

Data File : VV012054.D
Acq On : 26 Jul 2019 15:53
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Quant Time: Jul 26 23:24:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jul 26 23:19:45 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	137297	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	130335	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	71274	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	28376	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.59	69	26263	4.68	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.60%
11) 1,1-Dichloroethene-d2	2.13	63	68195	4.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.00%
20) 2-Butanone-d5	3.96	46	119035	57.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.14%
24) Chloroform-d	4.40	84	90591	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	5.08	65	51207	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
32) Benzene-d6	5.10	84	179540	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
36) 1,2-Dichloropropane-d6	6.12	67	53387	5.13	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.60%
41) Toluene-d8	7.36	98	167736	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.40%
43) trans-1,3-Dichloropropene-	7.66	79	21528	5.10	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.00%
46) 2-Hexanone-d5	8.14	63	97208	57.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.68%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	41760	5.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	68908	5.02	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	73186	5.157 ug/L	99
3) Chloromethane	1.25	50	44195	5.367 ug/L	96
5) Vinyl chloride	1.33	62	45200	5.361 ug/L	94
6) Bromomethane	1.54	94	27820	5.610 ug/L	92
8) Chloroethane	1.60	64	25087	5.029 ug/L	99
9) Trichlorofluoromethane	1.77	101	86415	5.560 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	38165	5.463 ug/L	100
12) 1,1-Dichloroethene	2.14	96	34338	5.495 ug/L	90
13) Acetone	2.23	43	56936	50.638 ug/L	99
14) Carbon disulfide	2.32	76	91212	5.121 ug/L	99
15) Methyl Acetate	2.47	43	12500	5.092 ug/L	90
16) Methylene chloride	2.54	84	35429	5.056 ug/L	92
17) Methyl tert-butyl Ether	2.81	73	110959	5.204 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	50754	5.216 ug/L	100
19) 1,1-Dichloroethane	3.23	63	93671	5.450 ug/L	97
21) 2-Butanone	4.05	43	111352	51.625 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	53521	5.118 ug/L	99

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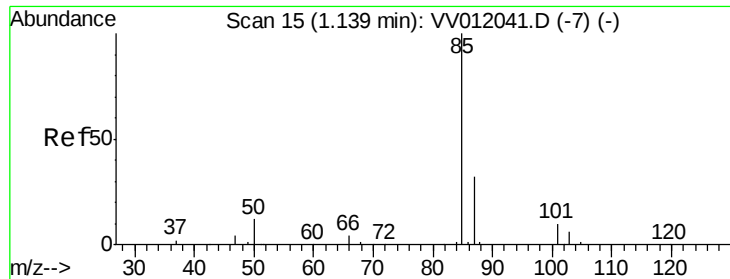
Quant Time: Jul 26 23:24:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	23277	5.414	ug/L	93
25) Chloroform	4.42	83	111585	5.376	ug/L	99
27) 1,2-Dichloroethane	5.18	62	63142	5.471	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	92303	5.533	ug/L	99
30) Cyclohexane	4.72	56	77060	4.890	ug/L	99
31) Carbon tetrachloride	4.87	117	82577	5.499	ug/L	100
33) Benzene	5.14	78	205066	5.349	ug/L	100
34) Trichloroethene	5.96	95	57376	5.389	ug/L	99
35) Methylcyclohexane	6.17	83	87631	5.288	ug/L	97
37) 1,2-Dichloropropane	6.22	63	48788	5.293	ug/L	98
38) Bromodichloromethane	6.55	83	66933	5.435	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	73487	5.379	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	276780	53.745	ug/L	100
42) Toluene	7.43	91	228566	5.554	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	57719	5.312	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	34913	5.485	ug/L	97
47) Tetrachloroethene	8.02	164	49073	5.341	ug/L	95
48) 2-Hexanone	8.19	43	195844	54.211	ug/L	98
49) Dibromochloromethane	8.29	129	43885	5.630	ug/L	96
50) 1,2-Dibromoethane	8.40	107	33299	5.540	ug/L	100
51) Chlorobenzene	8.92	112	147169	5.462	ug/L	100
52) Ethylbenzene	9.05	91	250573	5.335	ug/L	100
53) m,p-xylene	9.18	106	100016	5.594	ug/L	97
54) o-xylene	9.59	106	94583	5.579	ug/L	98
55) Styrene	9.60	104	160356	5.613	ug/L	97
56) Isopropylbenzene	9.97	105	259870	5.489	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	37745	5.471	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	29211	5.434	ug/L	100
61) Bromoform	9.77	173	24049	5.497	ug/L	97
62) 1,3-Dichlorobenzene	11.22	146	120153	5.154	ug/L	98
63) 1,4-Dichlorobenzene	11.31	146	123628	5.151	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	112316	5.233	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	6119	4.907	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	100546	5.157	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	79939	5.049	ug/L	98
69) Naphthalene	13.55	128	108142	4.529	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	71386	4.969	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 5.157 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

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Instrument :

MSVOA_V

ClientSampleId :

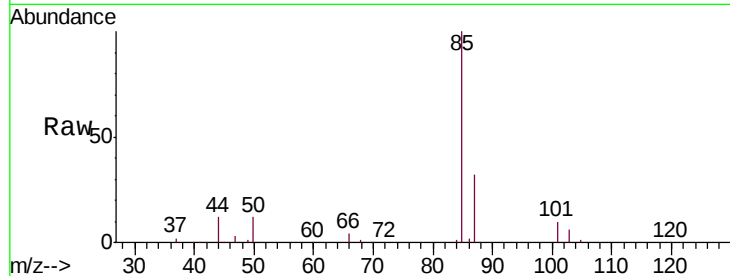
VSTD00552

Tgt Ion: 85 Resp: 73186

Ion Ratio Lower Upper

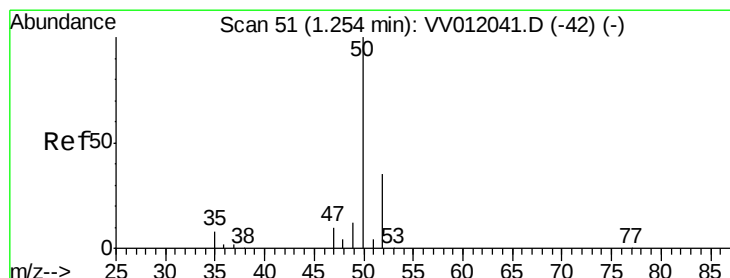
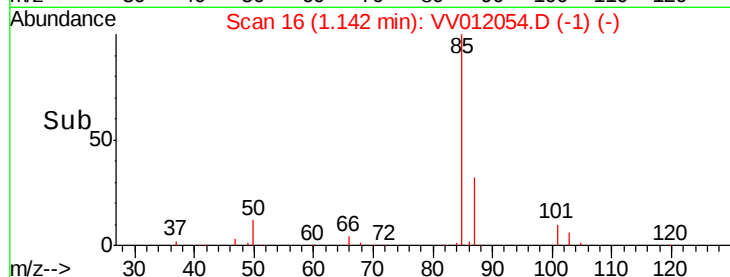
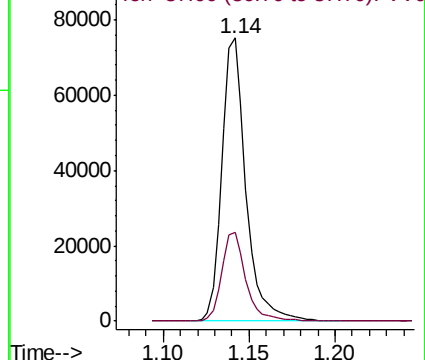
85 100

87 31.6 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.367 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012054.D

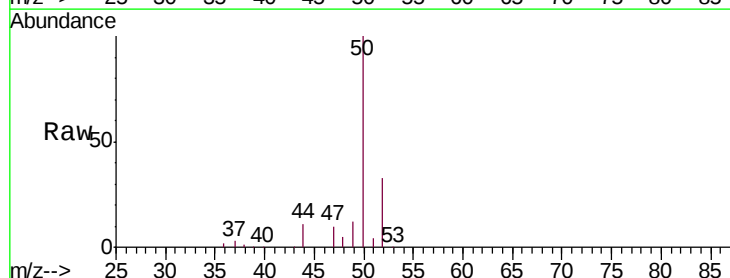
Acq: 26 Jul 2019 15:53

Tgt Ion: 50 Resp: 44195

Ion Ratio Lower Upper

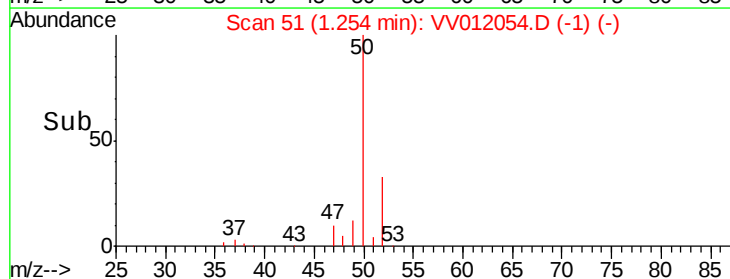
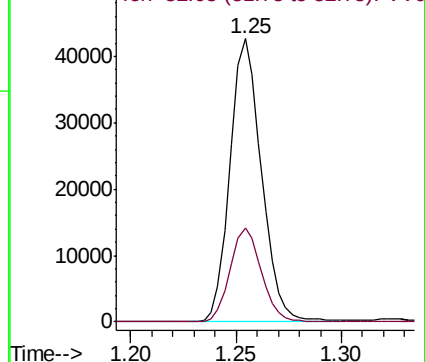
50 100

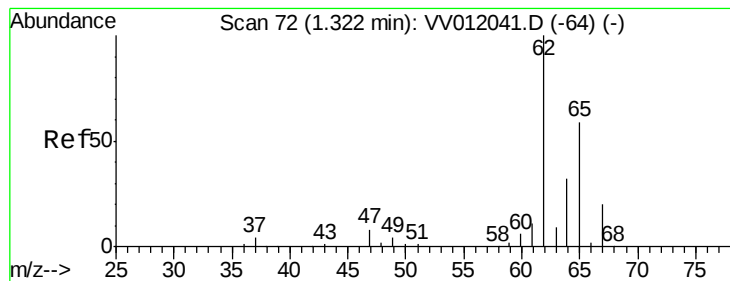
52 33.2 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 5.361 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

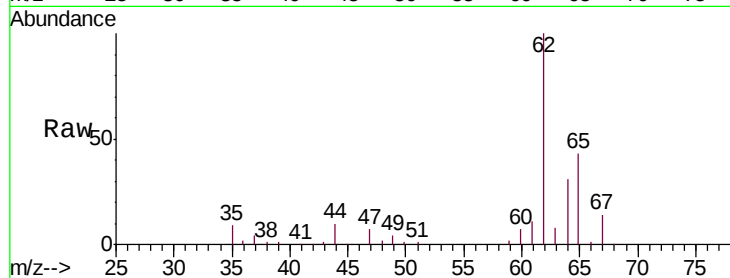
VSTD00552

Tgt Ion: 62 Resp: 45200

Ion Ratio Lower Upper

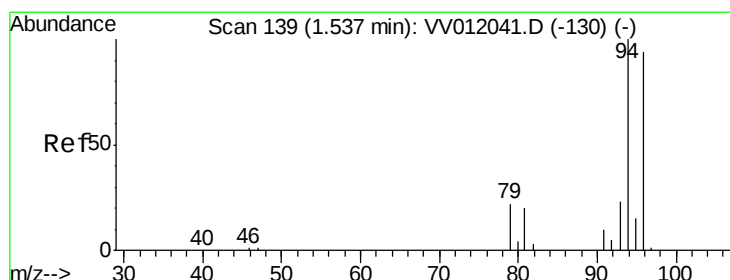
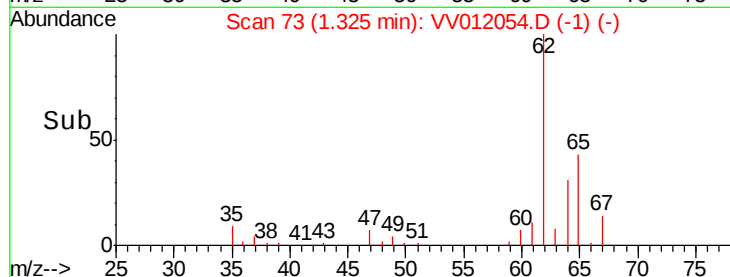
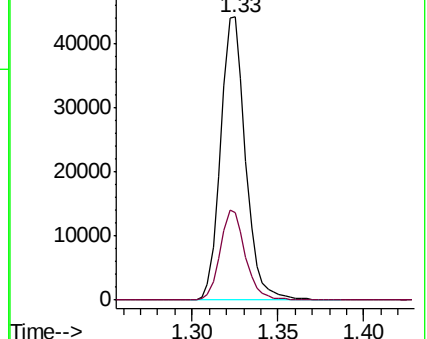
62 100

64 31.1 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 5.610 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012054.D

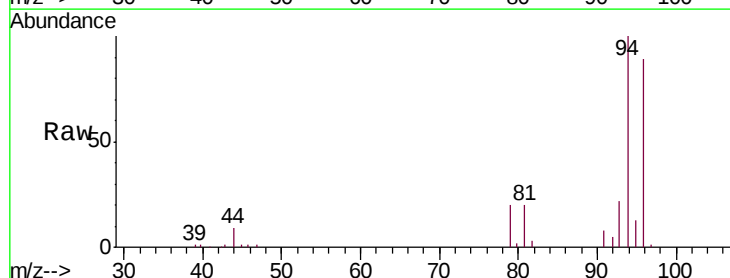
Acq: 26 Jul 2019 15:53

Tgt Ion: 94 Resp: 27820

Ion Ratio Lower Upper

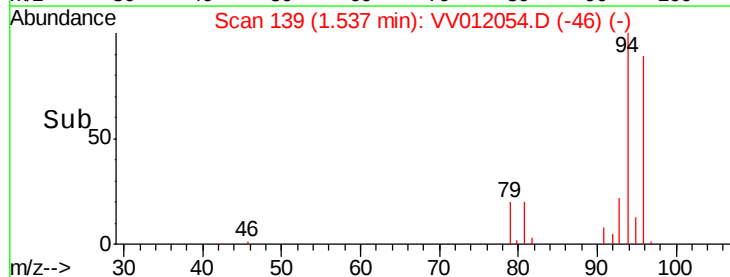
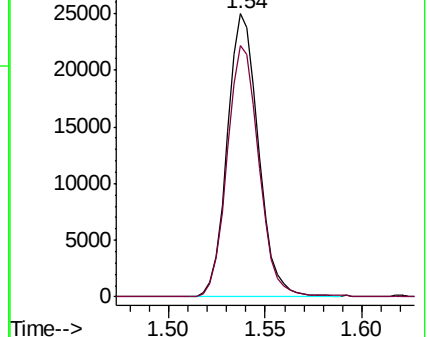
94 100

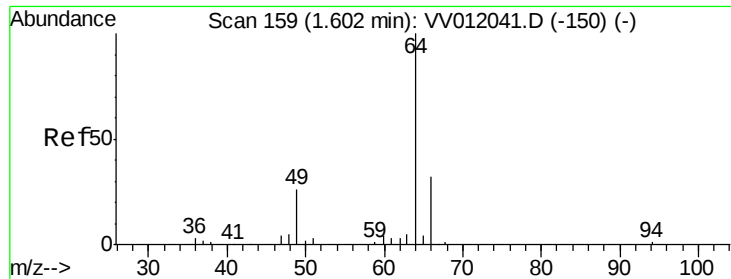
96 88.8 67.3 125.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.029 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

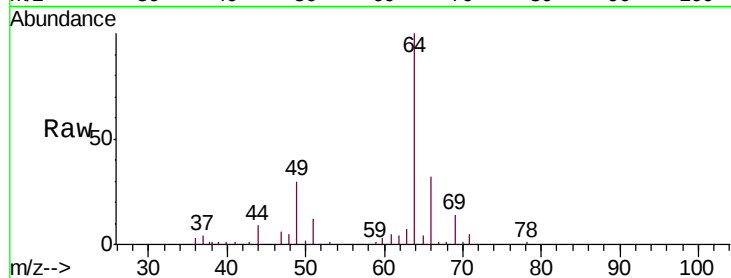
VSTD00552

Tgt Ion: 64 Resp: 25087

Ion Ratio Lower Upper

64 100

66 32.0 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV012041.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV012041.D (-150) (-)

1.60

25000

20000

15000

10000

5000

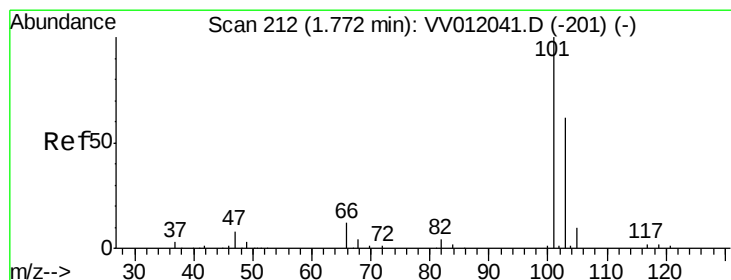
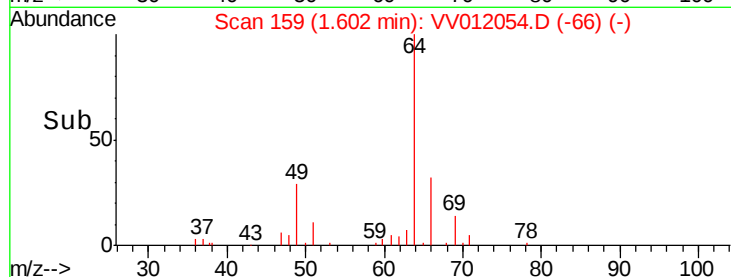
0

Time-->

1.55

1.60

1.65



#9

Trichlorofluoromethane

Concen: 5.560 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV012054.D

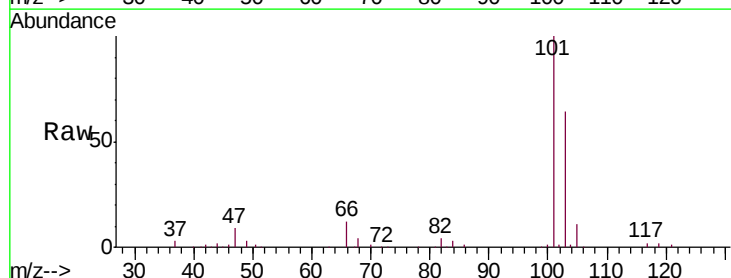
Acq: 26 Jul 2019 15:53

Tgt Ion: 101 Resp: 86415

Ion Ratio Lower Upper

101 100

103 64.6 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VV012041.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012041.D (-201) (-)

1.77

80000

60000

40000

20000

0

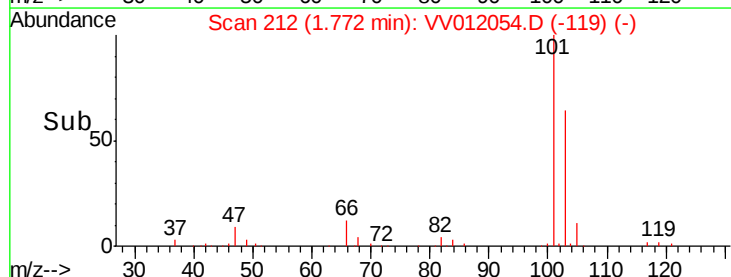
Time-->

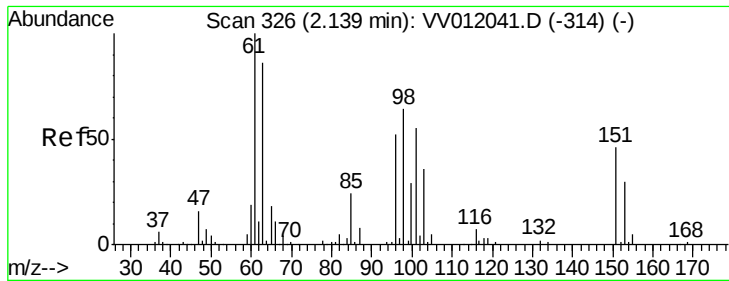
1.70

1.75

1.80

1.85





#10

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

Concen: 5.463 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

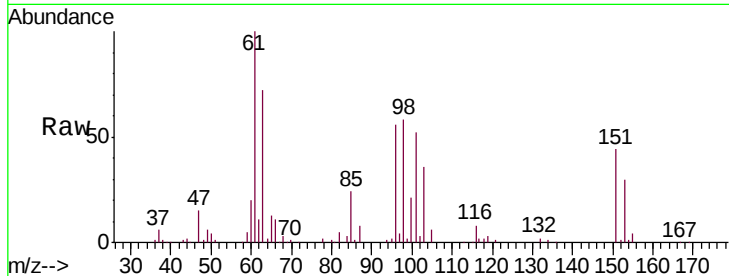
Tgt Ion:101 Resp: 38165

Ion Ratio Lower Upper

101 100

85 46.3 37.0 55.6

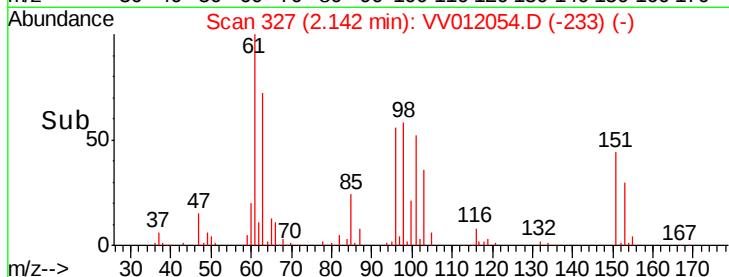
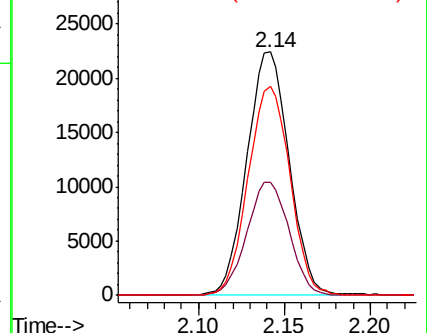
151 85.1 68.3 102.5



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: 5.495 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

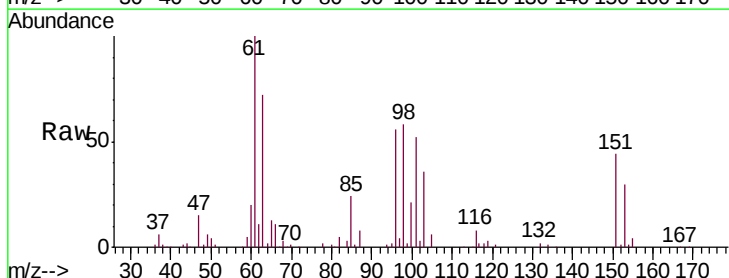
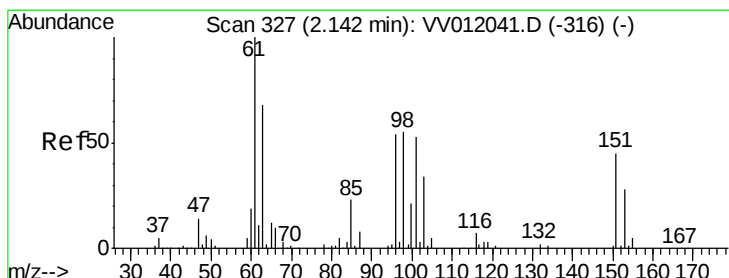
Tgt Ion: 96 Resp: 34338

Ion Ratio Lower Upper

96 100

61 180.1 132.7 246.5

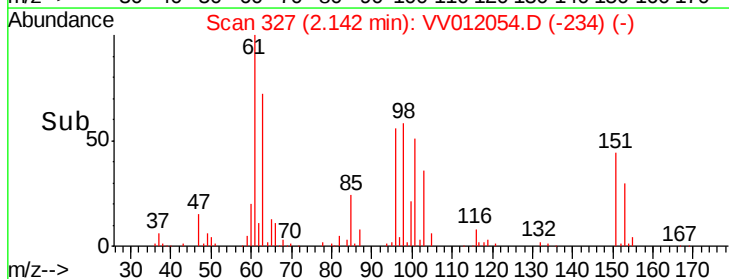
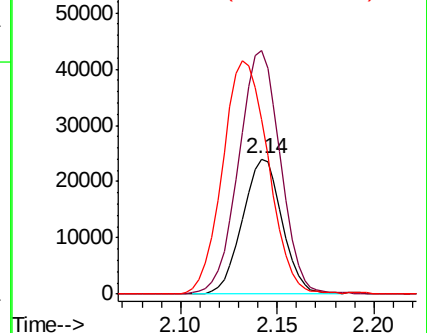
63 129.4 104.0 193.1

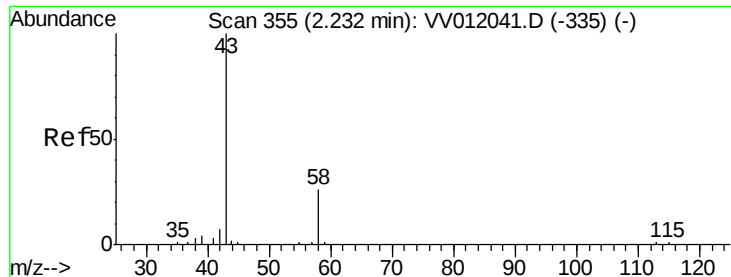


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 50.638 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.01 min

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Instrument :

MSVOA_V

ClientSampleId :

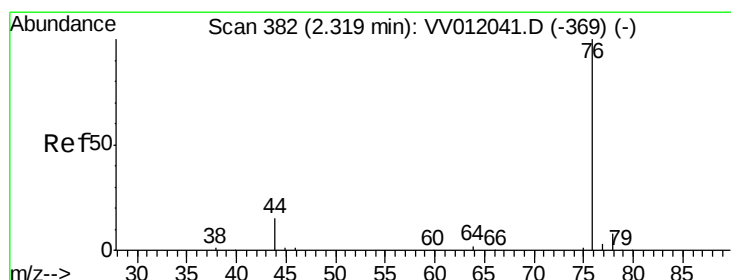
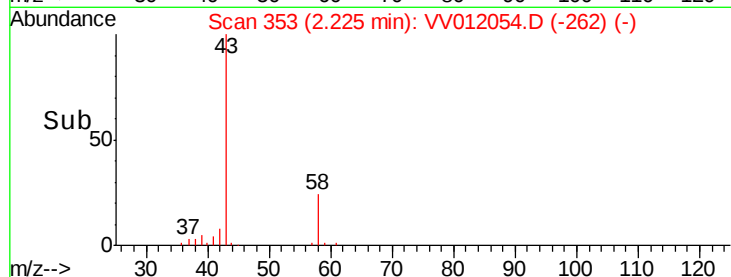
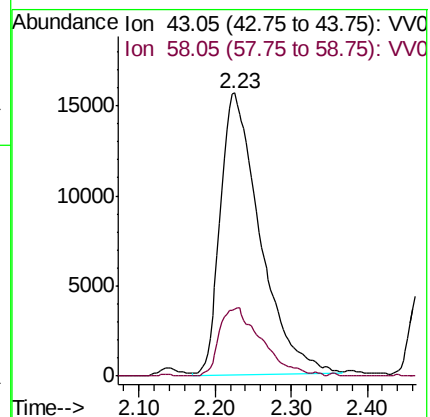
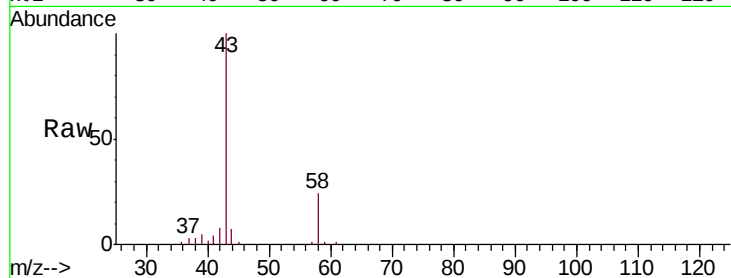
VSTD00552

Tgt Ion: 43 Resp: 56936

Ion Ratio Lower Upper

43 100

58 25.6 0.0 51.8



#14

Carbon disulfide

Concen: 5.121 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012054.D

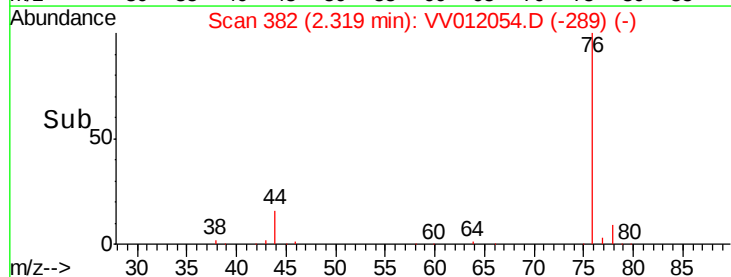
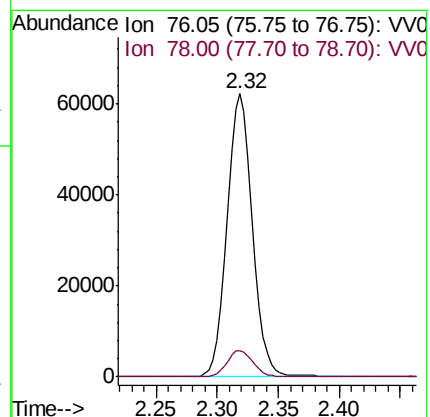
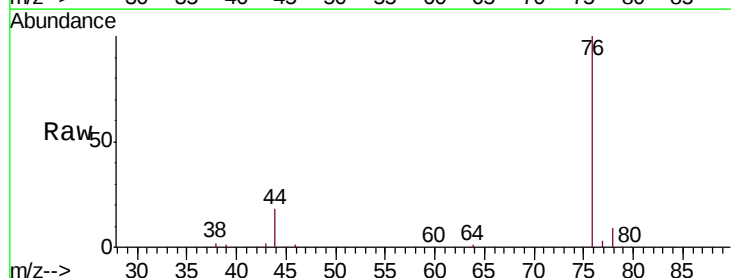
Acq: 26 Jul 2019 15:53

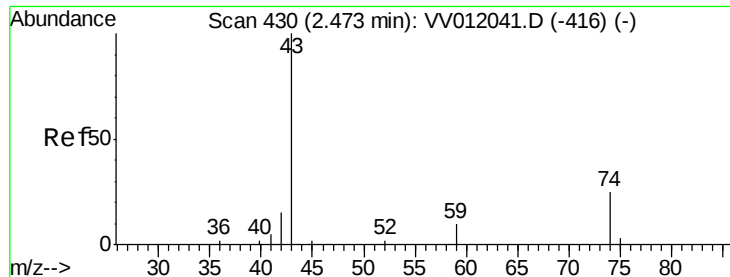
Tgt Ion: 76 Resp: 91212

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

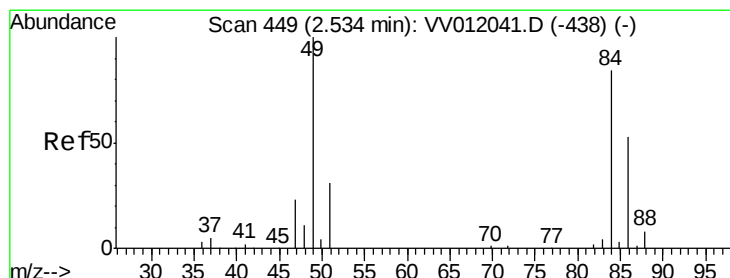
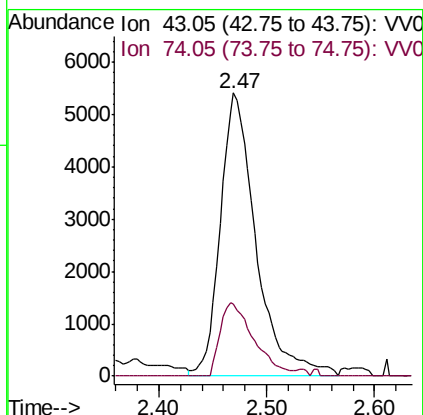
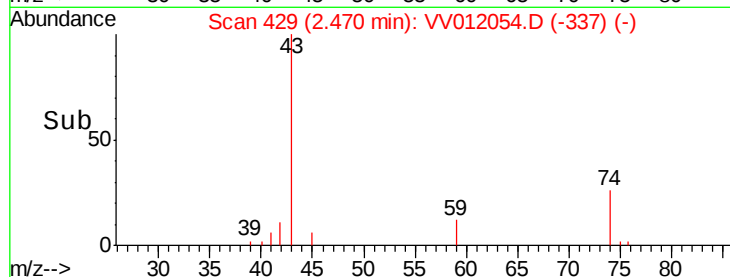
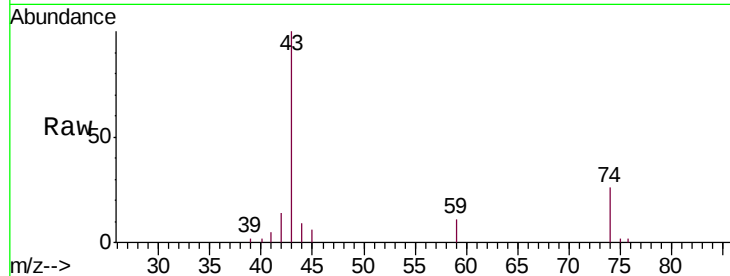




#15
Methyl Acetate
Concen: 5.092 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

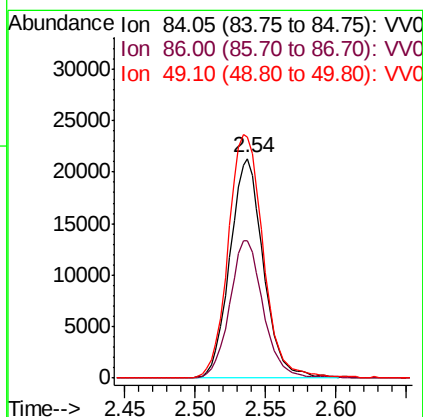
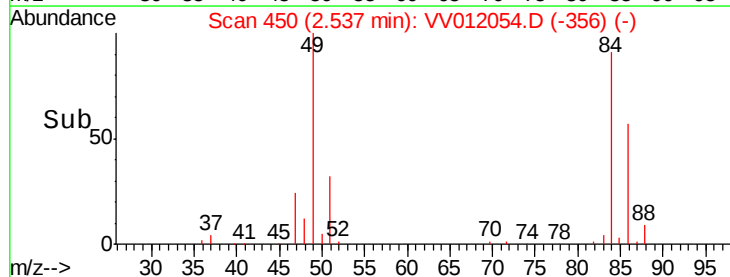
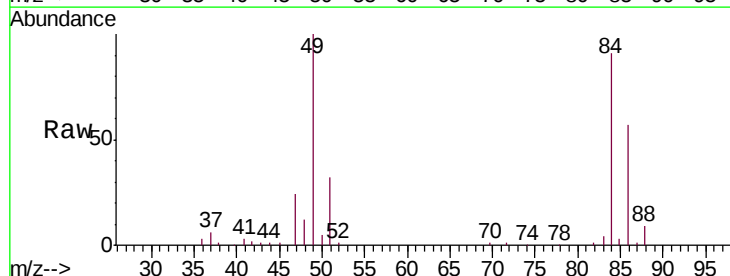
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

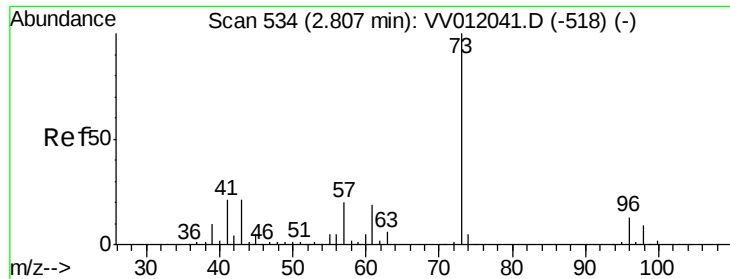
Tgt Ion: 43 Resp: 12500
Ion Ratio Lower Upper
43 100
74 24.2 23.4 35.2



#16
Methylene chloride
Concen: 5.056 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion: 84 Resp: 35429
Ion Ratio Lower Upper
84 100
86 62.6 47.6 88.4
49 110.1 84.3 156.5

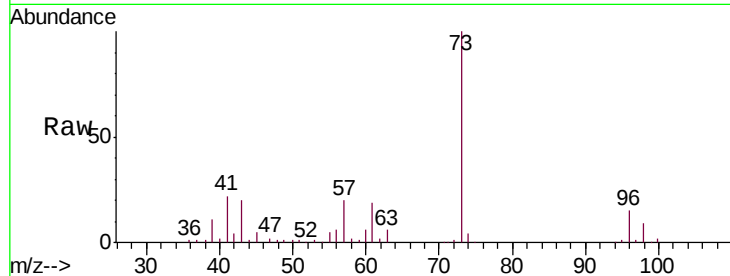




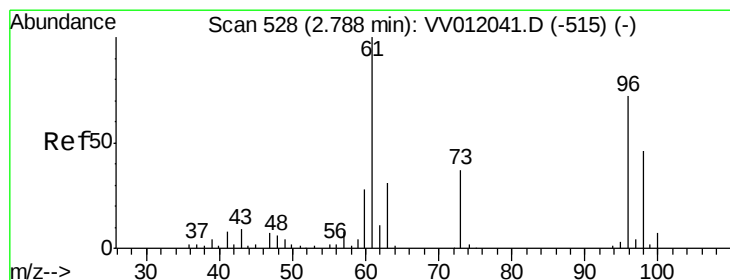
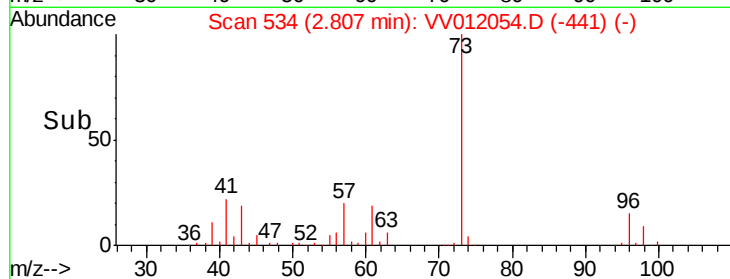
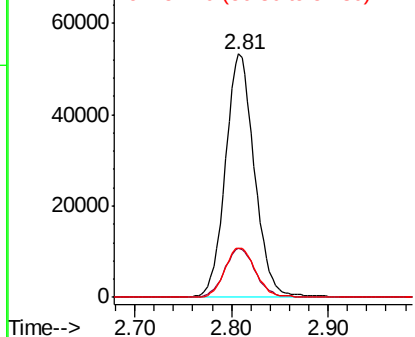
#17
Methyl tert-butyl Ether
Concen: 5.204 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tgt Ion: 73 Resp: 110959
Ion Ratio Lower Upper
73 100
43 21.7 17.0 25.4
57 21.4 17.0 25.6

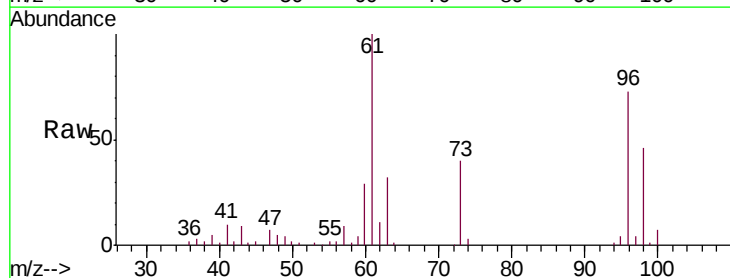


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

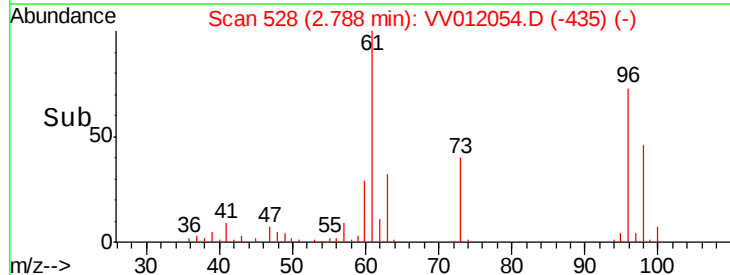
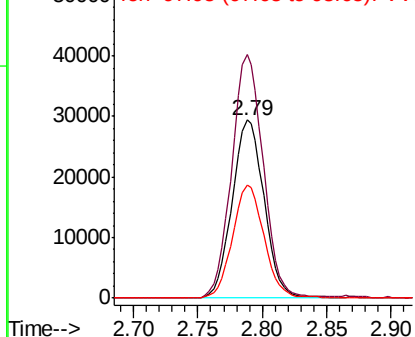


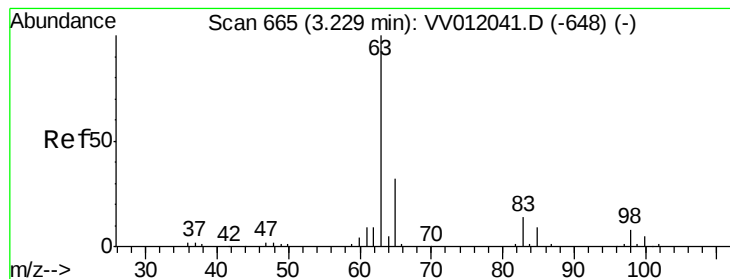
#18
trans-1,2-Dichloroethene
Concen: 5.216 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion: 96 Resp: 50754
Ion Ratio Lower Upper
96 100
61 136.6 95.4 177.2
98 63.4 44.4 82.5



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: 5.450 ug/L

RT: 3.23 min Scan# 665

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

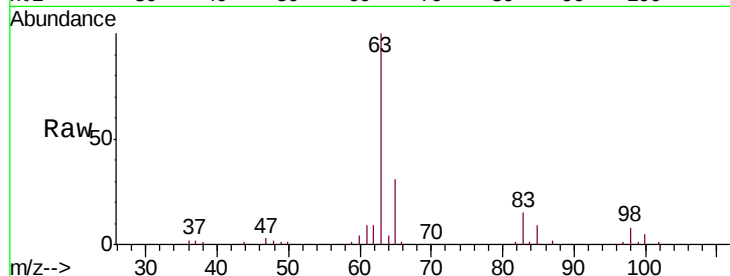
Tgt Ion: 63 Resp: 93671

Ion Ratio Lower Upper

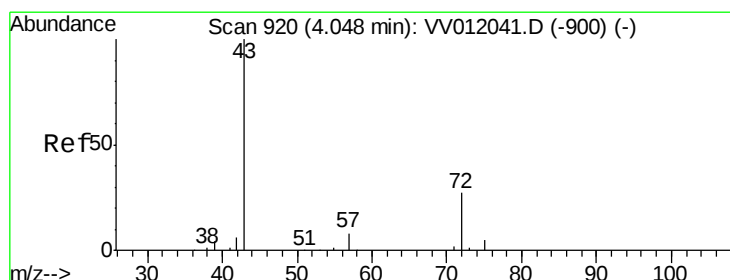
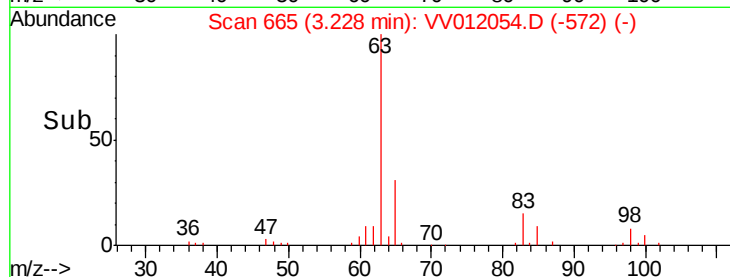
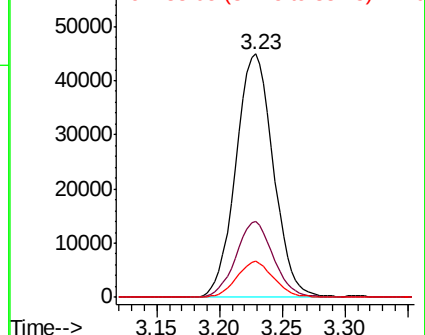
63 100

65 31.5 23.5 43.7

83 14.9 9.7 18.1



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



#21

2-Butanone

Concen: 51.625 ug/L

RT: 4.05 min Scan# 919

Delta R.T. -0.00 min

Lab File: VV012054.D

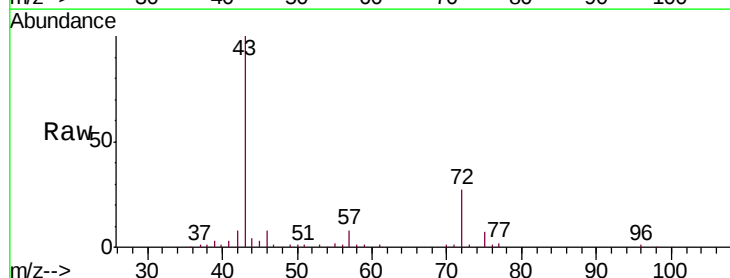
Acq: 26 Jul 2019 15:53

Tgt Ion: 43 Resp: 111352

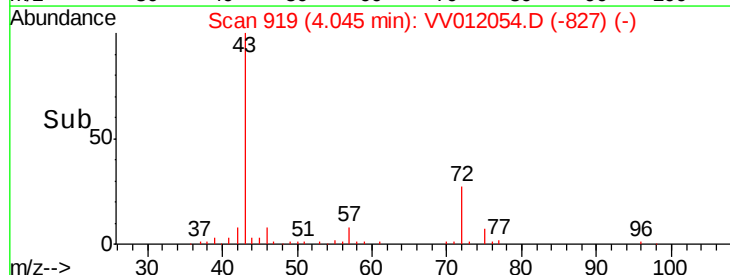
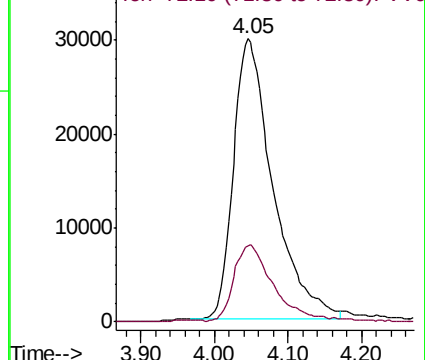
Ion Ratio Lower Upper

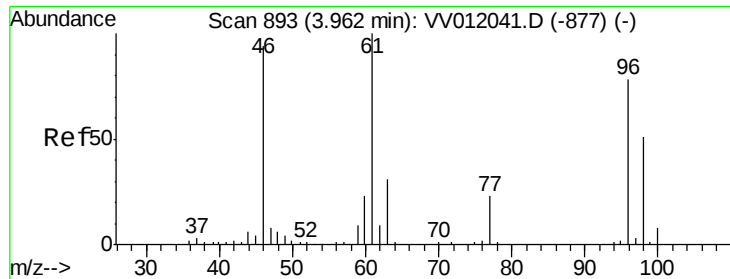
43 100

72 26.6 13.6 40.8



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



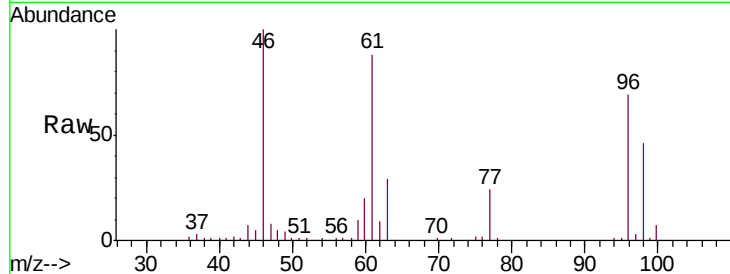


#22

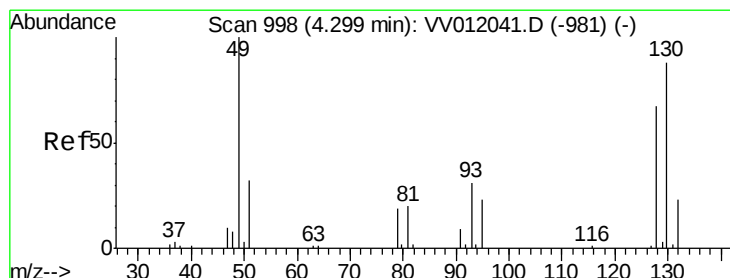
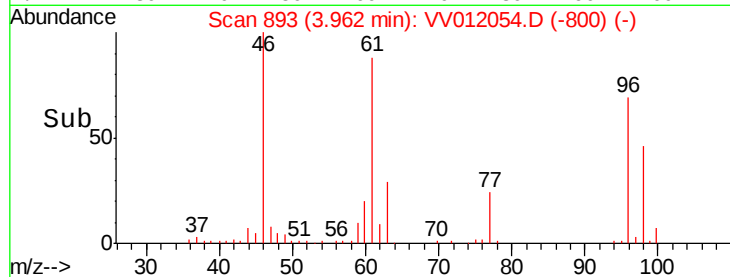
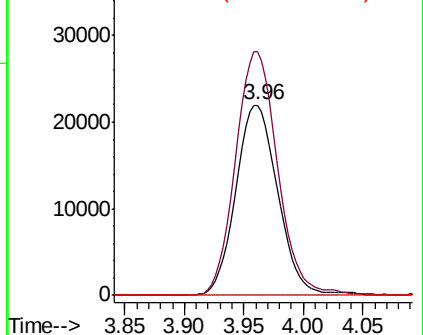
cis-1,2-Dichloroethene
Concen: 5.118 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tgt Ion: 96 Resp: 53521
Ion Ratio Lower Upper
96 100
61 128.1 89.0 165.2
68 0.0 0.0 0.0



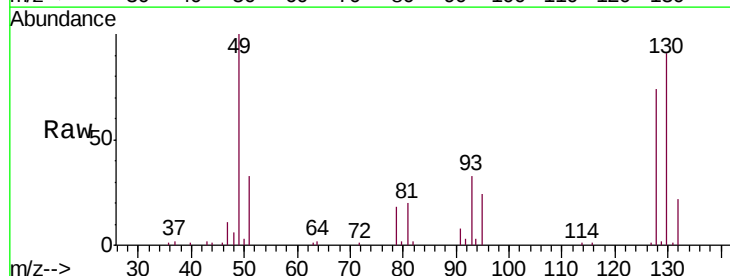
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



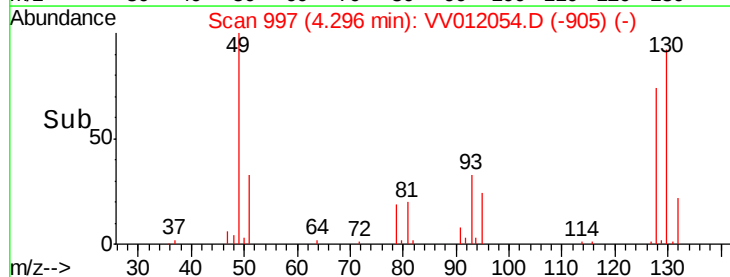
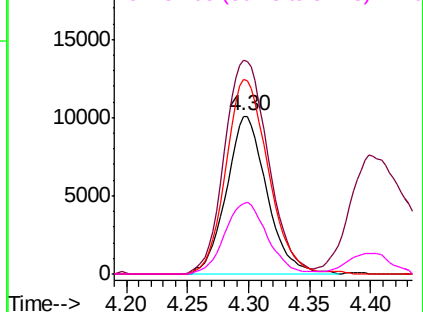
#23

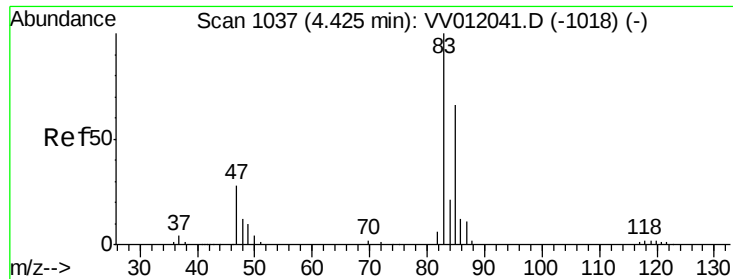
Bromochloromethane
Concen: 5.414 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion: 128 Resp: 23277
Ion Ratio Lower Upper
128 100
49 135.6 105.5 195.9
130 123.8 88.4 164.2
51 44.6 37.4 56.2



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

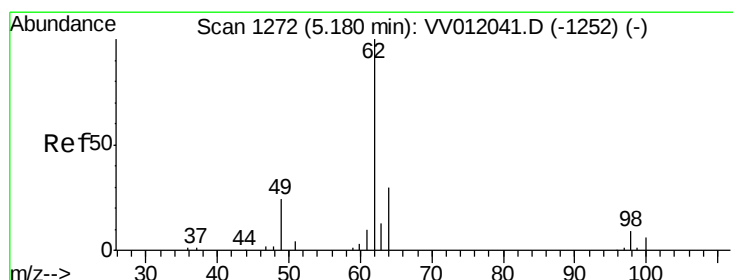
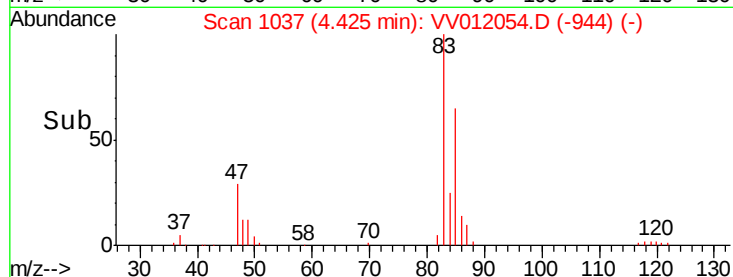
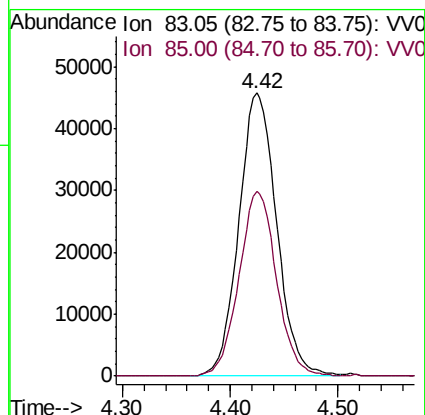
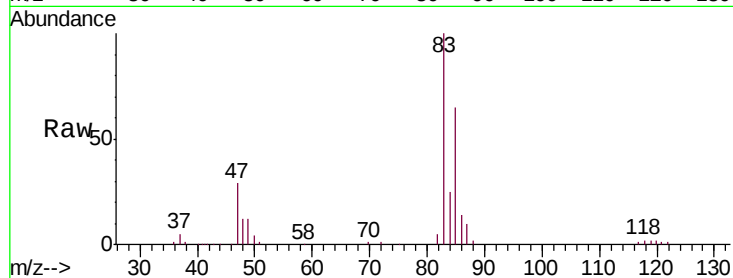




#25
Chloroform
Concen: 5.376 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

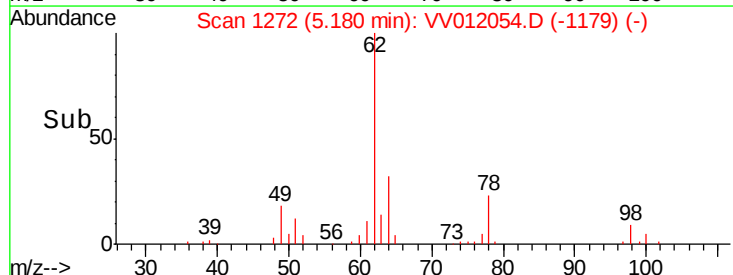
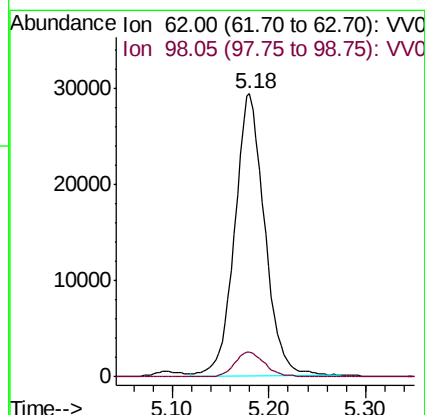
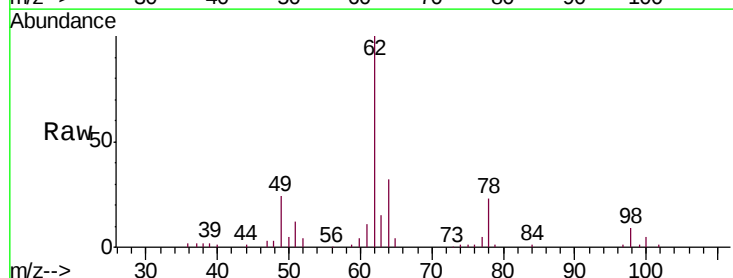
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

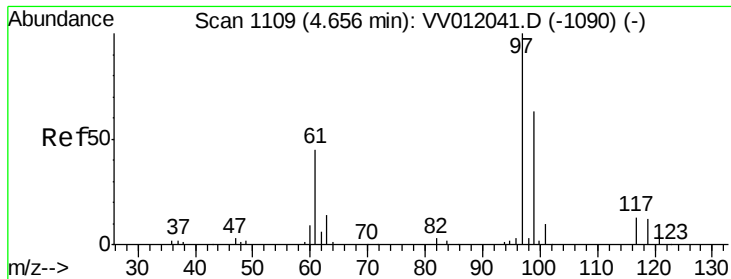
Tgt Ion: 83 Resp: 111585
Ion Ratio Lower Upper
83 100
85 65.4 46.5 86.3



#27
1,2-Dichloroethane
Concen: 5.471 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion: 62 Resp: 63142
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.6

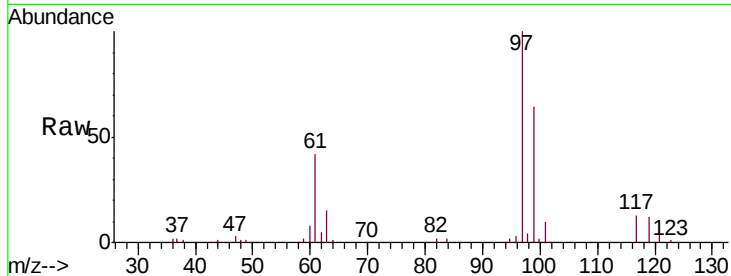




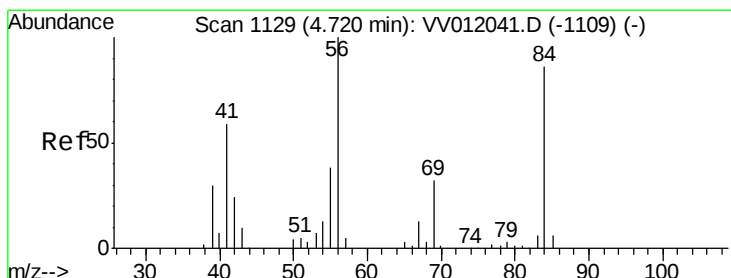
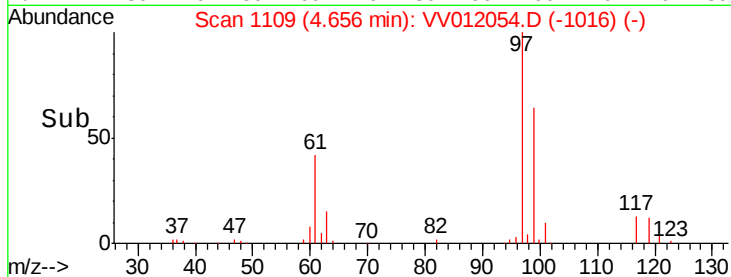
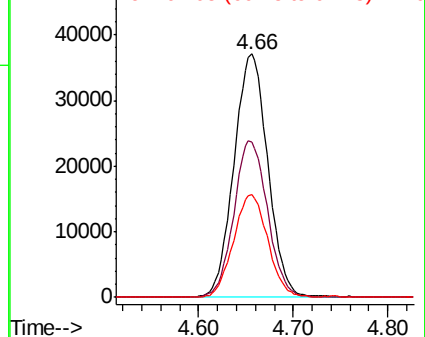
#29
 1,1,1-Trichloroethane
 Concen: 5.533 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Tgt Ion: 97 Resp: 92303
 Ion Ratio Lower Upper
 97 100
 99 63.9 51.7 77.5
 61 42.8 35.1 52.7

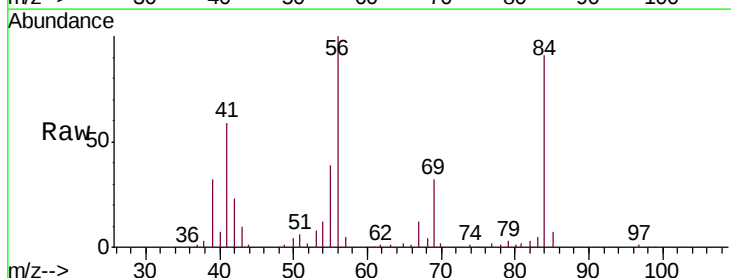


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

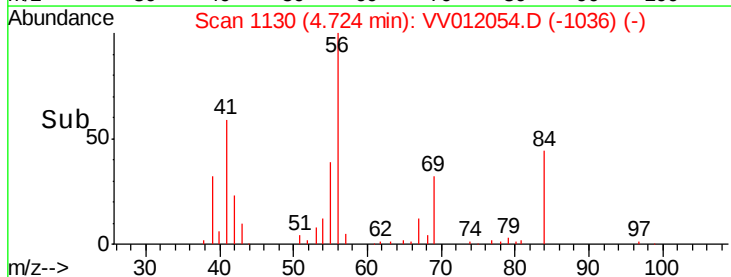
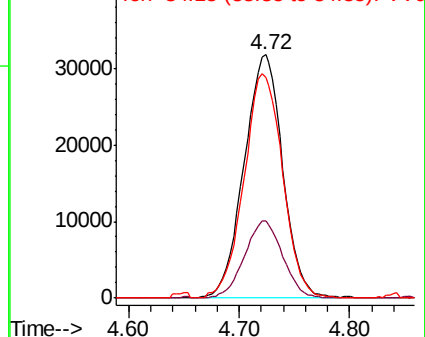


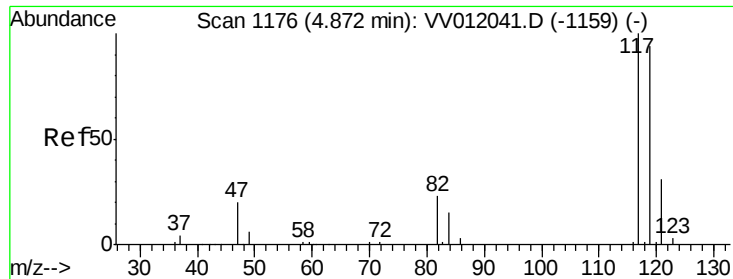
#30
 Cyclohexane
 Concen: 4.890 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Tgt Ion: 56 Resp: 77060
 Ion Ratio Lower Upper
 56 100
 69 31.3 25.4 38.2
 84 92.5 73.4 110.0



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





#31

Carbon tetrachloride

Concen: 5.499 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

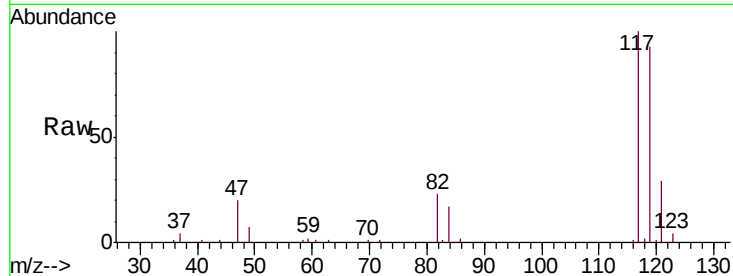
VSTD00552

Tgt Ion:117 Resp: 82577

Ion Ratio Lower Upper

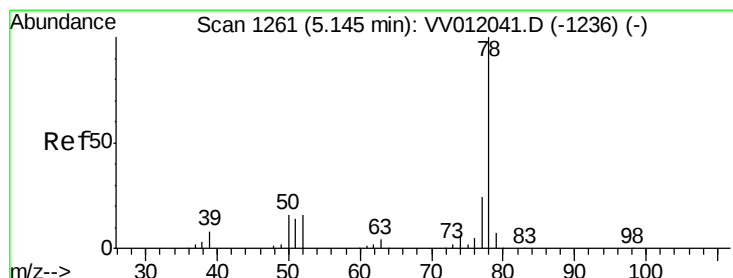
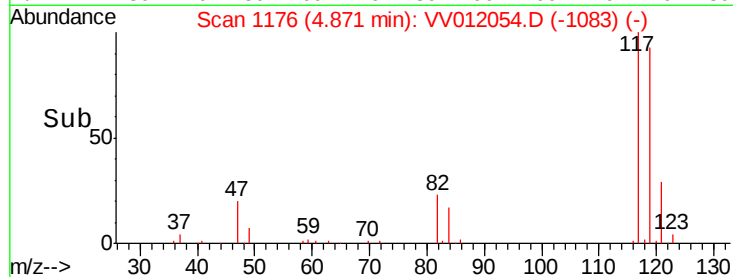
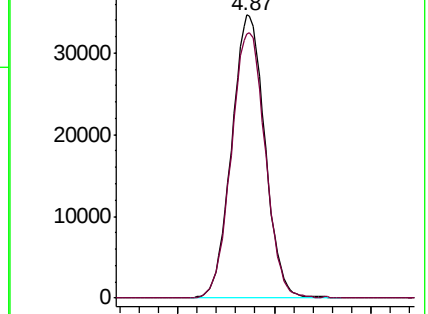
117 100

119 95.7 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.349 ug/L

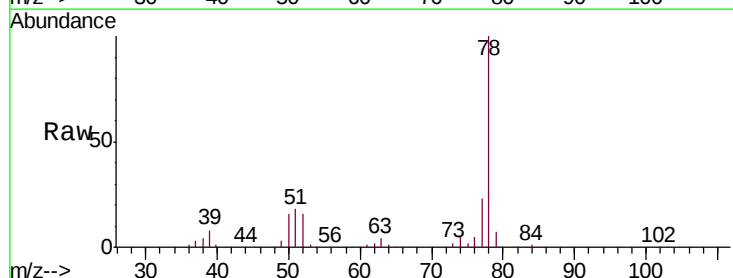
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

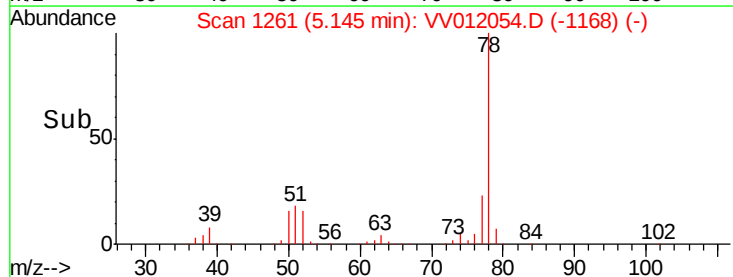
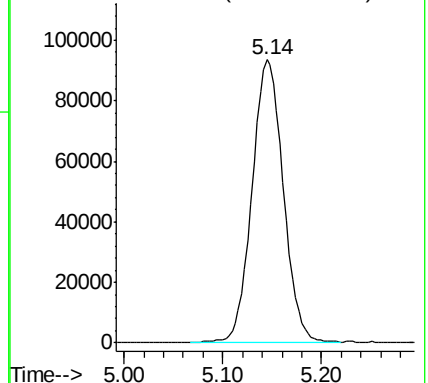
Lab File: VV012054.D

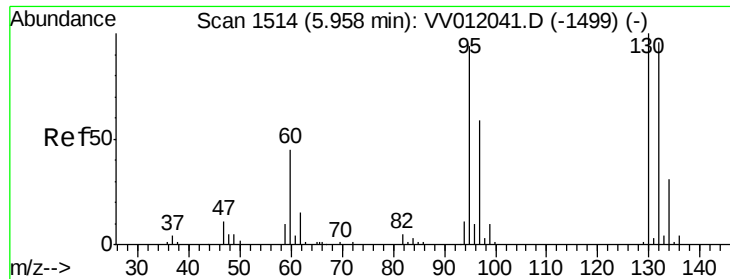
Acq: 26 Jul 2019 15:53

Tgt Ion: 78 Resp: 205066



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 5.389 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

Tgt Ion: 95 Resp: 57376

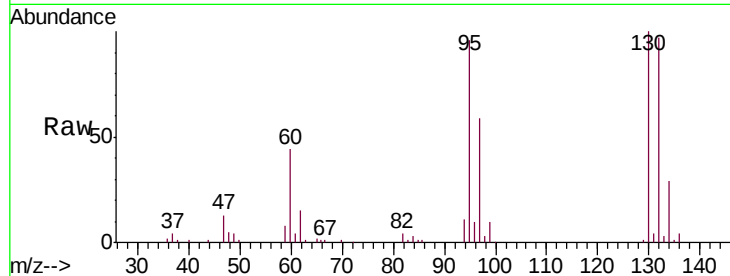
Ion Ratio Lower Upper

95 100

97 61.4 45.6 84.6

132 101.3 71.3 132.3

130 104.3 72.8 135.2

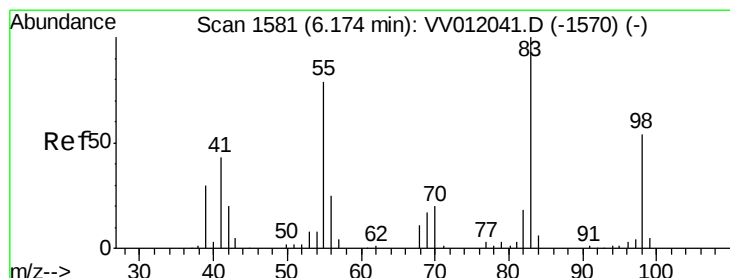
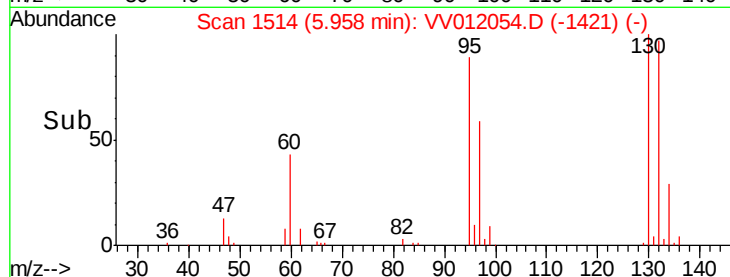
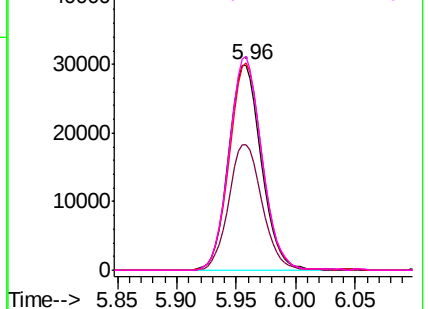


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 5.288 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

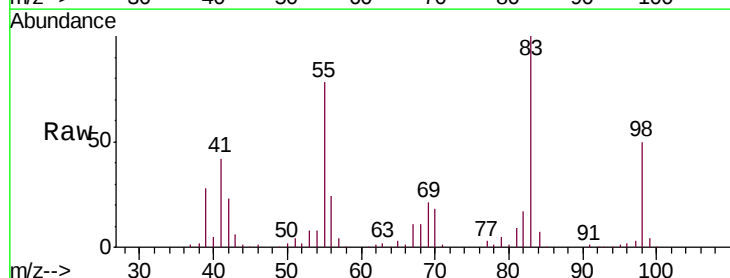
Tgt Ion: 83 Resp: 87631

Ion Ratio Lower Upper

83 100

55 76.1 63.0 94.4

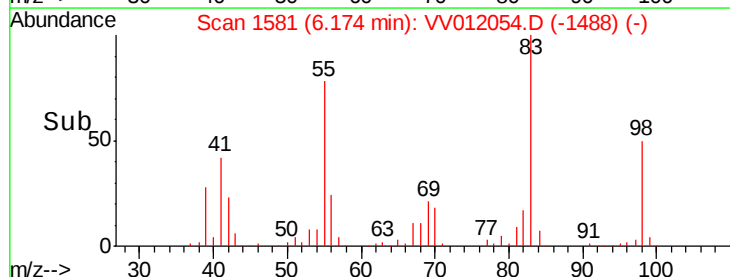
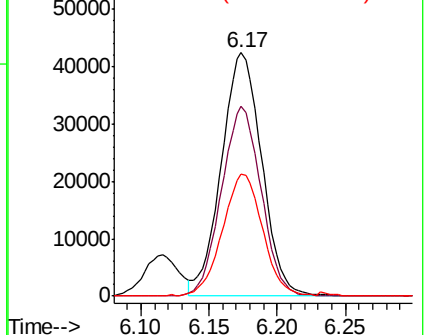
98 49.9 41.4 62.0

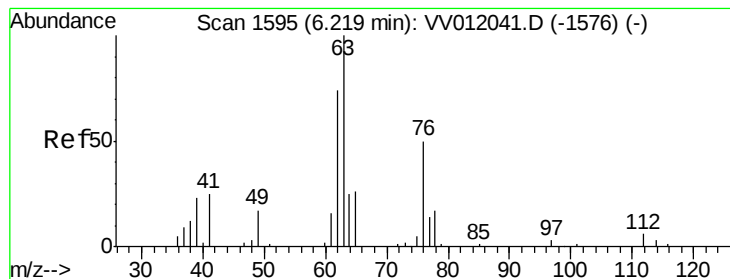


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 5.293 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

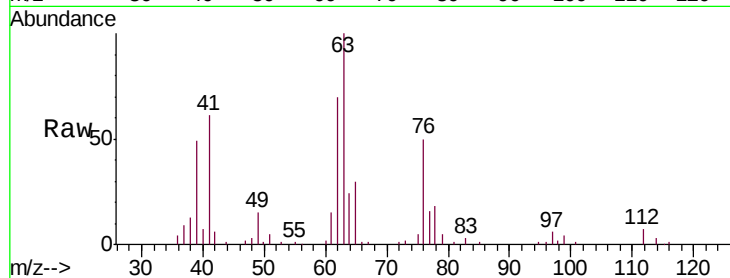
VSTD00552

Tgt Ion: 63 Resp: 48788

Ion Ratio Lower Upper

63 100

112 5.8 4.2 6.4



Abundance Ion 63.10 (62.80 to 63.80): VV012041.D (-1576) (-)

Ion 112.10 (111.80 to 112.80): VV012041.D (-1576) (-)

Time-->

6.10 6.15 6.20 6.25 6.30

Abundance

Scan 1595 (6.219 min): VV012054.D (-1502) (-)

Sub

m/z-->

30 40 50 60 70 80 90 100 110 120

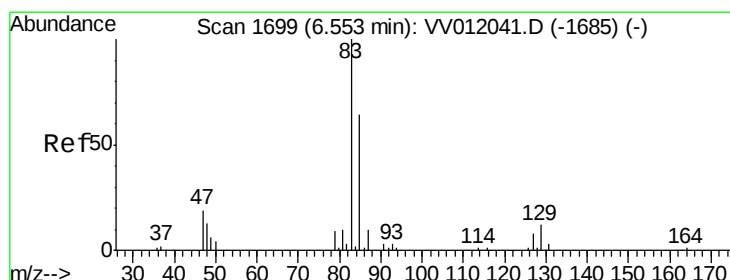
Abundance

Scan 1595 (6.219 min): VV012054.D (-1502) (-)

Sub

m/z-->

30 40 50 60 70 80 90 100 110 120



#38

Bromodichloromethane

Concen: 5.435 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

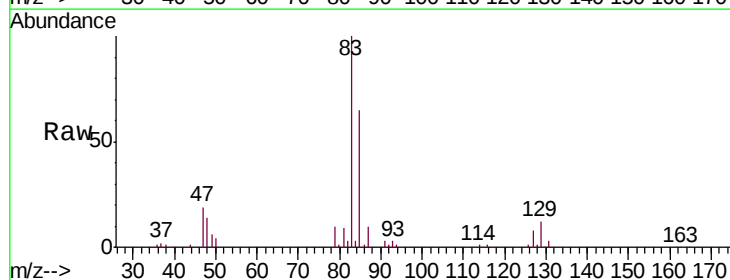
Tgt Ion: 83 Resp: 66933

Ion Ratio Lower Upper

83 100

85 64.8 44.4 82.4

127 8.3 7.9 11.9



Abundance Ion 82.95 (82.65 to 83.65): VV012041.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV012041.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV012041.D (-1685) (-)

Time-->

6.50 6.55 6.60 6.70

Abundance

Scan 1699 (6.553 min): VV012054.D (-1606) (-)

Sub

m/z-->

30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

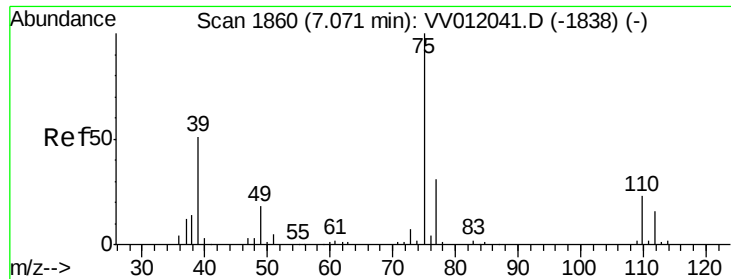
Abundance

Scan 1699 (6.553 min): VV012054.D (-1606) (-)

Sub

m/z-->

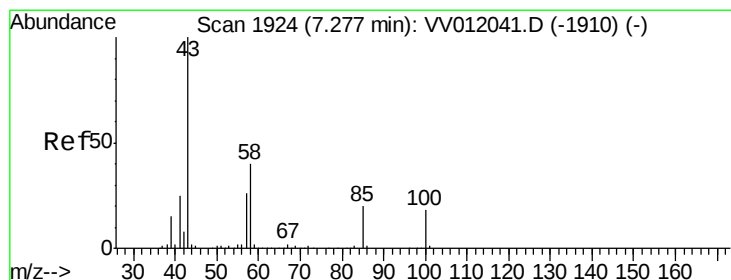
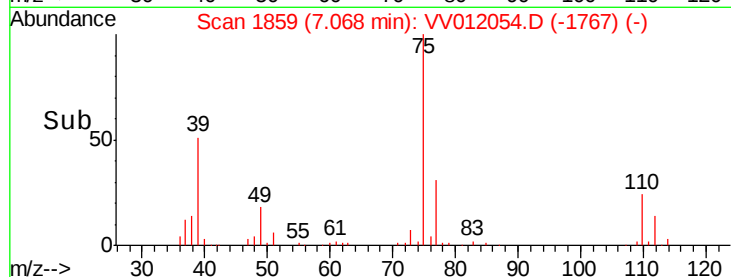
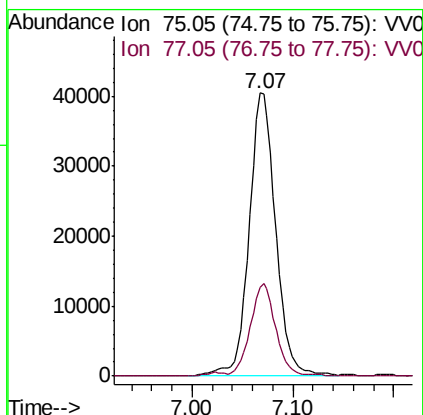
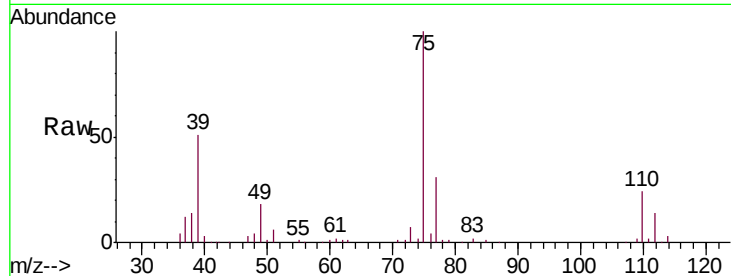
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170



#39
 cis-1,3-Dichloropropene
 Concen: 5.379 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

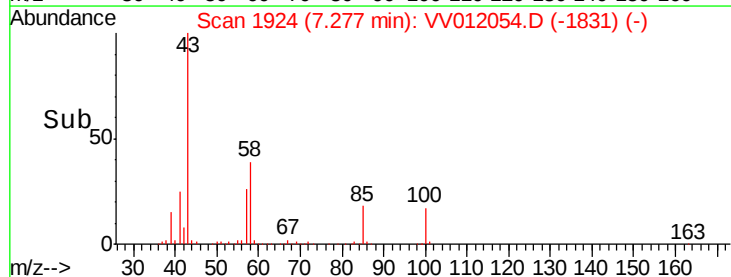
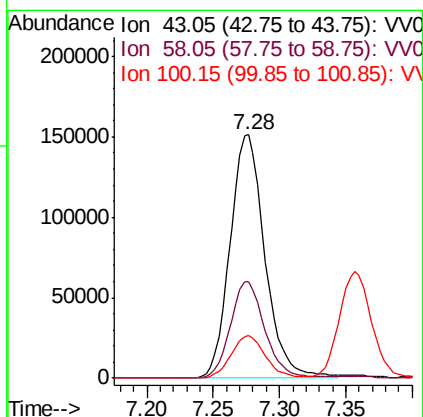
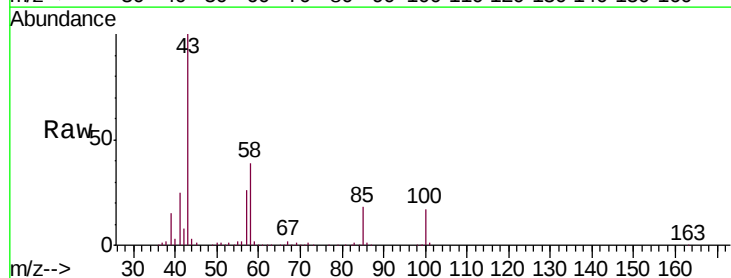
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

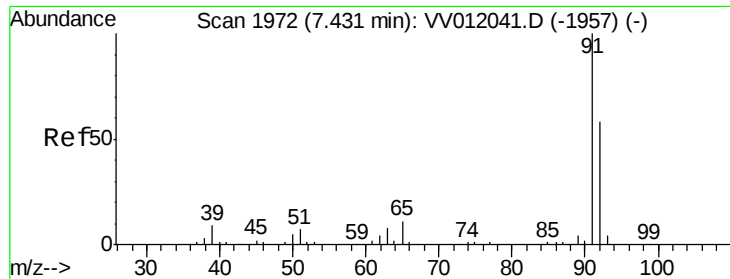
Tgt Ion: 75 Resp: 73487
 Ion Ratio Lower Upper
 75 100
 77 31.2 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 53.745 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Tgt Ion: 43 Resp: 276780
 Ion Ratio Lower Upper
 43 100
 58 39.1 31.2 46.8
 100 17.1 13.5 20.3





#42

Toluene

Concen: 5.554 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

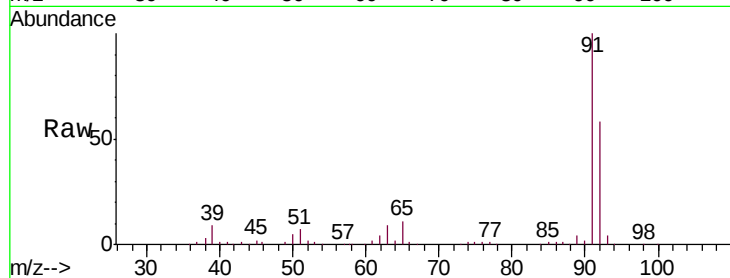
VSTD00552

Tgt Ion: 91 Resp: 228566

Ion Ratio Lower Upper

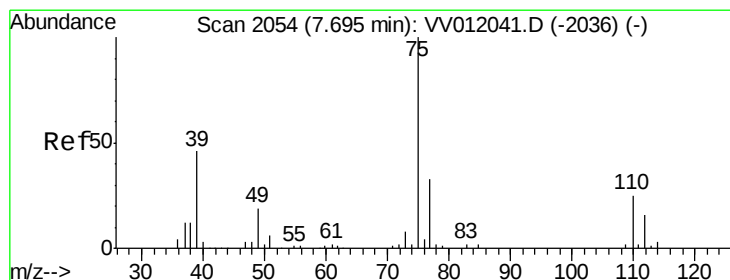
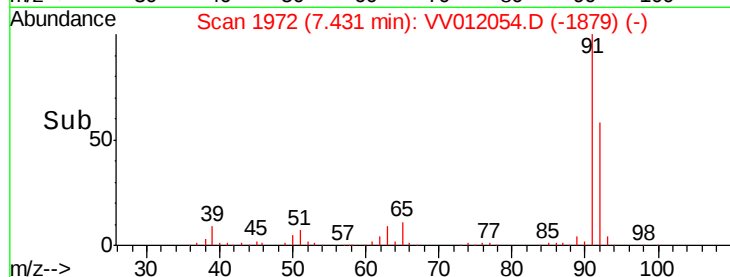
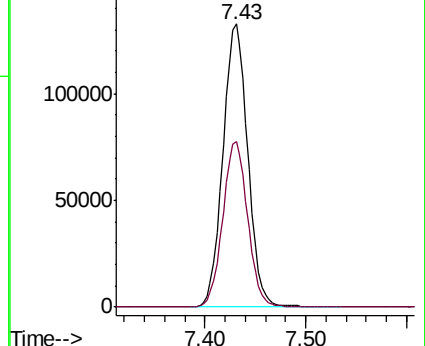
91 100

92 58.4 41.9 77.9



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: 5.312 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012054.D

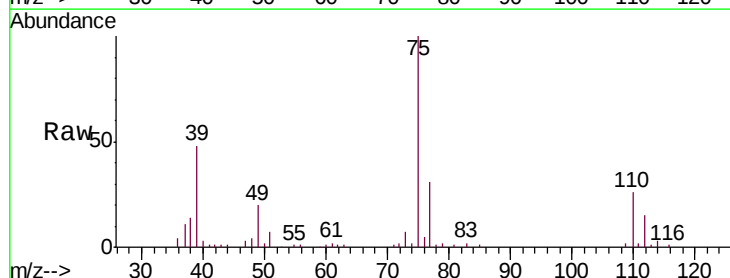
Acq: 26 Jul 2019 15:53

Tgt Ion: 75 Resp: 57719

Ion Ratio Lower Upper

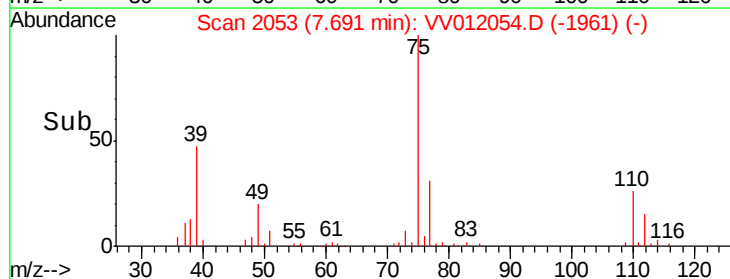
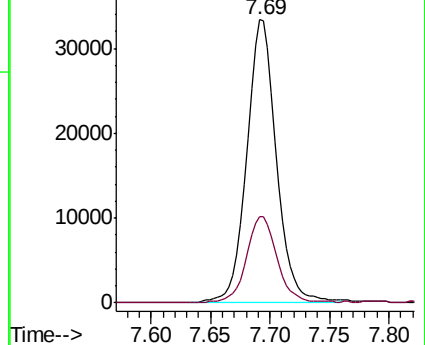
75 100

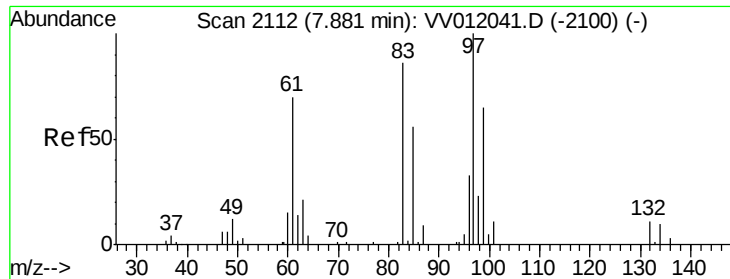
77 30.6 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

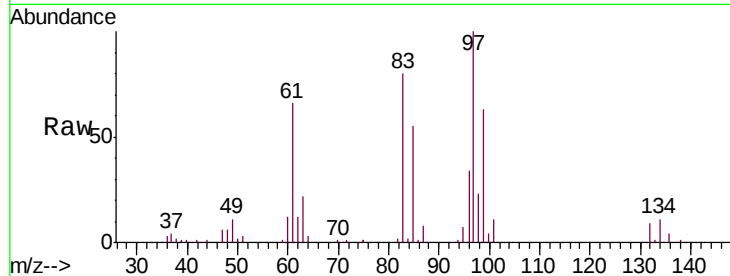




#45
1,1,2-Trichloroethane
Concen: 5.485 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tgt Ion:	97	Resp:	34913
Ion	Ratio	Lower	Upper
97	100		
99	62.6	44.0	81.8
83	80.2	59.5	110.5
85	55.1	36.6	68.0



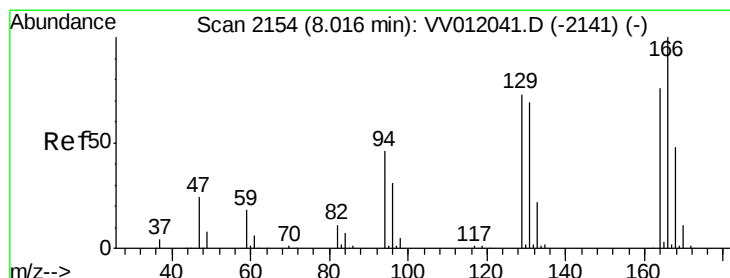
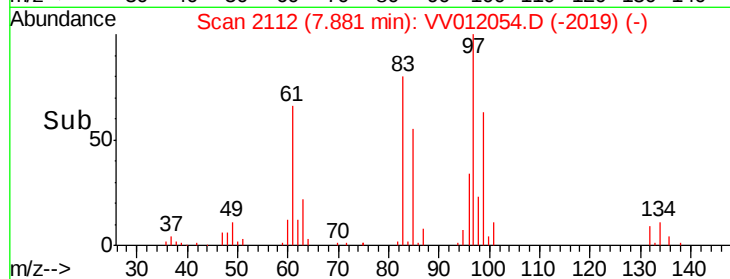
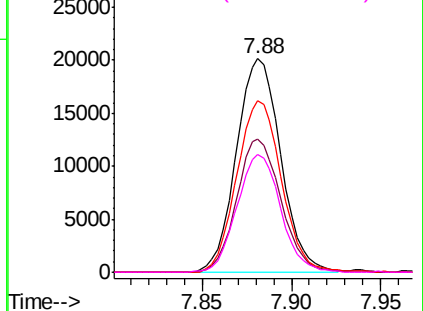
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

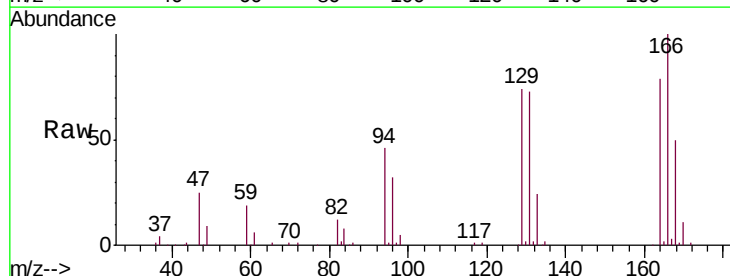
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
Tetrachloroethene
Concen: 5.341 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion:	164	Resp:	49073
Ion	Ratio	Lower	Upper
164	100		
129	93.7	62.5	116.1
131	93.1	58.6	108.8
166	127.0	88.2	163.8



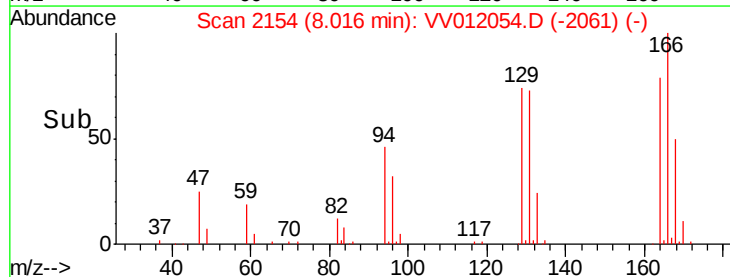
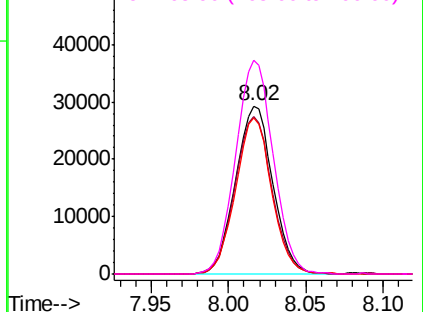
Abundance

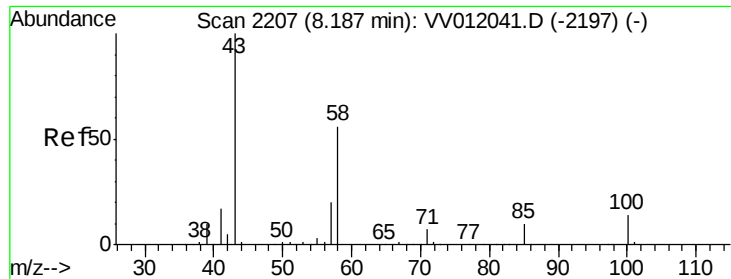
Ion 163.90 (163.60 to 164.60): V

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

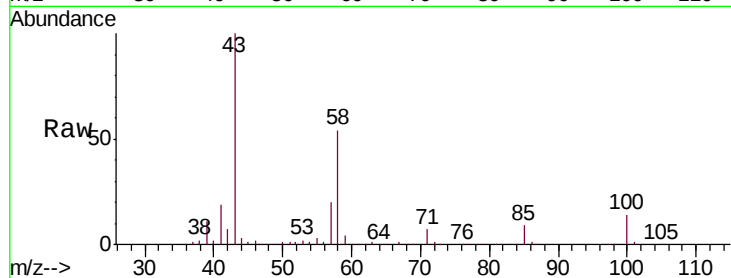




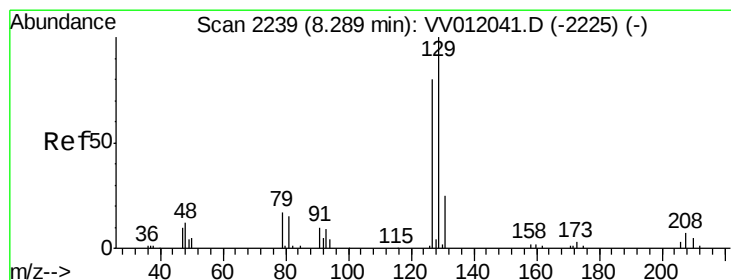
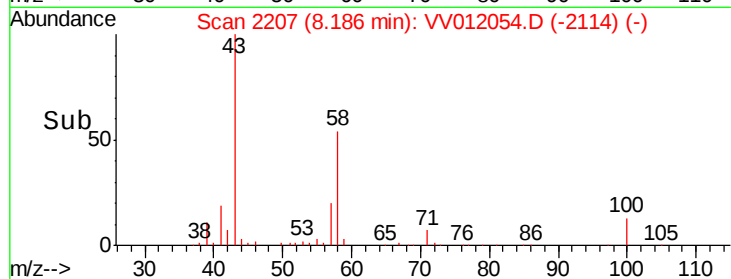
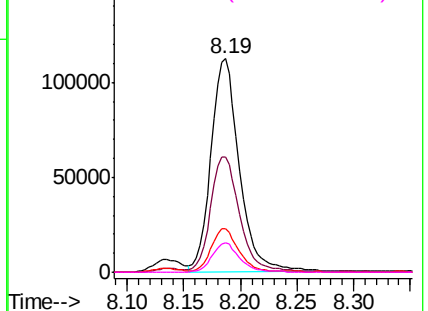
#48
2-Hexanone
Concen: 54.211 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tgt Ion: 43 Resp: 195844
Ion Ratio Lower Upper
43 100
58 55.9 43.7 65.5
57 19.3 16.0 24.0
100 13.5 10.5 15.7

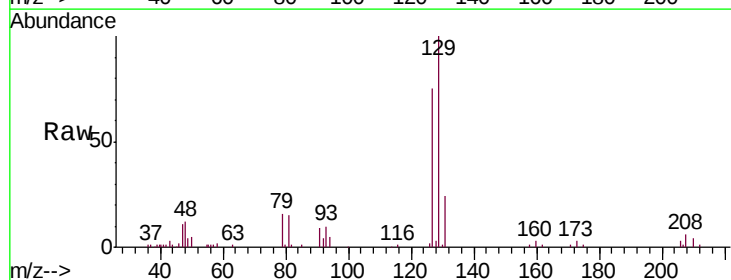


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

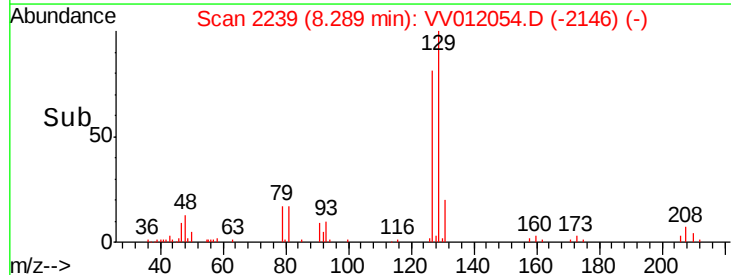
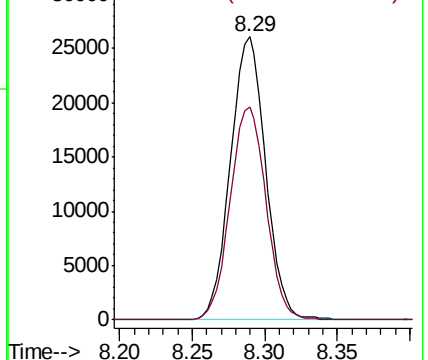


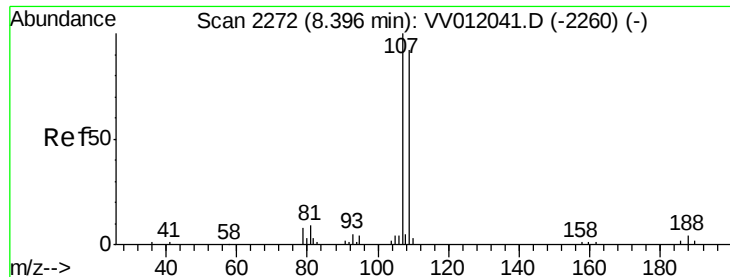
#49
Dibromochloromethane
Concen: 5.630 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion: 129 Resp: 43885
Ion Ratio Lower Upper
129 100
127 75.4 55.3 102.7



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

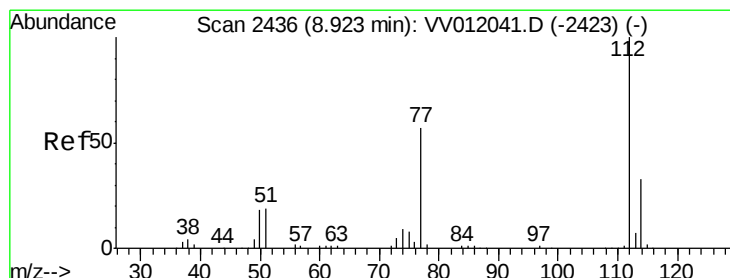
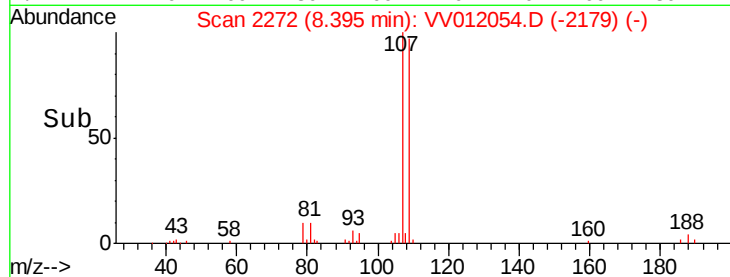
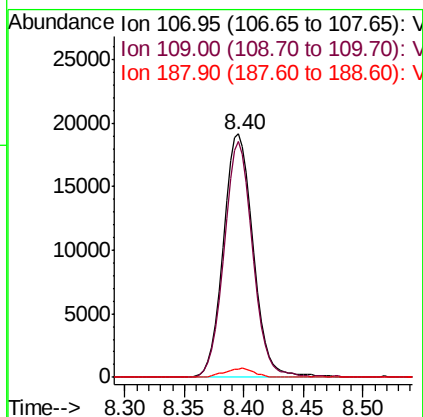
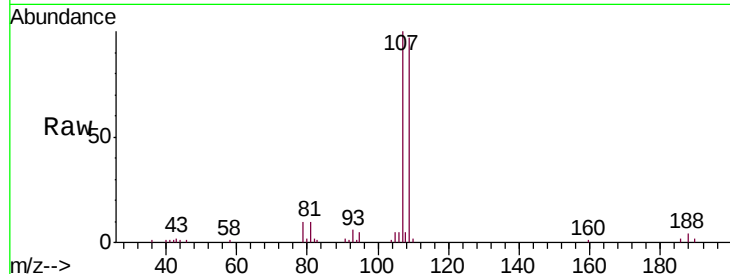




#50
1,2-Dibromoethane
Concen: 5.540 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

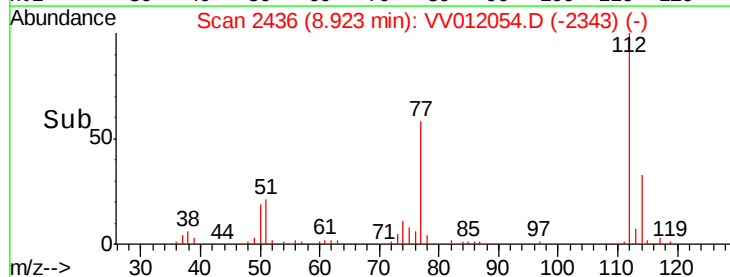
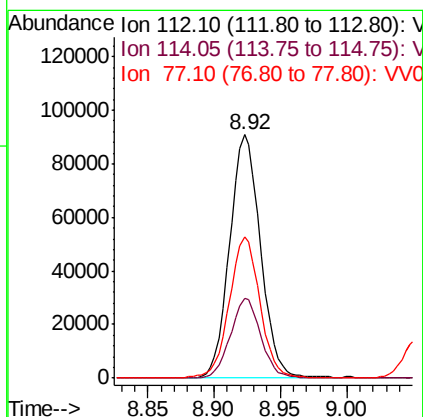
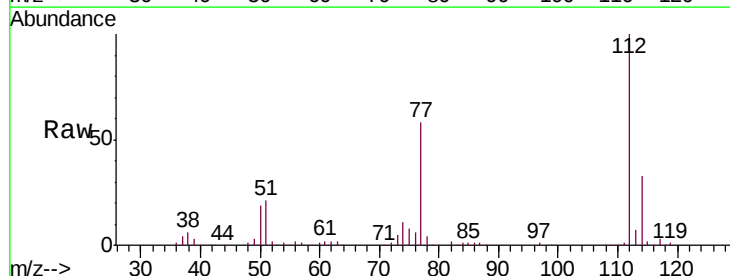
Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

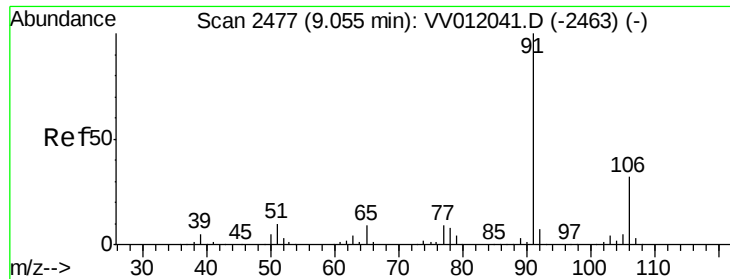
Tgt Ion:107 Resp: 33299
Ion Ratio Lower Upper
107 100
109 96.9 68.1 126.5
188 3.5 3.5 5.3



#51
Chlorobenzene
Concen: 5.462 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion:112 Resp: 147169
Ion Ratio Lower Upper
112 100
114 32.7 23.0 42.8
77 57.9 46.4 69.6





#52

Ethylbenzene

Concen: 5.335 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

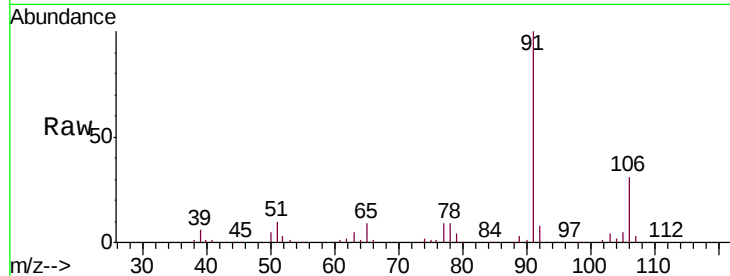
VSTD00552

Tgt Ion: 91 Resp: 250573

Ion Ratio Lower Upper

91 100

106 31.0 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV012041.D (-2463) (-)

Ion 106.15 (105.85 to 106.85): VV012041.D (-2463) (-)

9.05

150000

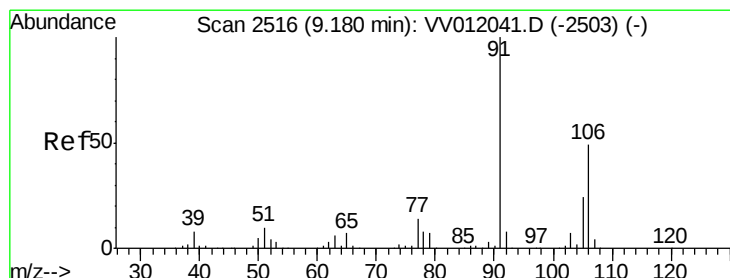
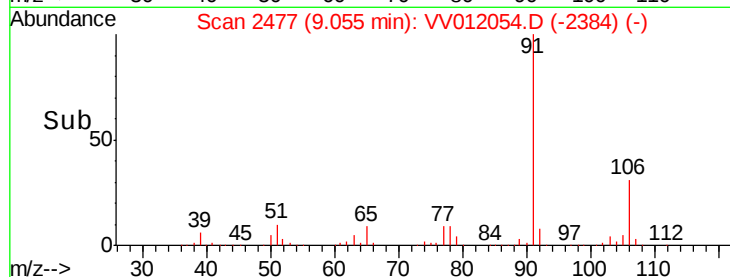
100000

50000

0

9.00 9.05 9.10

Time-->



#53

m,p-xylene

Concen: 5.594 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012054.D

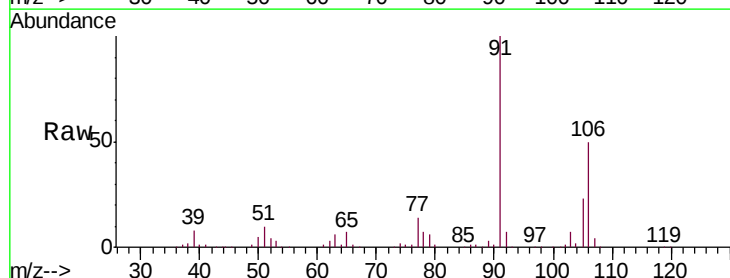
Acq: 26 Jul 2019 15:53

Tgt Ion: 106 Resp: 100016

Ion Ratio Lower Upper

106 100

91 199.7 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV012041.D (-2503) (-)

Ion 91.15 (90.85 to 91.85): VV012041.D (-2503) (-)

9.18

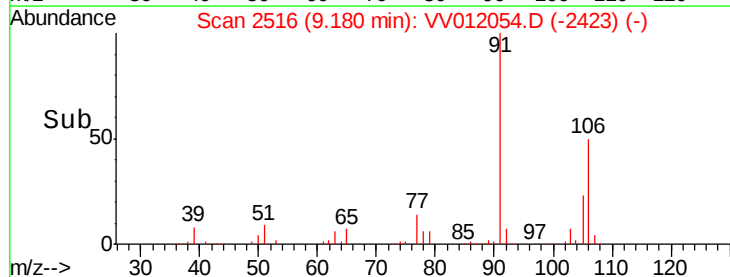
100000

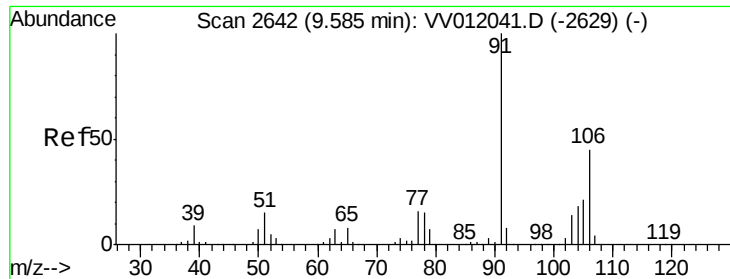
50000

0

9.10 9.15 9.20 9.25

Time-->

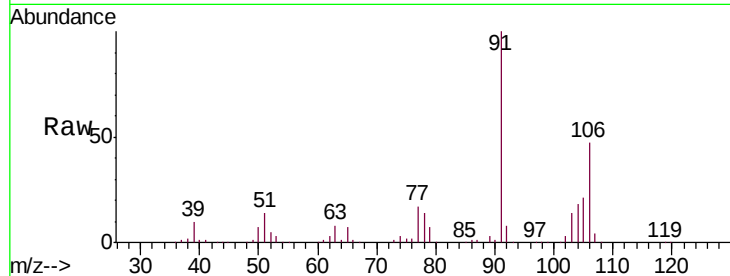




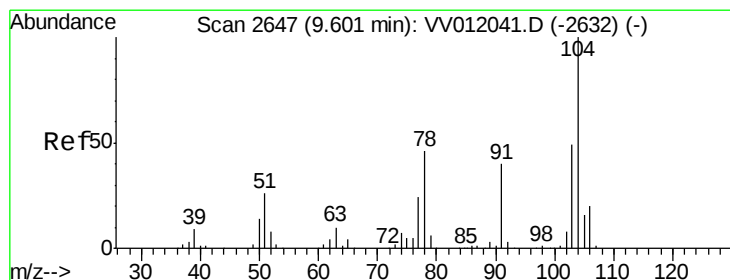
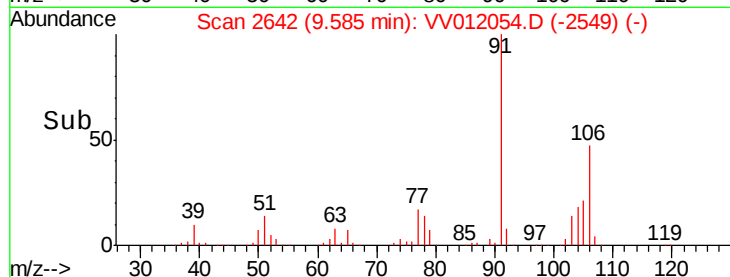
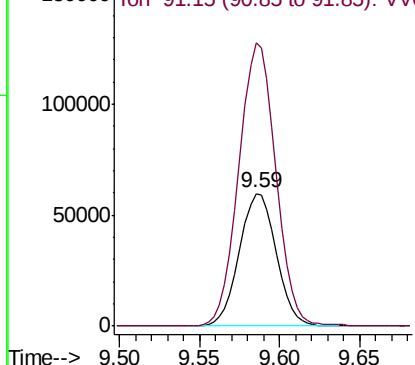
#54
o-xylene
Concen: 5.579 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD00552

Tgt Ion:106 Resp: 94583
Ion Ratio Lower Upper
106 100
91 213.2 151.0 280.4

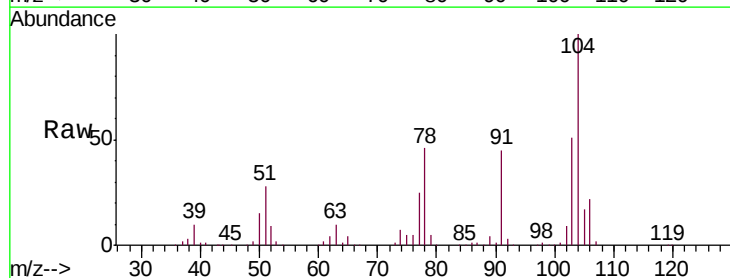


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

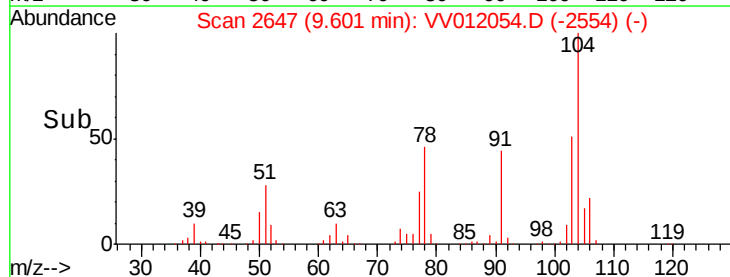
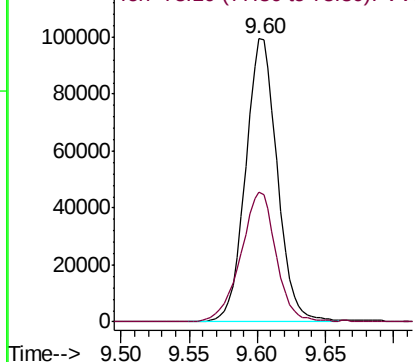


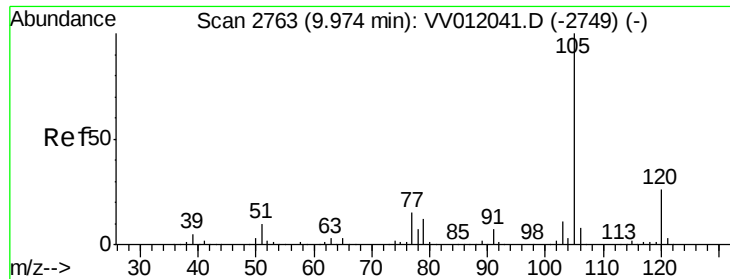
#55
Styrene
Concen: 5.613 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV012054.D
Acq: 26 Jul 2019 15:53

Tgt Ion:104 Resp: 160356
Ion Ratio Lower Upper
104 100
78 46.0 30.8 57.2



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





#56

Isopropylbenzene

Concen: 5.489 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

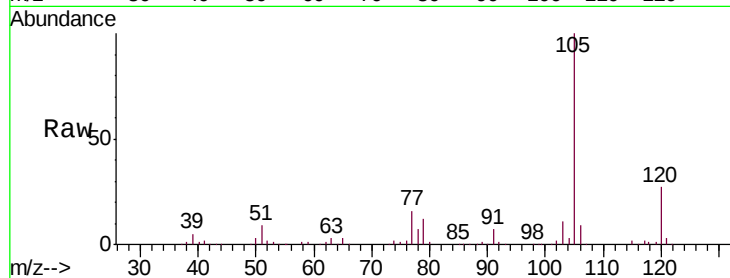
Tgt Ion: 105 Resp: 259870

Ion Ratio Lower Upper

105 100

120 26.2 20.8 31.2

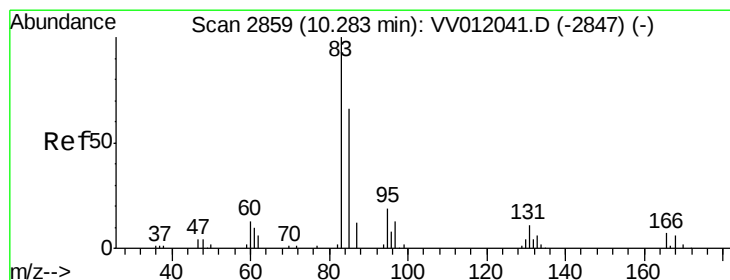
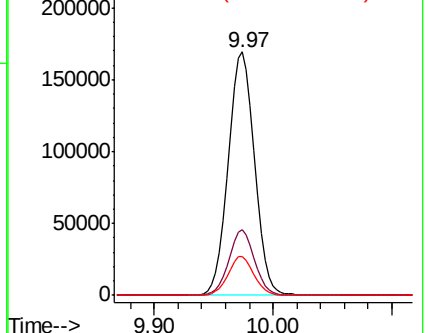
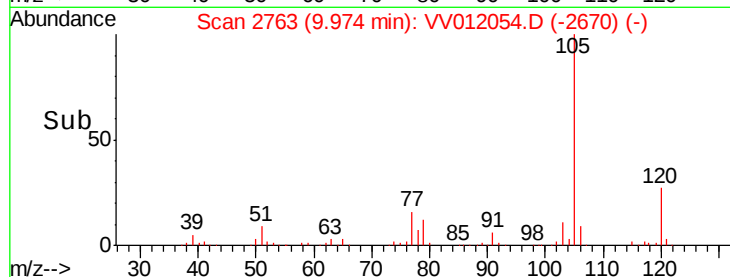
77 15.7 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.471 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

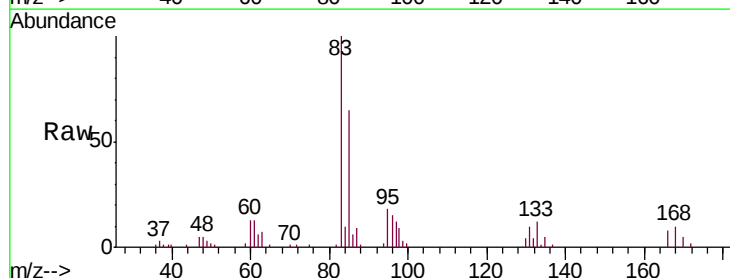
Tgt Ion: 83 Resp: 37745

Ion Ratio Lower Upper

83 100

85 65.4 46.3 85.9

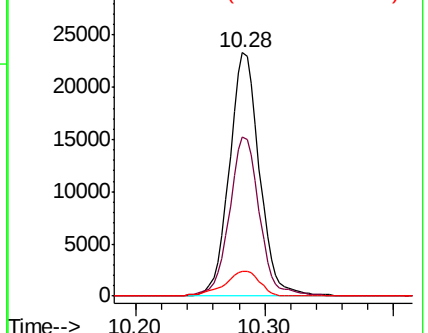
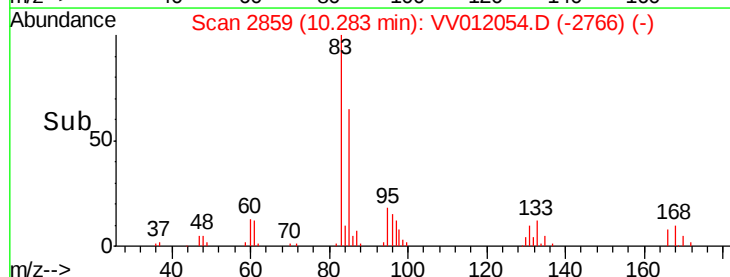
131 10.1 8.9 13.3

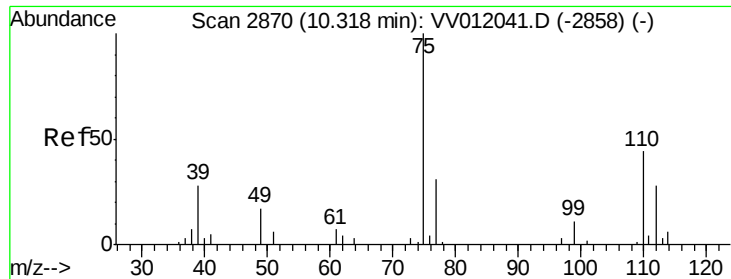


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

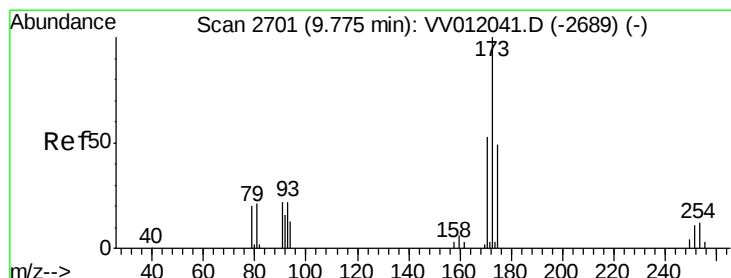
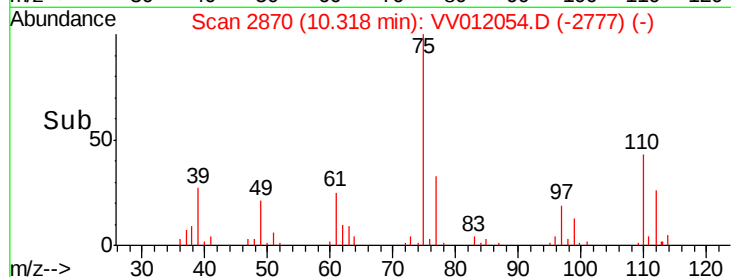
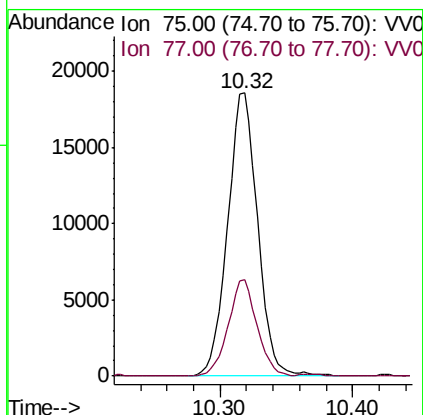
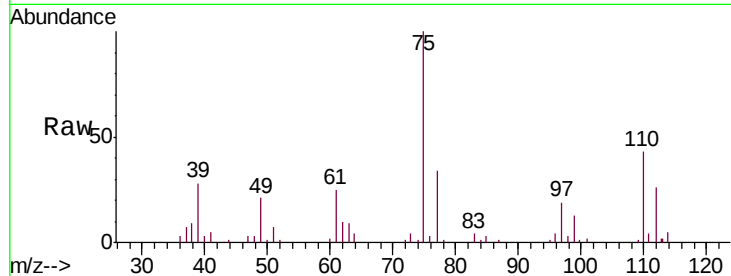




#59
 1,2,3-Trichloropropane
 Concen: 5.434 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

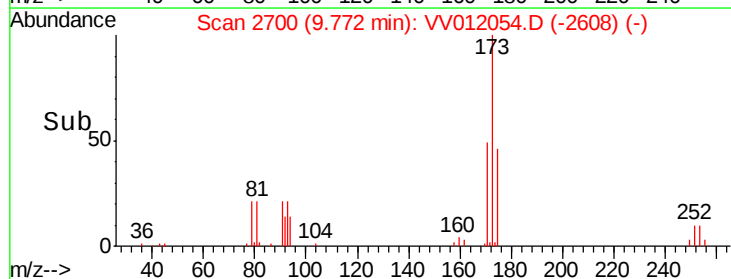
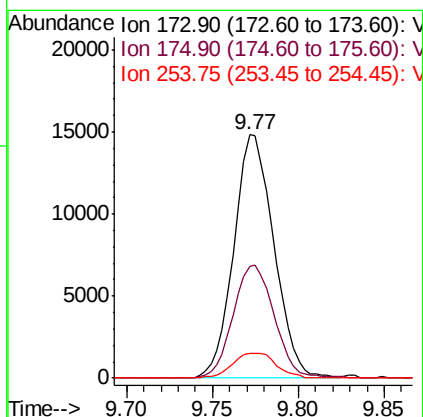
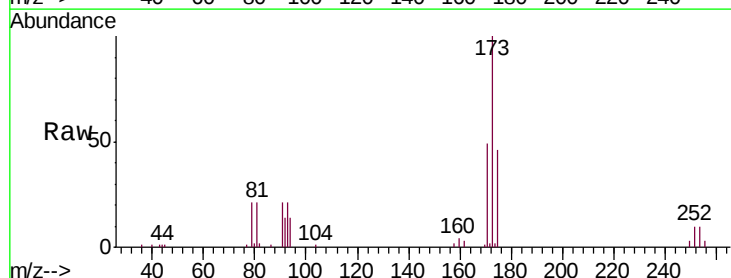
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

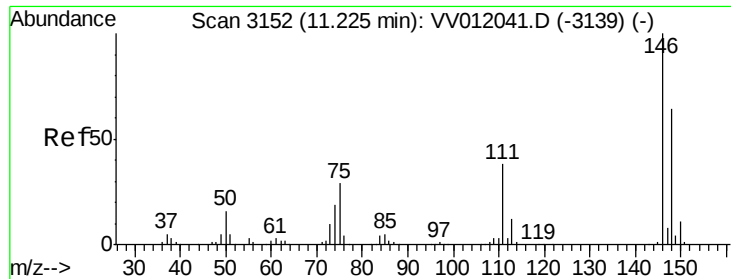
Tgt Ion: 75 Resp: 29211
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.2 39.2



#61
 Bromoform
 Concen: 5.497 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Tgt Ion: 173 Resp: 24049
 Ion Ratio Lower Upper
 173 100
 175 47.7 39.6 59.4
 254 11.0 7.9 11.9





#62

1,3-Dichlorobenzene

Concen: 5.154 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

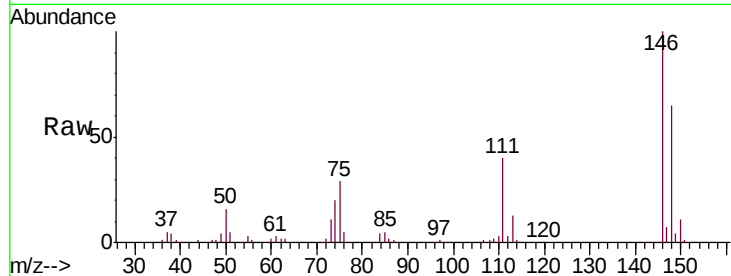
Tgt Ion:146 Resp: 120153

Ion Ratio Lower Upper

146 100

111 40.0 27.1 50.3

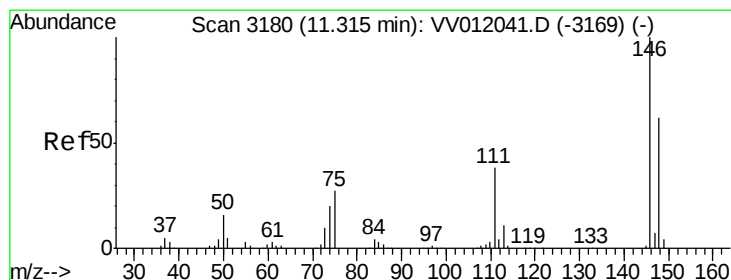
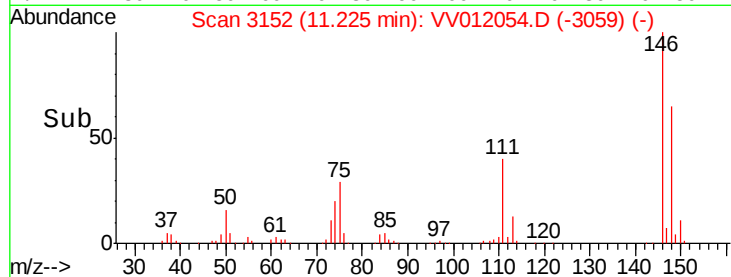
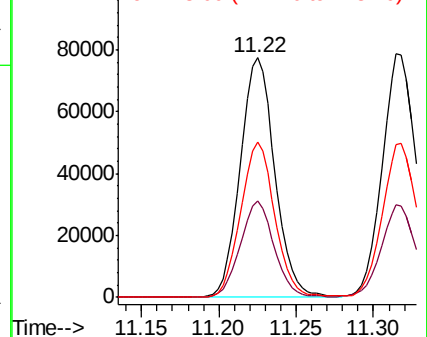
148 64.7 44.5 82.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.151 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

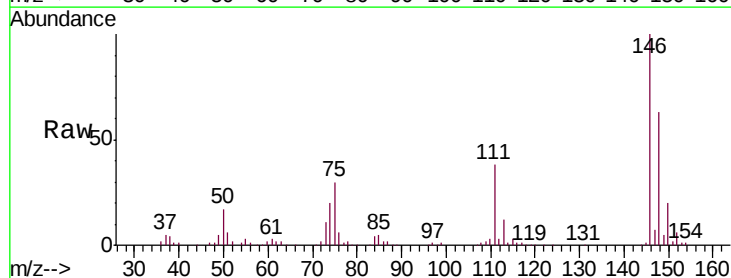
Tgt Ion:146 Resp: 123628

Ion Ratio Lower Upper

146 100

111 38.0 26.0 48.2

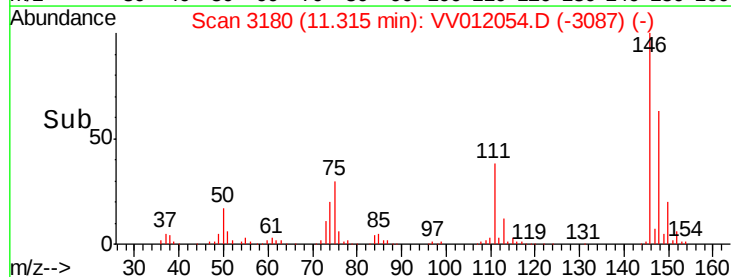
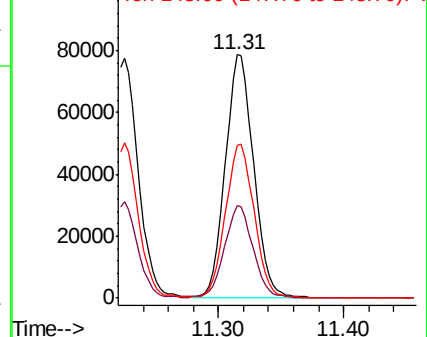
148 62.6 43.0 80.0

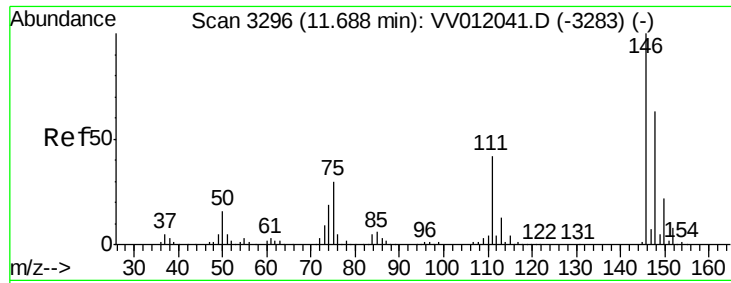


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.233 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

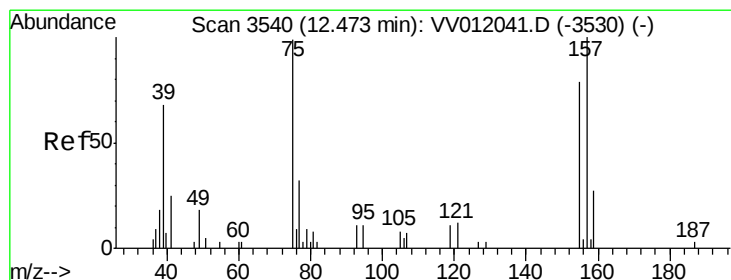
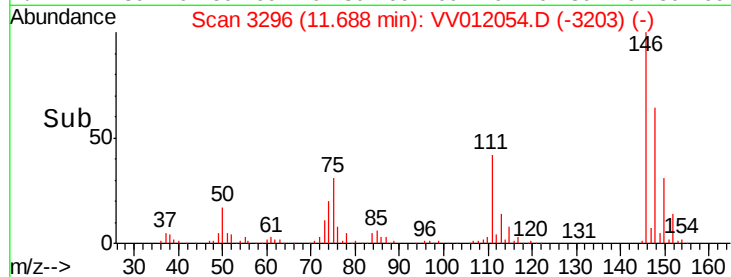
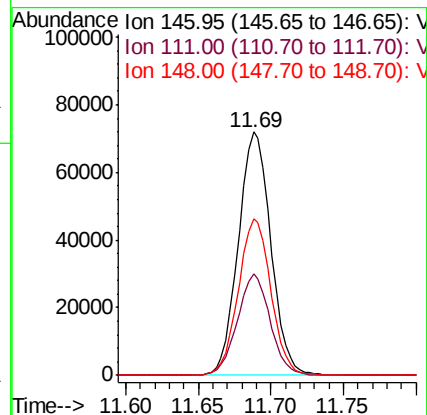
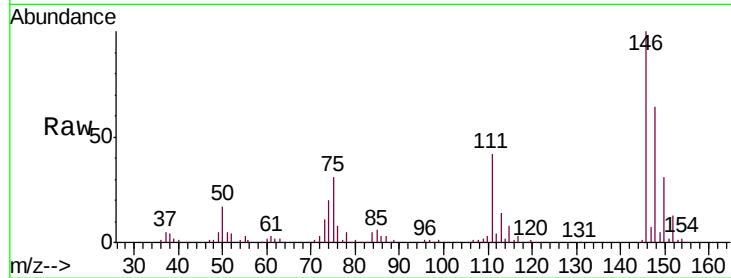
Tgt Ion:146 Resp: 112316

Ion Ratio Lower Upper

146 100

111 41.8 32.5 48.7

148 64.1 51.4 77.0



#66

1,2-Dibromo-3-chloropropane

Concen: 4.907 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

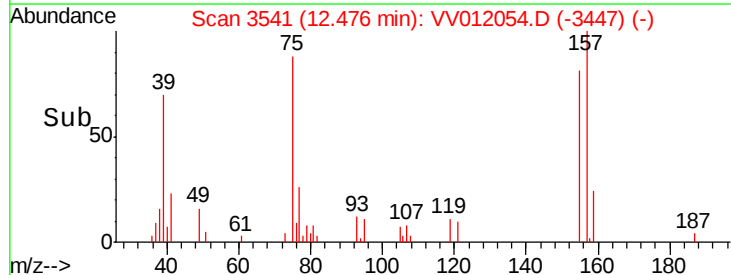
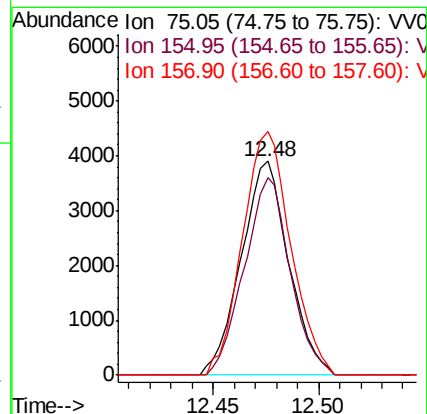
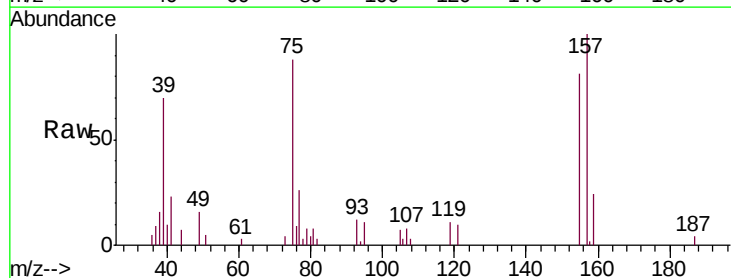
Tgt Ion: 75 Resp: 6119

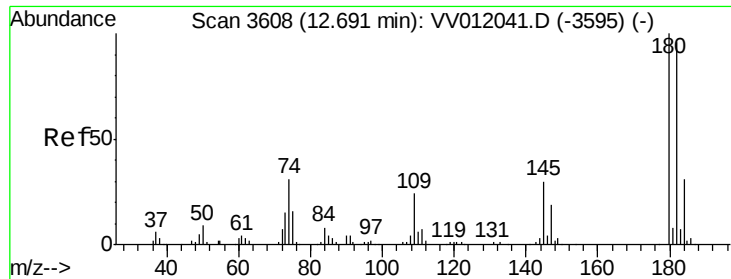
Ion Ratio Lower Upper

75 100

155 92.6 69.5 104.3

157 113.8 96.2 144.2

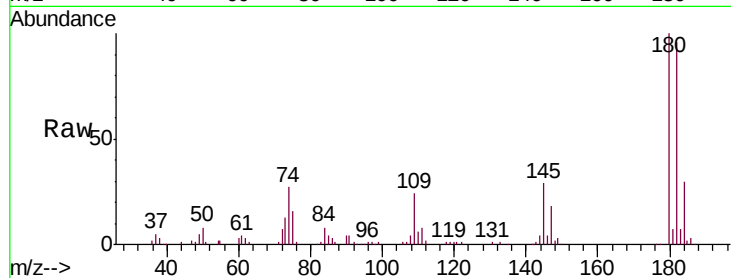




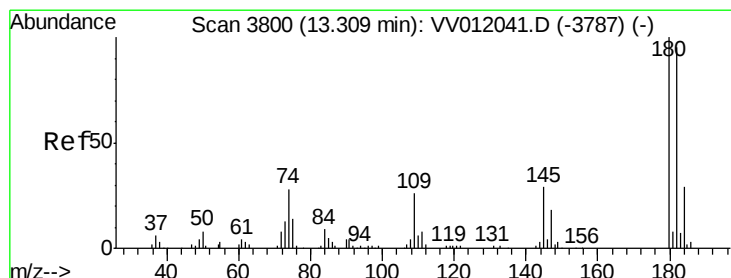
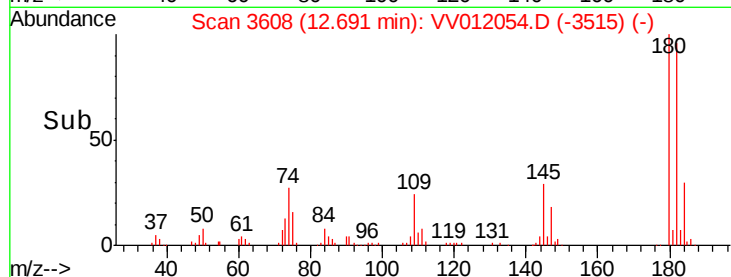
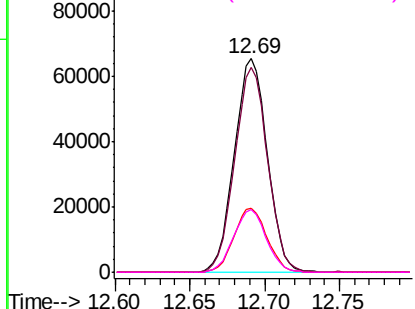
#67
 1,3,5-Trichlorobenzene
 Concen: 5.157 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00552

Tgt Ion:180 Resp: 100546
 Ion Ratio Lower Upper
 180 100
 182 95.4 77.4 116.0
 184 30.0 25.2 37.8
 145 29.1 24.4 36.6

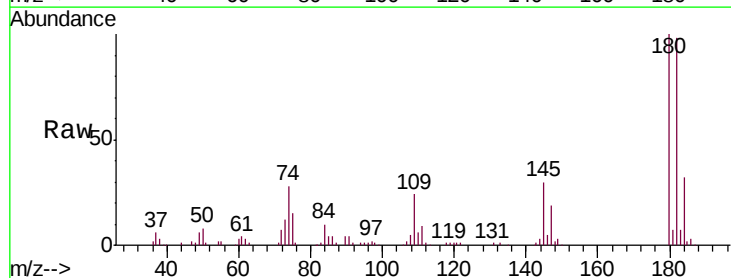


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

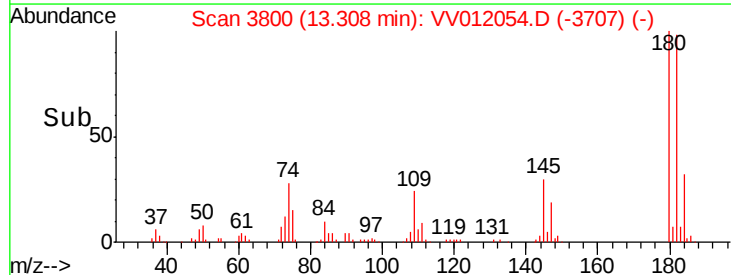
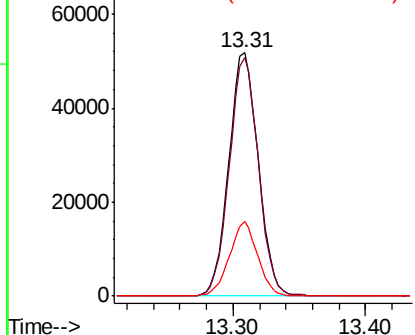


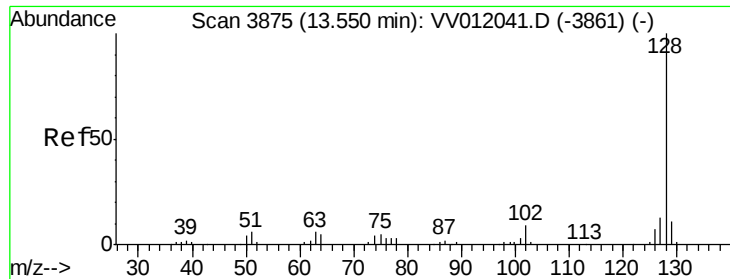
#68
 1,2,4-trichlorobenzene
 Concen: 5.049 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012054.D
 Acq: 26 Jul 2019 15:53

Tgt Ion:180 Resp: 79939
 Ion Ratio Lower Upper
 180 100
 182 96.7 75.8 113.8
 145 29.3 23.4 35.2



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: 4.529 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00552

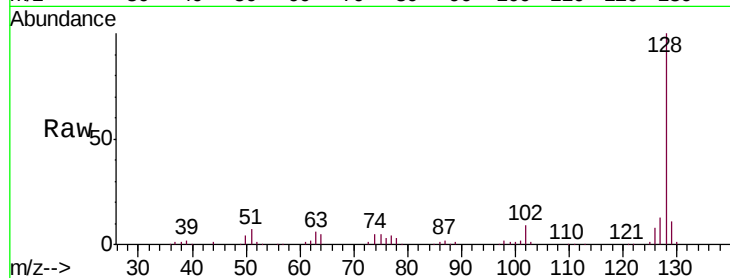
Tgt Ion:128 Resp: 108142

Ion Ratio Lower Upper

128 100

129 10.7 8.2 12.2

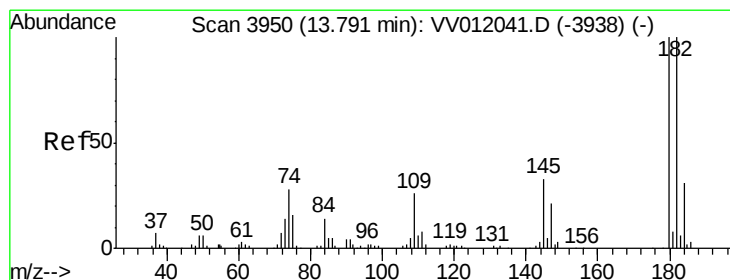
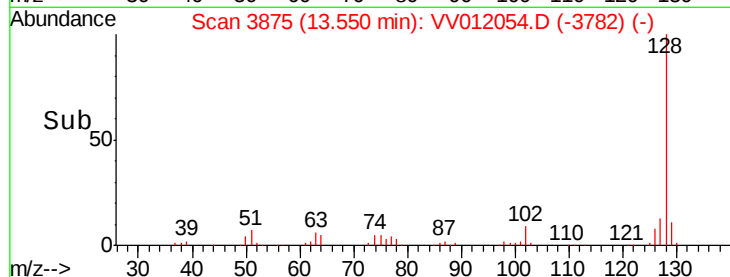
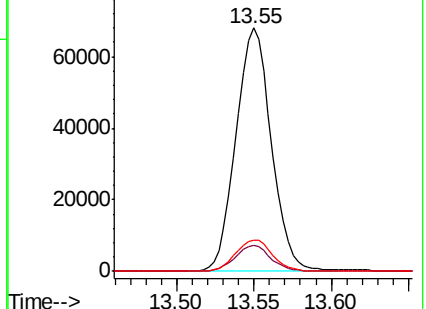
127 13.4 10.8 16.2



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: 4.969 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012054.D

Acq: 26 Jul 2019 15:53

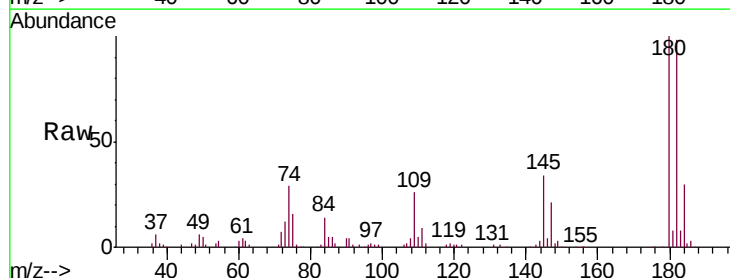
Tgt Ion:180 Resp: 71386

Ion Ratio Lower Upper

180 100

182 96.8 75.5 113.3

145 32.1 24.7 37.1



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

