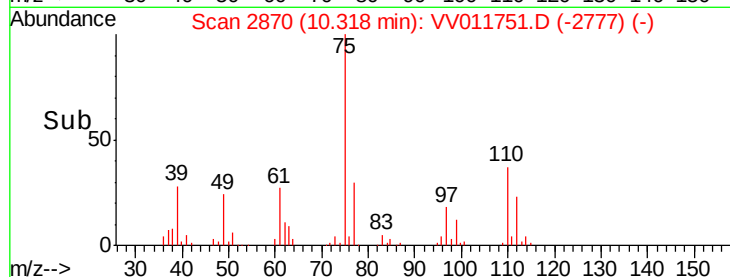
10000

5000

0

Time-->

10.25 10.30 10.35



#61

Bromoform

Concen: 4.492 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

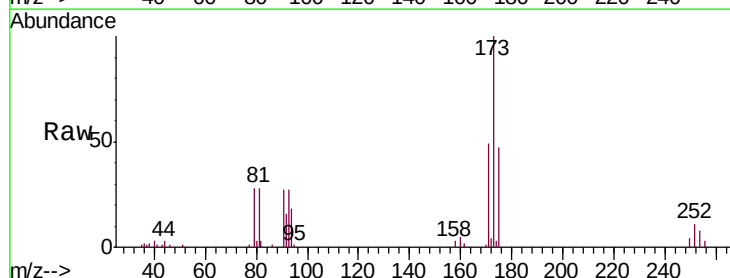
Tgt Ion: 173 Resp: 22927

Ion Ratio Lower Upper

173 100

175 47.7 38.3 57.5

254 8.0 7.4 11.0



Abundance Ion 172.90 (172.60 to 173.60): VV011744.D (-2689) (-)

Ion 174.90 (174.60 to 175.60): VV011744.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV011744.D (-2689) (-)

9.77

15000

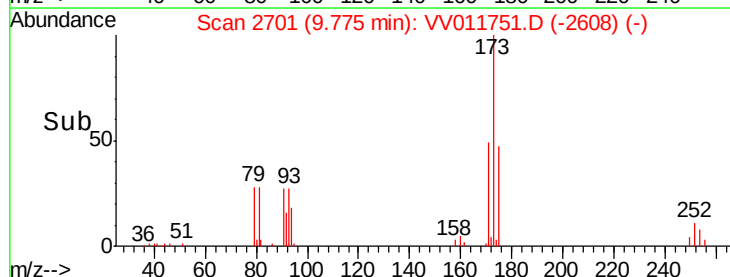
10000

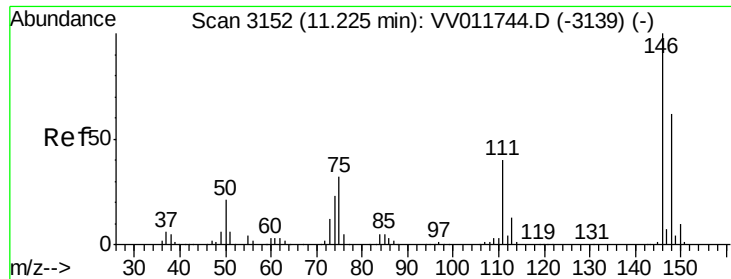
5000

0

Time-->

9.70 9.75 9.80 9.85





#62

1,3-Dichlorobenzene

Concen: 4.547 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00550

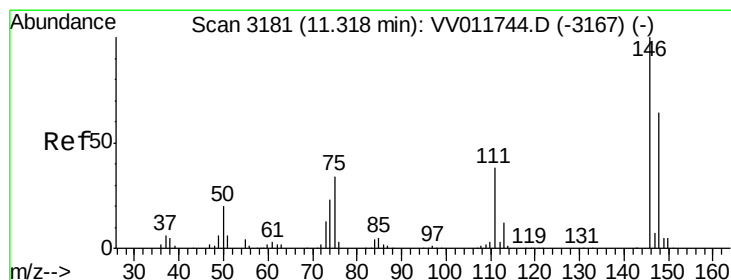
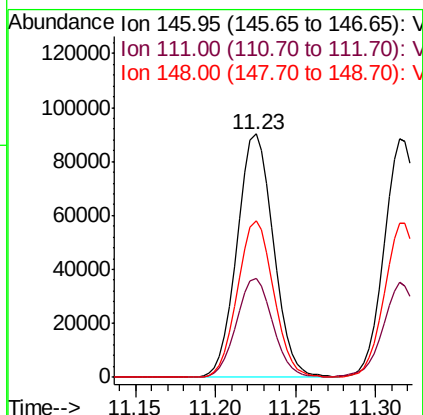
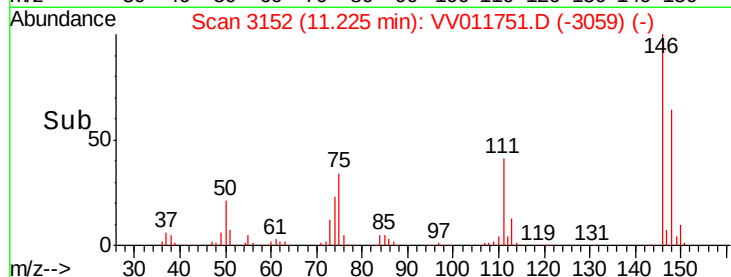
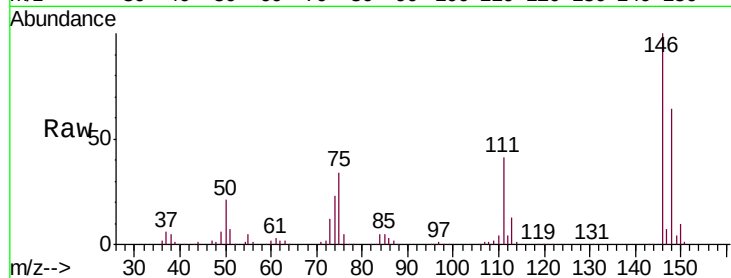
Tgt Ion:146 Resp: 139378

Ion Ratio Lower Upper

146 100

111 40.6 28.4 52.8

148 64.4 42.8 79.6



#63

1,4-Dichlorobenzene

Concen: 4.441 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

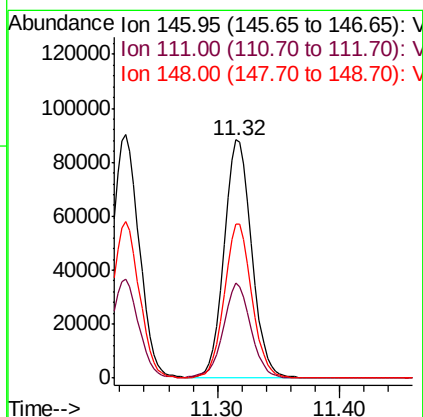
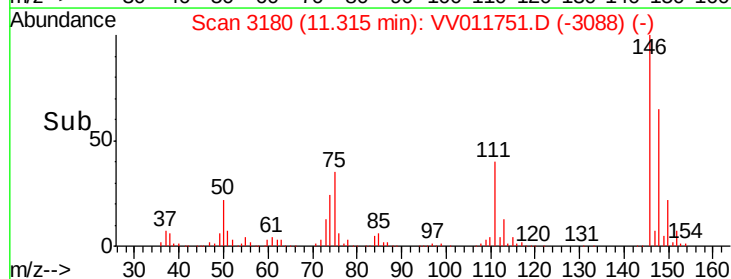
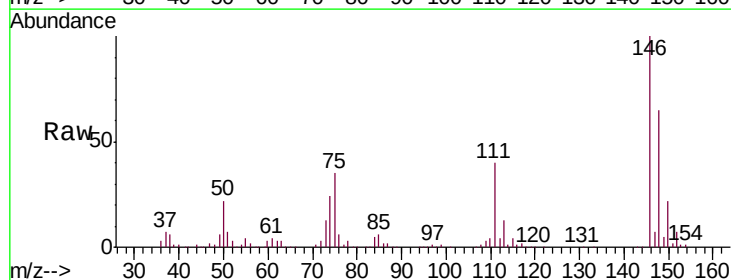
Tgt Ion:146 Resp: 140622

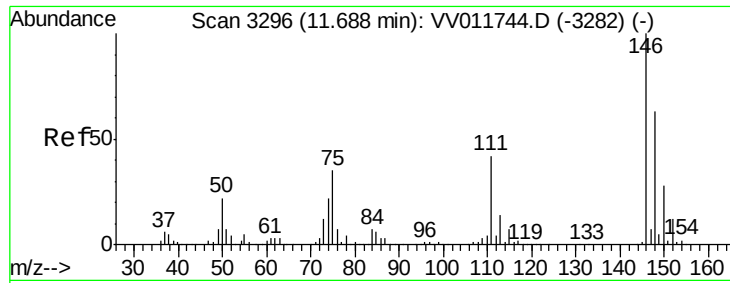
Ion Ratio Lower Upper

146 100

111 39.7 27.7 51.5

148 64.9 45.1 83.9

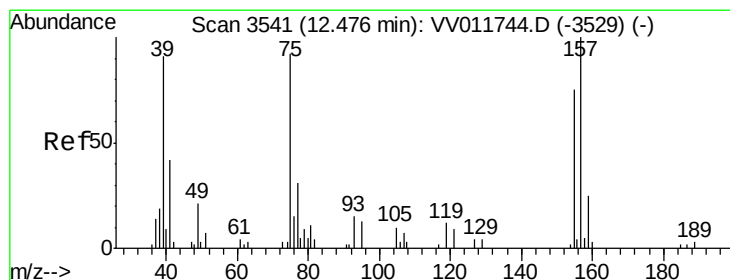
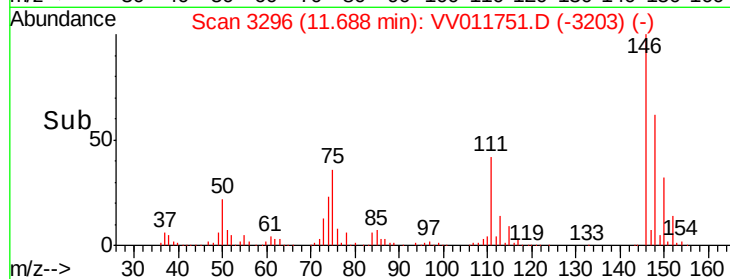
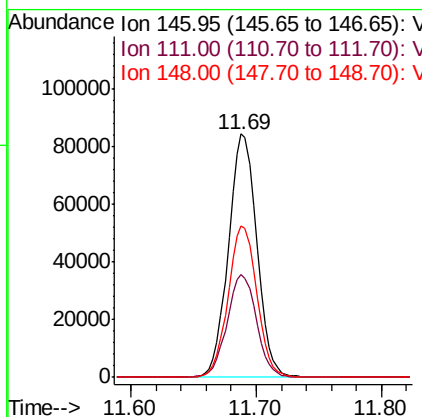
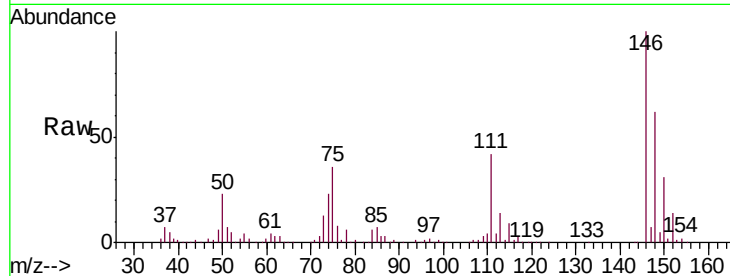




#65
 1,2-Dichlorobenzene
 Concen: 4.535 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

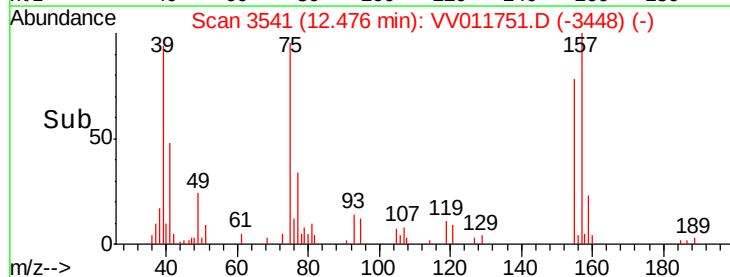
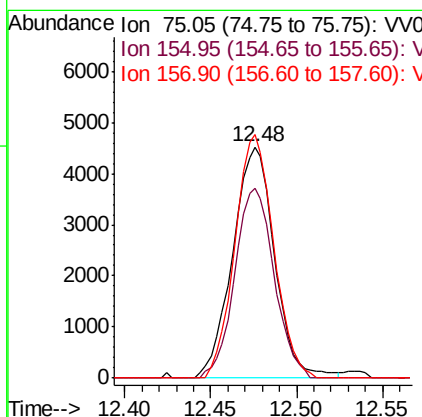
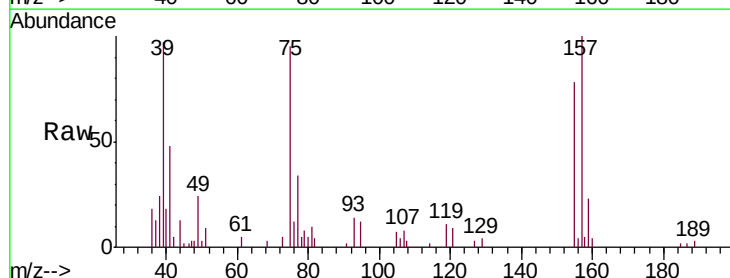
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00550

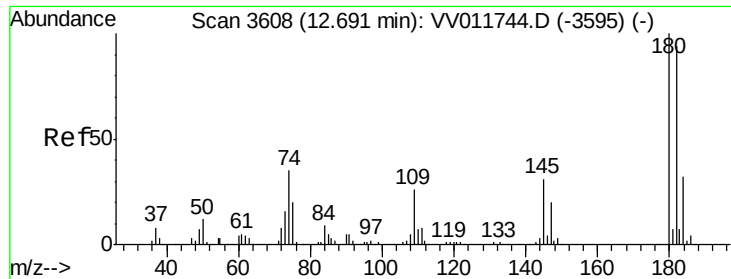
Tgt Ion: 146 Resp: 132418
 Ion Ratio Lower Upper
 146 100
 111 42.1 34.5 51.7
 148 62.1 49.8 74.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.599 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion: 75 Resp: 7691
 Ion Ratio Lower Upper
 75 100
 155 82.0 59.4 89.0
 157 105.3 77.5 116.3

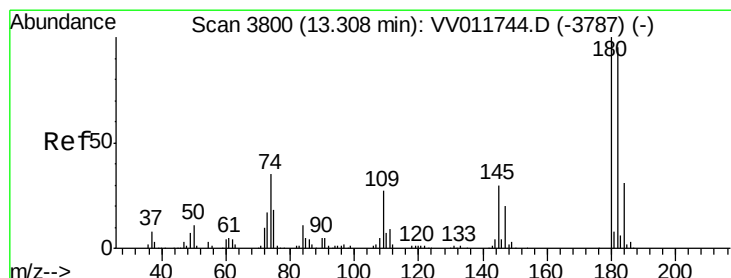
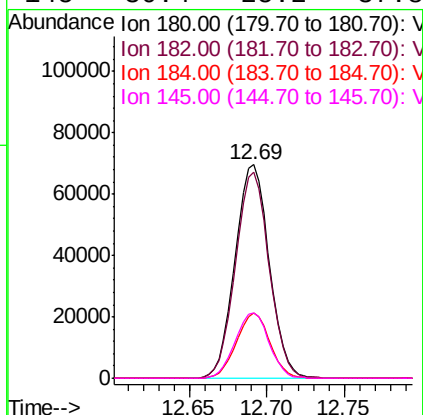
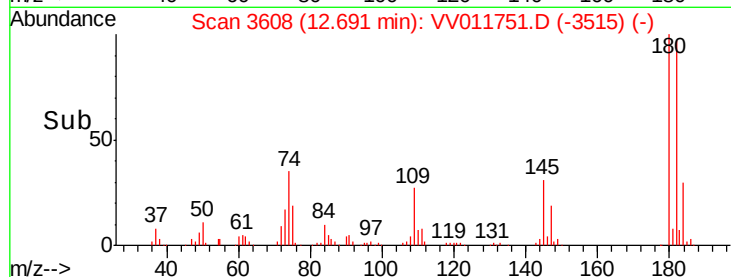
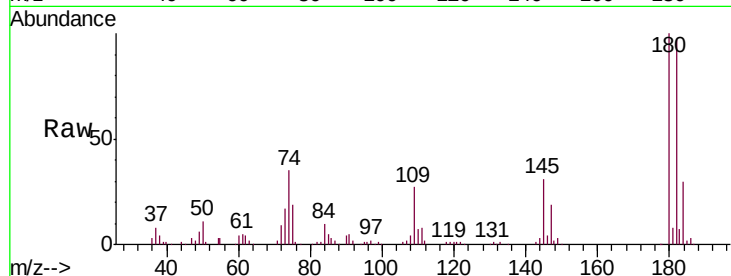




#67
 1,3,5-Trichlorobenzene
 Concen: 4.691 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

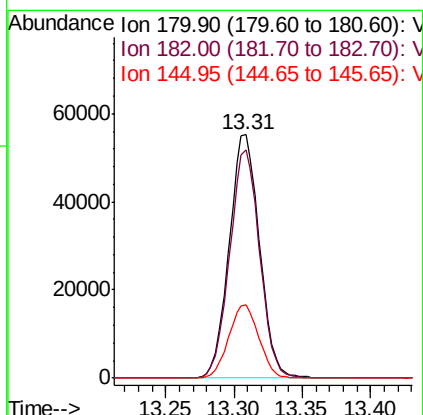
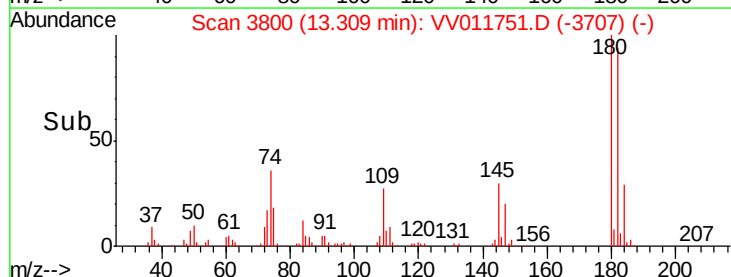
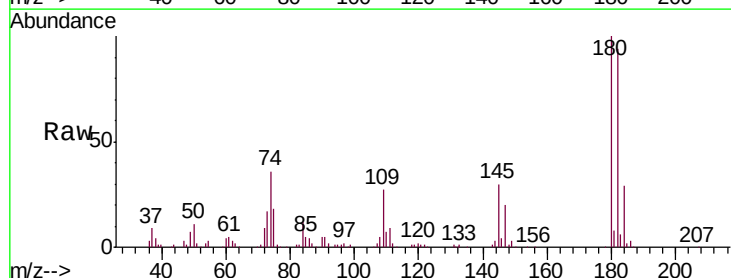
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00550

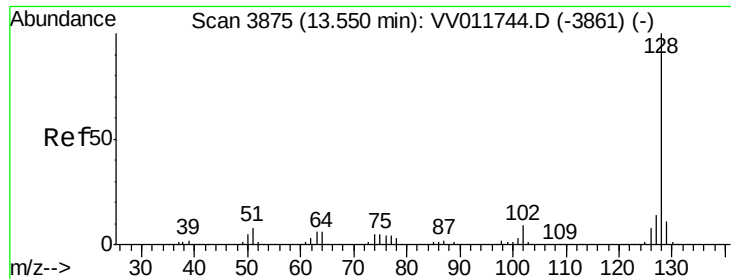
Tgt Ion:180 Resp: 106918
 Ion Ratio Lower Upper
 180 100
 182 95.0 77.3 115.9
 184 29.7 24.9 37.3
 145 30.4 25.2 37.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.819 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011751.D
 Acq: 25 Jun 2019 15:52

Tgt Ion:180 Resp: 85126
 Ion Ratio Lower Upper
 180 100
 182 92.6 76.6 114.8
 145 29.9 25.3 37.9





#69

Naphthalene

Concen: 4.803 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD00550

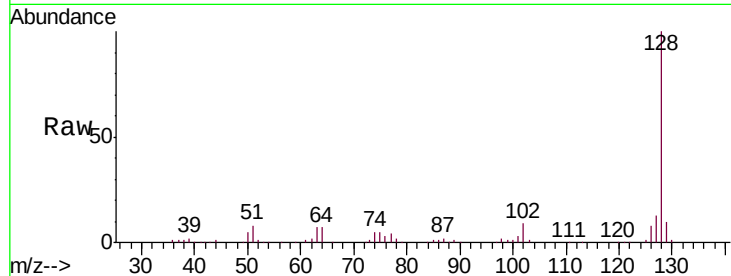
Tgt Ion:128 Resp: 138726

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

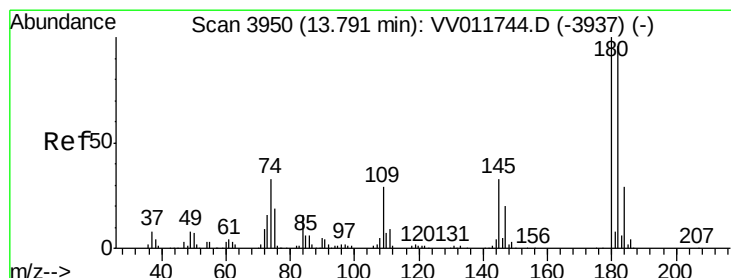
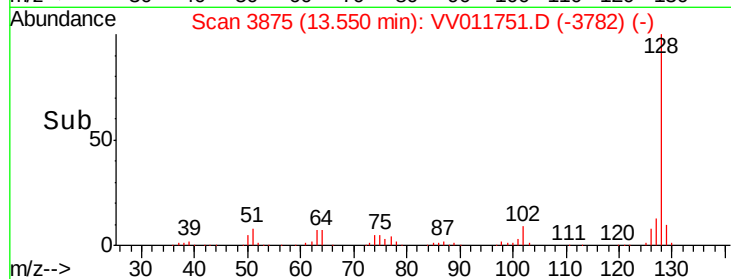
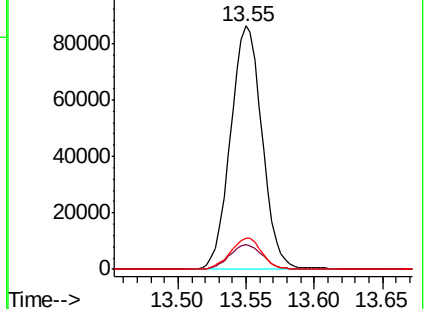
127 12.9 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.747 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV011751.D

Acq: 25 Jun 2019 15:52

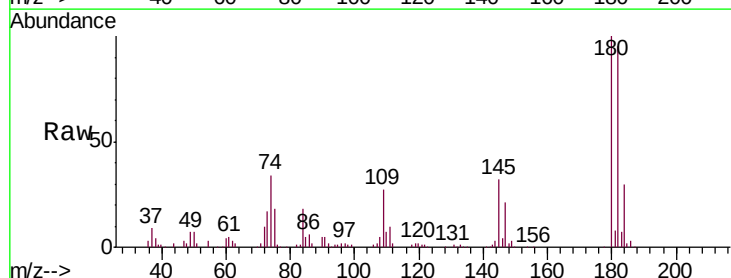
Tgt Ion:180 Resp: 77948

Ion Ratio Lower Upper

180 100

182 95.6 75.0 112.4

145 32.4 26.2 39.2



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

