

Data File : VV012470.D
Acq On : 30 Aug 2019 23:53
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

Quant Time: Aug 31 01:42:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Aug 31 01:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	211929	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	210186	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	107276	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	84484	4.47	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.40%
7) Chloroethane-d5	1.58	69	64729	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.13	63	153045	4.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.80%
20) 2-Butanone-d5	3.96	46	192892	50.10	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.20%
24) Chloroform-d	4.40	84	156243	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
26) 1,2-Dichloroethane-d4	5.08	65	75660	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.09	84	302129	4.81	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.20%
36) 1,2-Dichloropropane-d6	6.12	67	95231	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	7.36	98	285314	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
43) trans-1,3-Dichloropropene-	7.66	79	32865	4.67	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.40%
46) 2-Hexanone-d5	8.14	63	130747	47.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	94.50%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	64511	4.56	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	96526	4.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.60%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	152211	5.348	ug/L 99
3) Chloromethane	1.25	50	145462	5.193	ug/L 99
5) Vinyl chloride	1.32	62	136068	5.142	ug/L 99
6) Bromomethane	1.54	94	71855	5.000	ug/L 96
8) Chloroethane	1.60	64	76543	5.392	ug/L 99
9) Trichlorofluoromethane	1.77	101	184497	5.383	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	93752	5.503	ug/L 98
12) 1,1-Dichloroethene	2.14	96	86299	5.373	ug/L 98
13) Acetone	2.23	43	145214	51.622	ug/L 66
14) Carbon disulfide	2.32	76	259619	5.288	ug/L 100
15) Methyl Acetate	2.47	43	37959	5.481	ug/L 100
16) Methylene chloride	2.53	84	91858	5.002	ug/L 96
17) Methyl tert-butyl Ether	2.81	73	229560	5.200	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	107843	5.242	ug/L 99
19) 1,1-Dichloroethane	3.23	63	213526	5.303	ug/L 100
21) 2-Butanone	4.05	43	275777	53.329	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	110878	5.149	ug/L 96

Data File : VV012470.D
Acq On : 30 Aug 2019 23:53
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 32 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

Quant Time: Aug 31 01:42:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Aug 31 01:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	49391	5.281	ug/L	96
25) Chloroform	4.42	83	213452	5.060	ug/L	98
27) 1,2-Dichloroethane	5.18	62	126188	5.334	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	176965	5.198	ug/L	97
30) Cyclohexane	4.72	56	185336	5.400	ug/L	97
31) Carbon tetrachloride	4.87	117	157009	5.242	ug/L	99
33) Benzene	5.14	78	467135	5.369	ug/L	100
34) Trichloroethene	5.96	95	115624	5.216	ug/L	99
35) Methylcyclohexane	6.17	83	183286	5.434	ug/L	98
37) 1,2-Dichloropropane	6.22	63	120936	5.330	ug/L	99
38) Bromodichloromethane	6.55	83	145482	5.155	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	148377	5.054	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	702435	54.619	ug/L	99
42) Toluene	7.43	91	494486	5.552	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	117056	5.133	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	76754	5.099	ug/L	98
47) Tetrachloroethene	8.02	164	96633	5.445	ug/L	97
48) 2-Hexanone	8.19	43	498871	56.955	ug/L	99
49) Dibromochloromethane	8.29	129	92208	5.320	ug/L	98
50) 1,2-Dibromoethane	8.40	107	70020	5.267	ug/L	95
51) Chlorobenzene	8.92	112	298756	5.294	ug/L	98
52) Ethylbenzene	9.05	91	519721	5.522	ug/L	99
53) m,p-xylene	9.18	106	198846	5.763	ug/L	97
54) o-xylene	9.59	106	186380	5.533	ug/L	97
55) Styrene	9.60	104	331825	5.868	ug/L	98
56) Isopropylbenzene	9.97	105	499390	5.630	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	87701	4.953	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	64861	5.146	ug/L	100
61) Bromoform	9.77	173	49155	4.928	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	235274	5.241	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	236643	5.261	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	219579	5.188	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	12511	4.391	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	174937	5.223	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	130416	5.311	ug/L	98
69) Naphthalene	13.55	128	180389	5.076	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	127106	5.388	ug/L	99

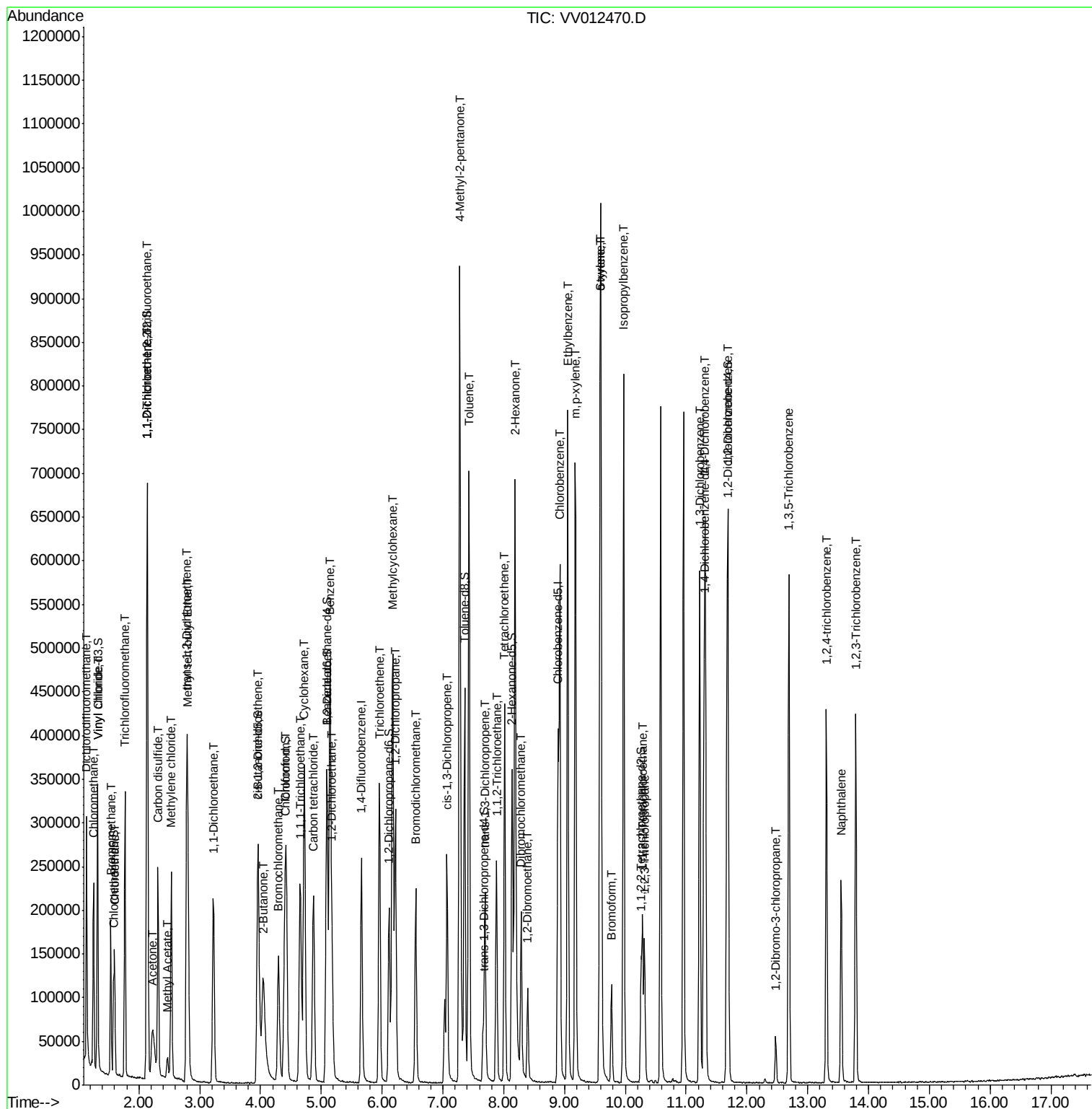
(#) = qualifier out of range (m) = manual integration (+) = signals summed

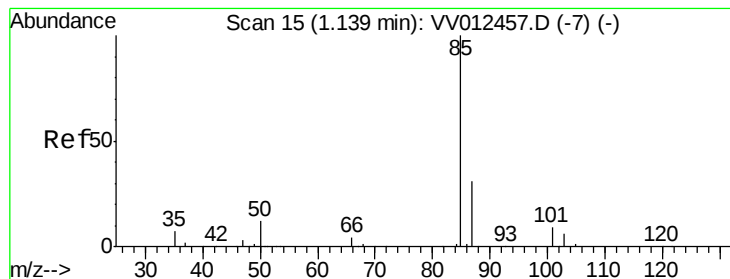
Data File : VV012470.D

```
Acq On       : 30 Aug 2019  23:53
Operator     : SY/MD
Sample       : VSTDCCC005
Misc         : 25mL/MSVOA_V/WATER
ALS Vial     : 32   Sample Multip
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

Quant Time: Aug 31 01:42:48 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR082919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Aug 31 01:38:02 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 5.348 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

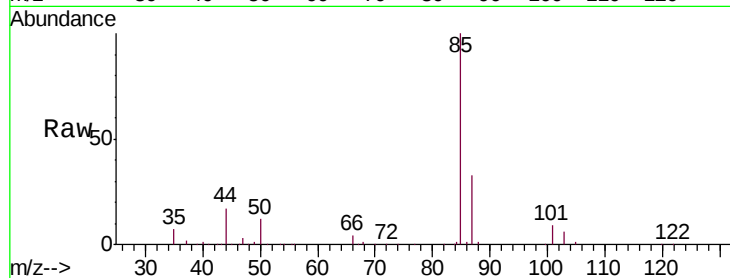
VSTD00557

Tgt Ion: 85 Resp: 152211

Ion Ratio Lower Upper

85 100

87 32.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV012457.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012457.D (-7) (-)

1.14

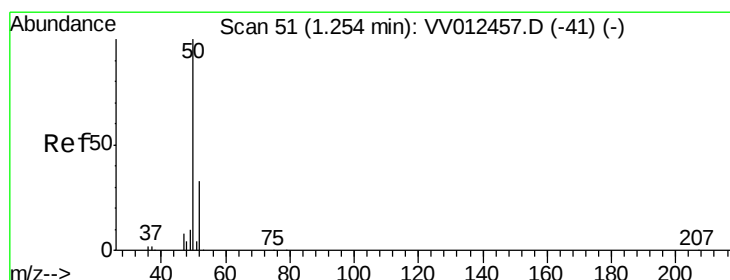
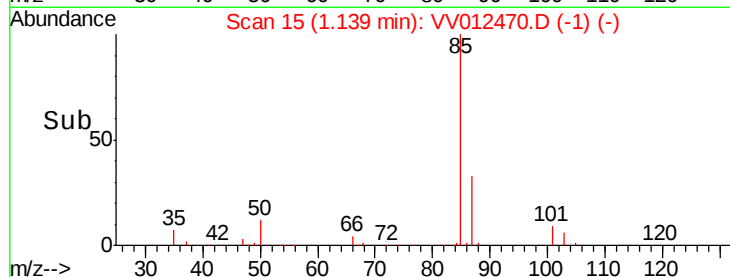
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.193 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012470.D

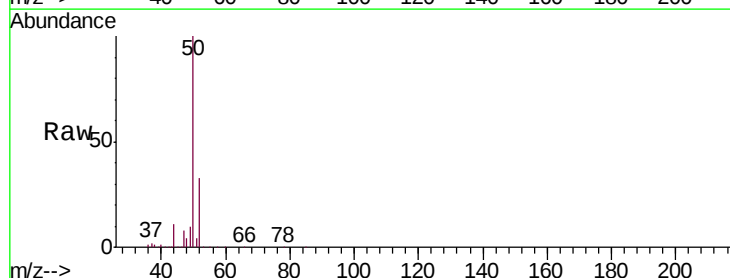
Acq: 30 Aug 2019 23:53

Tgt Ion: 50 Resp: 145462

Ion Ratio Lower Upper

50 100

52 32.9 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV012457.D (-41) (-)

Ion 52.05 (51.75 to 52.75): VV012457.D (-41) (-)

1.25

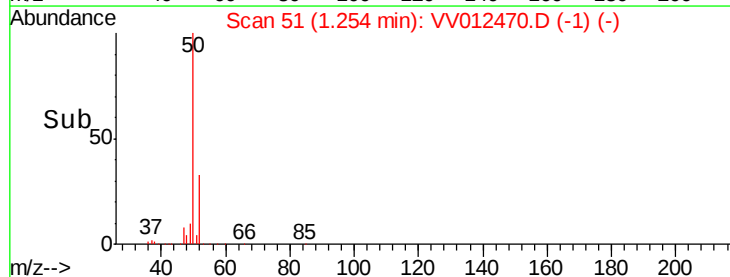
150000

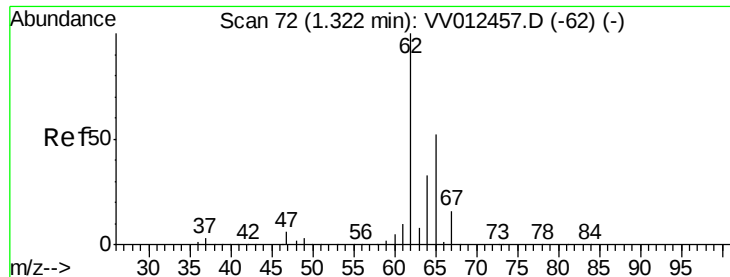
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 5.142 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

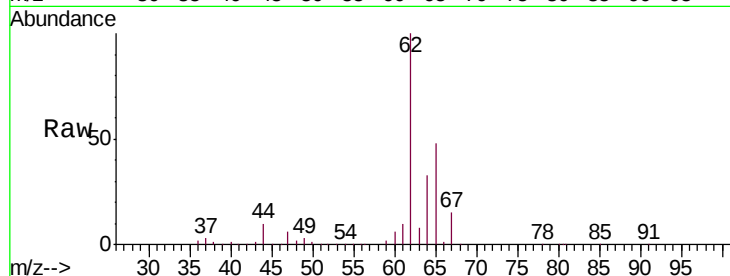
VSTD00557

Tgt Ion: 62 Resp: 136068

Ion Ratio Lower Upper

62 100

64 33.3 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

150000

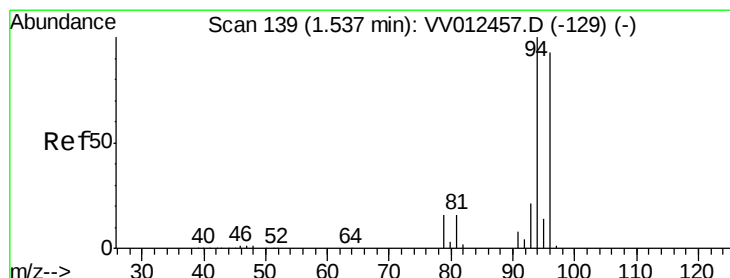
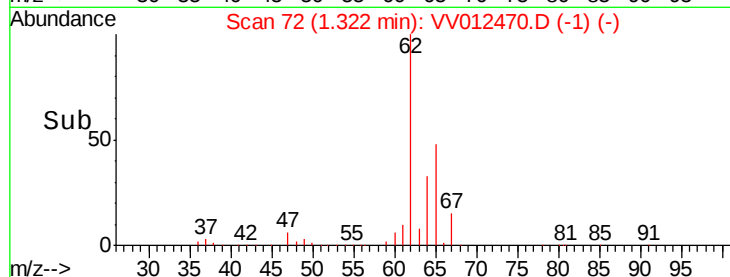
100000

50000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 5.000 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012470.D

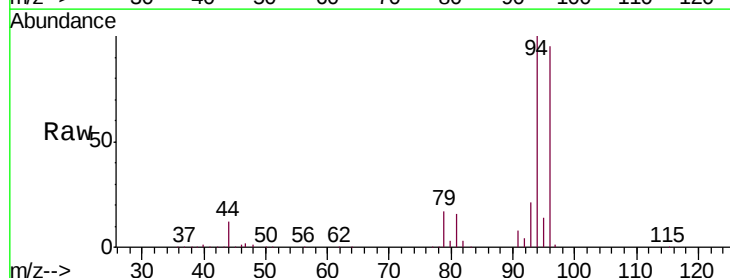
Acq: 30 Aug 2019 23:53

Tgt Ion: 94 Resp: 71855

Ion Ratio Lower Upper

94 100

96 95.1 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

60000

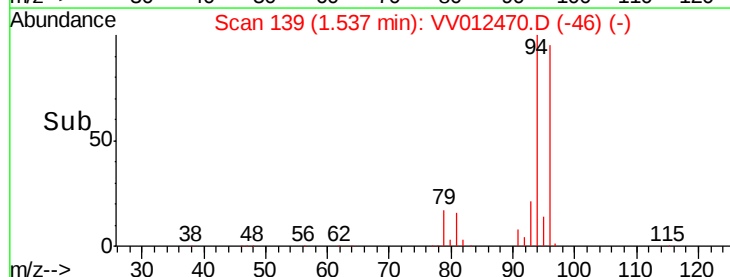
40000

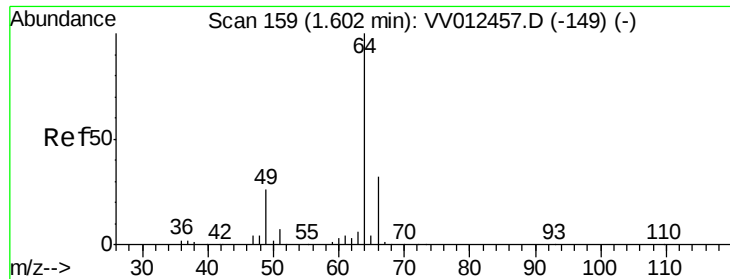
20000

0

Time-->

1.50 1.55 1.60





#8

Chloroethane

Concen: 5.392 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

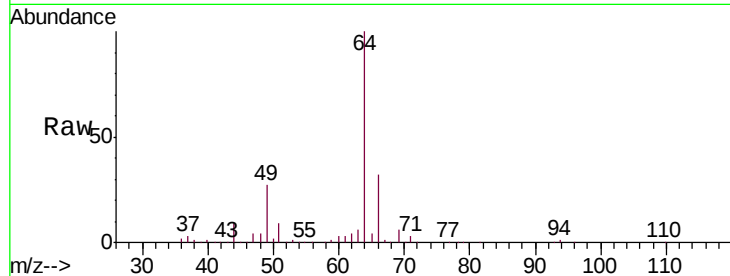
VSTD00557

Tgt Ion: 64 Resp: 76543

Ion Ratio Lower Upper

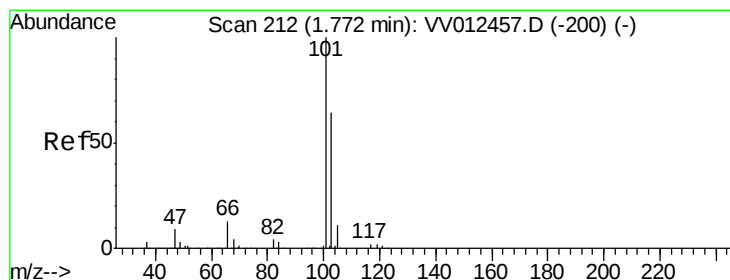
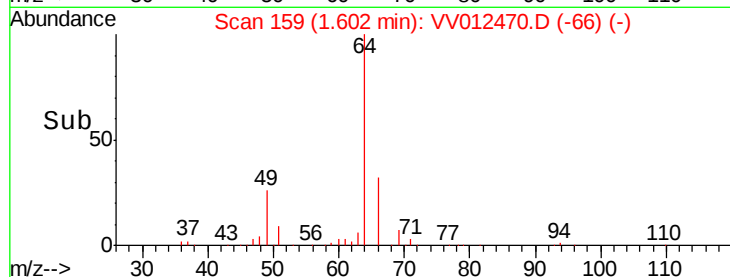
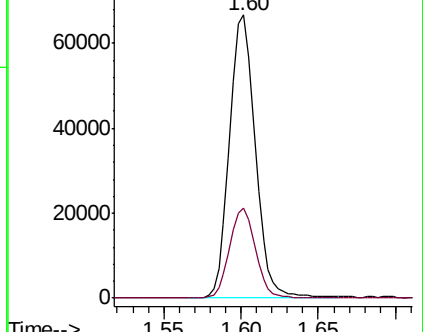
64 100

66 31.7 22.5 41.7



Abundance Ion 64.10 (63.80 to 64.80): VV012470.D (-66) (-)

Ion 66.05 (65.75 to 66.75): VV012470.D (-66) (-)



#9

Trichlorofluoromethane

Concen: 5.383 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012470.D

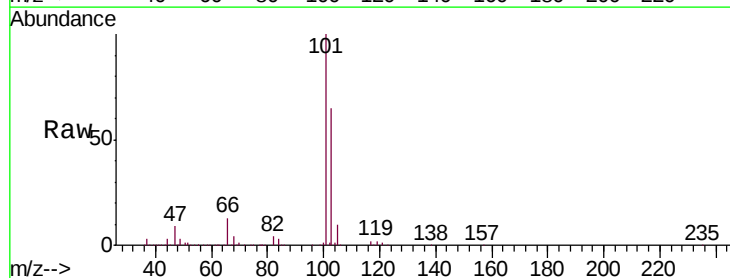
Acq: 30 Aug 2019 23:53

Tgt Ion: 101 Resp: 184497

Ion Ratio Lower Upper

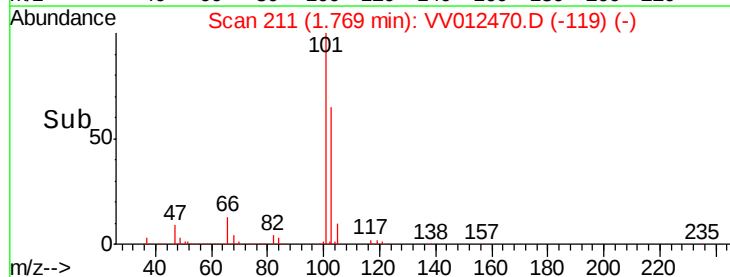
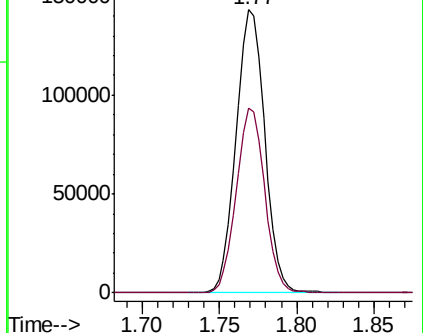
101 100

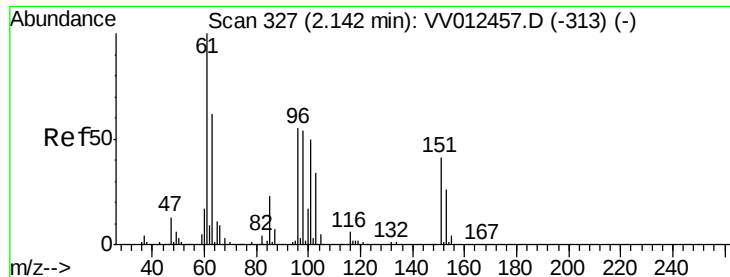
103 64.8 53.0 79.4



Abundance Ion 101.00 (100.70 to 101.70): VV012470.D (-119) (-)

Ion 103.00 (102.70 to 103.70): VV012470.D (-119) (-)





#10

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

Concen: 5.503 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

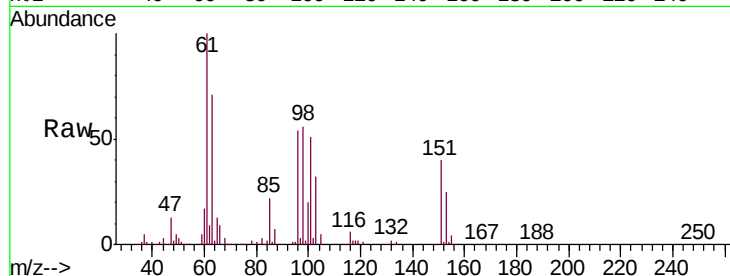
Tgt Ion:101 Resp: 93752

Ion Ratio Lower Upper

101 100

85 43.2 35.4 53.2

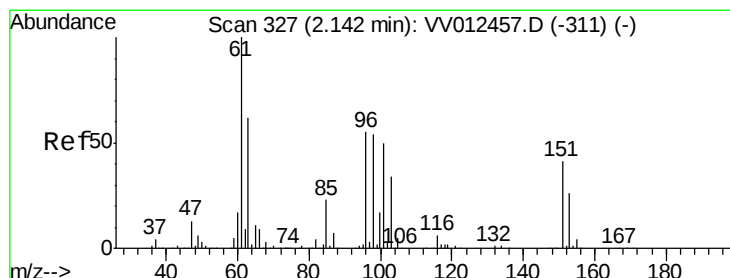
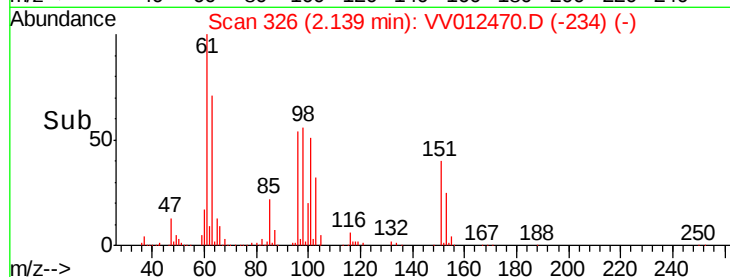
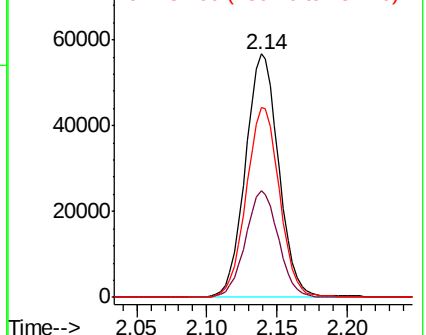
151 78.2 64.4 96.6



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: 5.373 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

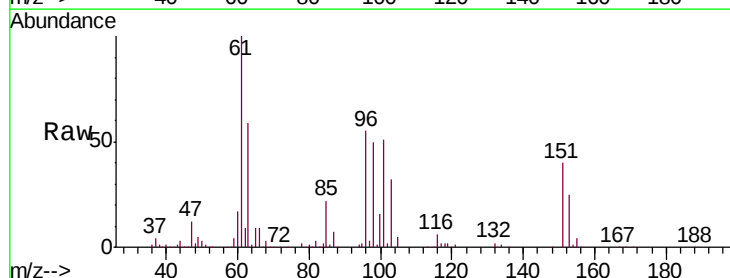
Tgt Ion: 96 Resp: 86299

Ion Ratio Lower Upper

96 100

61 181.6 127.8 237.4

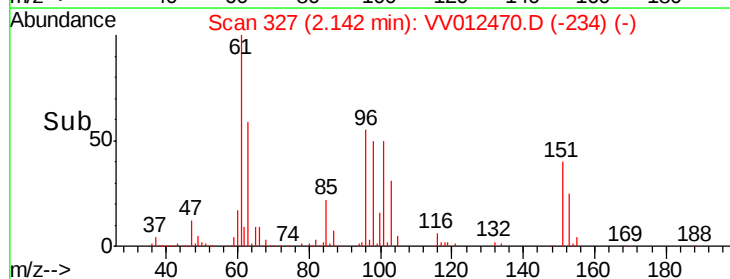
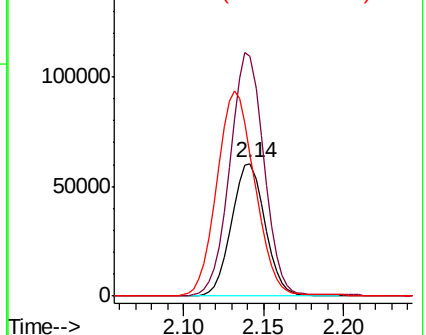
63 106.5 78.2 145.2

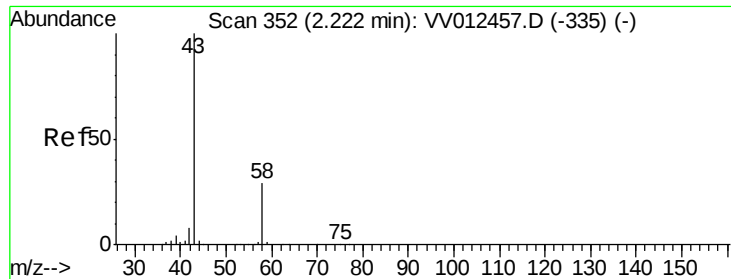


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 51.622 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

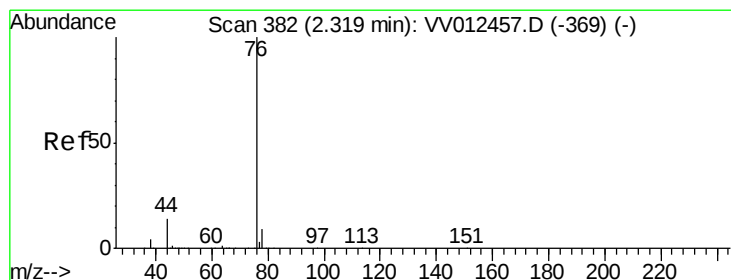
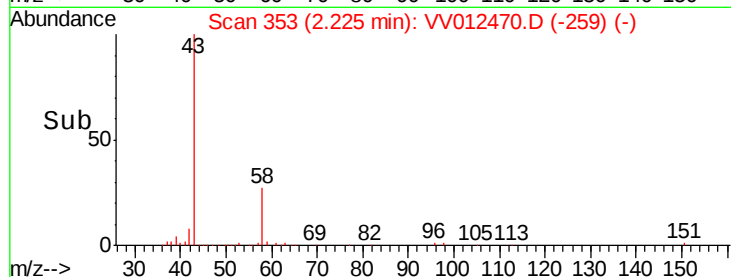
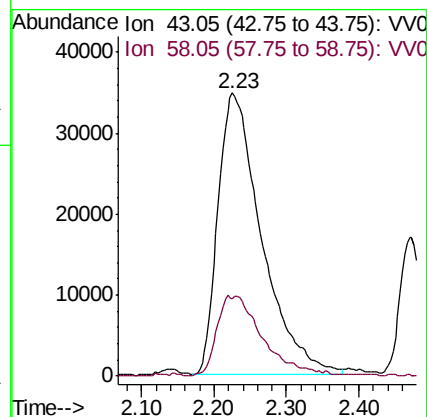
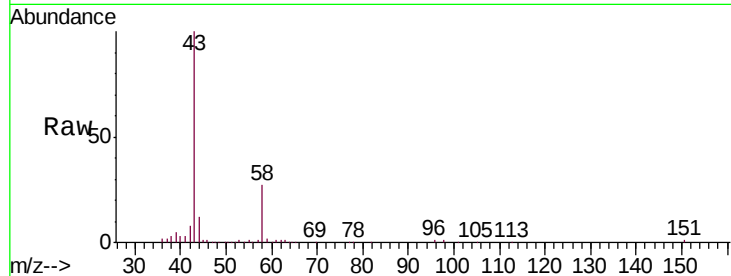
VSTD00557

Tgt Ion: 43 Resp: 145214

Ion Ratio Lower Upper

43 100

58 10.6 0.0 56.8



#14

Carbon disulfide

Concen: 5.288 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012470.D

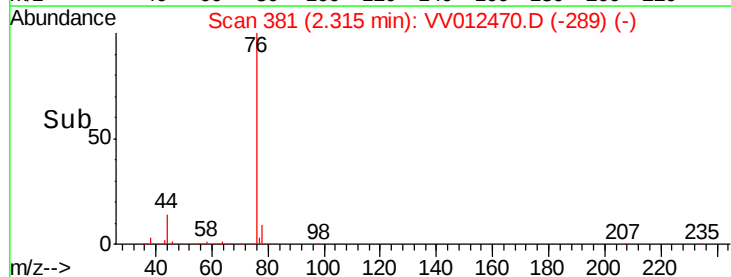
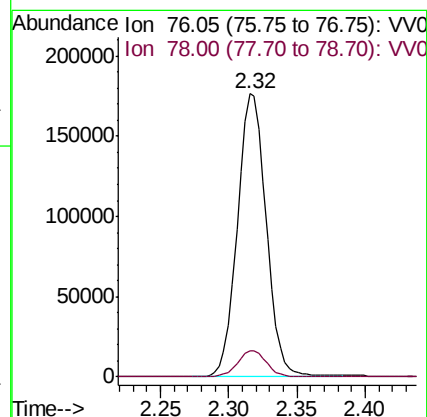
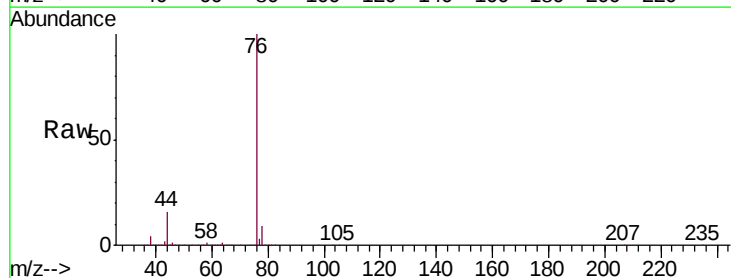
Acq: 30 Aug 2019 23:53

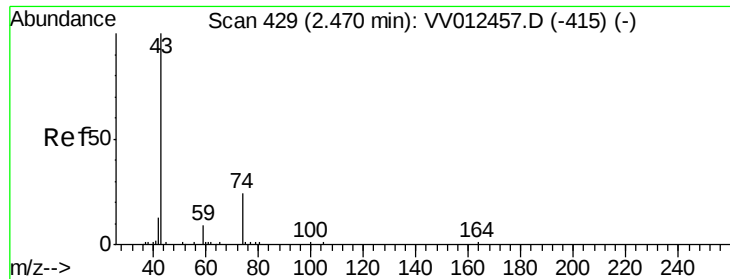
Tgt Ion: 76 Resp: 259619

Ion Ratio Lower Upper

76 100

78 9.2 7.2 10.8

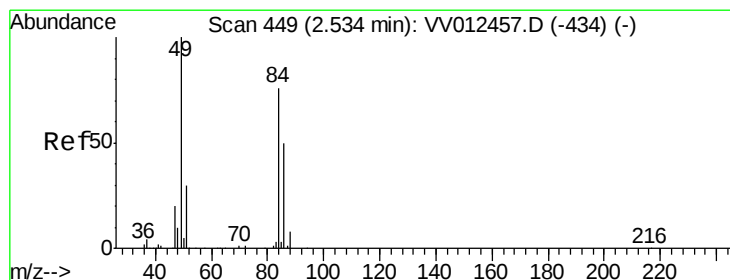
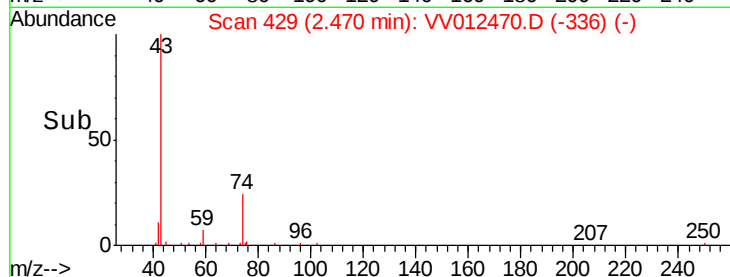
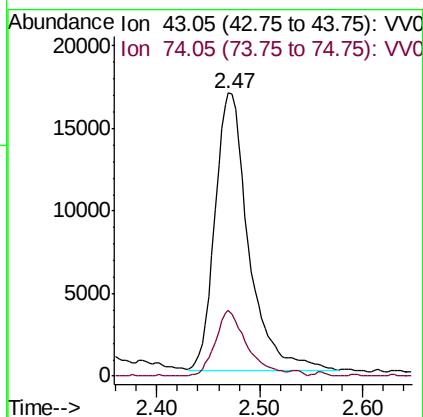
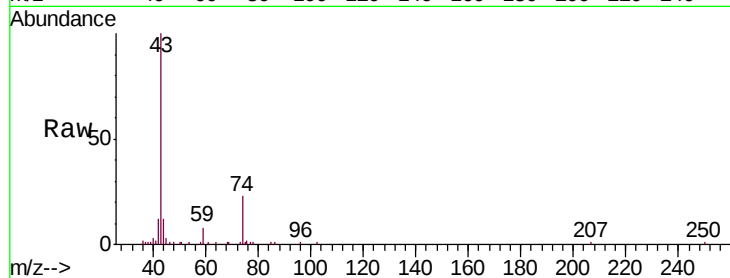




#15
Methyl Acetate
Concen: 5.481 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

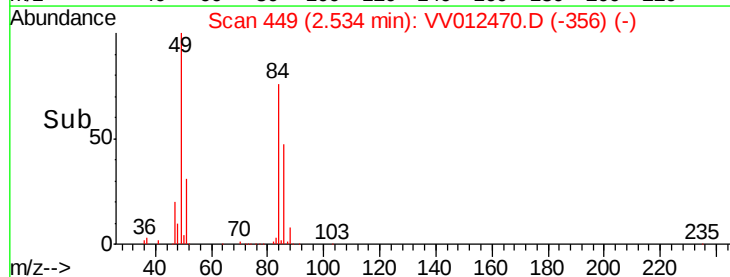
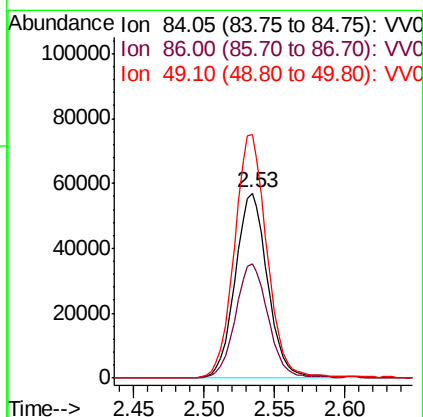
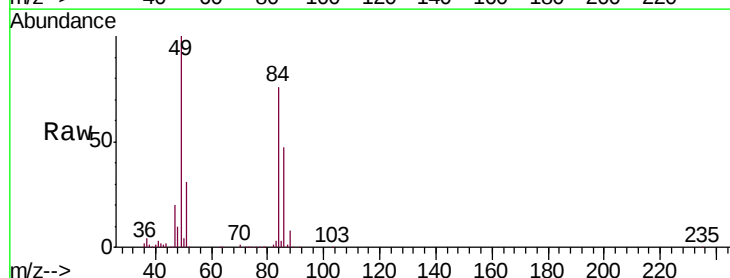
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

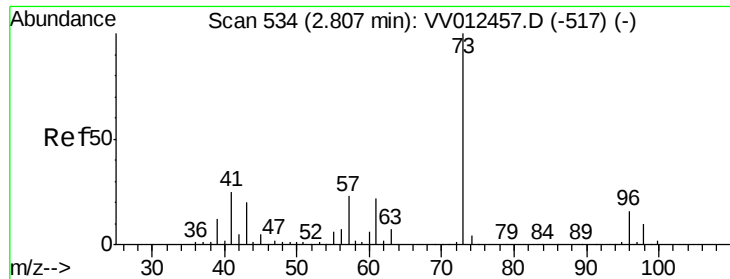
Tgt Ion: 43 Resp: 37959
Ion Ratio Lower Upper
43 100
74 22.6 18.1 27.1



#16
Methylene chloride
Concen: 5.002 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

Tgt Ion: 84 Resp: 91858
Ion Ratio Lower Upper
84 100
86 61.6 45.2 84.0
49 131.5 95.1 176.7





#17

Methyl tert-butyl Ether

Concen: 5.200 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

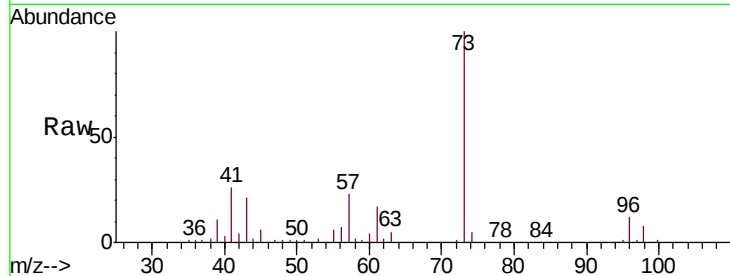
Tgt Ion: 73 Resp: 229560

Ion Ratio Lower Upper

73 100

43 20.4 16.1 24.1

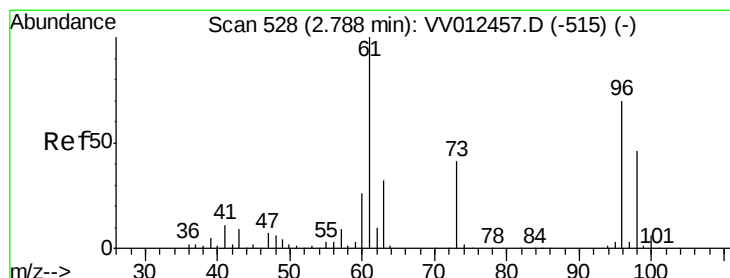
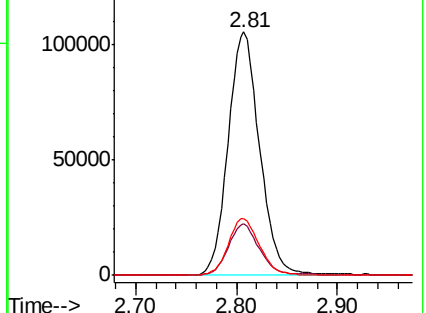
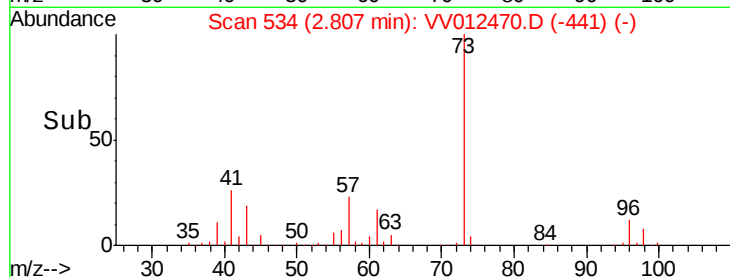
57 23.3 18.8 28.2



Abundance Ion 73.10 (72.80 to 73.80): VV012470.D (-441) (-)

Ion 43.05 (42.75 to 43.75): VV012470.D (-441) (-)

Ion 57.10 (56.80 to 57.80): VV012470.D (-441) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.242 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

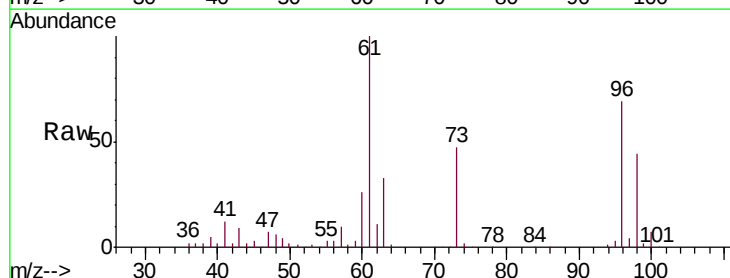
Tgt Ion: 96 Resp: 107843

Ion Ratio Lower Upper

96 100

61 144.4 101.2 188.0

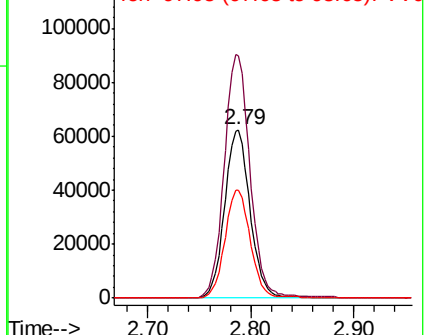
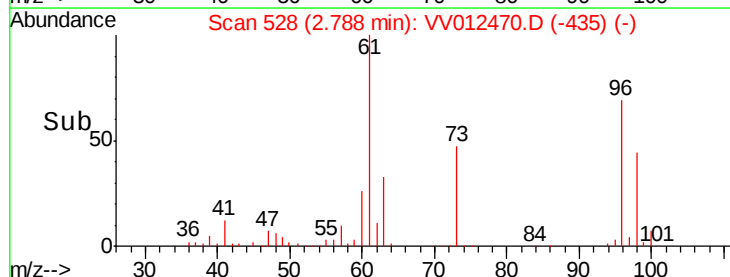
98 64.0 44.1 81.9

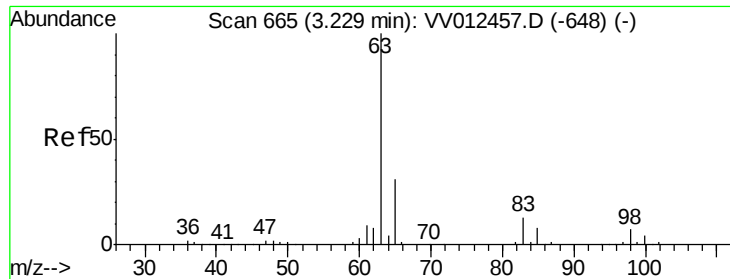


Abundance Ion 96.00 (95.70 to 96.70): VV012470.D (-435) (-)

Ion 61.05 (60.75 to 61.75): VV012470.D (-435) (-)

Ion 97.95 (97.65 to 98.65): VV012470.D (-435) (-)

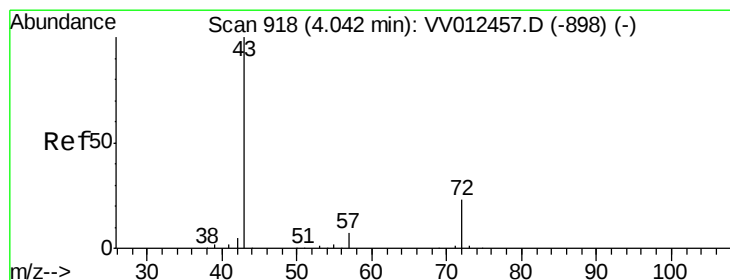
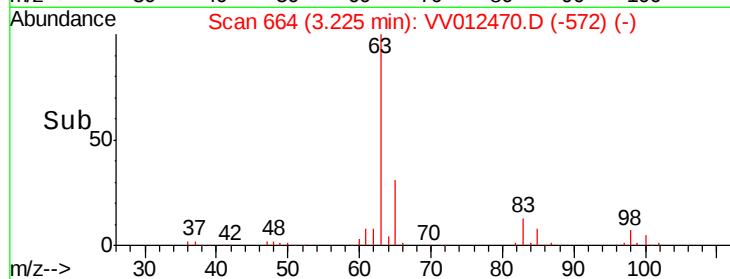
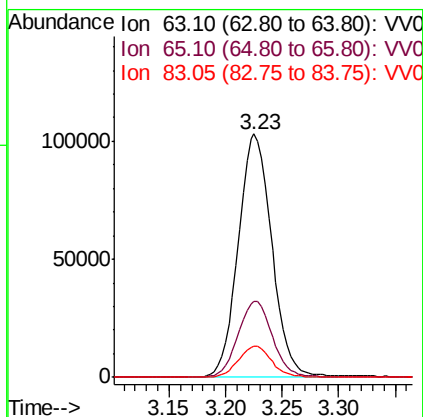
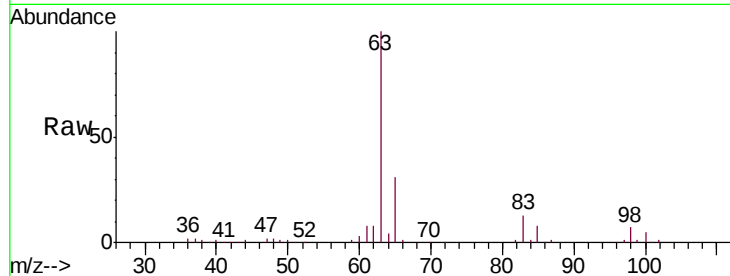




#19
 1,1-Dichloroethane
 Concen: 5.303 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

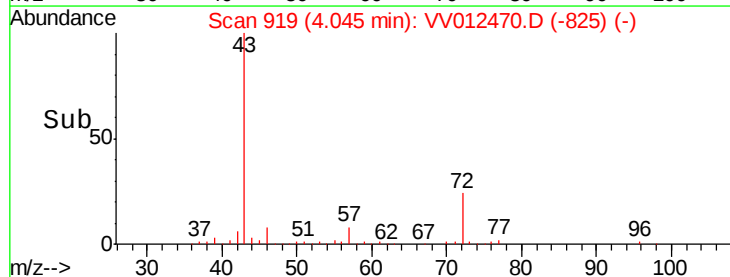
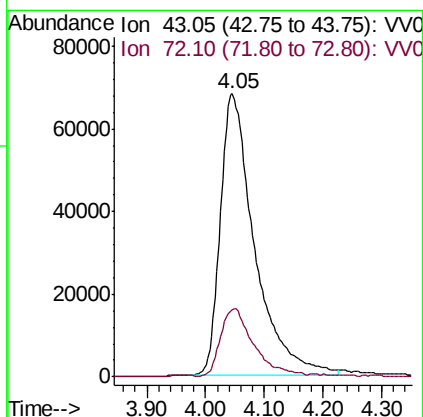
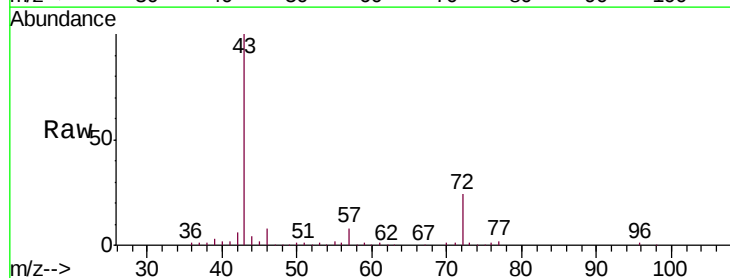
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

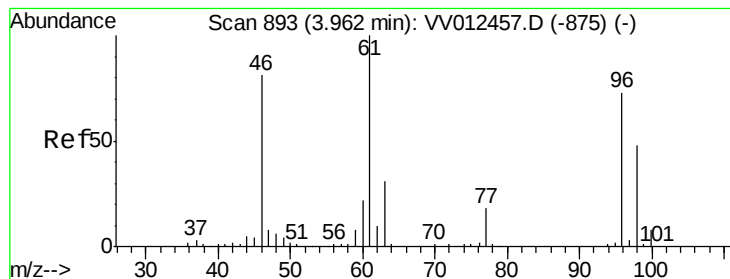
Tgt Ion: 63 Resp: 213526
 Ion Ratio Lower Upper
 63 100
 65 31.2 21.6 40.2
 83 13.0 9.0 16.8



#21
 2-Butanone
 Concen: 53.329 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion: 43 Resp: 275777
 Ion Ratio Lower Upper
 43 100
 72 23.1 11.8 35.3



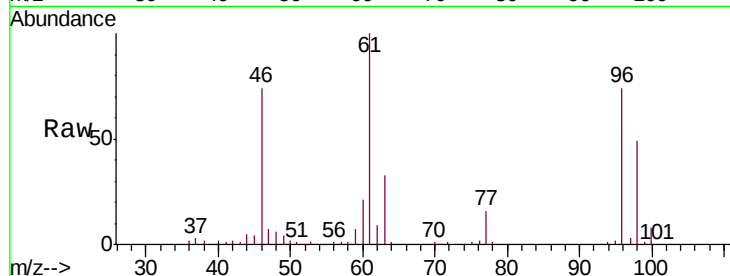


#22

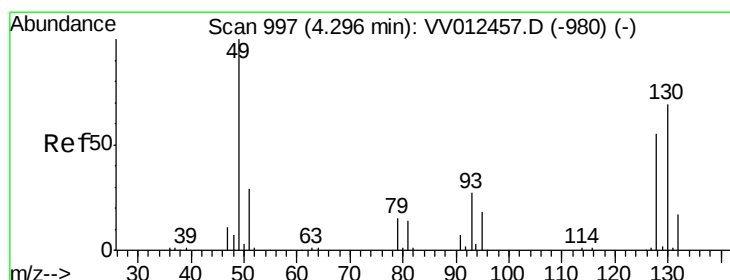
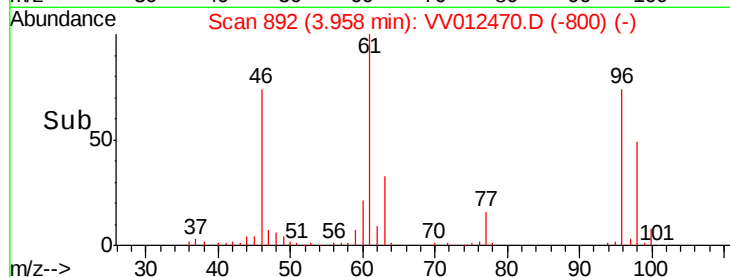
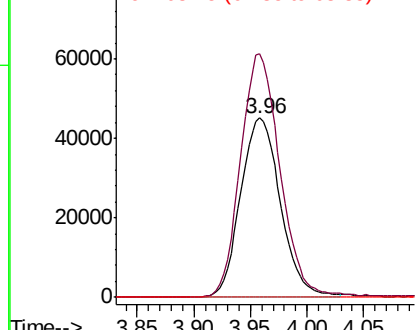
cis-1,2-Dichloroethene
 Concen: 5.149 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

Tgt Ion: 96 Resp: 110878
 Ion Ratio Lower Upper
 96 100
 61 135.7 91.5 169.9
 68 0.0 0.0 0.0



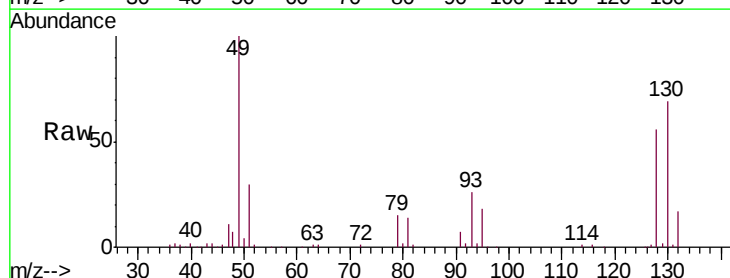
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



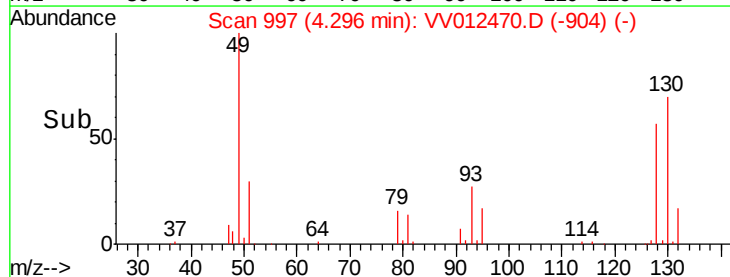
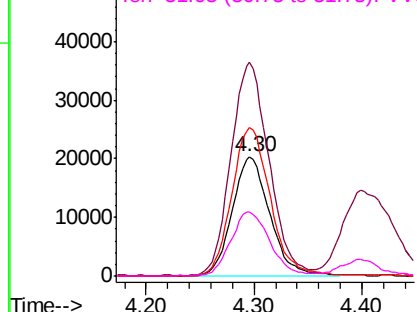
#23

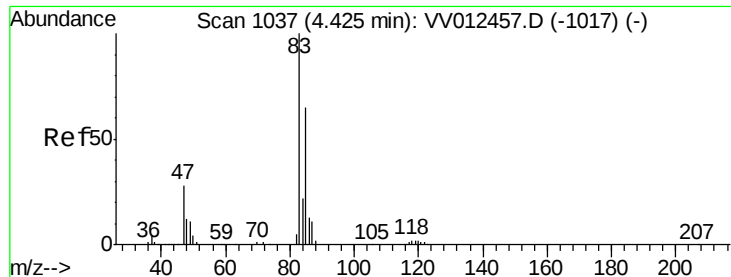
Bromochloromethane
 Concen: 5.281 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion: 128 Resp: 49391
 Ion Ratio Lower Upper
 128 100
 49 178.7 127.7 237.3
 130 123.8 84.1 156.1
 51 53.8 48.0 72.0



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

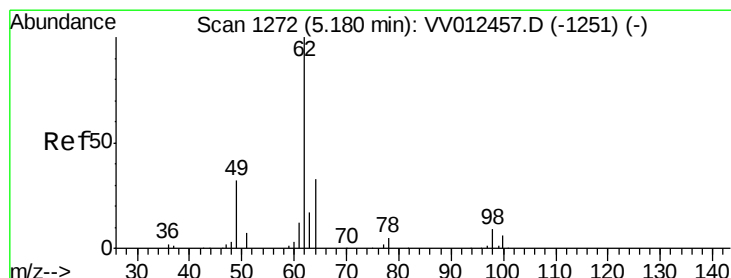
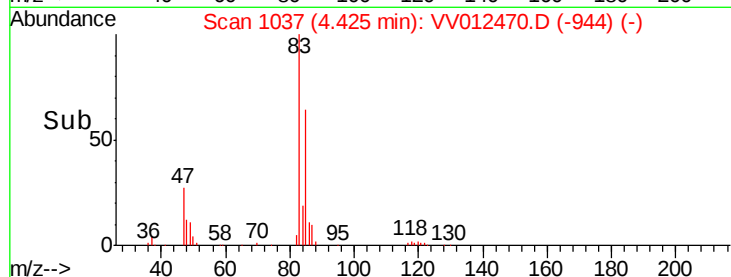
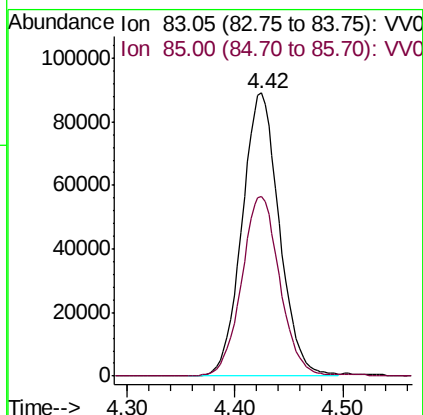
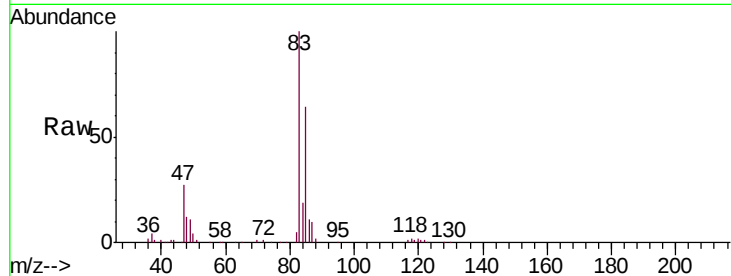




#25
Chloroform
Concen: 5.060 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

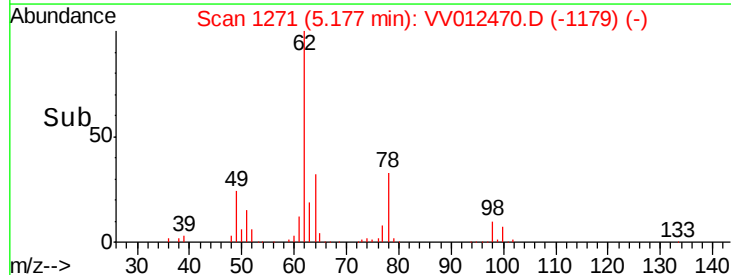
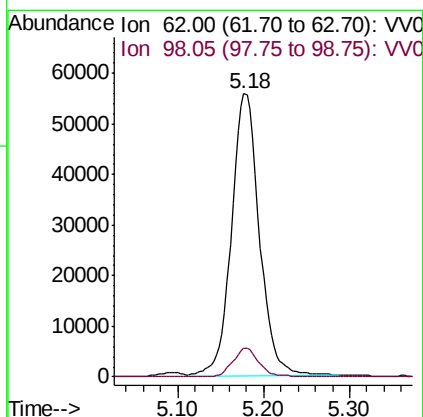
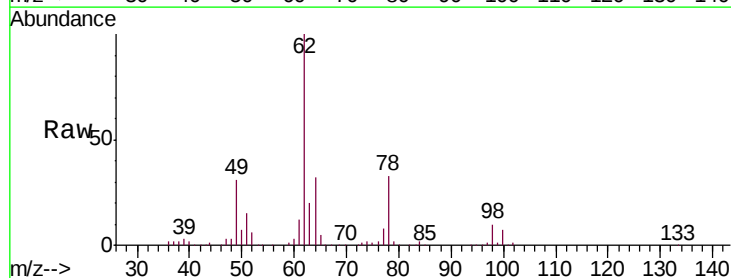
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

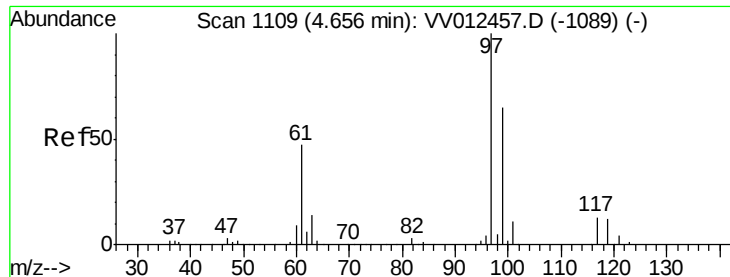
Tgt Ion: 83 Resp: 213452
Ion Ratio Lower Upper
83 100
85 63.5 45.4 84.4



#27
1,2-Dichloroethane
Concen: 5.334 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

Tgt Ion: 62 Resp: 126188
Ion Ratio Lower Upper
62 100
98 10.1 8.3 12.5

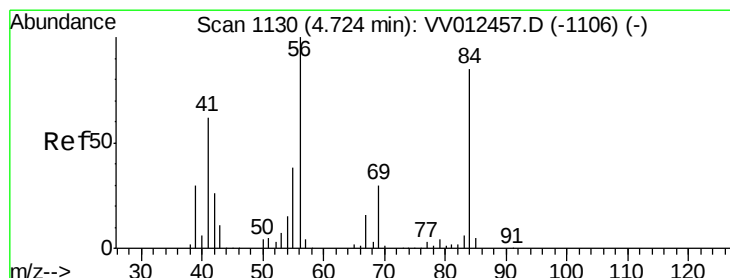
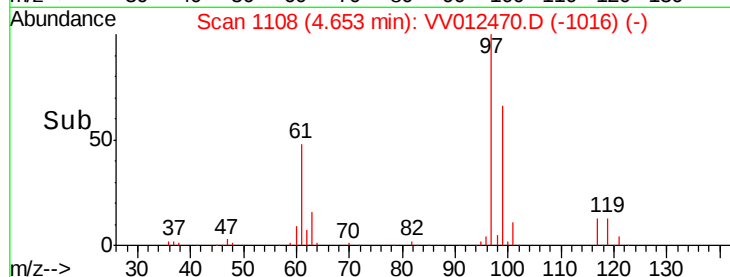
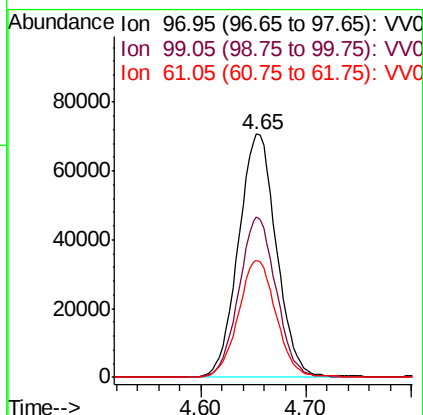
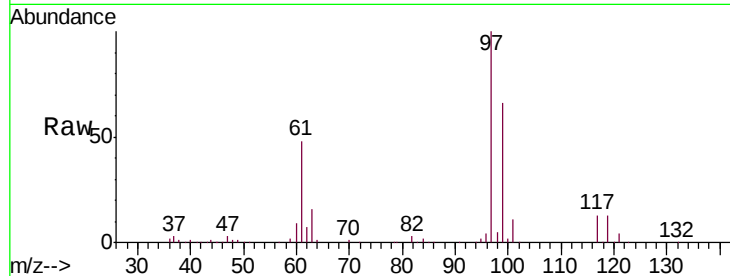




#29
 1,1,1-Trichloroethane
 Concen: 5.198 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

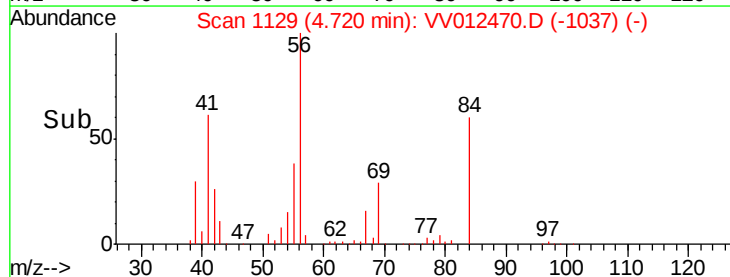
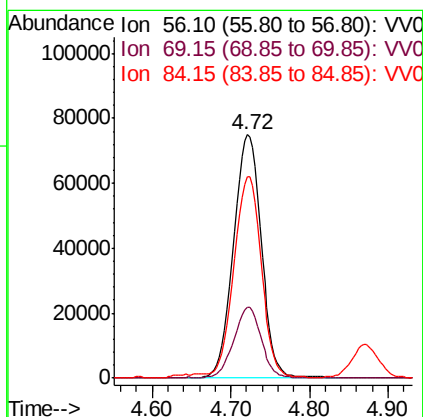
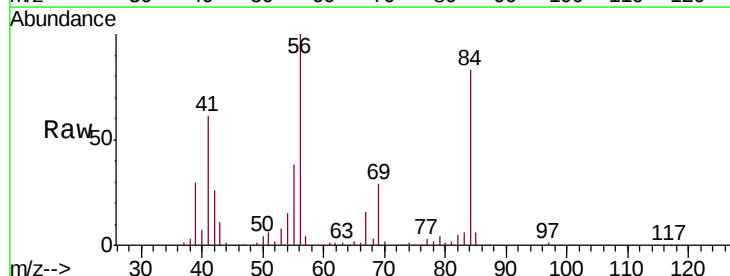
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

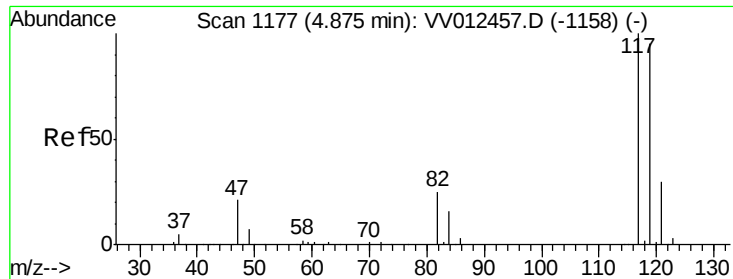
Tgt Ion: 97 Resp: 176965
 Ion Ratio Lower Upper
 97 100
 99 64.4 49.8 74.6
 61 47.7 36.7 55.1



#30
 Cyclohexane
 Concen: 5.400 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion: 56 Resp: 185336
 Ion Ratio Lower Upper
 56 100
 69 28.7 24.4 36.6
 84 81.5 67.8 101.6

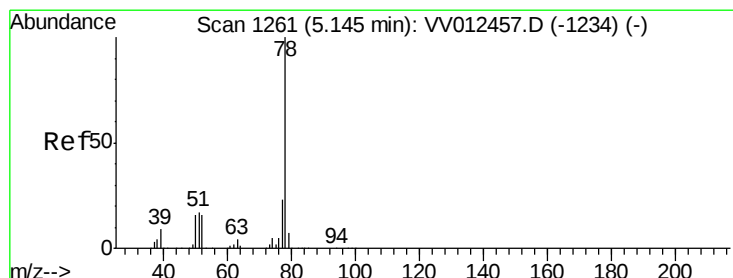
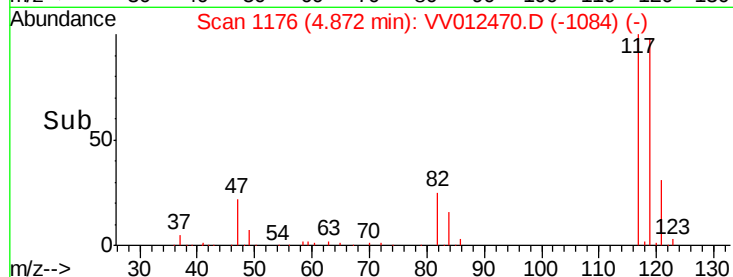
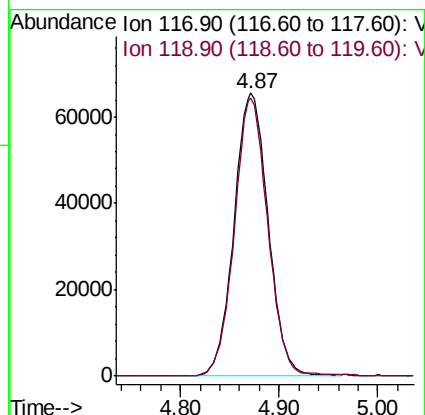
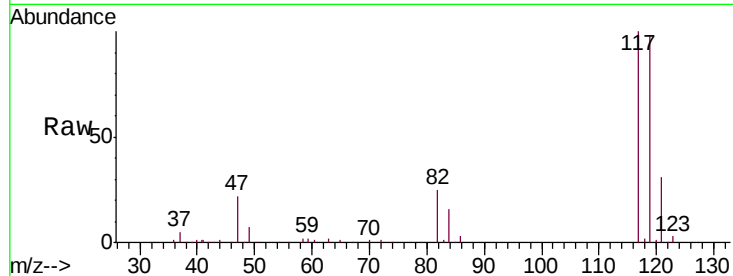




#31
Carbon tetrachloride
Concen: 5.242 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

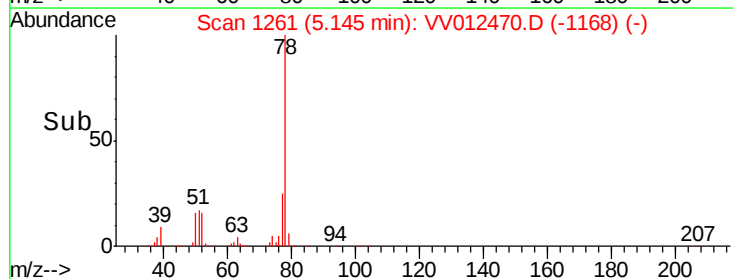
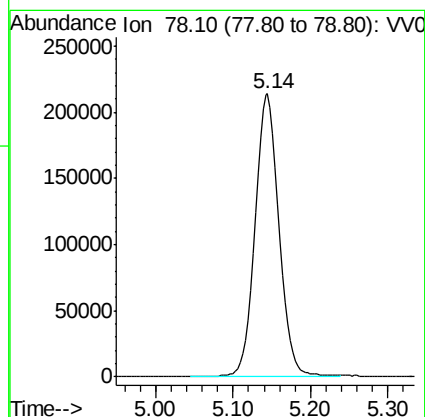
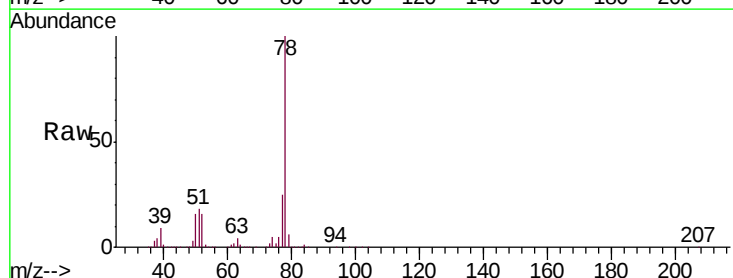
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

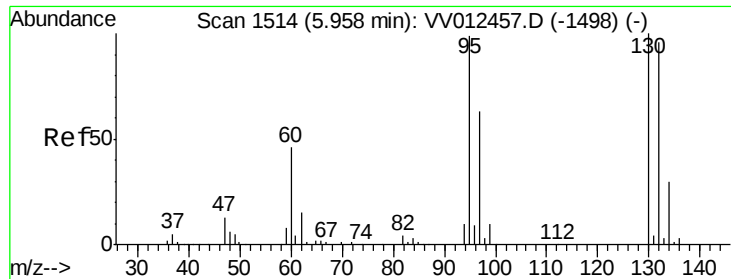
Tgt Ion:117 Resp: 157009
Ion Ratio Lower Upper
117 100
119 96.2 77.8 116.8



#33
Benzene
Concen: 5.369 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

Tgt Ion: 78 Resp: 467135





#34

Trichloroethene

Concen: 5.216 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

Tgt Ion: 95 Resp: 115624

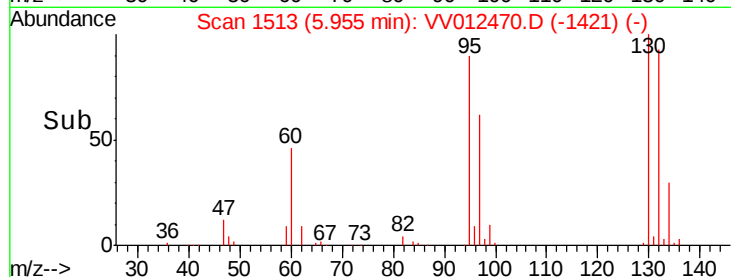
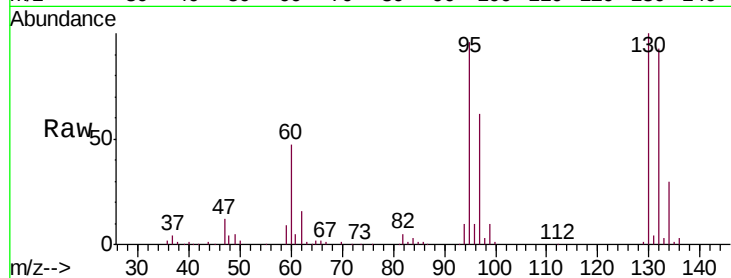
Ion Ratio Lower Upper

95 100

97 64.7 45.8 85.2

132 97.7 68.3 126.9

130 104.6 72.0 133.8

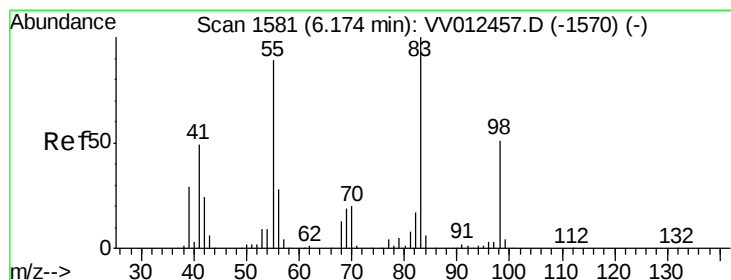
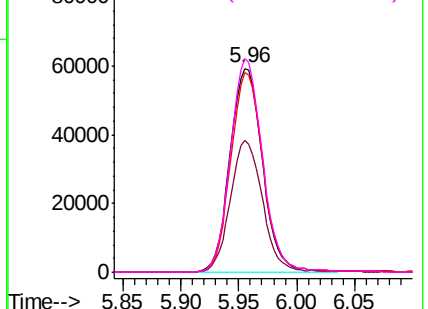


Abundance Ion 95.00 (94.70 to 95.70): VV012470.D (-1421) (-)

Ion 96.95 (96.65 to 97.65): VV012470.D (-1421) (-)

Ion 131.95 (131.65 to 132.65): VV012470.D (-1421) (-)

Ion 129.95 (129.65 to 130.65): VV012470.D (-1421) (-)



#35

Methylcyclohexane

Concen: 5.434 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

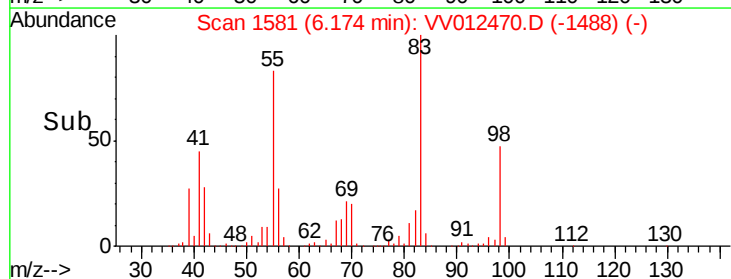
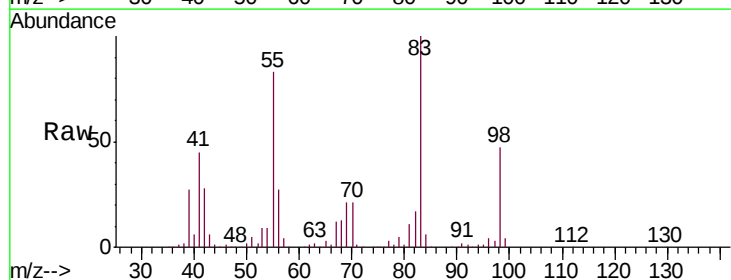
Tgt Ion: 83 Resp: 183286

Ion Ratio Lower Upper

83 100

55 82.6 67.8 101.6

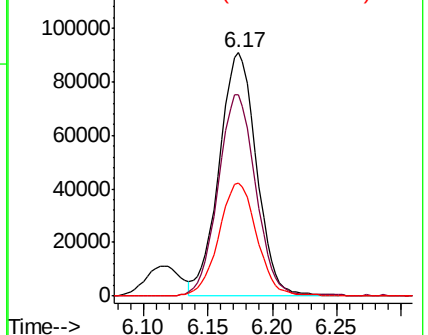
98 47.4 39.2 58.8

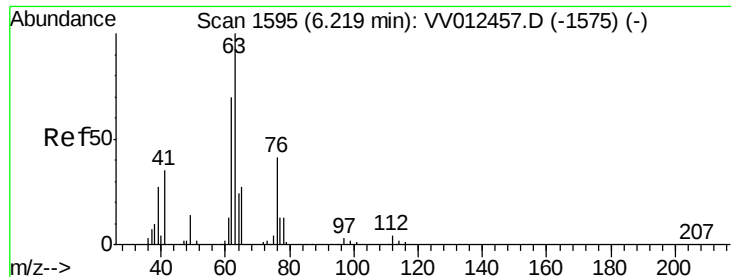


Abundance Ion 83.15 (82.85 to 83.85): VV012470.D (-1488) (-)

Ion 55.10 (54.80 to 55.80): VV012470.D (-1488) (-)

Ion 98.15 (97.85 to 98.85): VV012470.D (-1488) (-)





#37

1,2-Dichloropropane

Concen: 5.330 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

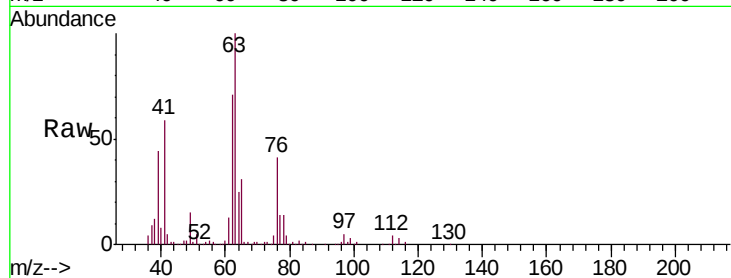
VSTD00557

Tgt Ion: 63 Resp: 120936

Ion Ratio Lower Upper

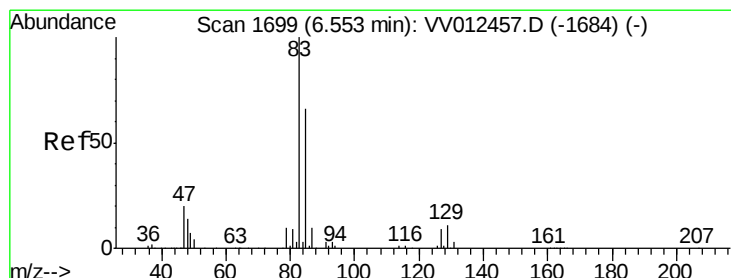
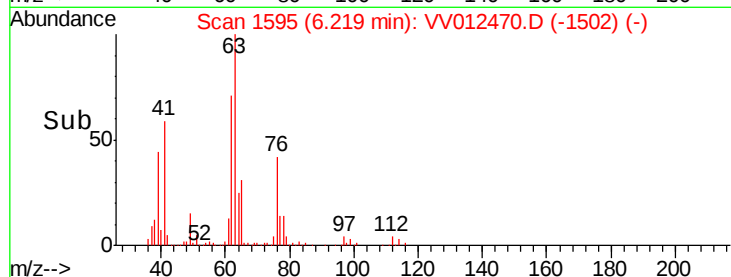
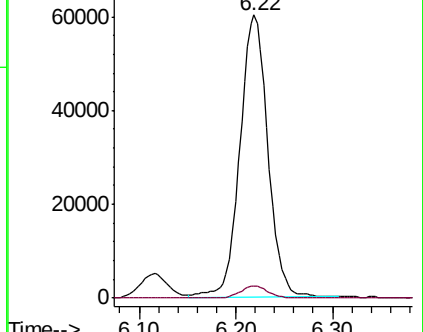
63 100

112 4.4 3.7 5.5



Abundance Ion 63.10 (62.80 to 63.80): VV012457.D (-1575) (-)

Ion 112.10 (111.80 to 112.80): VV012457.D (-1575) (-)



#38

Bromodichloromethane

Concen: 5.155 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

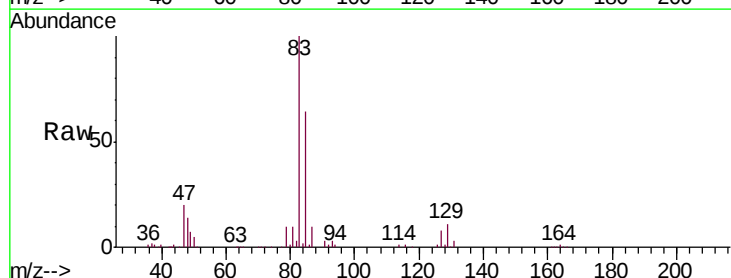
Tgt Ion: 83 Resp: 145482

Ion Ratio Lower Upper

83 100

85 64.0 45.4 84.4

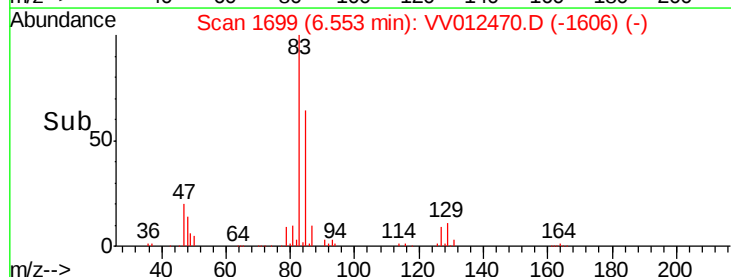
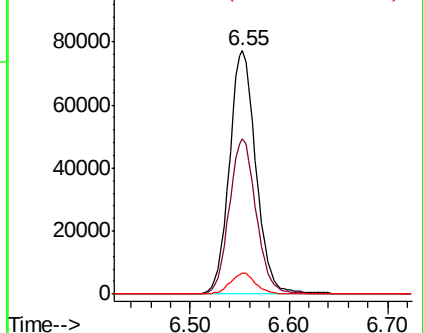
127 8.5 6.4 9.6

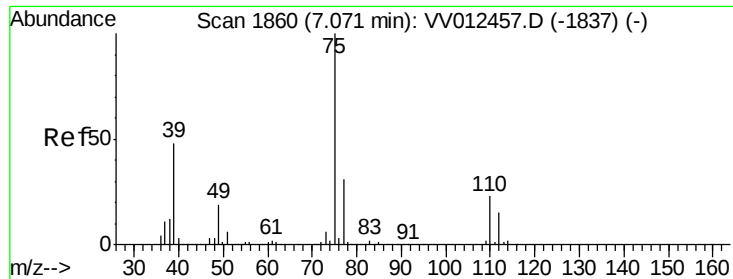


Abundance Ion 82.95 (82.65 to 83.65): VV012457.D (-1684) (-)

Ion 85.00 (84.70 to 85.70): VV012457.D (-1684) (-)

Ion 126.90 (126.60 to 127.60): VV012457.D (-1684) (-)

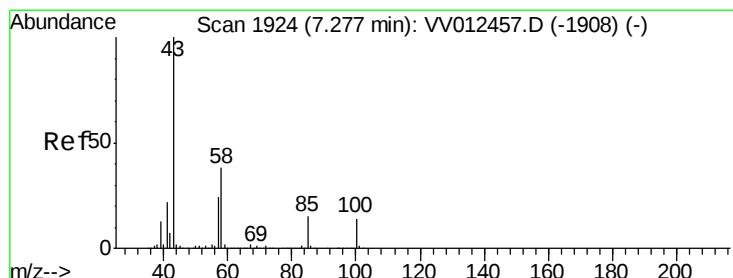
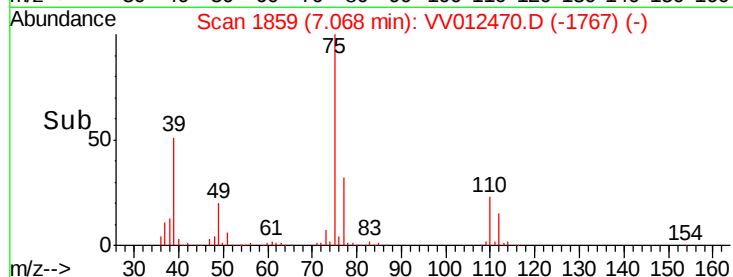
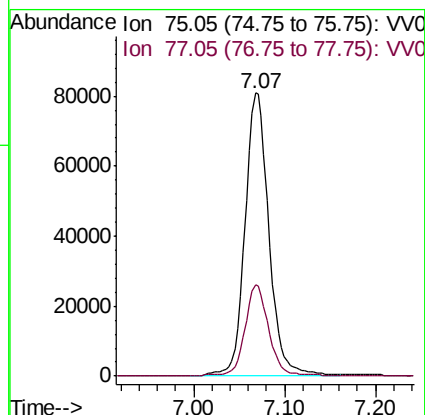
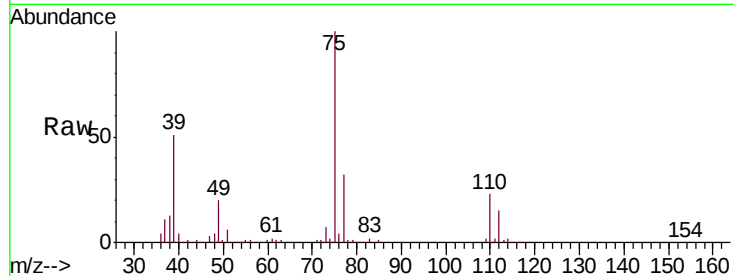




#39
 cis-1,3-Dichloropropene
 Concen: 5.054 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

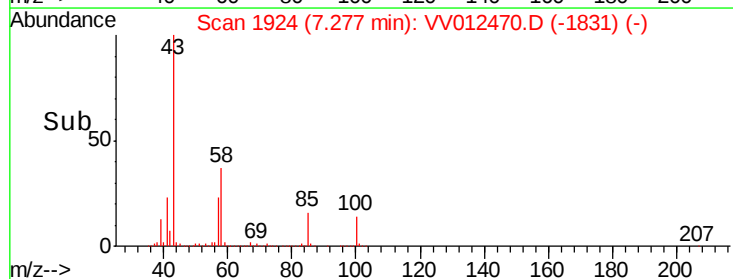
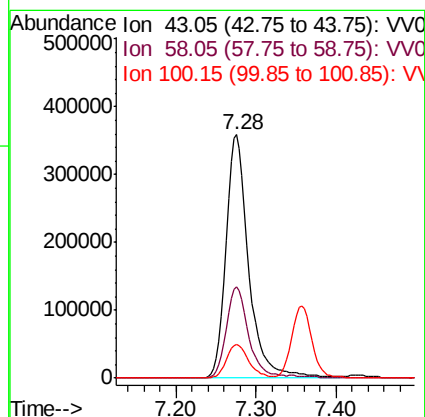
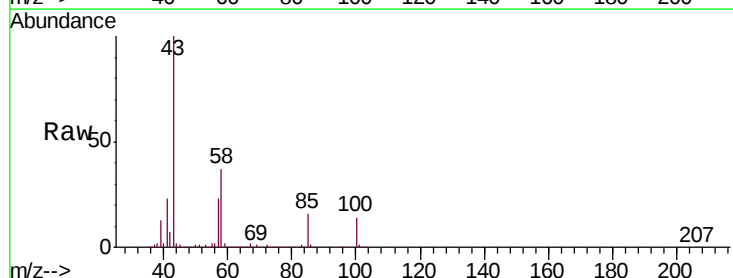
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

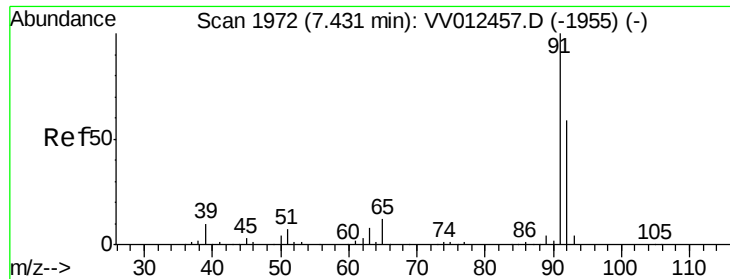
Tgt Ion: 75 Resp: 148377
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 54.619 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion: 43 Resp: 702435
 Ion Ratio Lower Upper
 43 100
 58 36.5 29.7 44.5
 100 13.5 10.8 16.2





#42

Toluene

Concen: 5.552 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

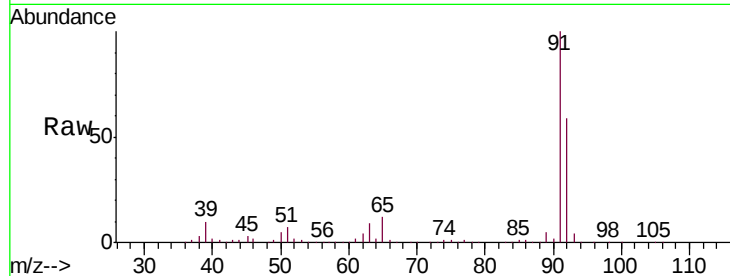
VSTD00557

Tgt Ion: 91 Resp: 494486

Ion Ratio Lower Upper

91 100

92 58.6 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

300000

250000

200000

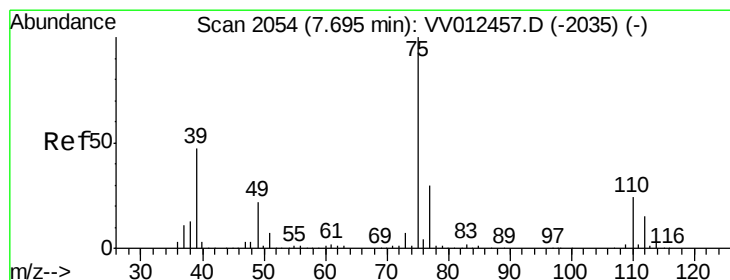
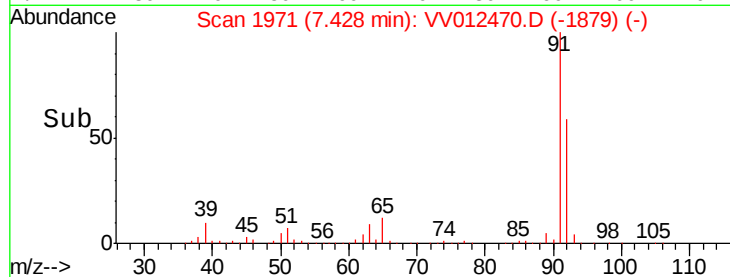
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.133 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012470.D

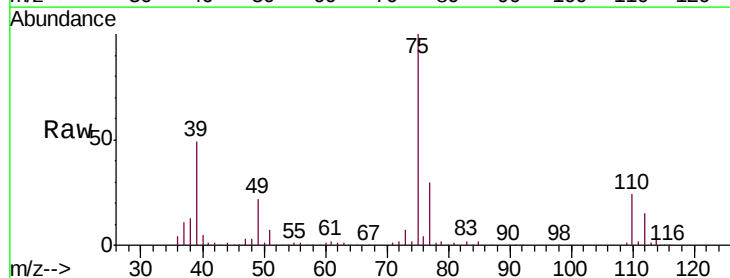
Acq: 30 Aug 2019 23:53

Tgt Ion: 75 Resp: 117056

Ion Ratio Lower Upper

75 100

77 30.4 20.6 38.4



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

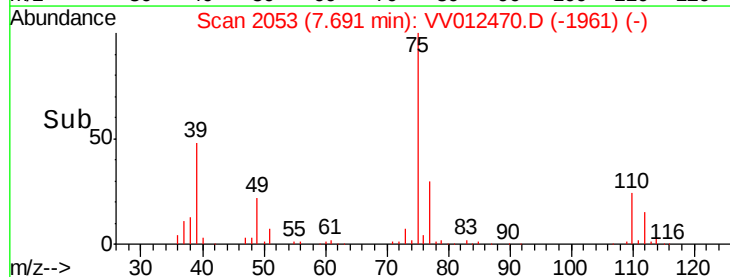
60000

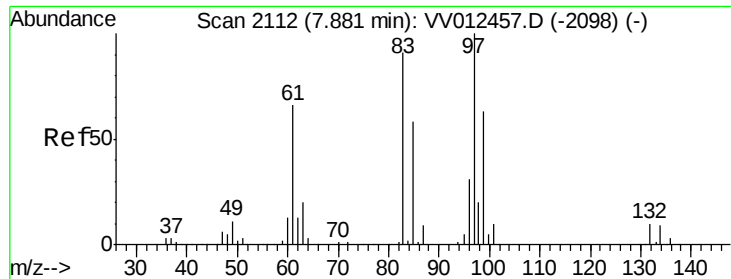
40000

20000

0

Time-->

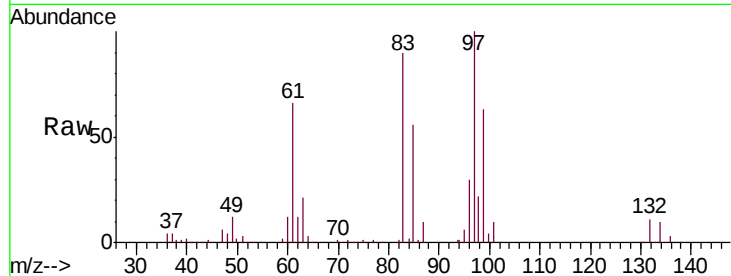




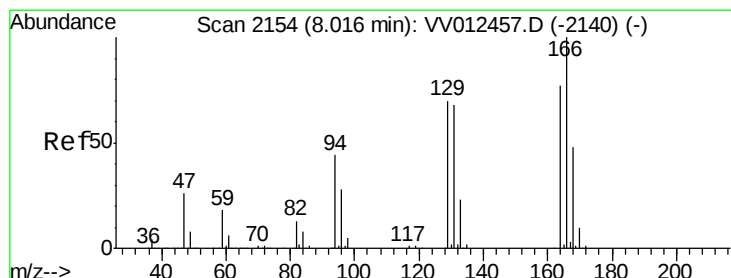
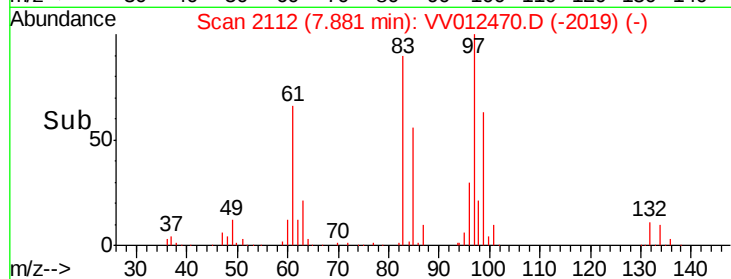
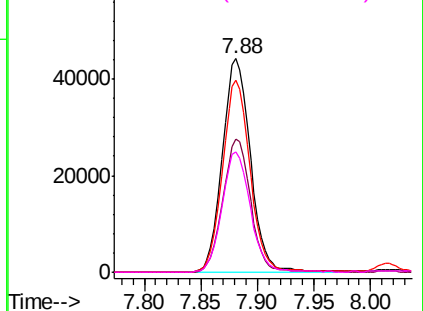
#45
 1,1,2-Trichloroethane
 Concen: 5.099 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

Tgt Ion:	97	Resp:	76754
Ion	Ratio	Lower	Upper
97	100		
99	62.5	43.3	80.3
83	89.8	61.2	113.6
85	56.1	40.0	74.4

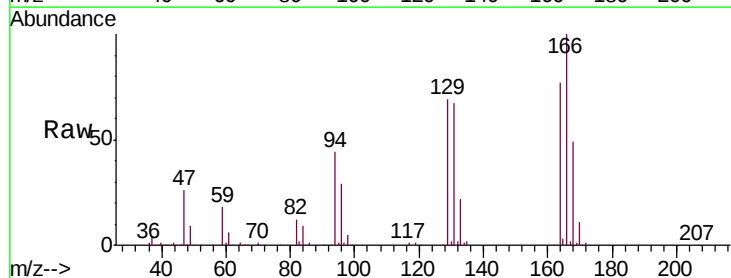


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

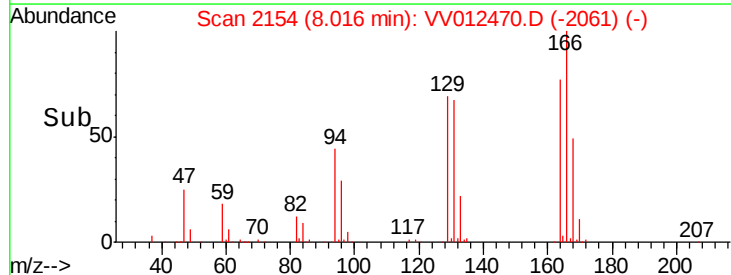
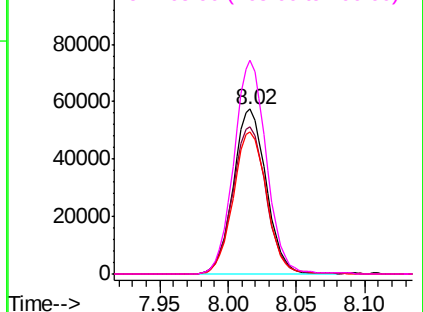


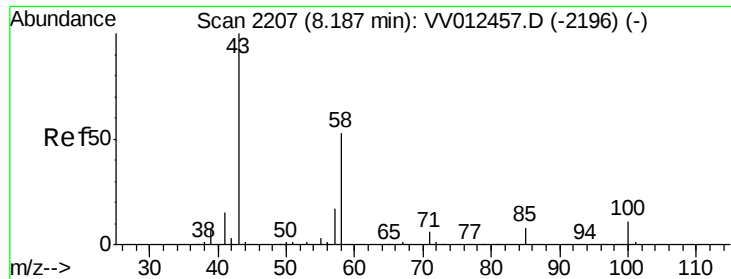
#47
 Tetrachloroethene
 Concen: 5.445 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion:	164	Resp:	96633
Ion	Ratio	Lower	Upper
164	100		
129	89.5	65.6	121.8
131	86.6	63.3	117.5
166	129.8	89.4	166.0



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

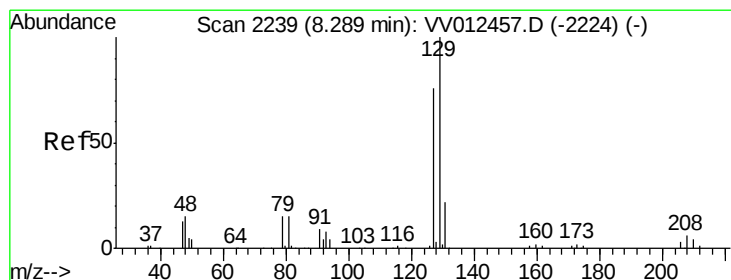
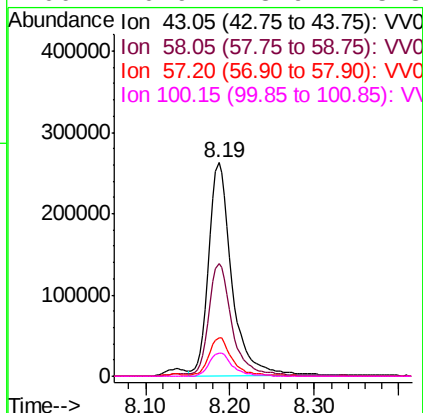
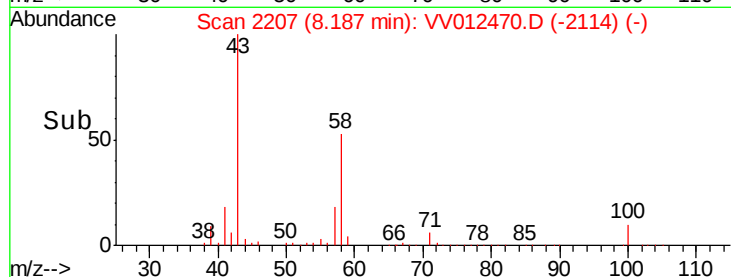
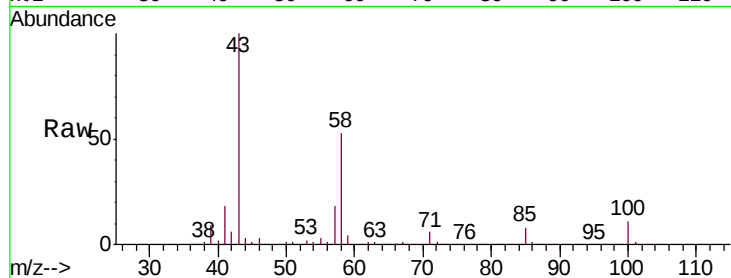




#48
2-Hexanone
Concen: 56.955 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

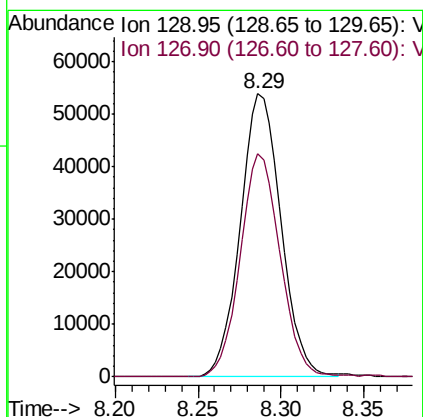
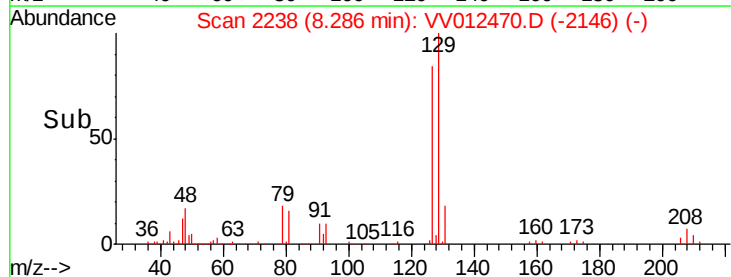
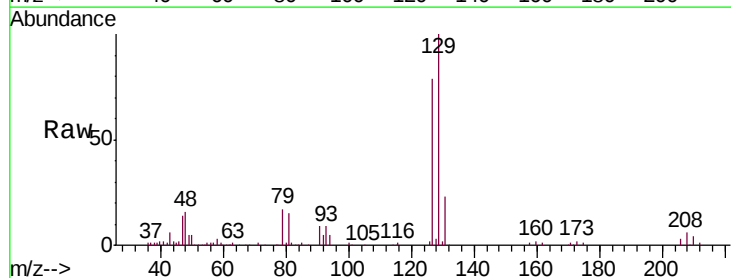
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

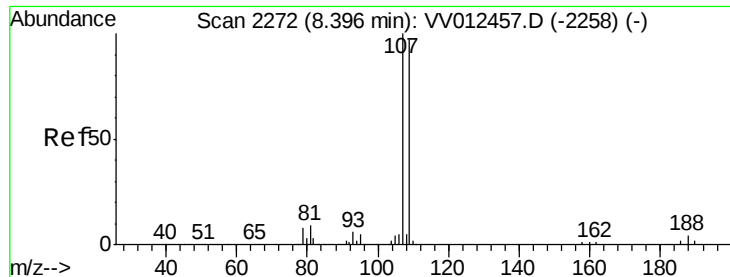
Tgt Ion: 43 Resp: 498871
Ion Ratio Lower Upper
43 100
58 55.2 43.6 65.4
57 17.7 14.2 21.2
100 10.9 8.9 13.3



#49
Dibromochloromethane
Concen: 5.320 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

Tgt Ion: 129 Resp: 92208
Ion Ratio Lower Upper
129 100
127 78.7 53.6 99.6

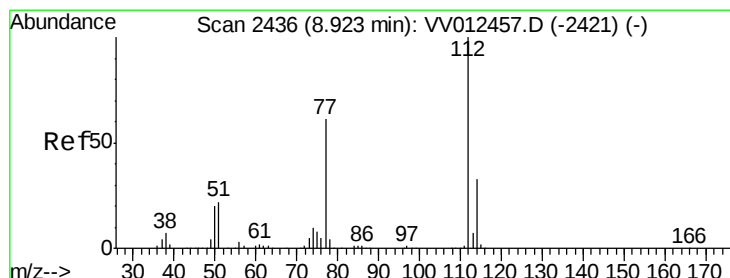
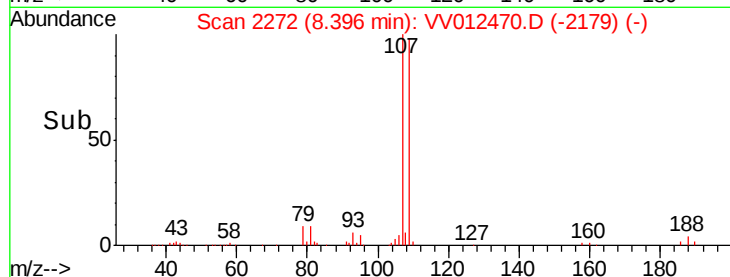
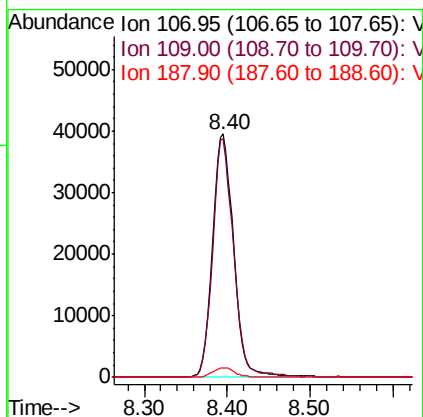
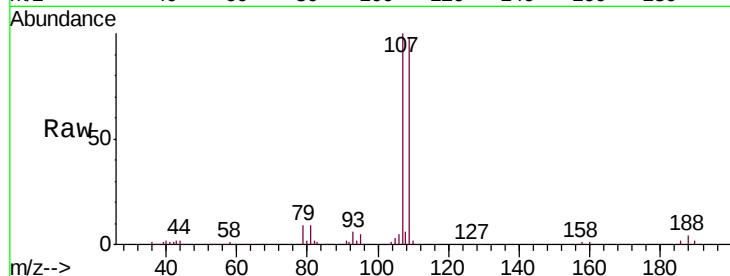




#50
1,2-Dibromoethane
Concen: 5.267 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

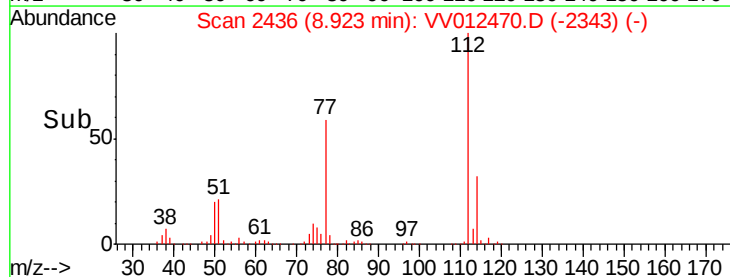
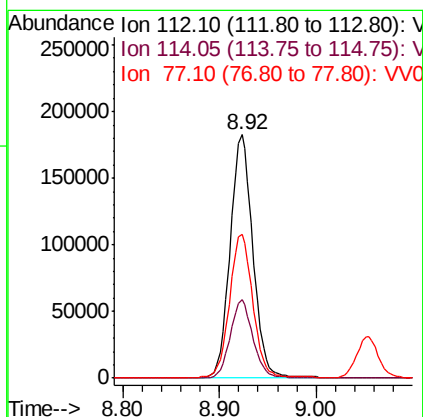
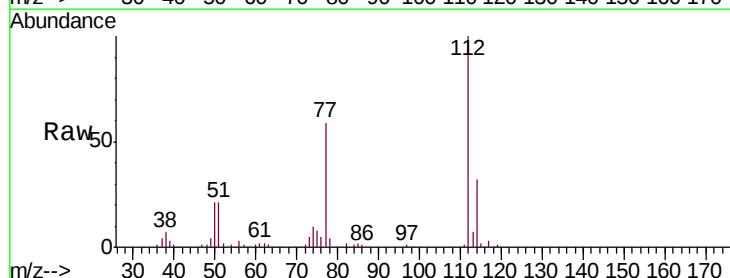
Instrument :
MSVOA_V
ClientSampleId :
VSTD00557

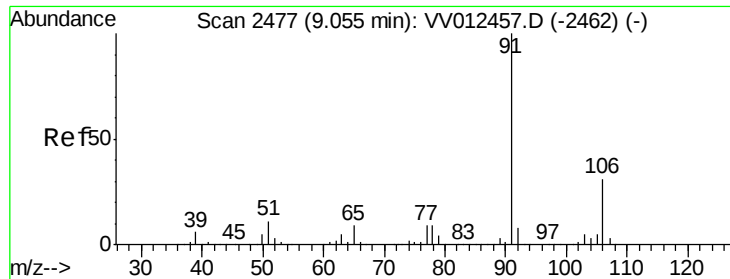
Tgt Ion:107 Resp: 70020
Ion Ratio Lower Upper
107 100
109 97.8 65.0 120.8
188 4.1 2.8 4.2



#51
Chlorobenzene
Concen: 5.294 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012470.D
Acq: 30 Aug 2019 23:53

Tgt Ion:112 Resp: 298756
Ion Ratio Lower Upper
112 100
114 32.1 22.7 42.3
77 59.1 49.0 73.6





#52

Ethylbenzene

Concen: 5.522 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

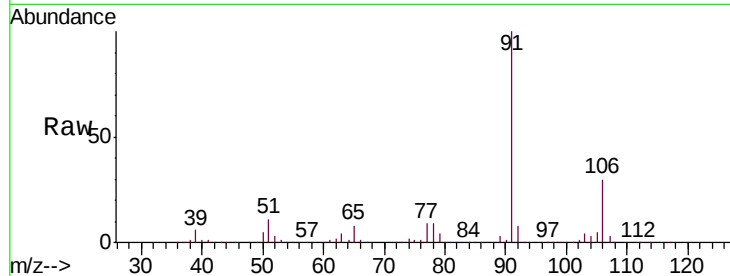
VSTD00557

Tgt Ion: 91 Resp: 519721

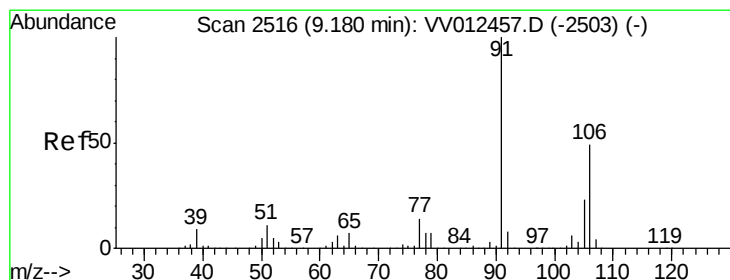
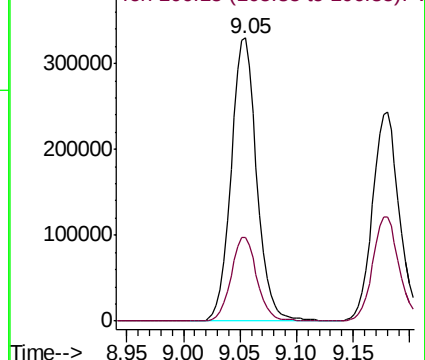
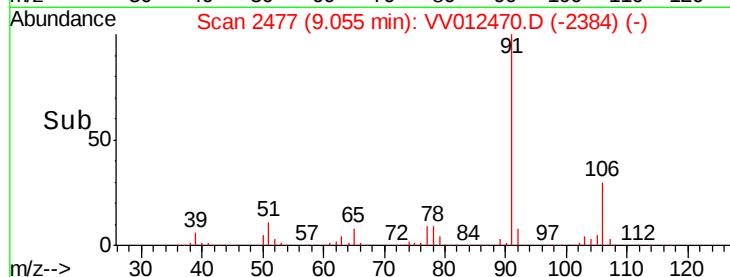
Ion Ratio Lower Upper

91 100

106 29.7 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VV012470.D (-2384) (-)



#53

m,p-xylene

Concen: 5.763 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV012470.D

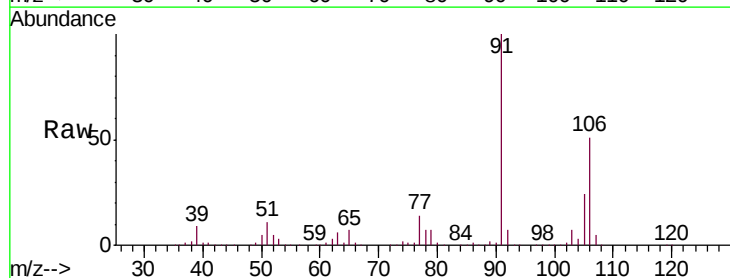
Acq: 30 Aug 2019 23:53

Tgt Ion: 106 Resp: 198846

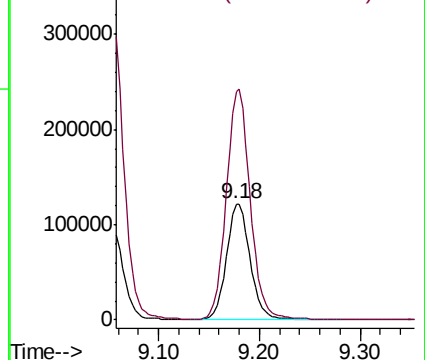
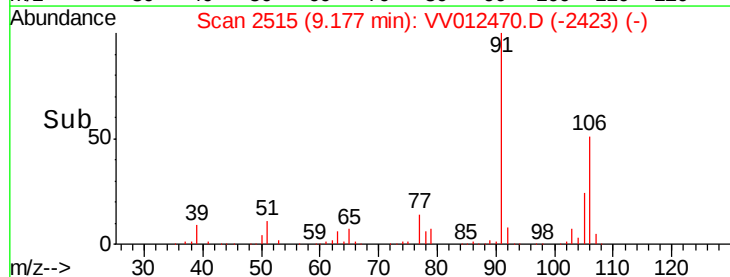
Ion Ratio Lower Upper

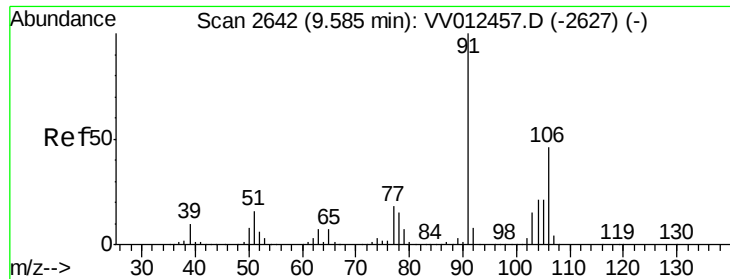
106 100

91 197.5 141.3 262.3



Abundance Ion 106.15 (105.85 to 106.85): VV012470.D (-2423) (-)





#54

o-xylene

Concen: 5.533 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

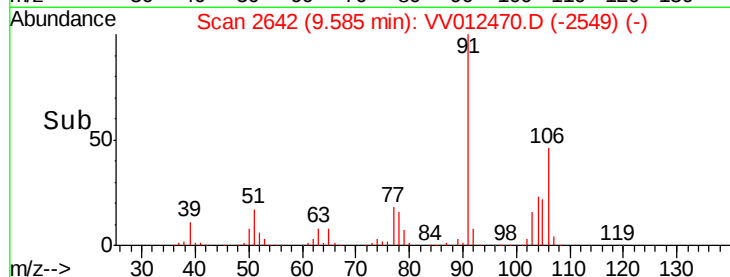
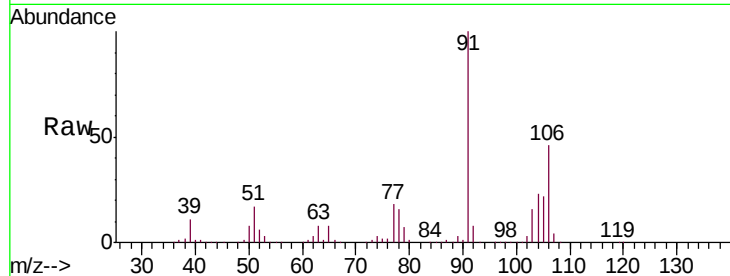
VSTD00557

Tgt Ion:106 Resp: 186380

Ion Ratio Lower Upper

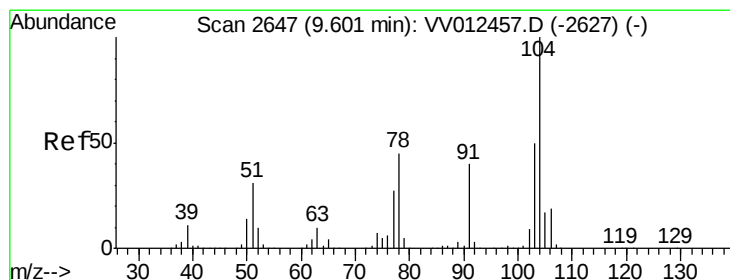
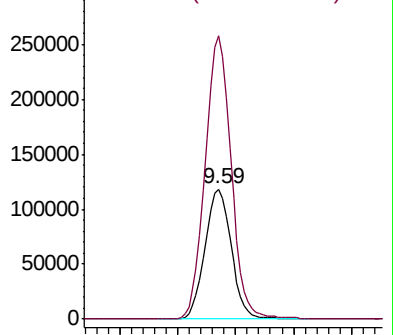
106 100

91 217.4 155.6 289.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.868 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012470.D

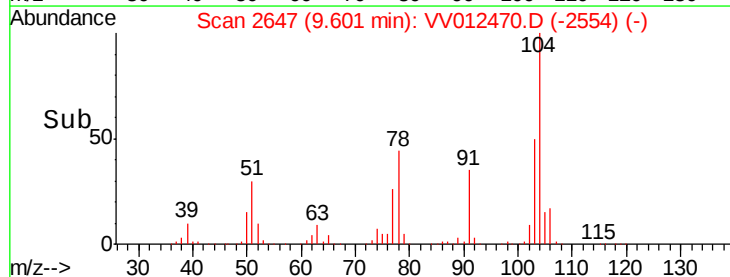
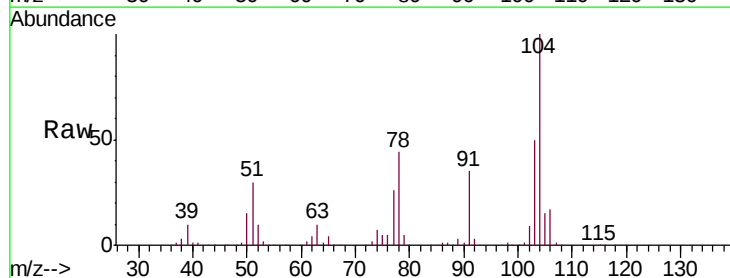
Acq: 30 Aug 2019 23:53

Tgt Ion:104 Resp: 331825

Ion Ratio Lower Upper

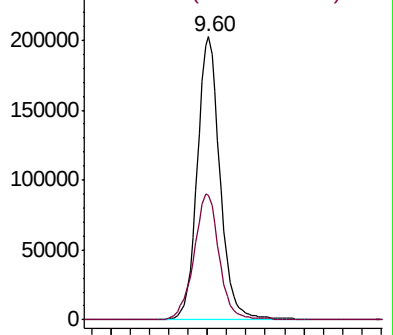
104 100

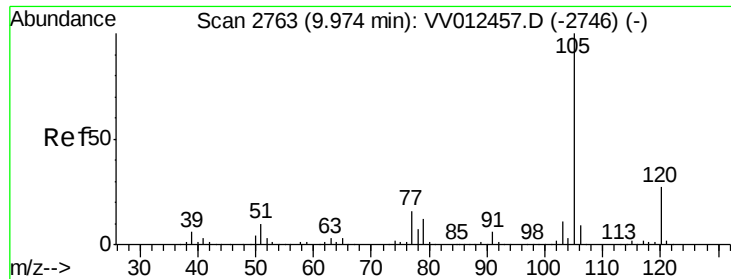
78 44.2 31.8 59.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.630 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

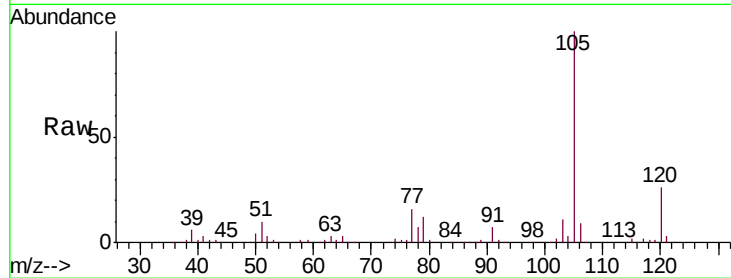
Tgt Ion: 105 Resp: 499390

Ion Ratio Lower Upper

105 100

120 26.1 20.6 31.0

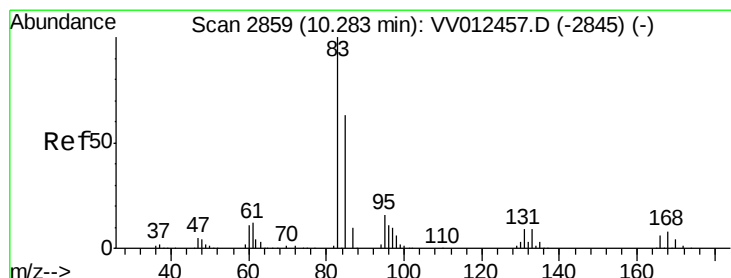
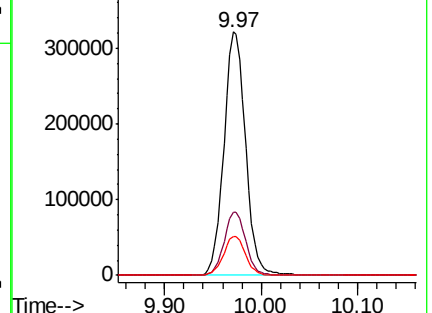
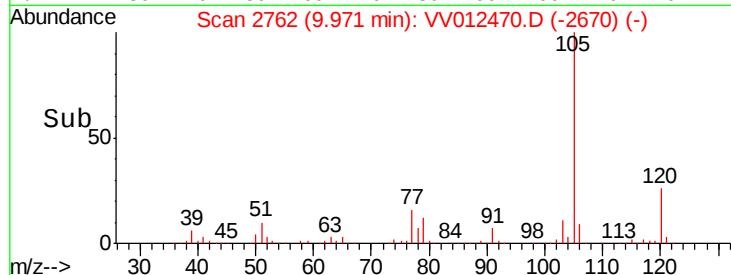
77 16.3 12.7 19.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.953 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

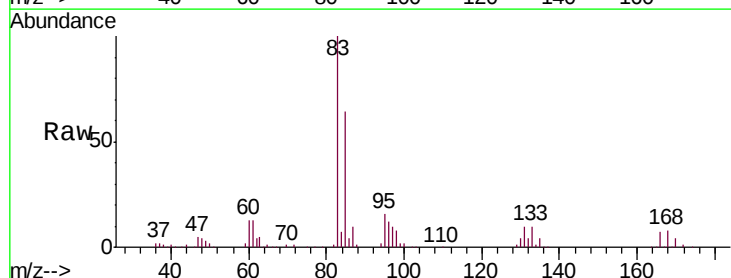
Tgt Ion: 83 Resp: 87701

Ion Ratio Lower Upper

83 100

85 63.6 45.0 83.6

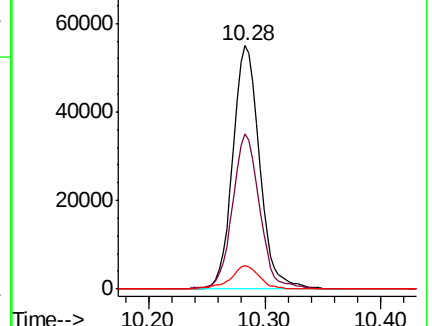
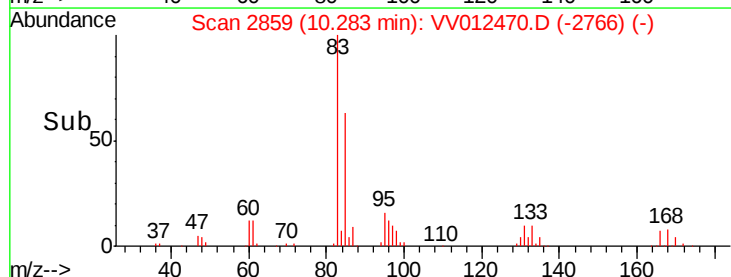
131 9.7 7.4 11.2

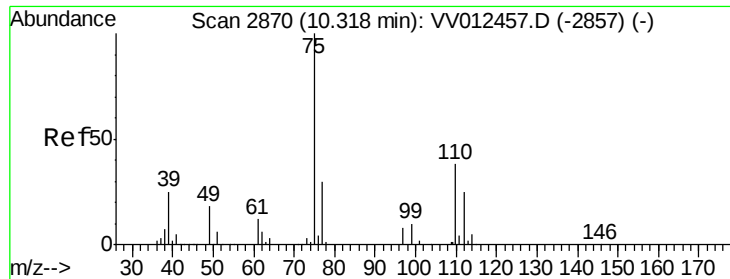


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.146 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

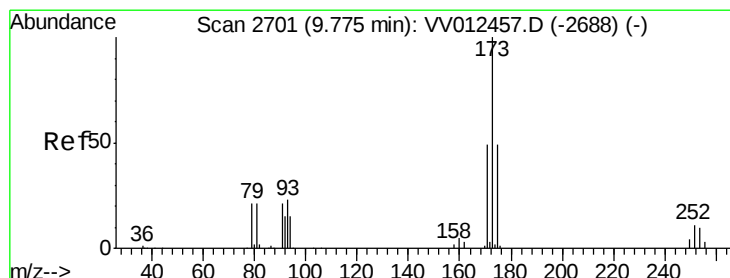
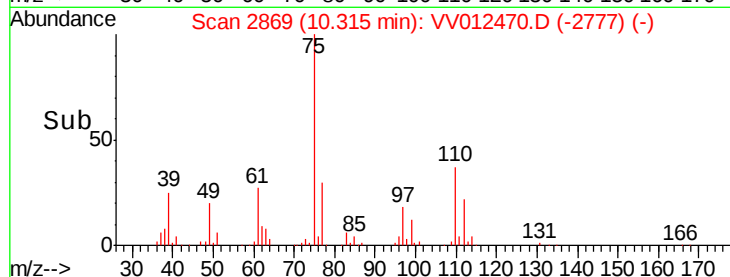
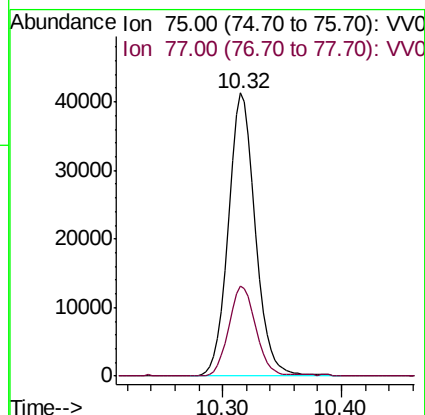
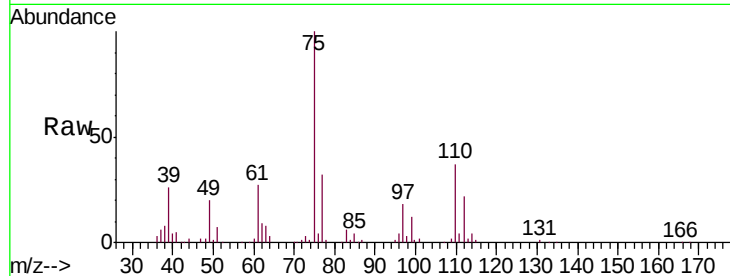
VSTD00557

Tgt Ion: 75 Resp: 64861

Ion Ratio Lower Upper

75 100

77 31.4 25.2 37.8



#61

Bromoform

Concen: 4.928 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

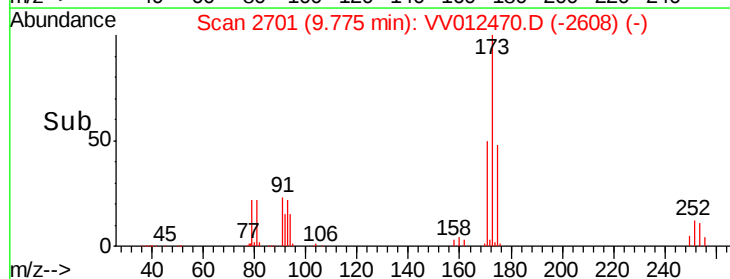
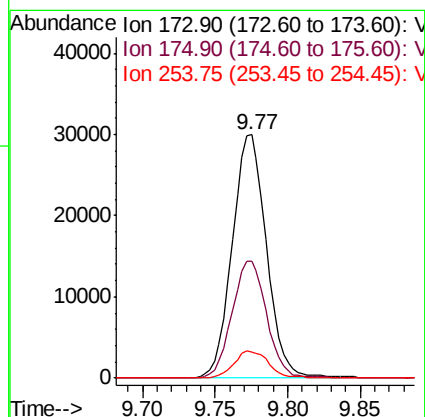
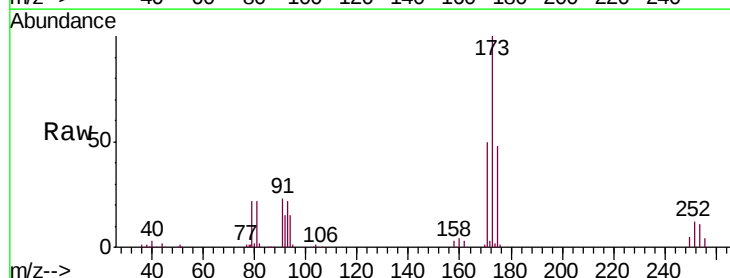
Tgt Ion: 173 Resp: 49155

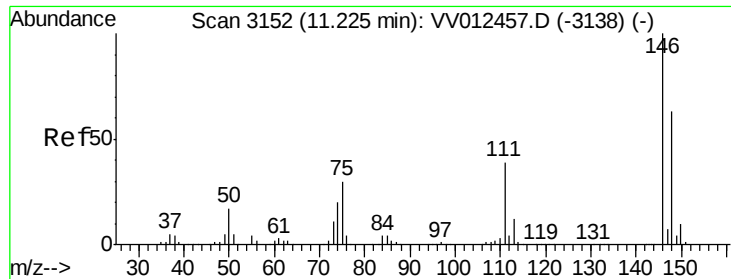
Ion Ratio Lower Upper

173 100

175 48.7 39.0 58.6

254 11.3 8.4 12.6

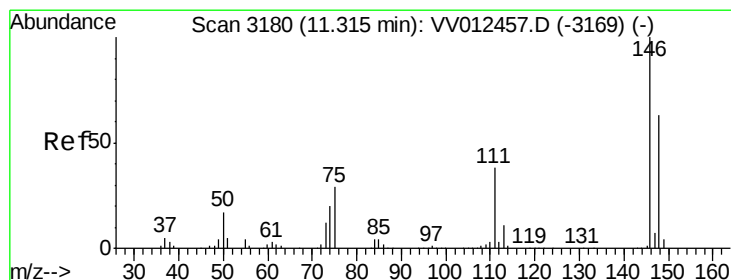
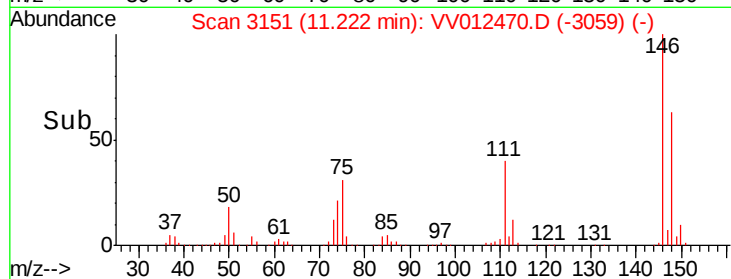
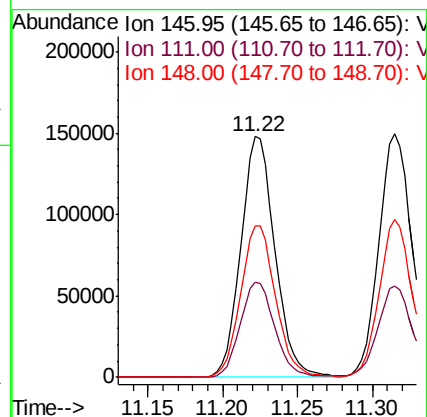
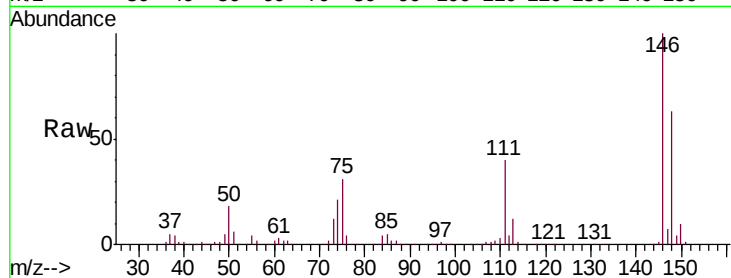




#62
 1,3-Dichlorobenzene
 Concen: 5.241 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

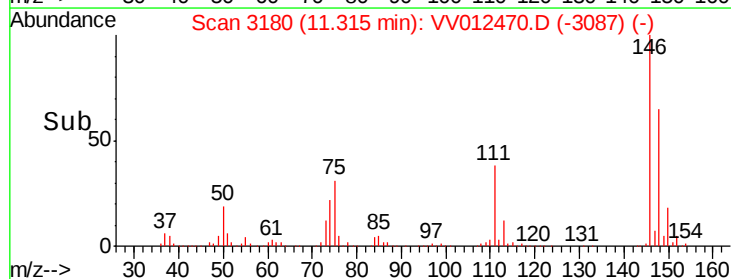
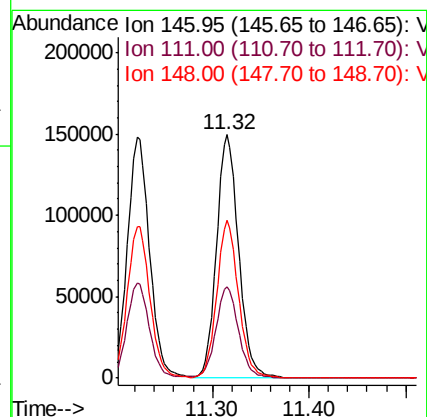
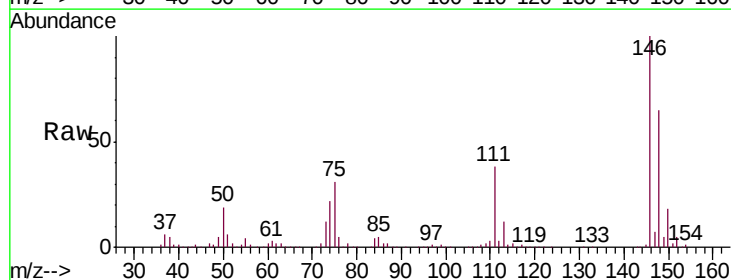
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

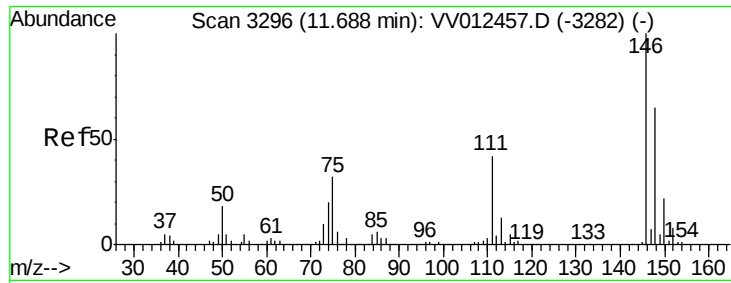
Tgt Ion:146 Resp: 235274
 Ion Ratio Lower Upper
 146 100
 111 39.7 27.6 51.4
 148 63.1 45.8 85.2



#63
 1,4-Dichlorobenzene
 Concen: 5.261 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion:146 Resp: 236643
 Ion Ratio Lower Upper
 146 100
 111 37.7 26.8 49.8
 148 64.7 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 5.188 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

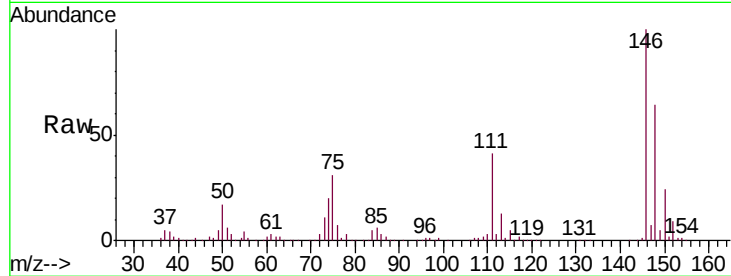
Tgt Ion:146 Resp: 219579

Ion Ratio Lower Upper

146 100

111 41.0 32.5 48.7

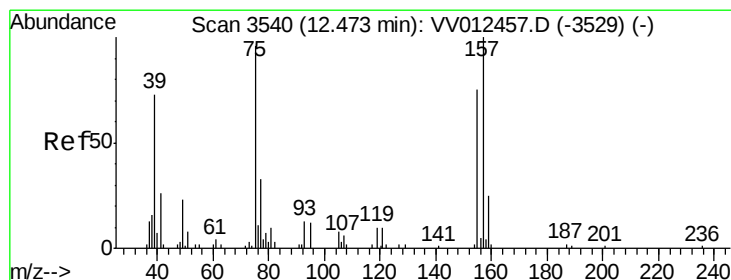
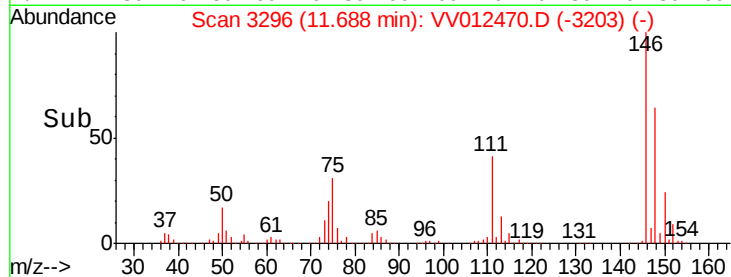
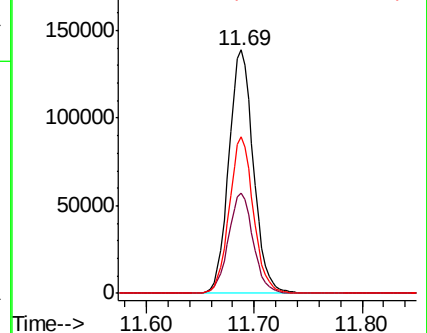
148 64.1 50.2 75.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.391 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

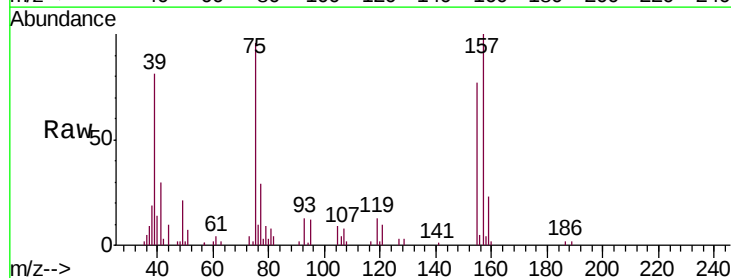
Tgt Ion: 75 Resp: 12511

Ion Ratio Lower Upper

75 100

155 80.2 68.6 102.8

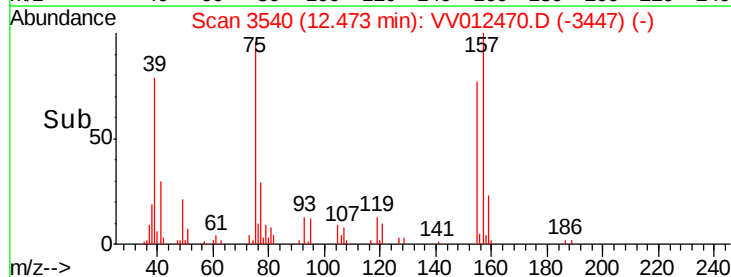
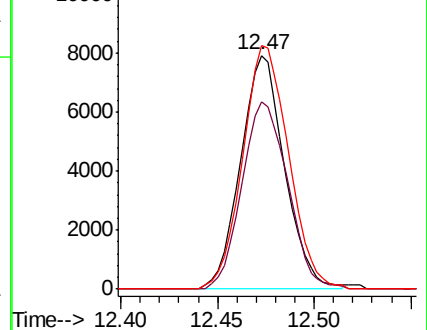
157 104.1 88.6 133.0

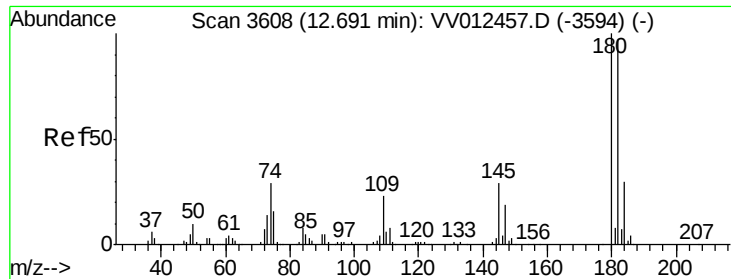


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

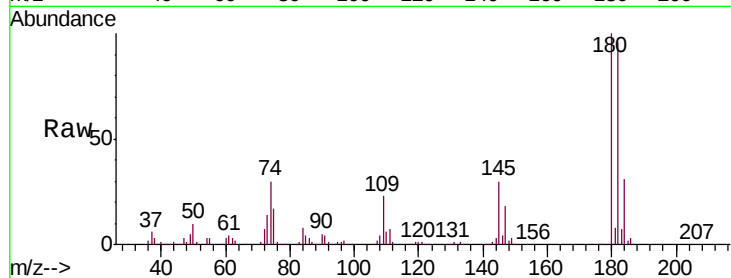




#67
 1,3,5-Trichlorobenzene
 Concen: 5.223 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00557

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.6	115.0
184	30.9	24.8	37.2
145	28.8	22.8	34.2



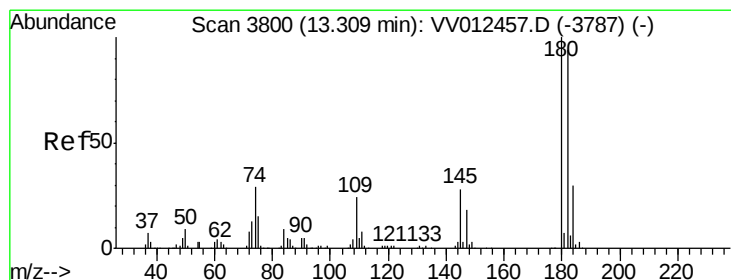
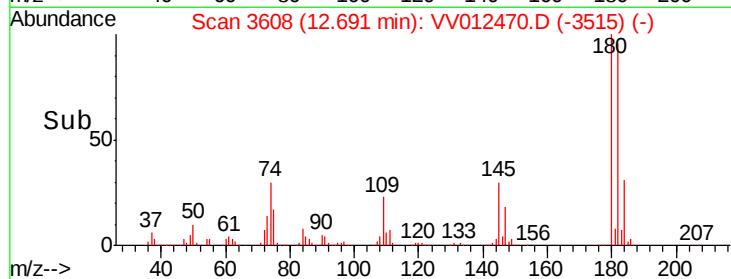
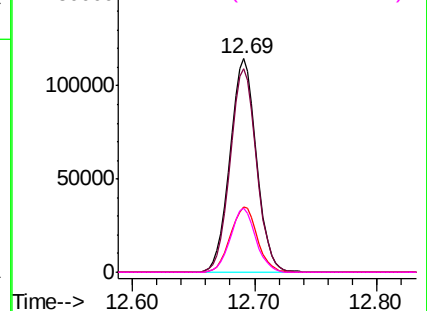
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

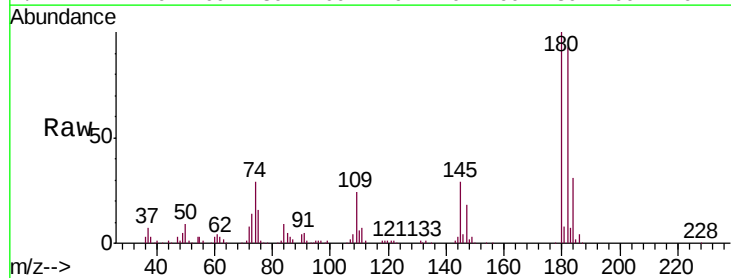
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 5.311 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012470.D
 Acq: 30 Aug 2019 23:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	78.1	117.1
145	29.6	23.4	35.0

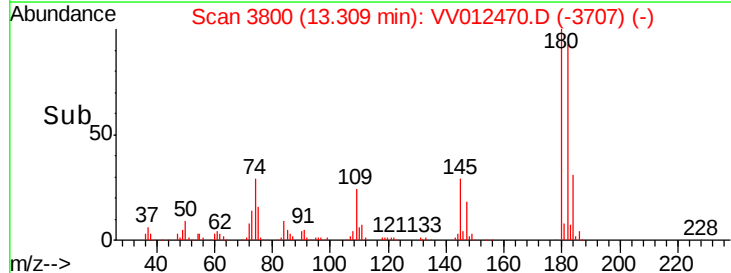
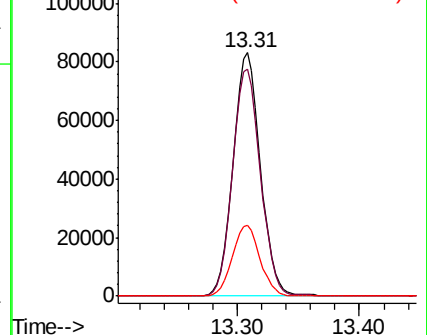


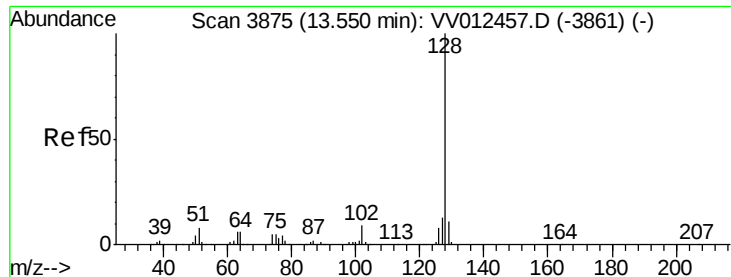
Abundance

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: 5.076 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD00557

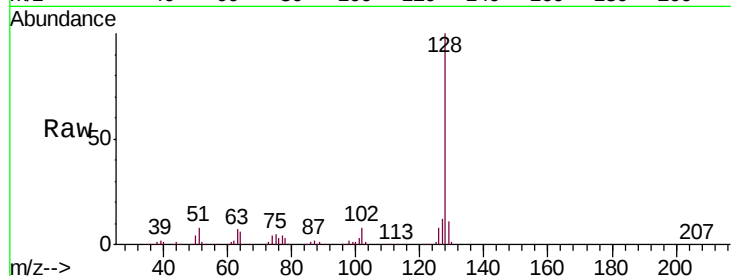
Tgt Ion:128 Resp: 180389

Ion Ratio Lower Upper

128 100

129 10.4 8.6 13.0

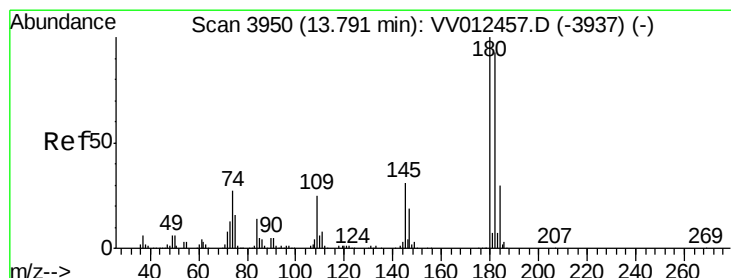
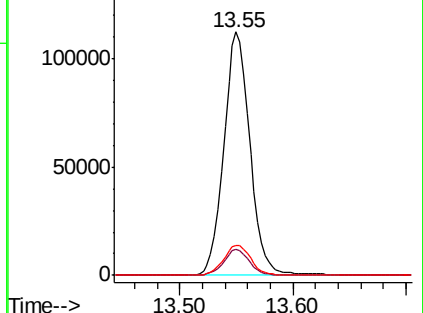
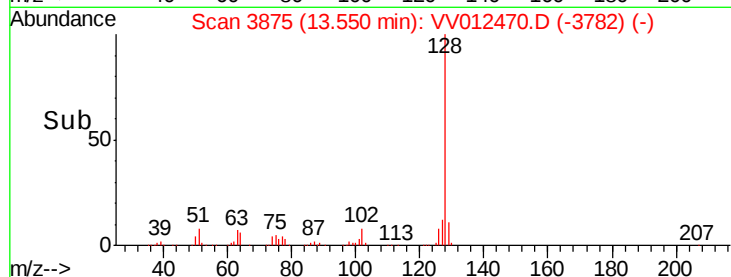
127 13.0 10.7 16.1



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: 5.388 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012470.D

Acq: 30 Aug 2019 23:53

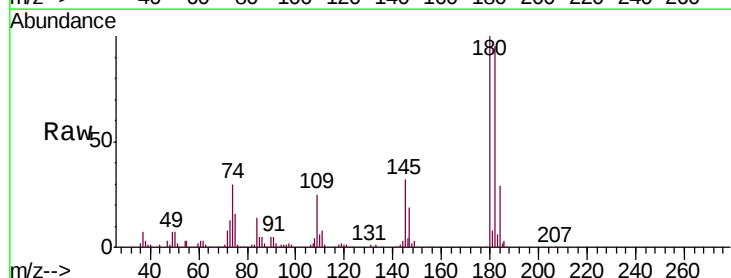
Tgt Ion:180 Resp: 127106

Ion Ratio Lower Upper

180 100

182 95.6 77.5 116.3

145 31.0 25.0 37.6



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

