

Data File : VV012001.D
Acq On : 24 Jul 2019 10:13
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

Quant Time: Jul 25 04:10:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 07:47:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	160977	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	150317	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	82630	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	34066	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.59	69	29209	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.13	63	75964	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.20%
20) 2-Butanone-d5	3.96	46	117548	48.07	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.14%
24) Chloroform-d	4.40	84	96151	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.60%
26) 1,2-Dichloroethane-d4	5.08	65	54058	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.10	84	197108	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
36) 1,2-Dichloropropane-d6	6.12	67	56493	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.36	98	187717	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	7.66	79	23016	4.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.60%
46) 2-Hexanone-d5	8.14	63	95485	48.84	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.68%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	41135	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.40%
64) 1,2-Dichlorobenzene-d4	11.67	152	72378	4.55	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	79507	4.778	ug/L 99
3) Chloromethane	1.25	50	42792	4.432	ug/L 98
5) Vinyl chloride	1.32	62	46094	4.663	ug/L 97
6) Bromomethane	1.54	94	27781	4.778	ug/L 97
8) Chloroethane	1.60	64	26426	4.518	ug/L 96
9) Trichlorofluoromethane	1.77	101	89502	4.912	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	39565	4.830	ug/L 99
12) 1,1-Dichloroethene	2.14	96	35445	4.838	ug/L 95
13) Acetone	2.23	43	59471	45.112	ug/L 100
14) Carbon disulfide	2.32	76	95624	4.579	ug/L 99
15) Methyl Acetate	2.47	43	10642	3.698	ug/L 98
16) Methylene chloride	2.54	84	34353	4.182	ug/L 95
17) Methyl tert-butyl Ether	2.81	73	120210	4.808	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	52990	4.644	ug/L 98
19) 1,1-Dichloroethane	3.23	63	96489	4.788	ug/L 96
21) 2-Butanone	4.05	43	118991	47.052	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	56884	4.639	ug/L 95

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Instrument :
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ClientSampleId :
VSTD00547

Quant Time: Jul 25 04:10:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Jul 24 07:47:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	24232	4.807	ug/L	98
25) Chloroform	4.43	83	115825	4.759	ug/L	99
27) 1,2-Dichloroethane	5.18	62	66075	4.883	ug/L	100
29) 1,1,1-Trichloroethane	4.66	97	98160	5.102	ug/L	99
30) Cyclohexane	4.72	56	83323	4.584	ug/L	98
31) Carbon tetrachloride	4.87	117	86151	4.974	ug/L	97
33) Benzene	5.14	78	215331	4.870	ug/L	100
34) Trichloroethene	5.96	95	59864	4.875	ug/L	97
35) Methylcyclohexane	6.17	83	95374	4.990	ug/L	97
37) 1,2-Dichloropropane	6.22	63	50005	4.704	ug/L	99
38) Bromodichloromethane	6.55	83	70422	4.958	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	77223	4.901	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	299073	50.354	ug/L	100
42) Toluene	7.43	91	239357	5.043	ug/L	98
44) trans-1,3-Dichloropropene	7.69	75	63009	5.028	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	36077	4.914	ug/L	98
47) Tetrachloroethene	8.02	164	54415	5.136	ug/L	96
48) 2-Hexanone	8.19	43	213659	51.280	ug/L	99
49) Dibromochloromethane	8.29	129	44447	4.944	ug/L	96
50) 1,2-Dibromoethane	8.40	107	34293	4.947	ug/L #	99
51) Chlorobenzene	8.92	112	154205	4.962	ug/L	99
52) Ethylbenzene	9.05	91	274598	5.069	ug/L	100
53) m,p-xylene	9.18	106	106266	5.153	ug/L	97
54) o-xylene	9.59	106	98819	5.054	ug/L	100
55) Styrene	9.60	104	170523	5.175	ug/L	95
56) Isopropylbenzene	9.97	105	277691	5.086	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	39040	4.906	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	30789	4.966	ug/L	99
61) Bromoform	9.77	173	24708	4.871	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	130179	4.817	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	132698	4.769	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	121012	4.863	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	6387	4.418	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	110038	4.868	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	88488	4.820	ug/L	99
69) Naphthalene	13.55	128	125797	4.545	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	80449	4.831	ug/L	100

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

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```
ALS Vial      : 2      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

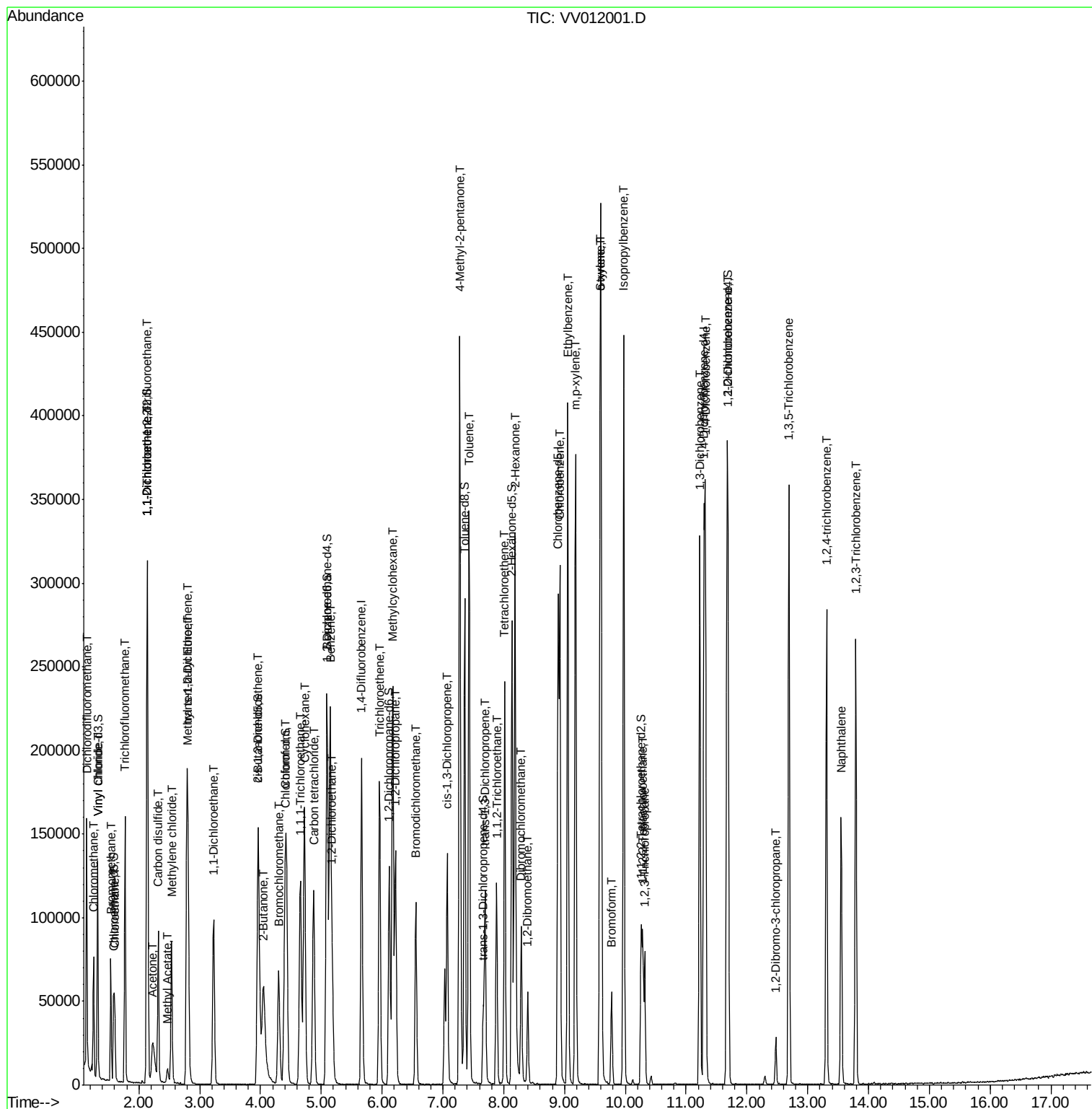
Quant Time: Jul 25 04:10:47 2019

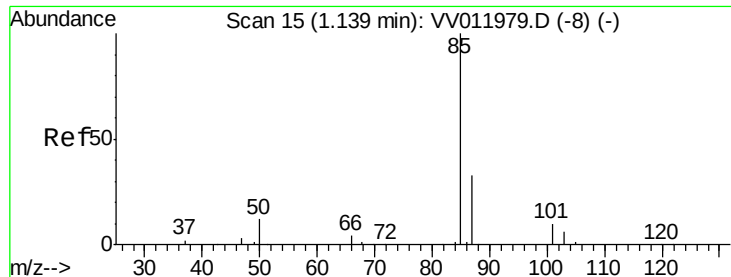
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\SOMVTR072219WMA.M

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#2

Dichlorodifluoromethane

Concen: 4.778 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

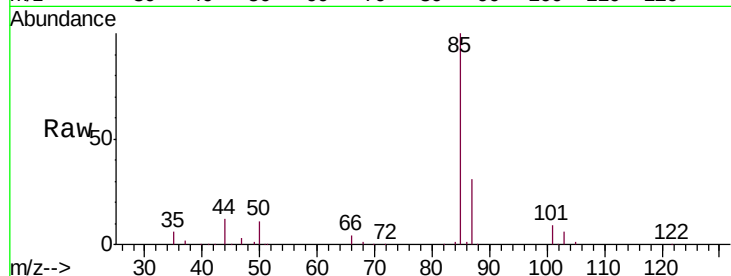
VSTD00547

Tgt Ion: 85 Resp: 79507

Ion Ratio Lower Upper

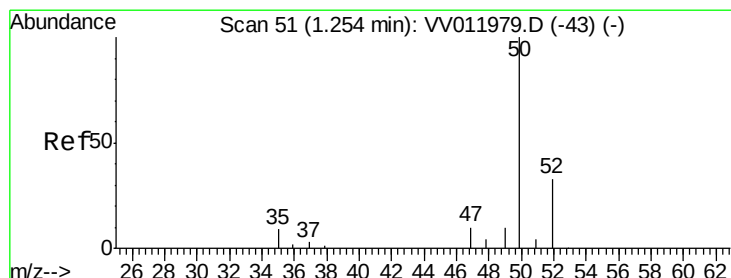
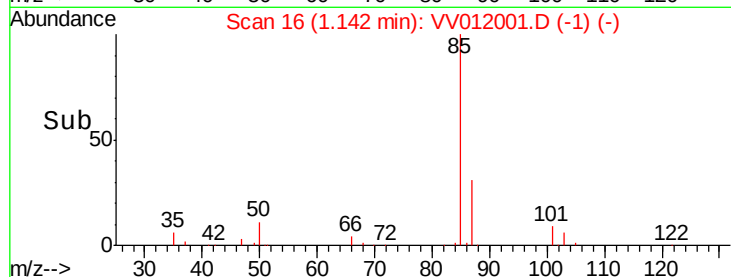
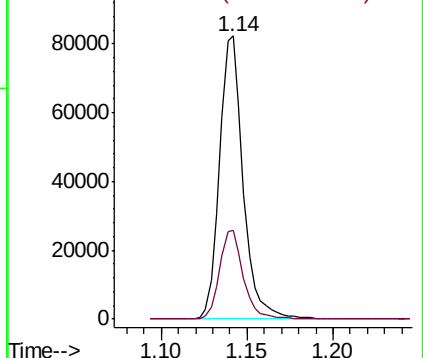
85 100

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: 4.432 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012001.D

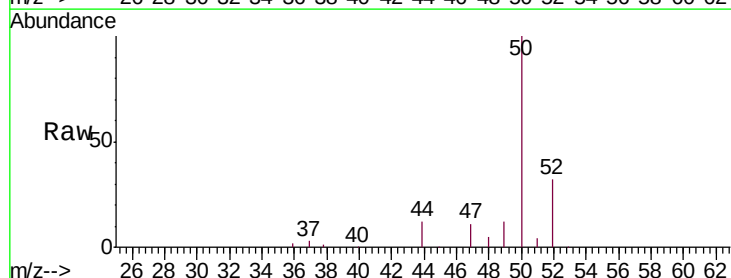
Acq: 24 Jul 2019 10:13

Tgt Ion: 50 Resp: 42792

Ion Ratio Lower Upper

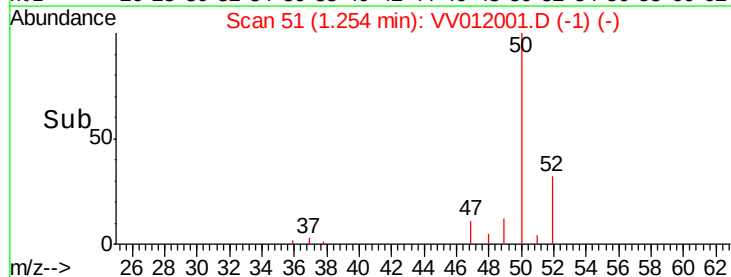
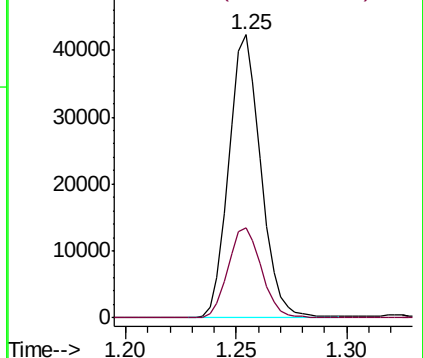
50 100

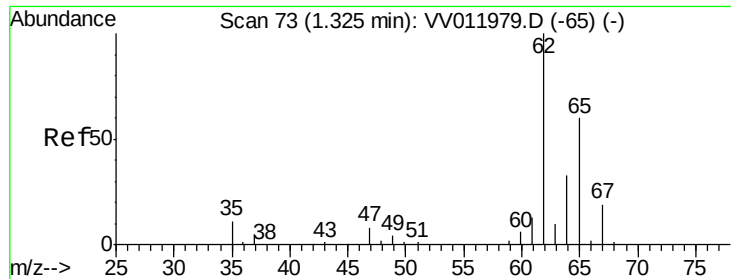
52 32.0 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.663 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

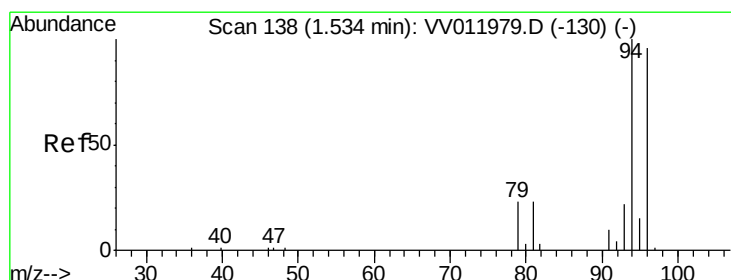
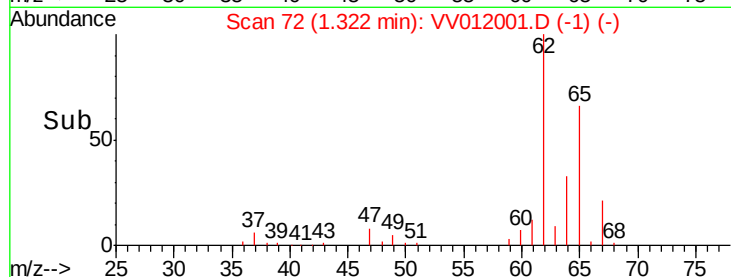
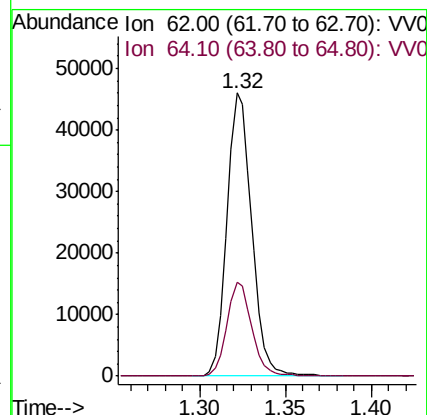
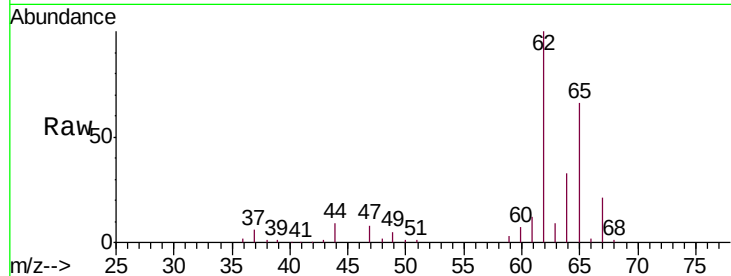
VSTD00547

Tgt Ion: 62 Resp: 46094

Ion Ratio Lower Upper

62 100

64 33.0 24.3 45.1



#6

Bromomethane

Concen: 4.778 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012001.D

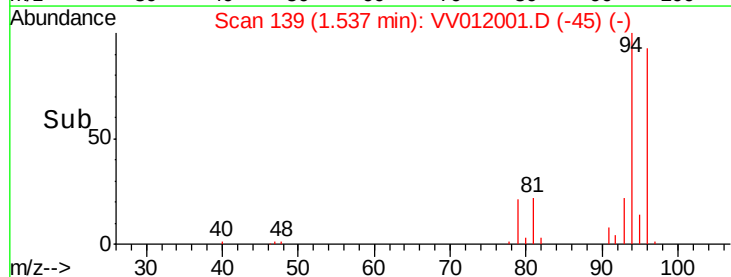
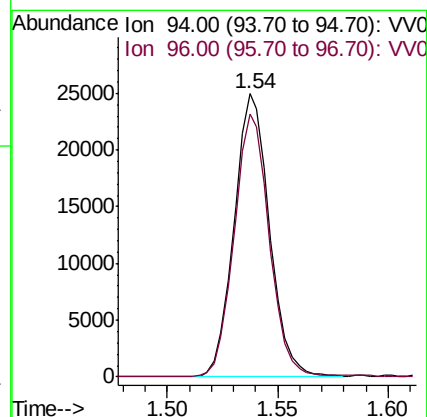
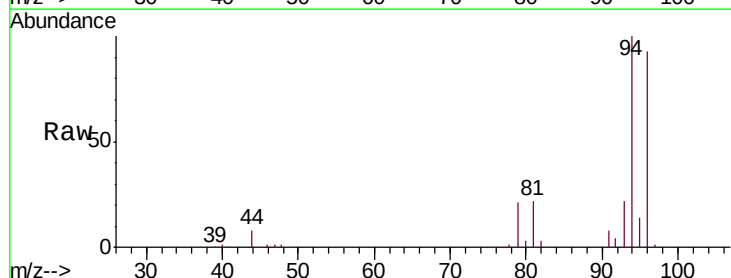
Acq: 24 Jul 2019 10:13

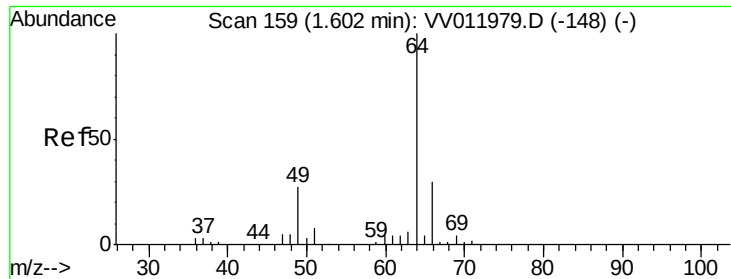
Tgt Ion: 94 Resp: 27781

Ion Ratio Lower Upper

94 100

96 92.9 67.3 125.1

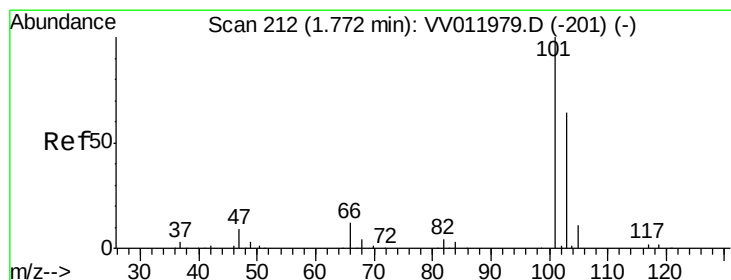
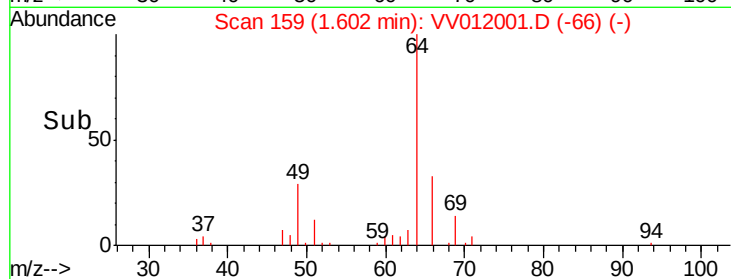
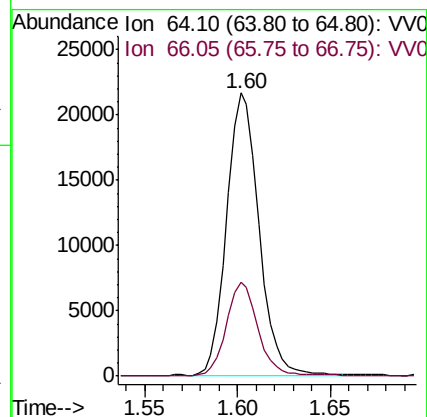
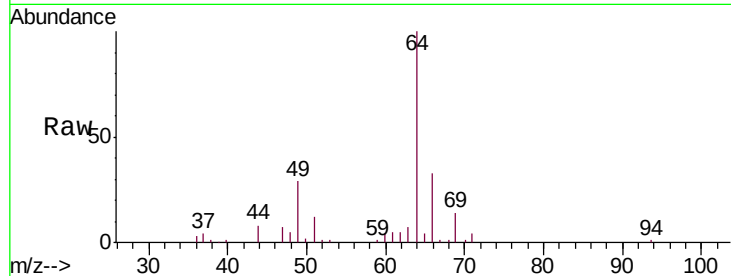




#8
 Chloroethane
 Concen: 4.518 ug/L
 RT: 1.60 min Scan# 159
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

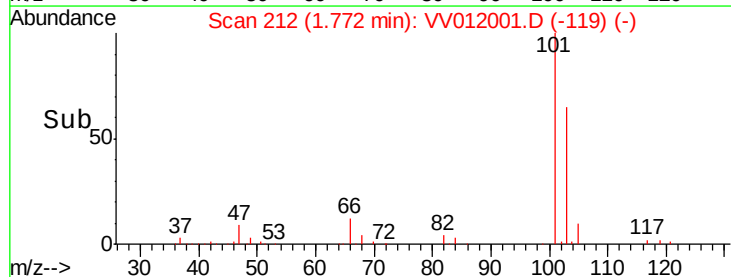
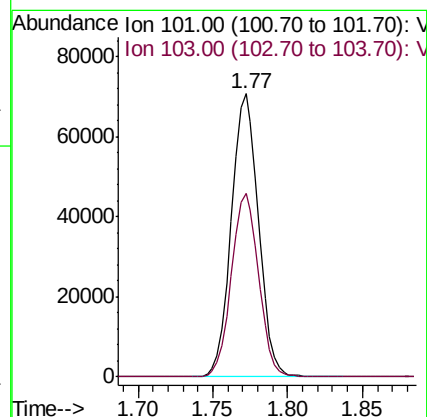
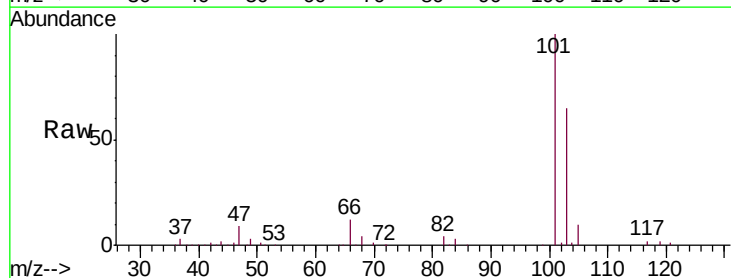
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

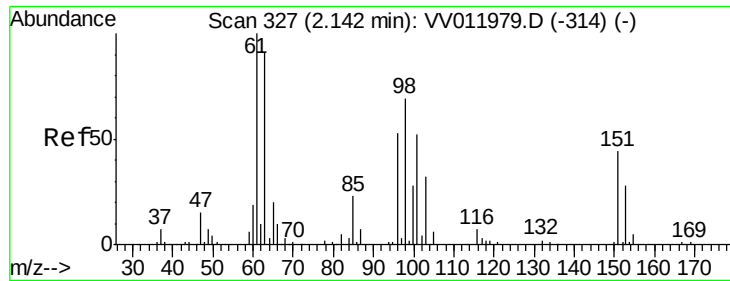
Tgt Ion: 64 Resp: 26426
 Ion Ratio Lower Upper
 64 100
 66 33.4 21.8 40.6



#9
 Trichlorofluoromethane
 Concen: 4.912 ug/L
 RT: 1.77 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 101 Resp: 89502
 Ion Ratio Lower Upper
 101 100
 103 65.0 50.4 75.6





#10

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

Concen: 4.830 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

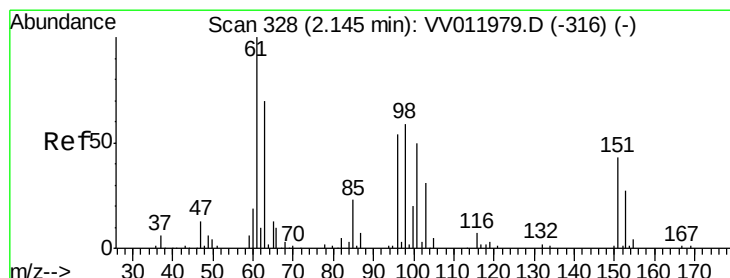
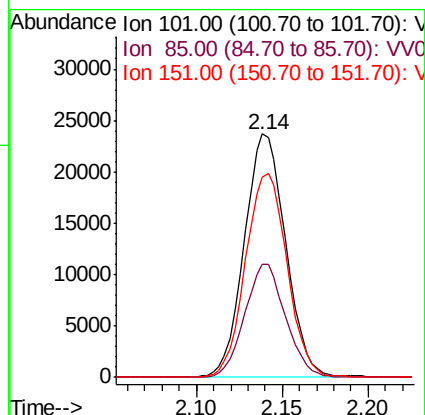
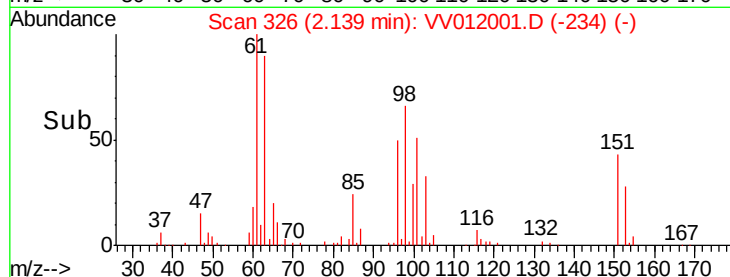
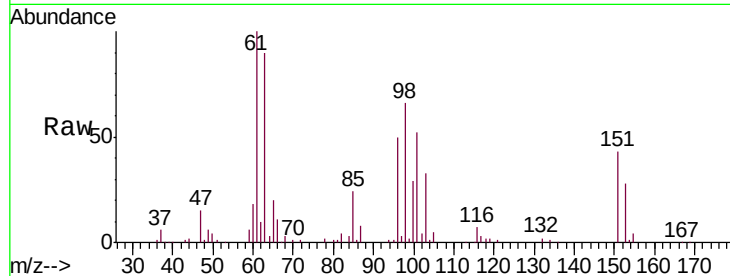
Tgt Ion:101 Resp: 39565

Ion Ratio Lower Upper

101 100

85 45.7 37.0 55.6

151 84.2 68.3 102.5



#12

1,1-Dichloroethene

Concen: 4.838 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

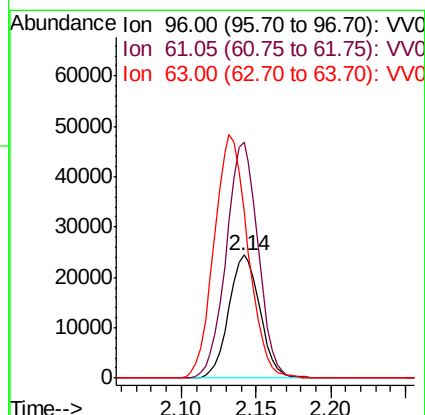
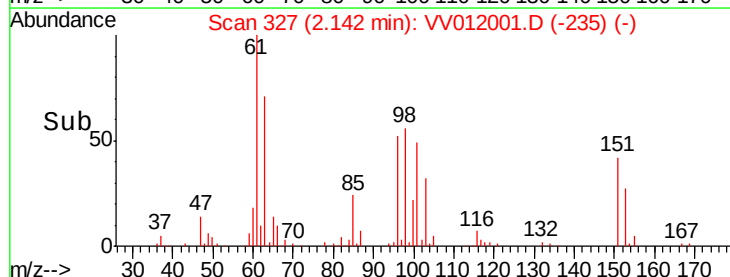
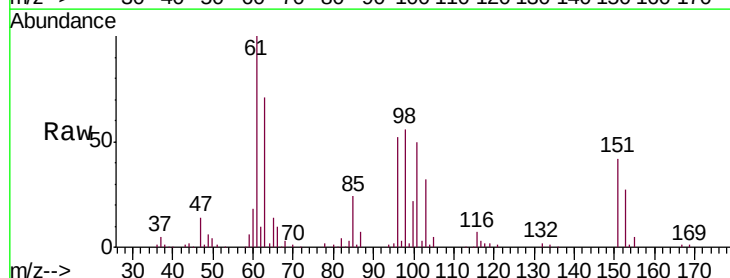
Tgt Ion: 96 Resp: 35445

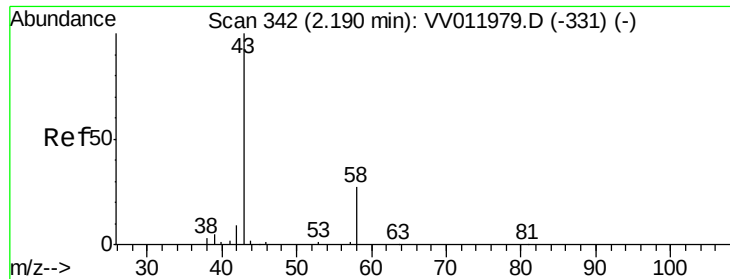
Ion Ratio Lower Upper

96 100

61 191.4 132.7 246.5

63 135.0 104.0 193.1





#13

Acetone

Concen: 45.112 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.04 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

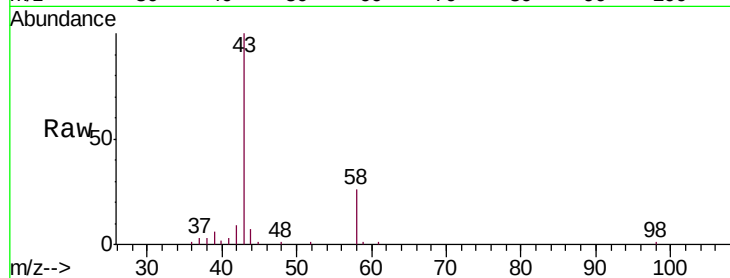
VSTD00547

Tgt Ion: 43 Resp: 59471

Ion Ratio Lower Upper

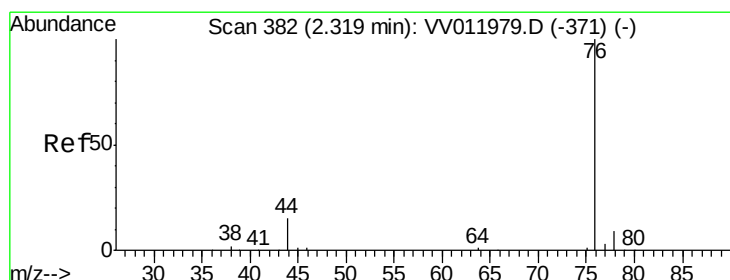
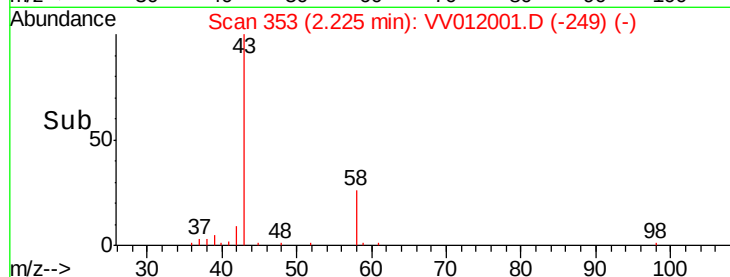
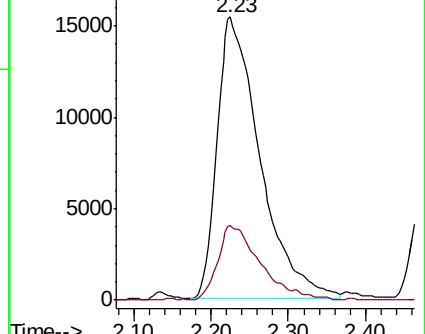
43 100

58 25.7 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV011979.D (-331) (-)

Ion 58.05 (57.75 to 58.75): VV011979.D (-331) (-)



#14

Carbon disulfide

Concen: 4.579 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV012001.D

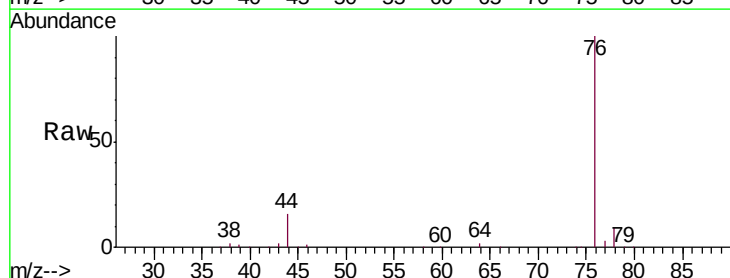
Acq: 24 Jul 2019 10:13

Tgt Ion: 76 Resp: 95624

Ion Ratio Lower Upper

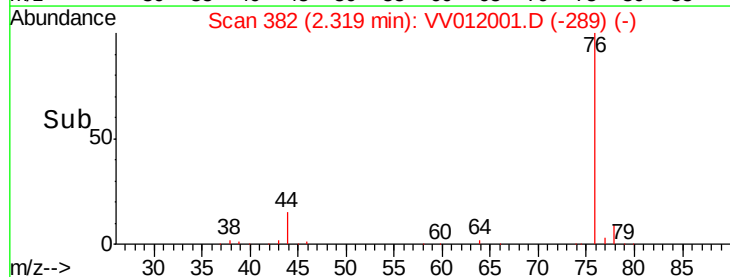
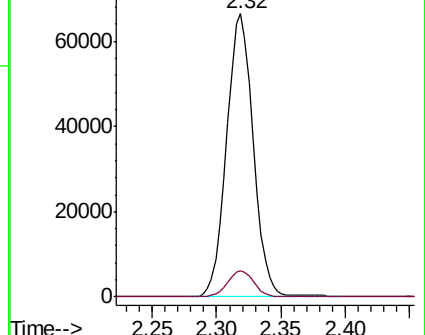
76 100

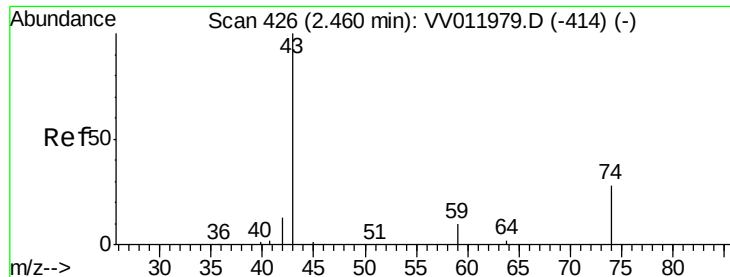
78 9.3 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV011979.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV011979.D (-371) (-)

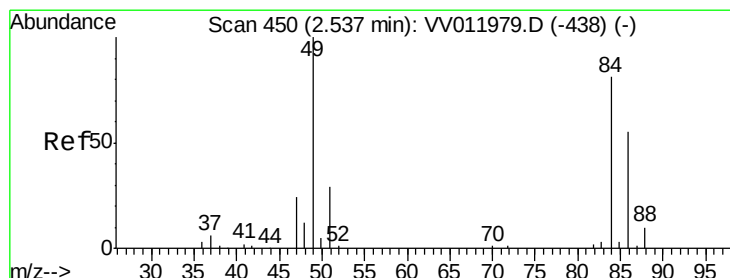
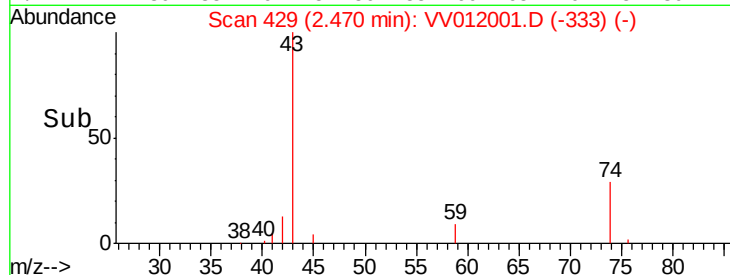
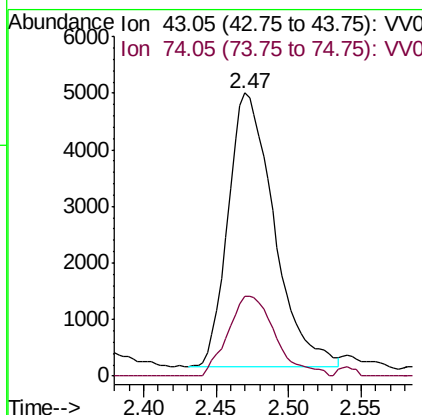
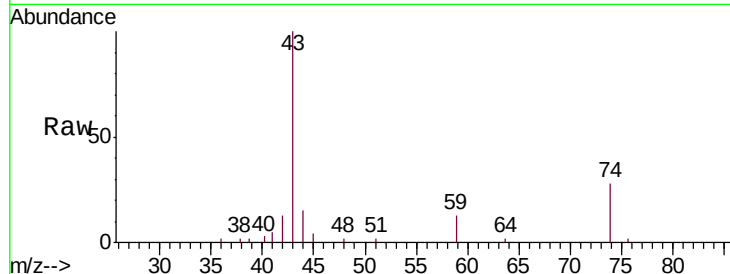




#15
Methyl Acetate
Concen: 3.698 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.01 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

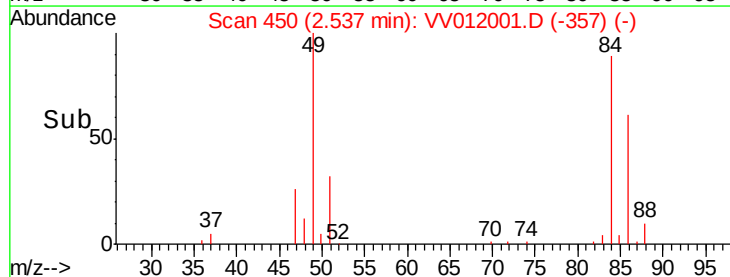
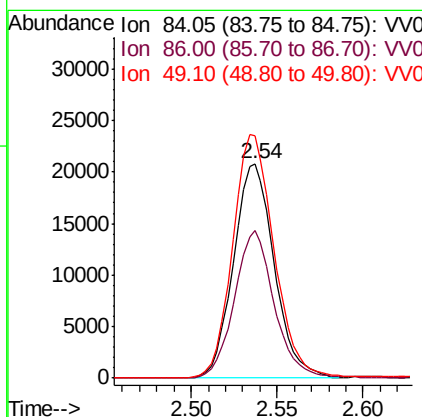
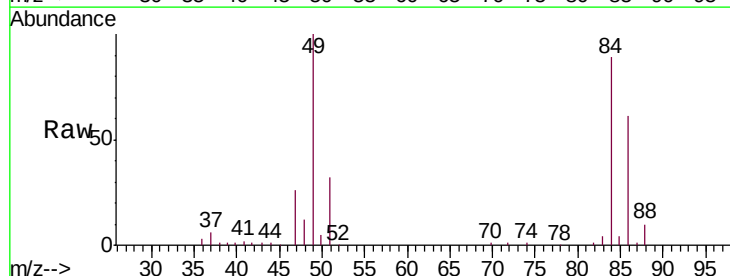
Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

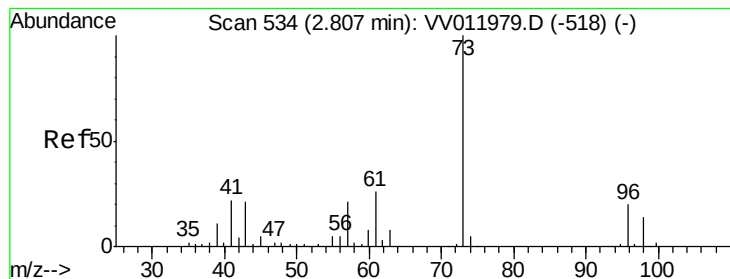
Tgt Ion: 43 Resp: 10642
Ion Ratio Lower Upper
43 100
74 30.1 23.4 35.2



#16
Methylene chloride
Concen: 4.182 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

Tgt Ion: 84 Resp: 34353
Ion Ratio Lower Upper
84 100
86 68.7 47.6 88.4
49 113.0 84.3 156.5





#17

Methyl tert-butyl Ether

Concen: 4.808 ug/L

RT: 2.81 min Scan# 535

Delta R.T. 0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

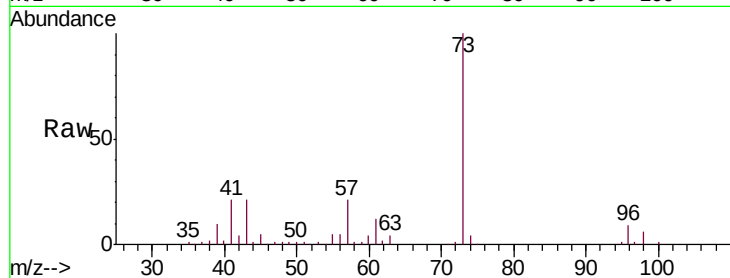
Tgt Ion: 73 Resp: 120210

Ion Ratio Lower Upper

73 100

43 21.5 17.0 25.4

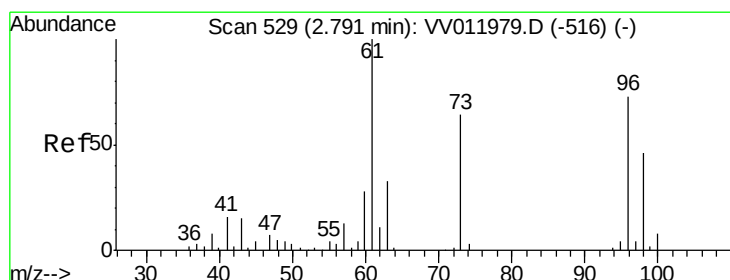
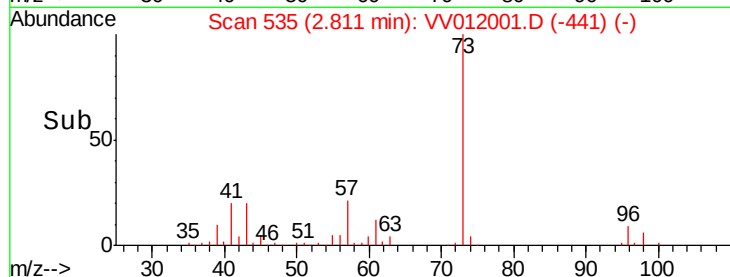
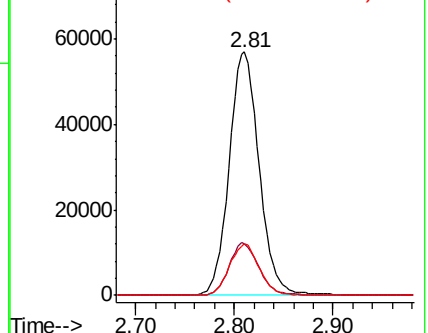
57 20.9 17.0 25.6



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: 4.644 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

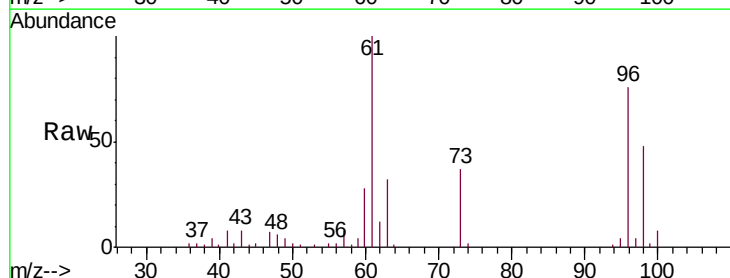
Tgt Ion: 96 Resp: 52990

Ion Ratio Lower Upper

96 100

61 132.4 95.4 177.2

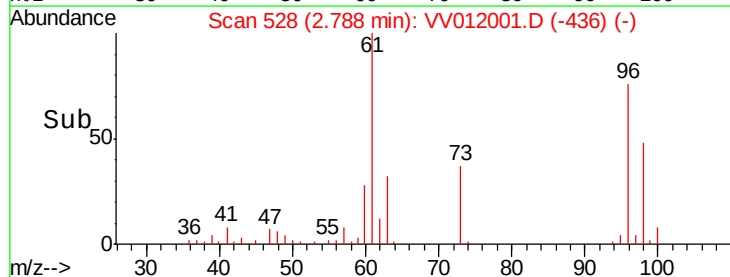
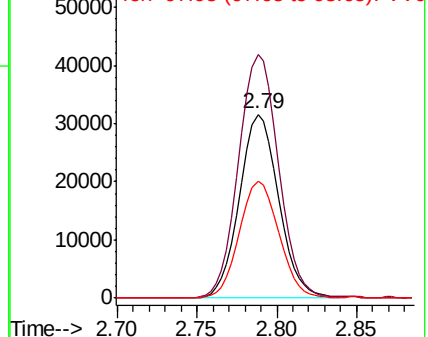
98 63.8 44.4 82.5

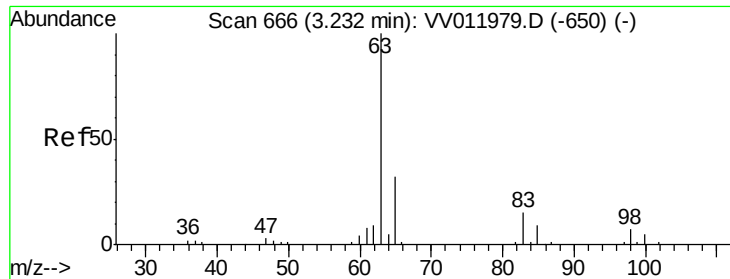


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 97.95 (97.65 to 98.65): VV0

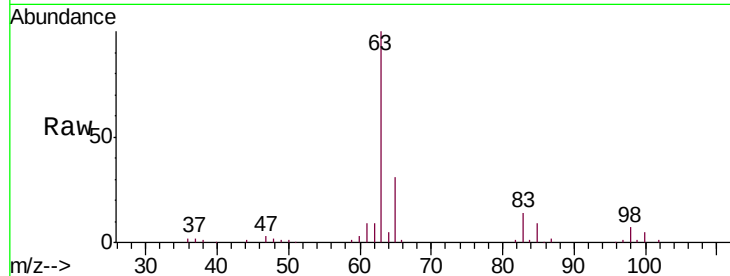




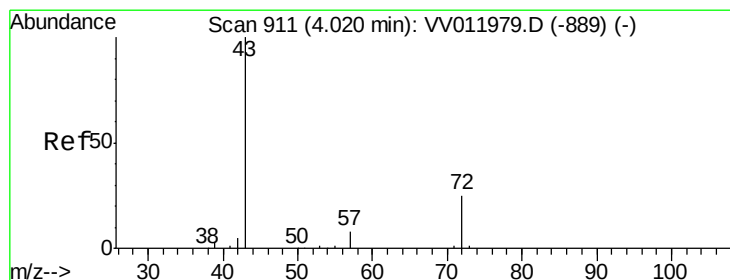
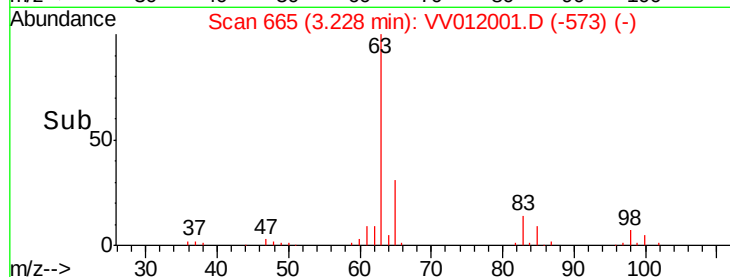
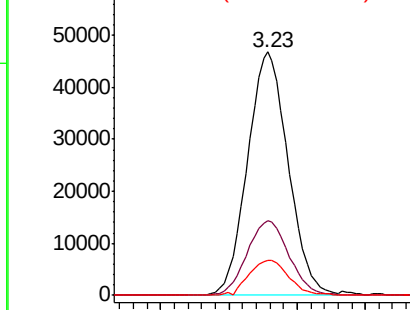
#19
 1,1-Dichloroethane
 Concen: 4.788 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tgt Ion: 63 Resp: 96489
 Ion Ratio Lower Upper
 63 100
 65 30.8 23.5 43.7
 83 14.4 9.7 18.1

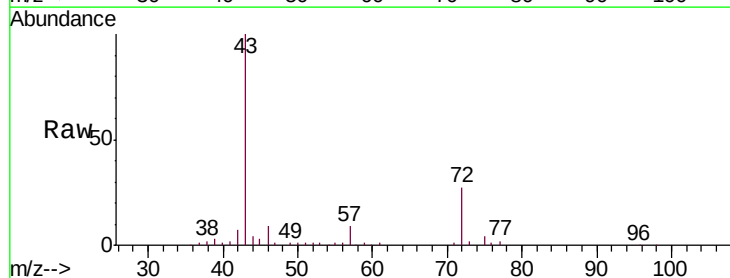


Abundance Ion 63.10 (62.80 to 63.80): VV0
 Ion 65.10 (64.80 to 65.80): VV0
 Ion 83.05 (82.75 to 83.75): VV0

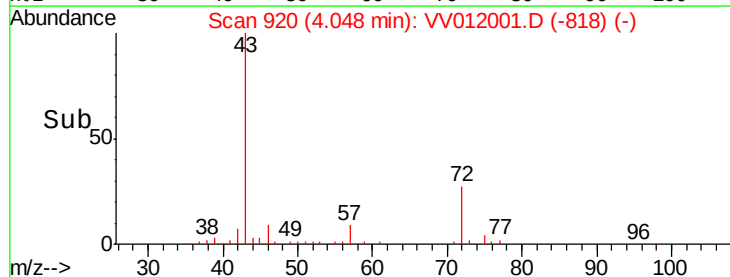
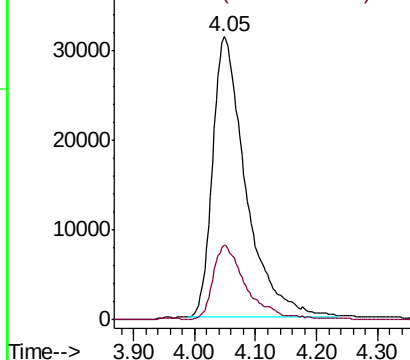


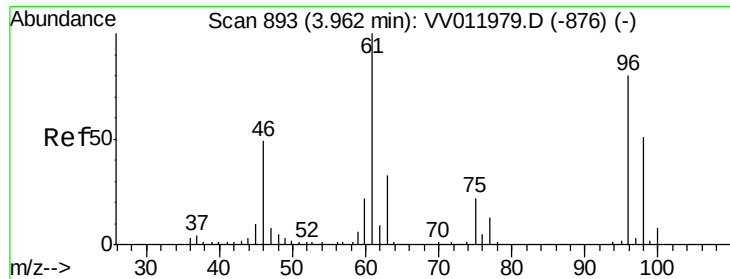
#21
 2-Butanone
 Concen: 47.052 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. 0.03 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 43 Resp: 118991
 Ion Ratio Lower Upper
 43 100
 72 25.8 13.6 40.8



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



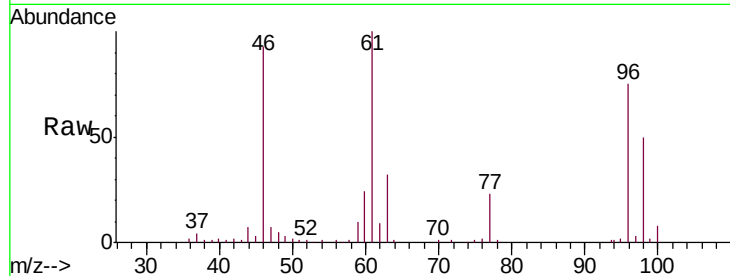


#22

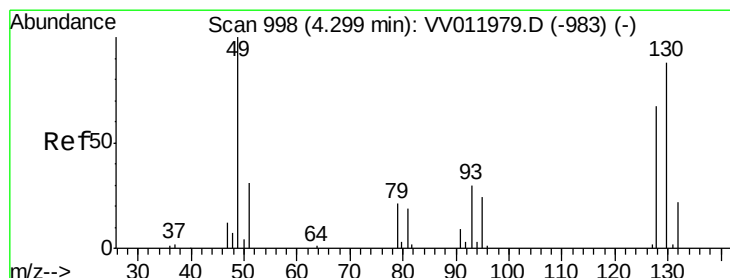
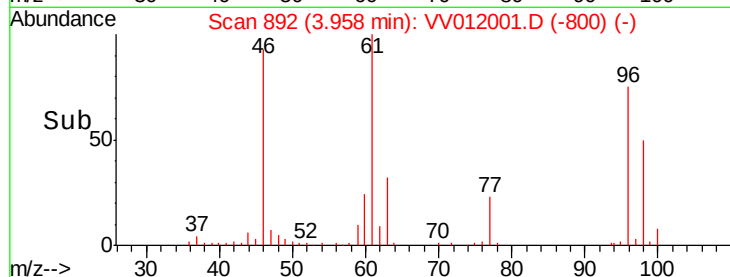
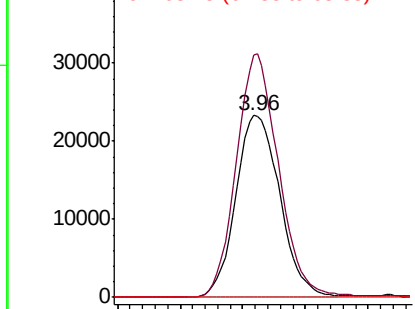
cis-1,2-Dichloroethene
 Concen: 4.639 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tgt Ion: 96 Resp: 56884
 Ion Ratio Lower Upper
 96 100
 61 133.3 89.0 165.2
 68 0.0 0.0 0.0



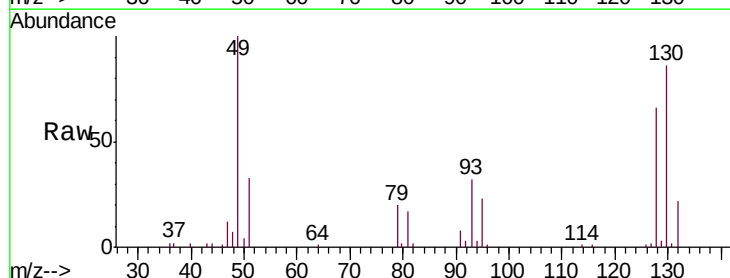
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



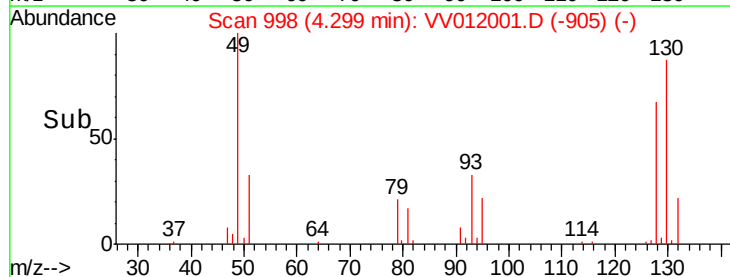
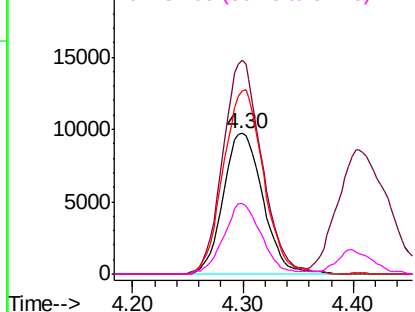
#23

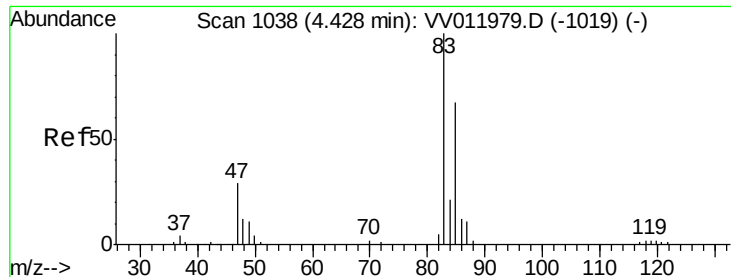
Bromochloromethane
 Concen: 4.807 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 128 Resp: 24232
 Ion Ratio Lower Upper
 128 100
 49 151.8 105.5 195.9
 130 130.2 88.4 164.2
 51 50.2 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

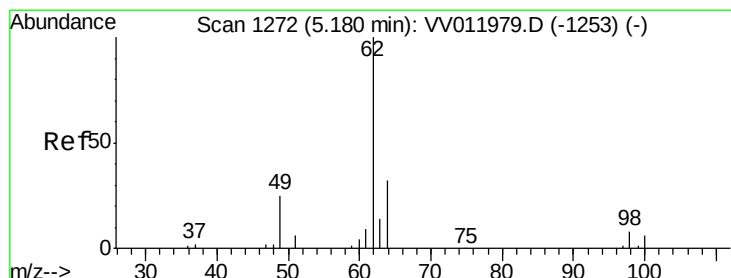
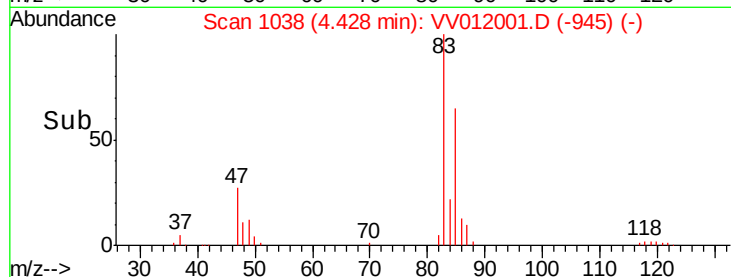
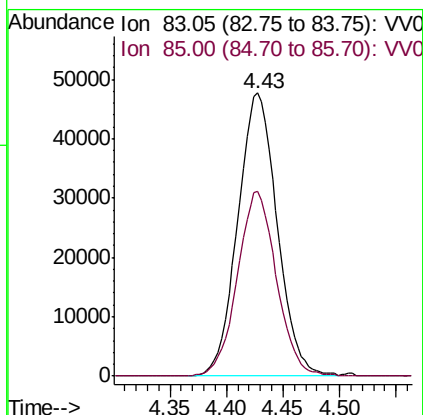
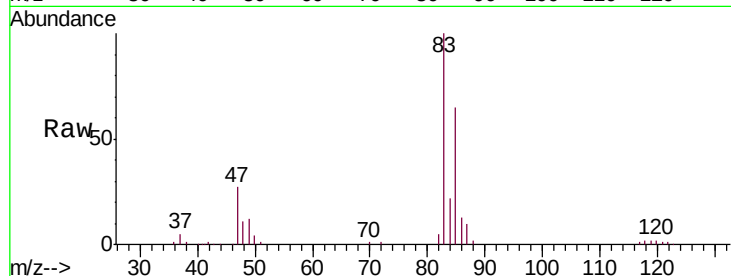




#25
Chloroform
Concen: 4.759 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

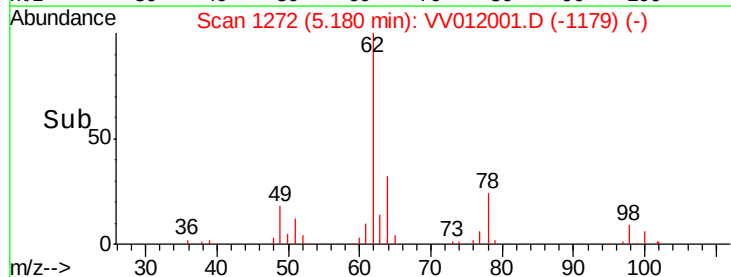
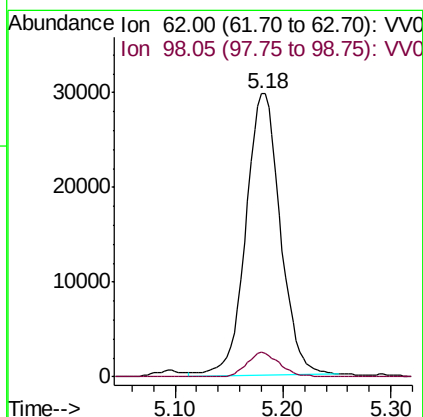
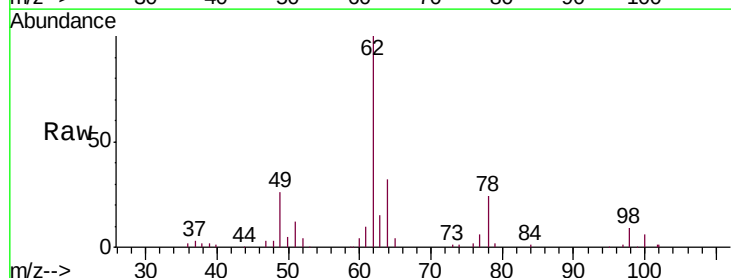
Instrument :
MSVOA_V
ClientSampled :
VSTD00547

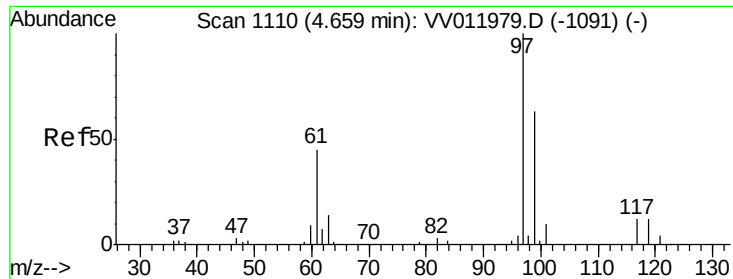
Tgt Ion: 83 Resp: 115825
Ion Ratio Lower Upper
83 100
85 65.4 46.5 86.3



#27
1,2-Dichloroethane
Concen: 4.883 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

Tgt Ion: 62 Resp: 66075
Ion Ratio Lower Upper
62 100
98 8.8 7.0 10.6

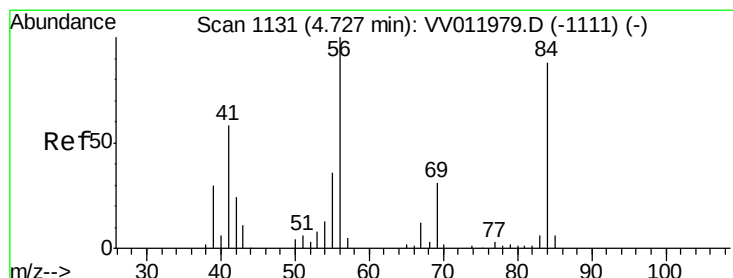
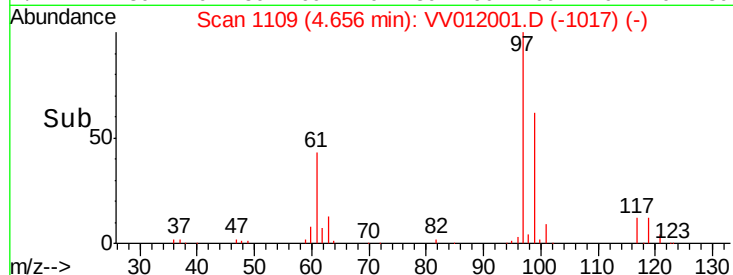
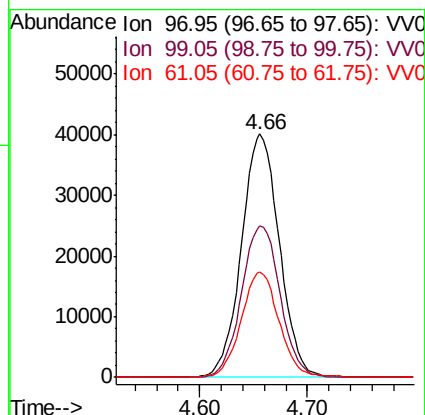
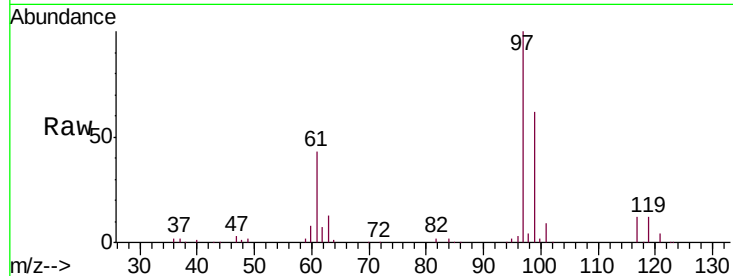




#29
 1,1,1-Trichloroethane
 Concen: 5.102 ug/L
 RT: 4.66 min Scan# 1109
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

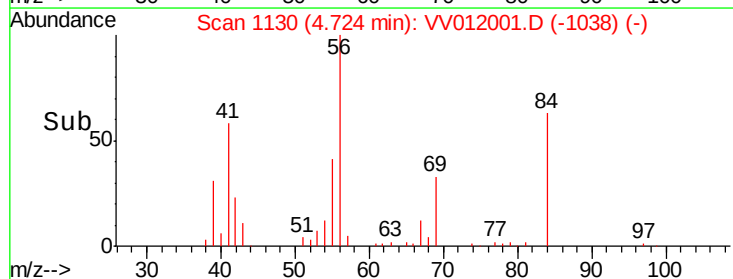
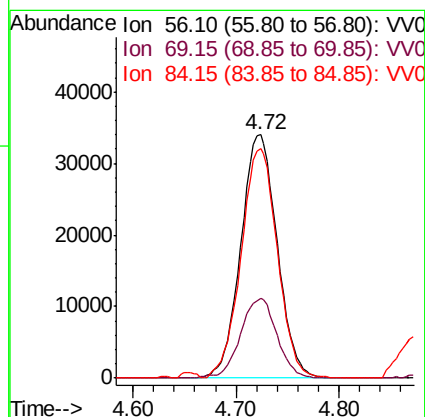
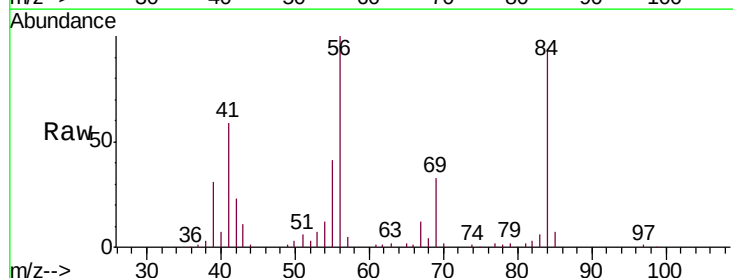
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

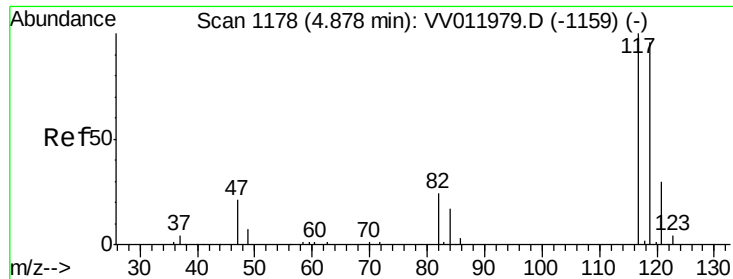
Tgt Ion: 97 Resp: 98160
 Ion Ratio Lower Upper
 97 100
 99 63.2 51.7 77.5
 61 43.2 35.1 52.7



#30
 Cyclohexane
 Concen: 4.584 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 56 Resp: 83323
 Ion Ratio Lower Upper
 56 100
 69 32.7 25.4 38.2
 84 94.3 73.4 110.0





#31

Carbon tetrachloride

Concen: 4.974 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

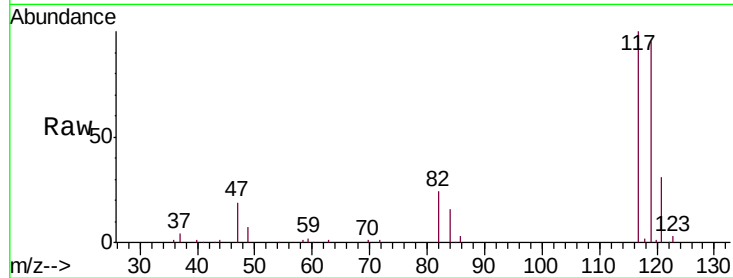
VSTD00547

Tgt Ion:117 Resp: 86151

Ion Ratio Lower Upper

117 100

119 97.9 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

40000

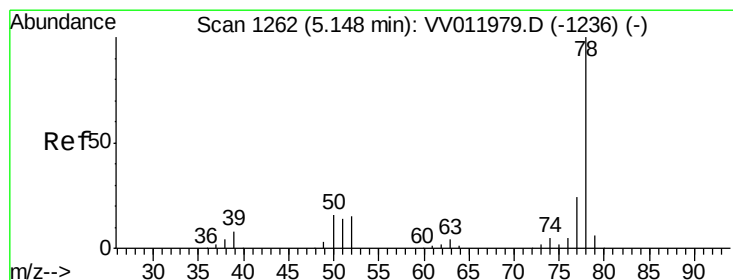
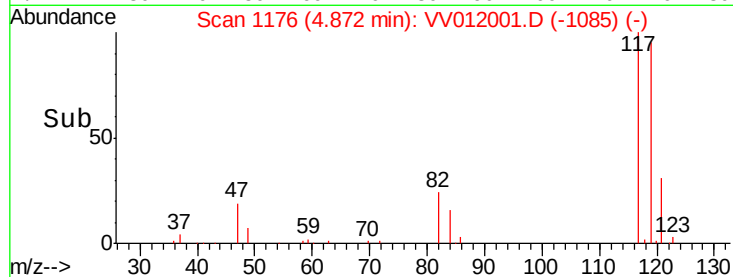
30000

20000

10000

0

Time--> 4.75 4.80 4.85 4.90 4.95



#33

Benzene

Concen: 4.870 ug/L

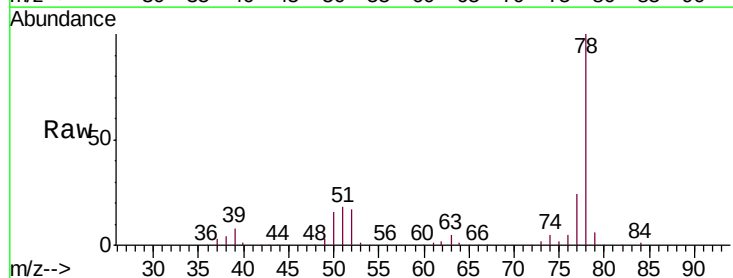
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Tgt Ion: 78 Resp: 215331



Abundance Ion 78.10 (77.80 to 78.80): VV0

120000

100000

80000

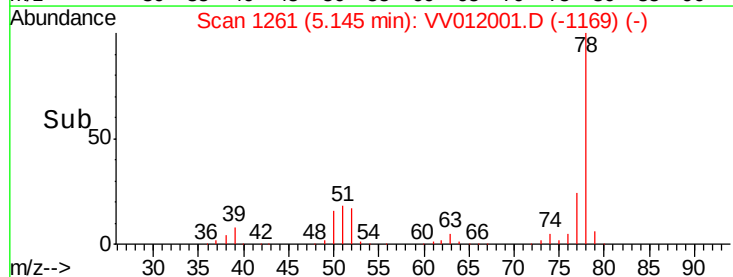
60000

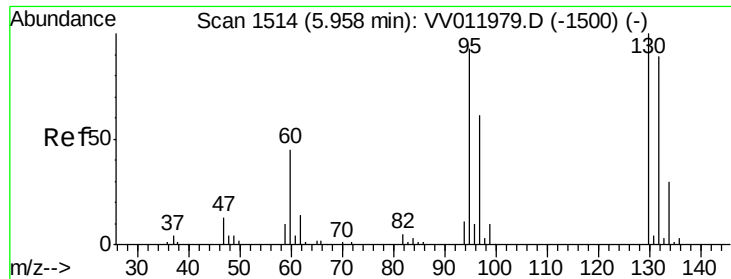
40000

20000

0

Time--> 5.00 5.10 5.20

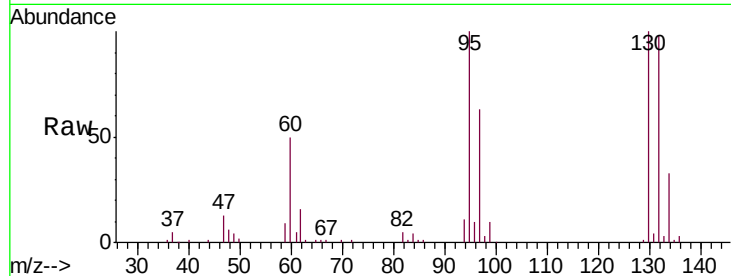




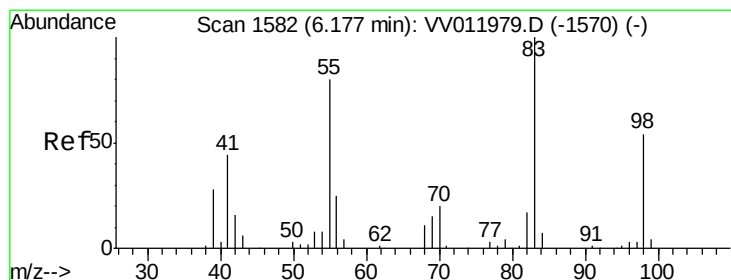
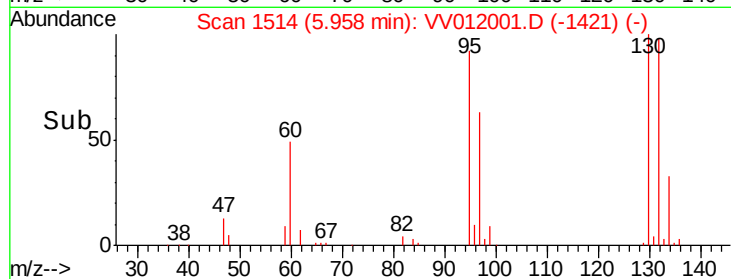
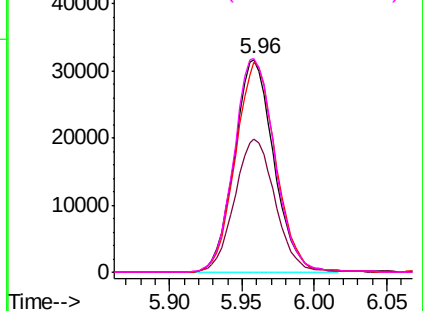
#34
 Trichloroethene
 Concen: 4.875 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

Tgt Ion: 95 Resp: 59864
 Ion Ratio Lower Upper
 95 100
 97 62.8 45.6 84.6
 132 98.6 71.3 132.3
 130 100.3 72.8 135.2

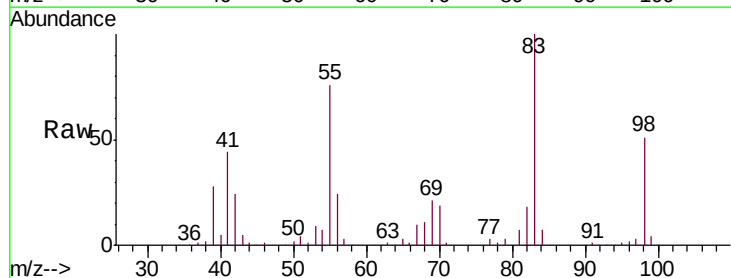


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

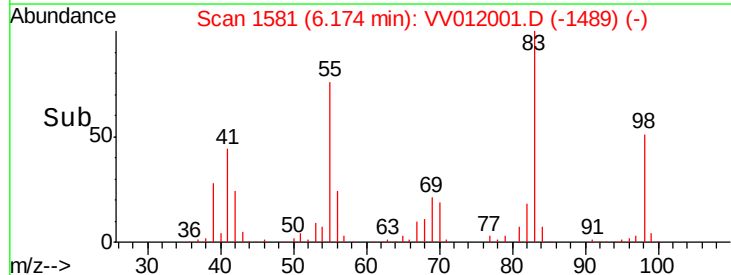
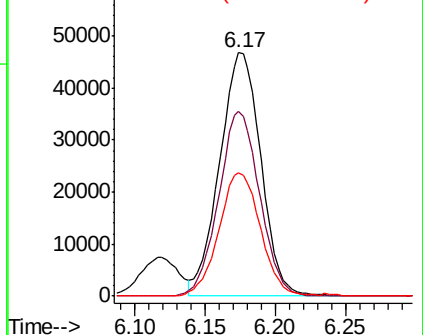


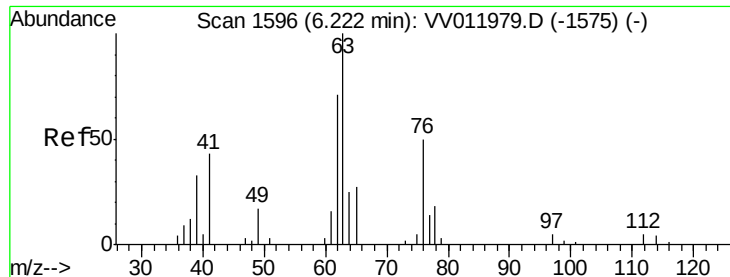
#35
 Methylcyclohexane
 Concen: 4.990 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 83 Resp: 95374
 Ion Ratio Lower Upper
 83 100
 55 75.5 63.0 94.4
 98 51.2 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

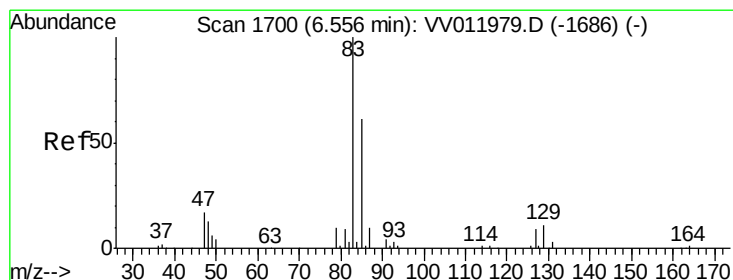
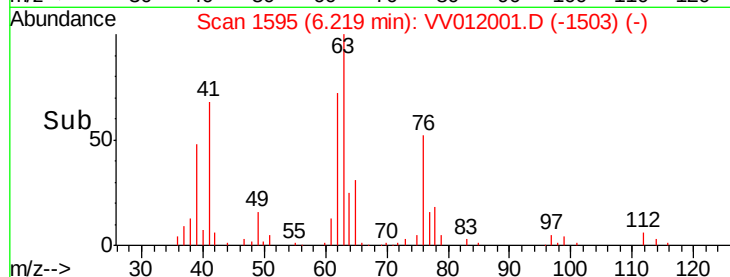
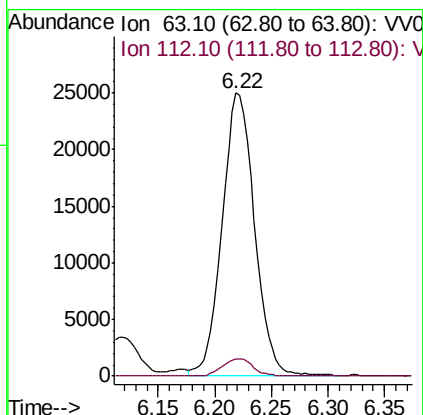
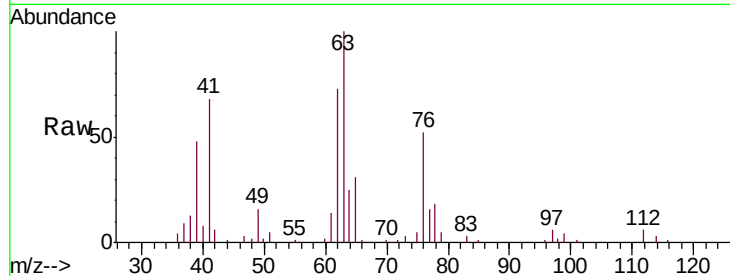




#37
 1,2-Dichloropropane
 Concen: 4.704 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

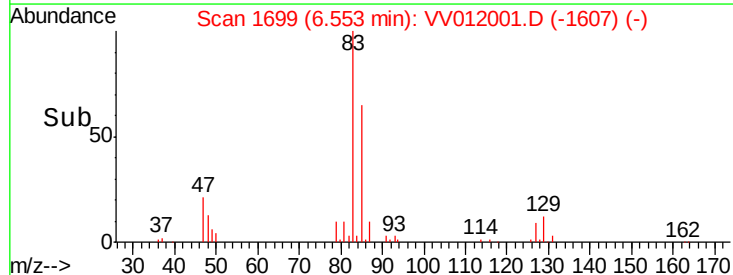
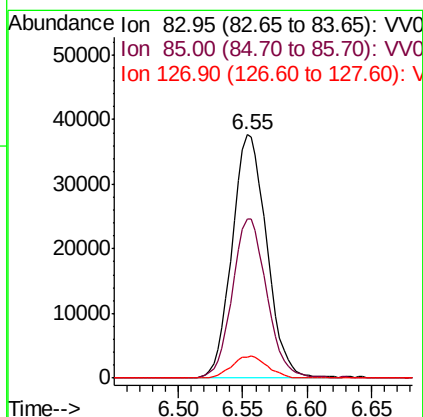
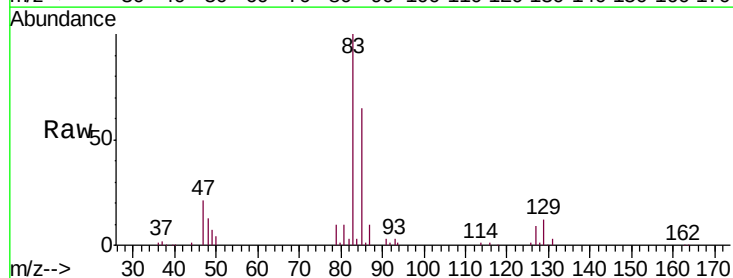
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

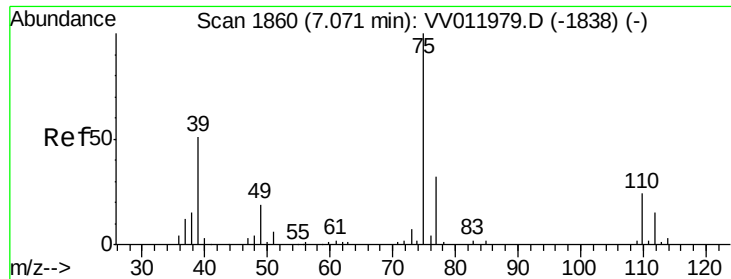
Tgt Ion: 63 Resp: 50005
 Ion Ratio Lower Upper
 63 100
 112 5.7 4.2 6.4



#38
 Bromodichloromethane
 Concen: 4.958 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 83 Resp: 70422
 Ion Ratio Lower Upper
 83 100
 85 65.5 44.4 82.4
 127 8.8 7.9 11.9

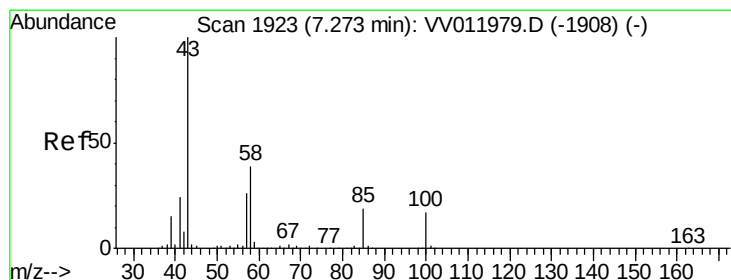
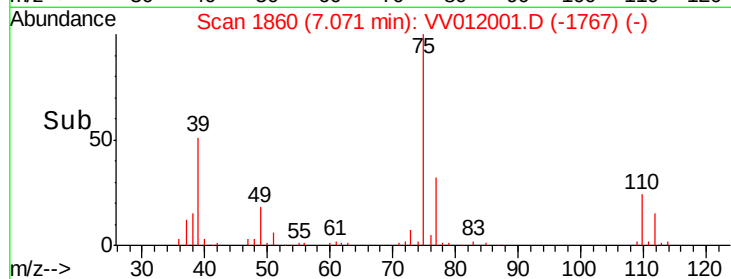
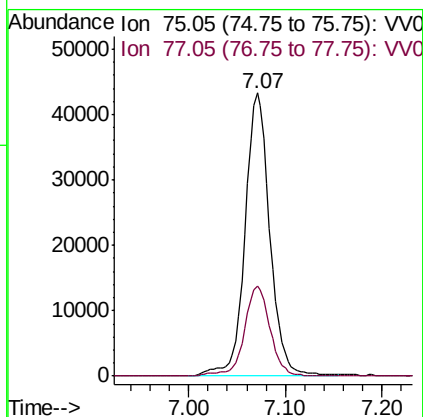
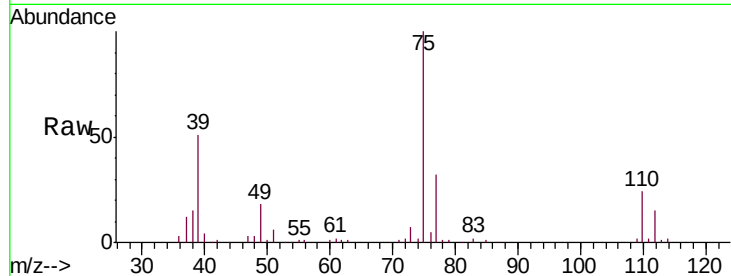




#39
 cis-1,3-Dichloropropene
 Concen: 4.901 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

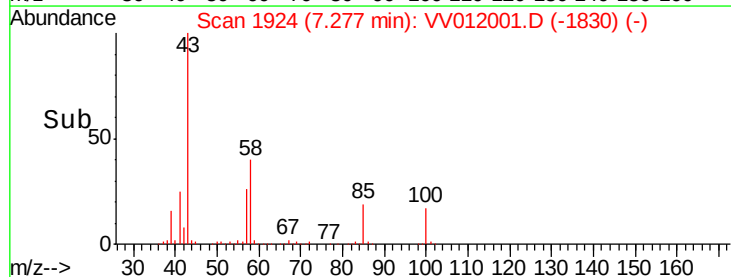
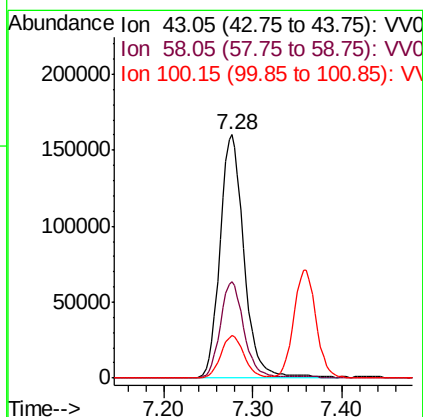
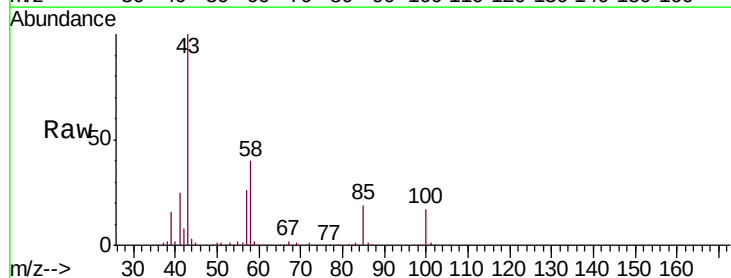
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

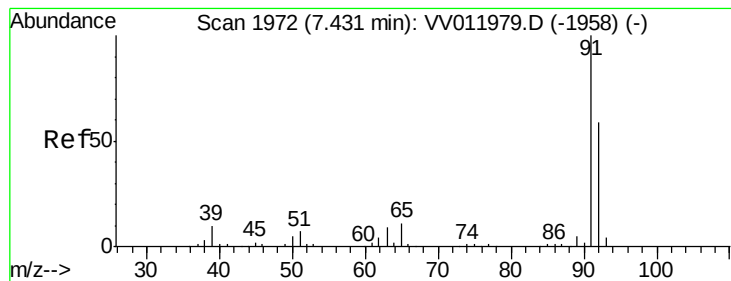
Tgt Ion: 75 Resp: 77223
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 50.354 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 43 Resp: 299073
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.2 46.8
 100 16.9 13.5 20.3





#42

Toluene

Concen: 5.043 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

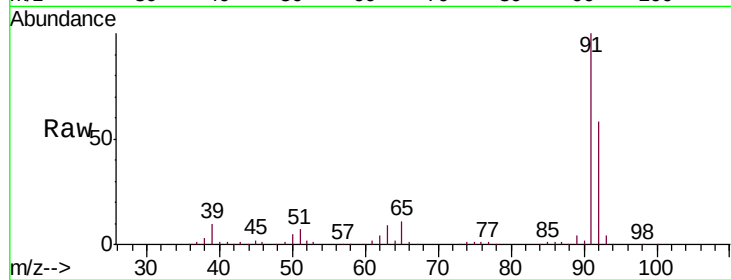
VSTD00547

Tgt Ion: 91 Resp: 239357

Ion Ratio Lower Upper

91 100

92 58.5 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

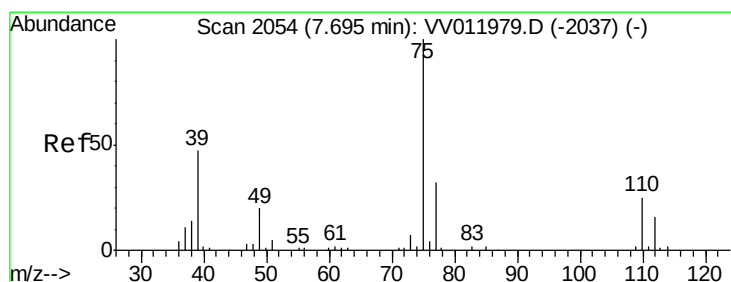
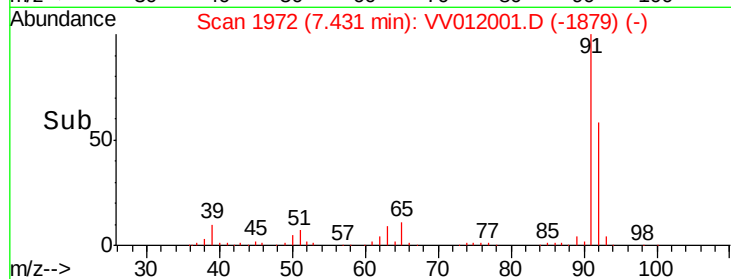
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.028 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV012001.D

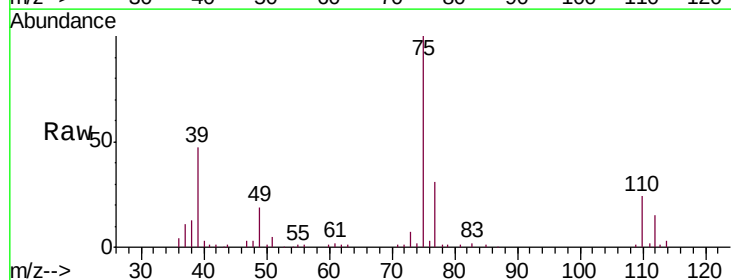
Acq: 24 Jul 2019 10:13

Tgt Ion: 75 Resp: 63009

Ion Ratio Lower Upper

75 100

77 31.2 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

40000

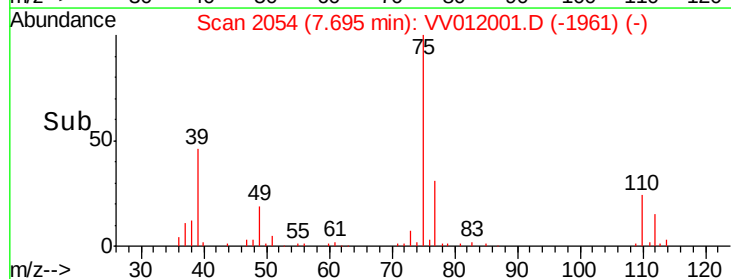
30000

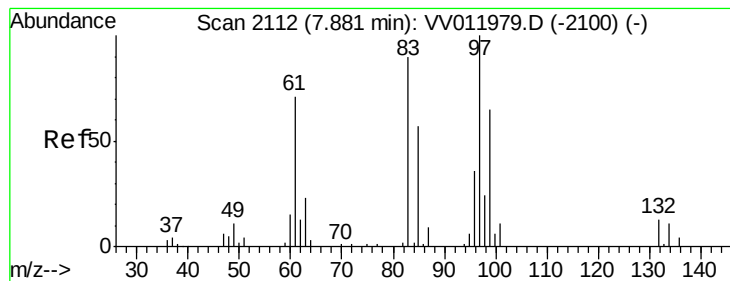
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.914 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

Tgt Ion: 97 Resp: 36077

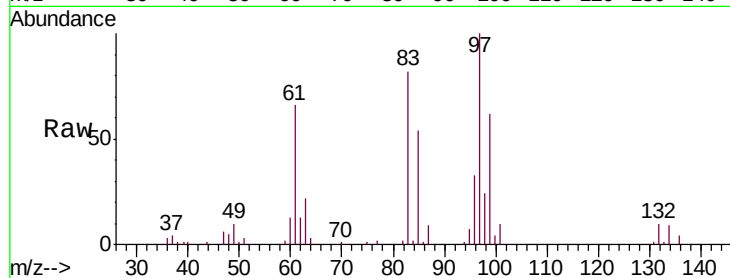
Ion Ratio Lower Upper

97 100

99 62.2 44.0 81.8

83 81.7 59.5 110.5

85 54.1 36.6 68.0



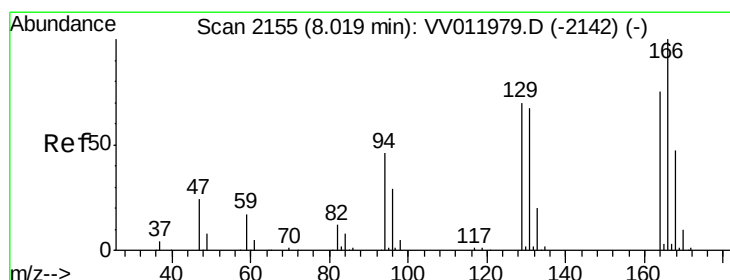
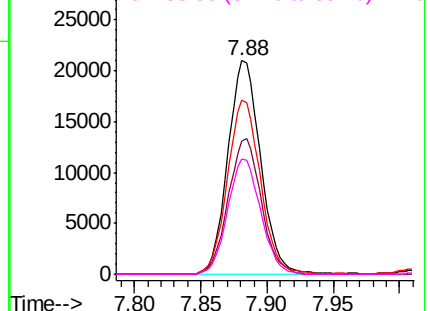
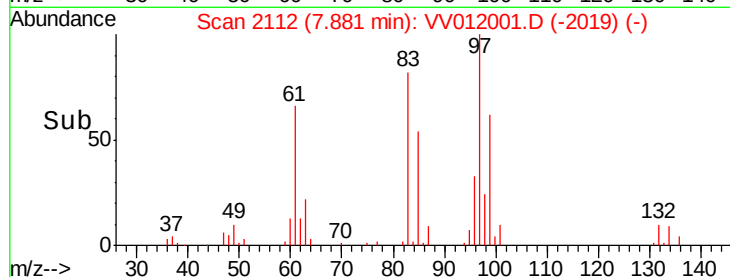
Abundance

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: 5.136 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Tgt Ion: 164 Resp: 54415

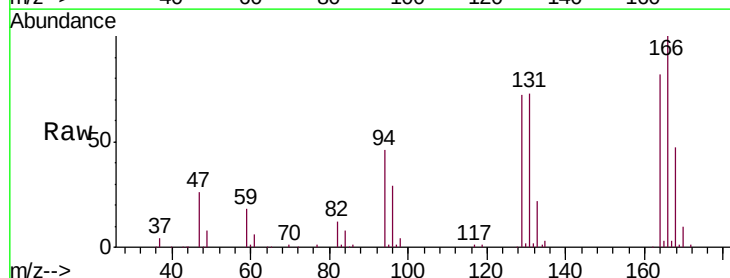
Ion Ratio Lower Upper

164 100

129 87.5 62.5 116.1

131 89.0 58.6 108.8

166 121.6 88.2 163.8



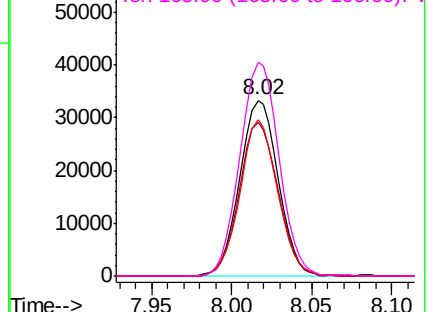
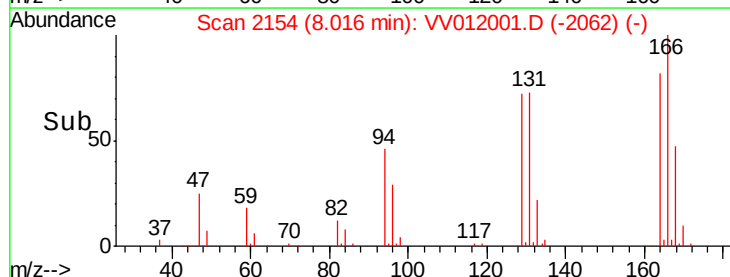
Abundance

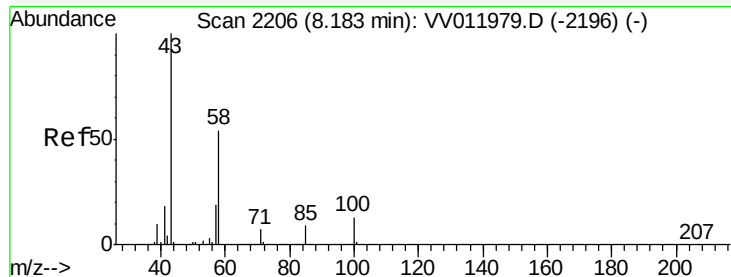
Ion 163.90 (163.60 to 164.60): V

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

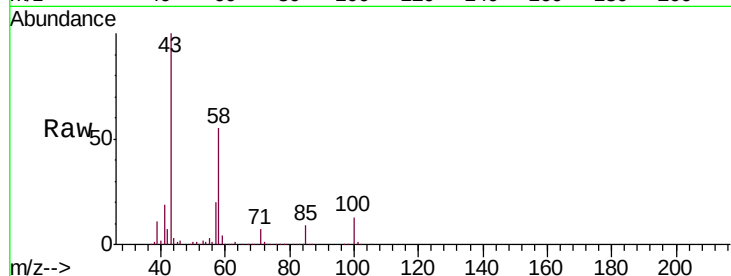




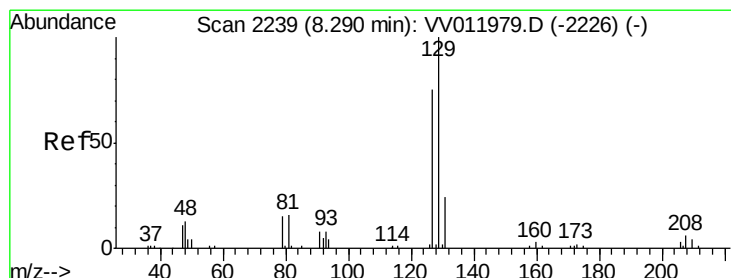
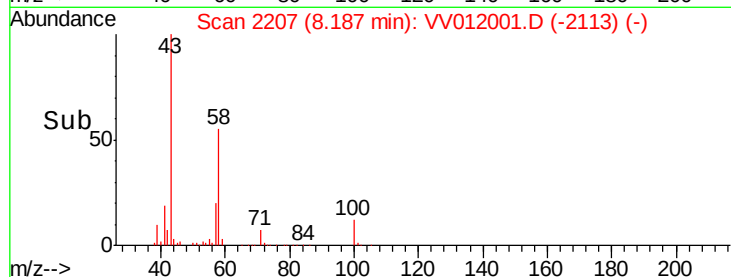
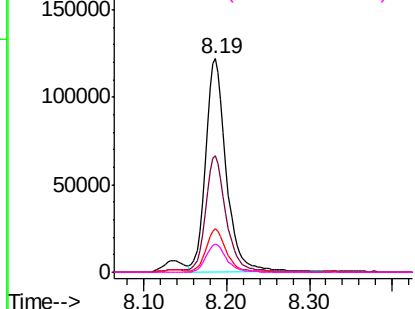
#48
2-Hexanone
Concen: 51.280 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD00547

Tgt Ion: 43 Resp: 213659
Ion Ratio Lower Upper
43 100
58 53.3 43.7 65.5
57 19.8 16.0 24.0
100 13.3 10.5 15.7

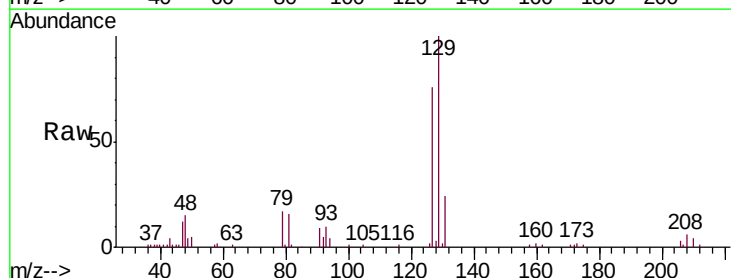


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

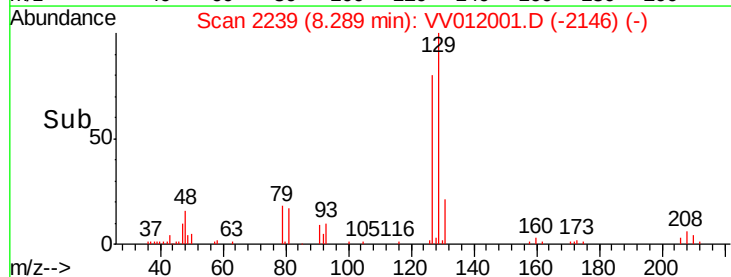
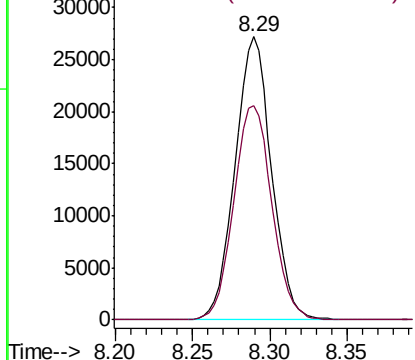


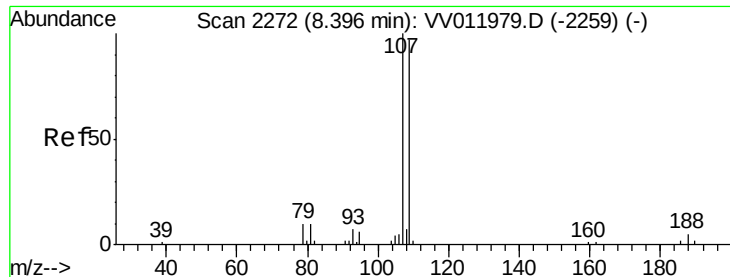
#49
Dibromochloromethane
Concen: 4.944 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

Tgt Ion: 129 Resp: 44447
Ion Ratio Lower Upper
129 100
127 75.9 55.3 102.7



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

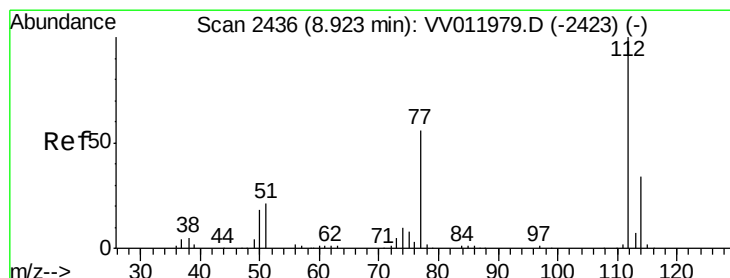
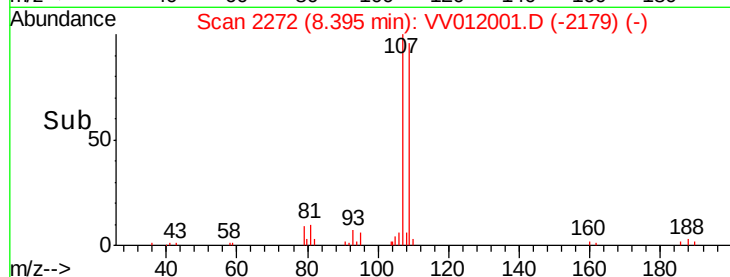
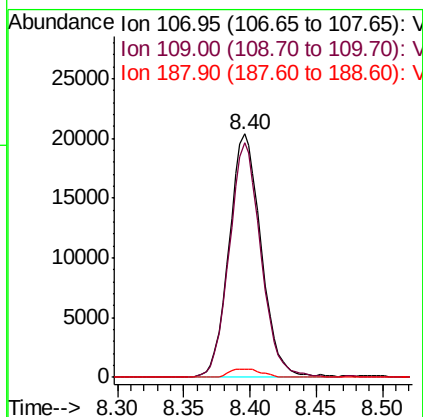
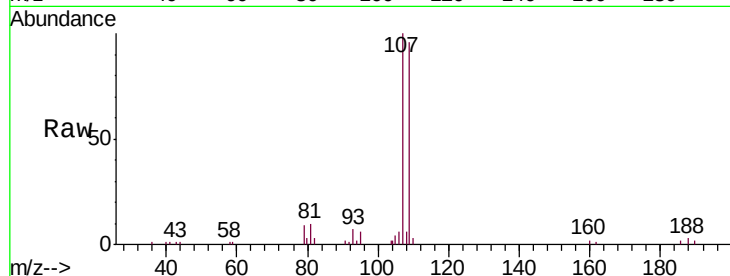




#50
1,2-Dibromoethane
Concen: 4.947 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

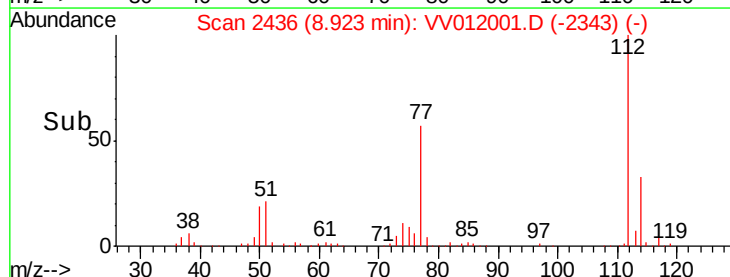
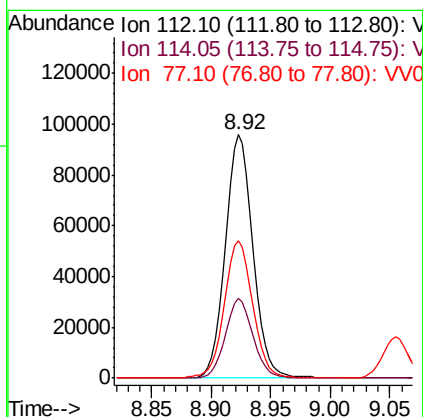
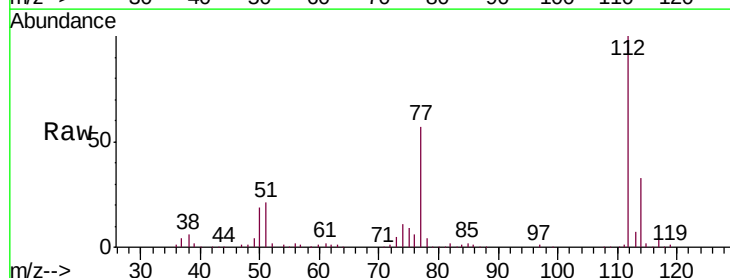
Instrument :
MSVOA_V
ClientSampled :
VSTD00547

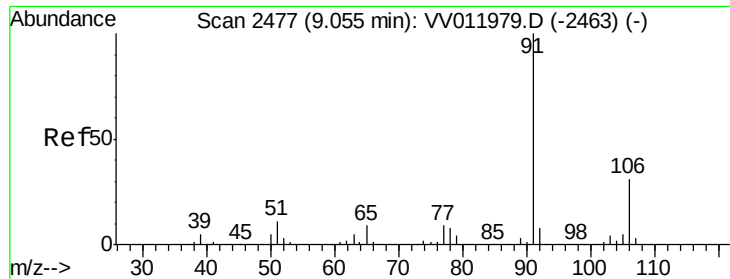
Tgt Ion:107 Resp: 34293
Ion Ratio Lower Upper
107 100
109 96.2 68.1 126.5
188 3.4 3.5 5.3#



#51
Chlorobenzene
Concen: 4.962 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012001.D
Acq: 24 Jul 2019 10:13

Tgt Ion:112 Resp: 154205
Ion Ratio Lower Upper
112 100
114 32.7 23.0 42.8
77 56.6 46.4 69.6





#52

Ethylbenzene

Concen: 5.069 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

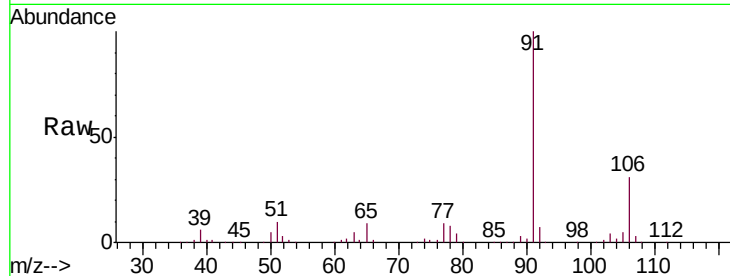
VSTD00547

Tgt Ion: 91 Resp: 274598

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V

200000

150000

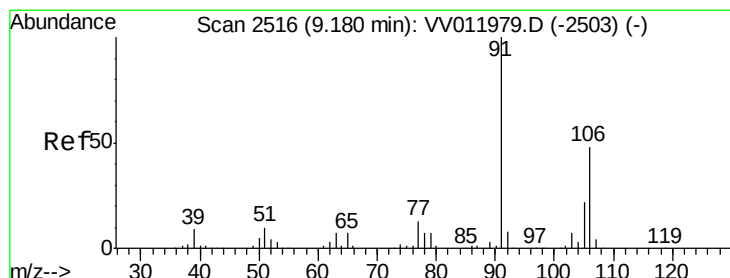
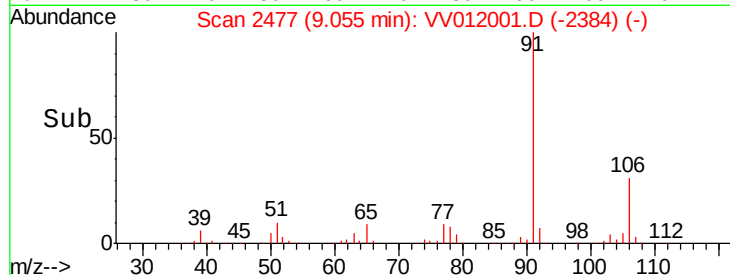
100000

50000

0

Time-->

8.95 9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 5.153 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012001.D

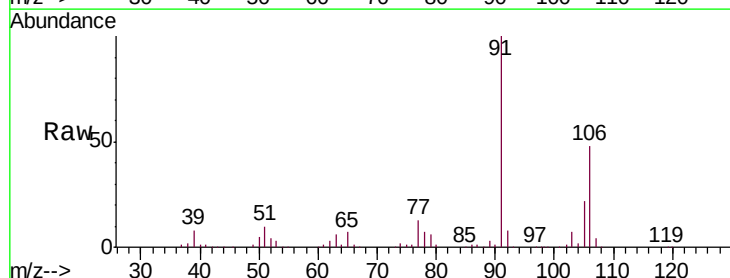
Acq: 24 Jul 2019 10:13

Tgt Ion: 106 Resp: 106266

Ion Ratio Lower Upper

106 100

91 208.7 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

150000

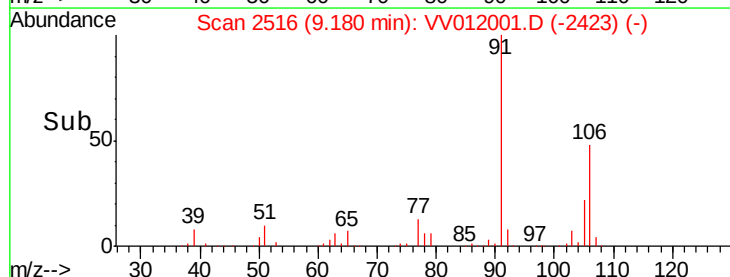
100000

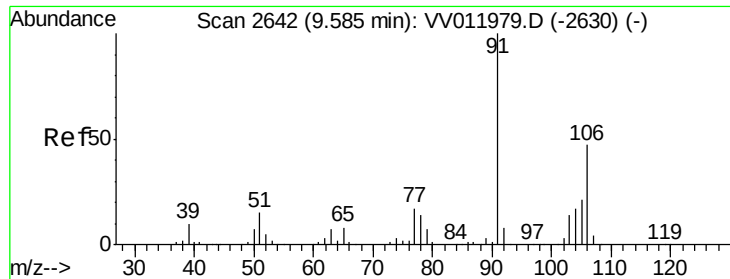
50000

0

Time-->

9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 5.054 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

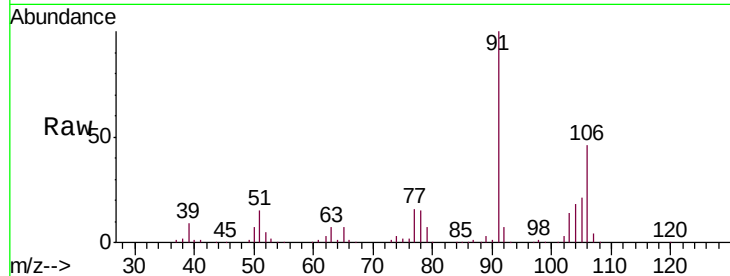
VSTD00547

Tgt Ion:106 Resp: 98819

Ion Ratio Lower Upper

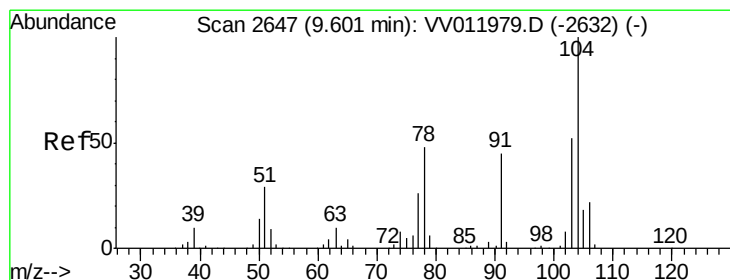
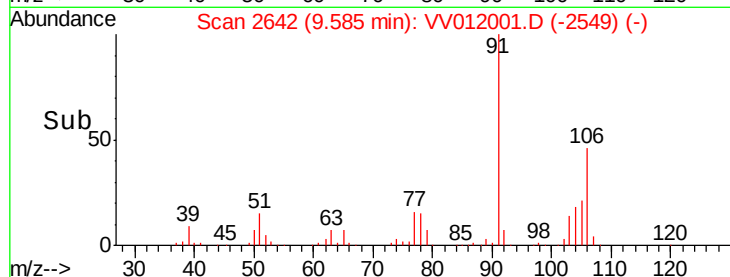
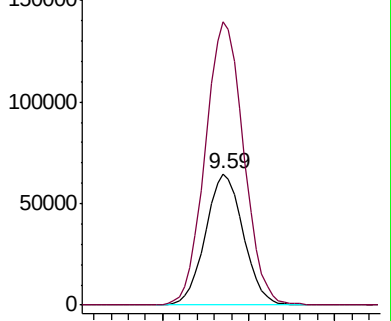
106 100

91 215.9 151.0 280.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.175 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012001.D

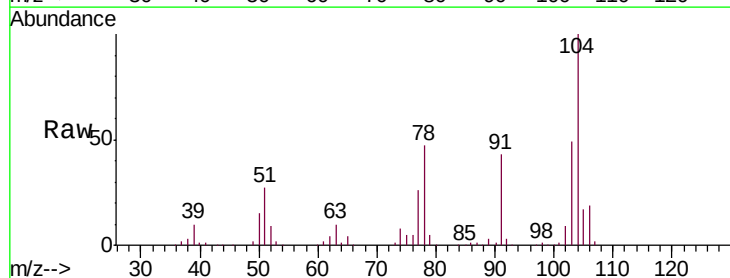
Acq: 24 Jul 2019 10:13

Tgt Ion:104 Resp: 170523

Ion Ratio Lower Upper

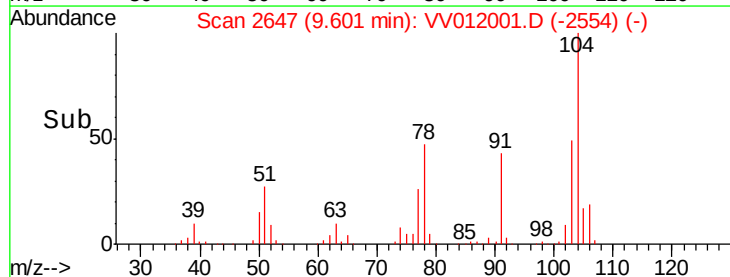
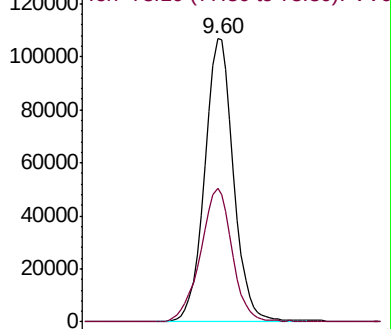
104 100

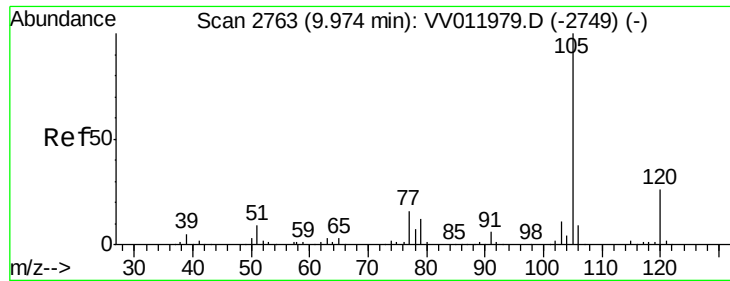
78 47.2 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.086 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

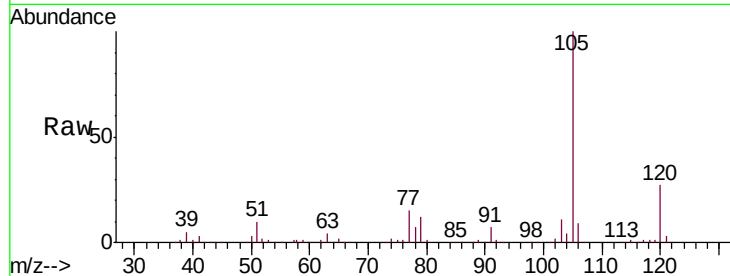
Tgt Ion: 105 Resp: 277691

Ion Ratio Lower Upper

105 100

120 26.6 20.8 31.2

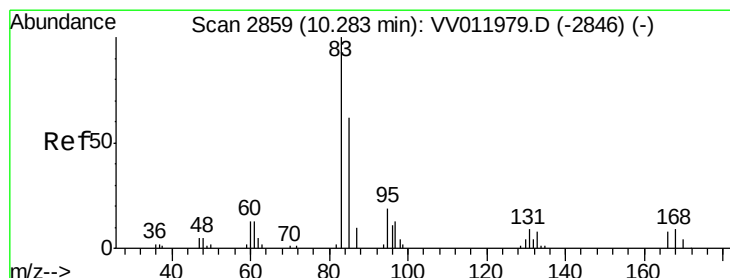
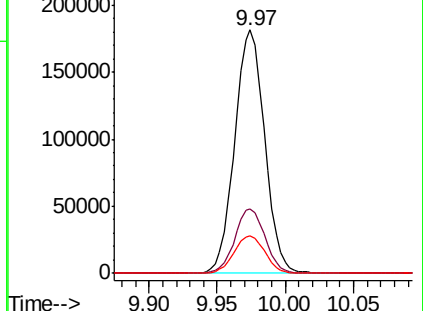
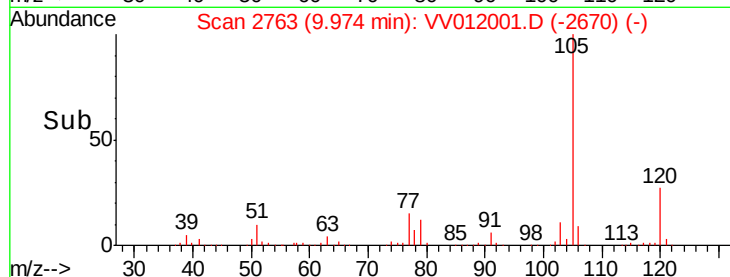
77 16.0 12.6 19.0



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: 4.906 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

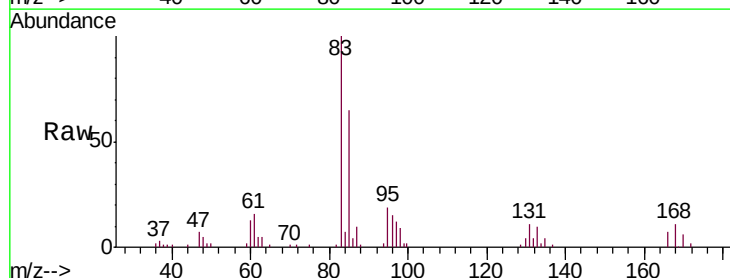
Tgt Ion: 83 Resp: 39040

Ion Ratio Lower Upper

83 100

85 65.5 46.3 85.9

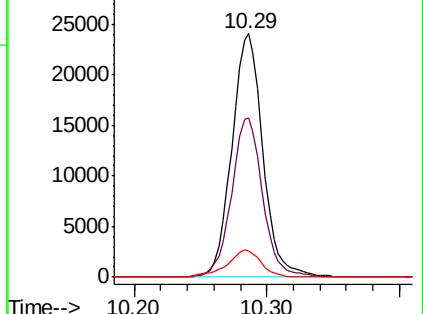
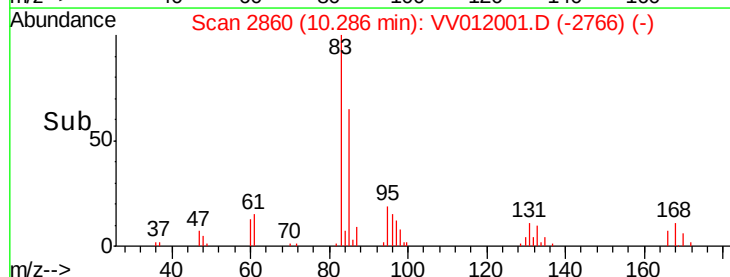
131 10.9 8.9 13.3

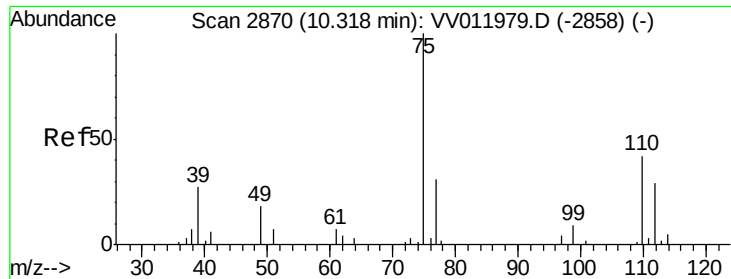


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

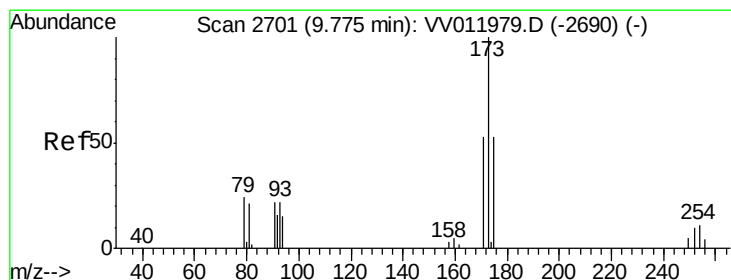
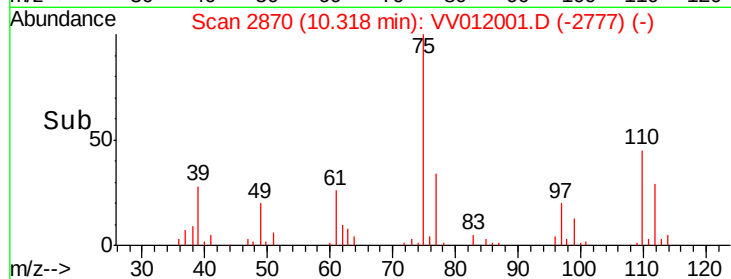
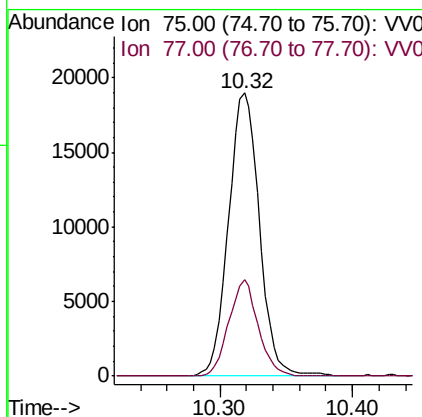
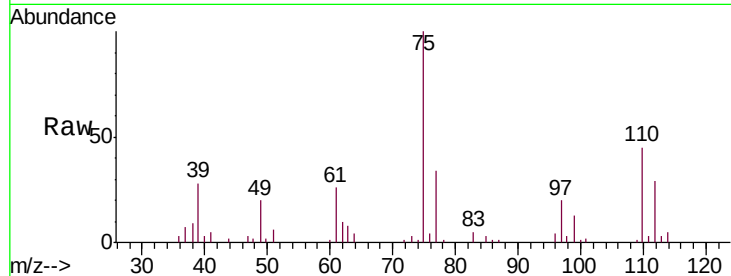




#59
 1,2,3-Trichloropropane
 Concen: 4.966 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

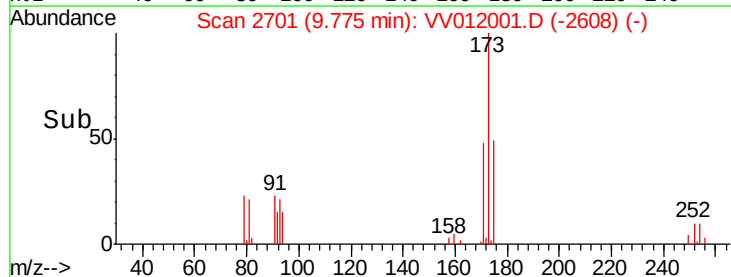
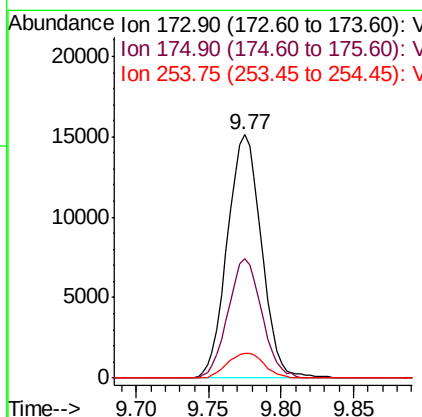
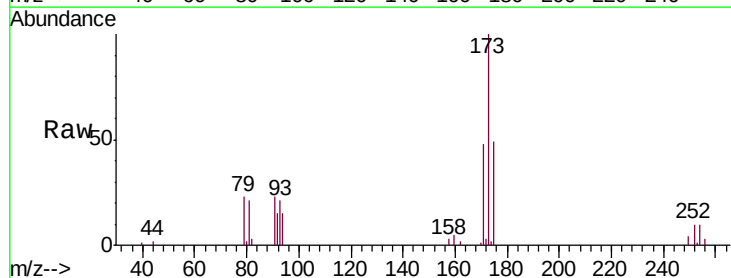
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

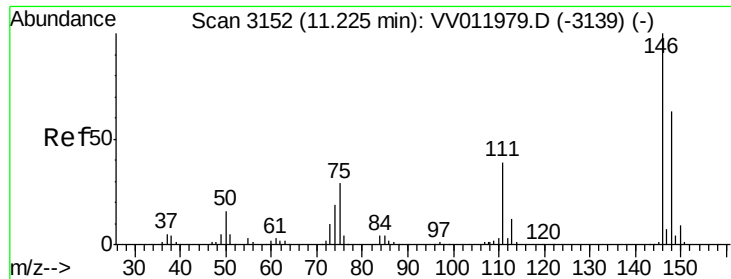
Tgt Ion: 75 Resp: 30789
 Ion Ratio Lower Upper
 75 100
 77 32.2 26.2 39.2



#61
 Bromoform
 Concen: 4.871 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 173 Resp: 24708
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.6 59.4
 254 10.9 7.9 11.9

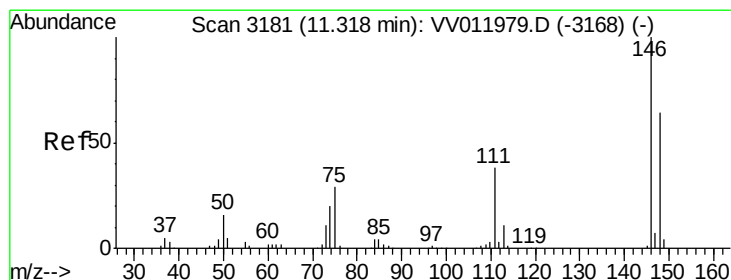
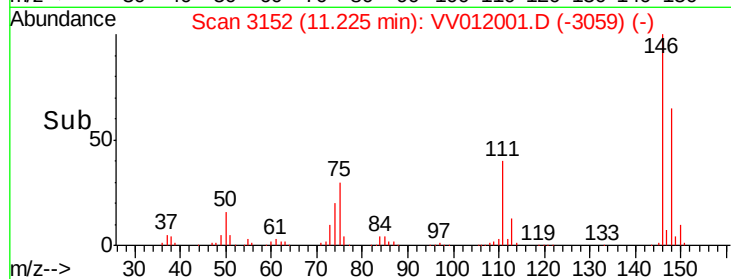
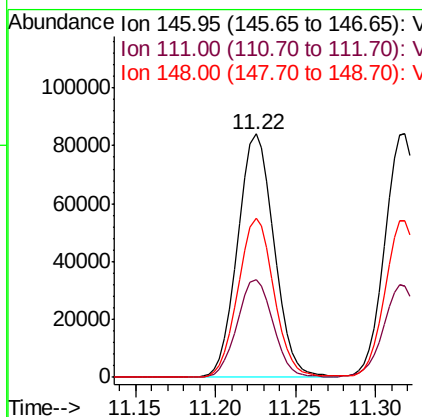
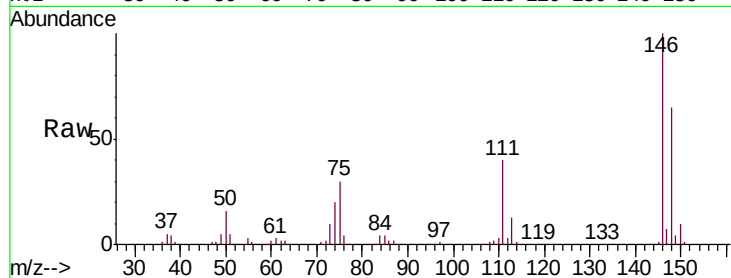




#62
 1,3-Dichlorobenzene
 Concen: 4.817 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

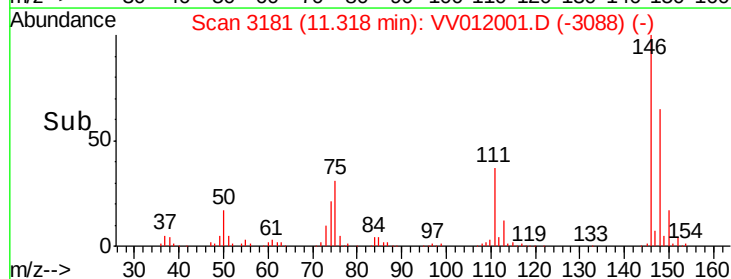
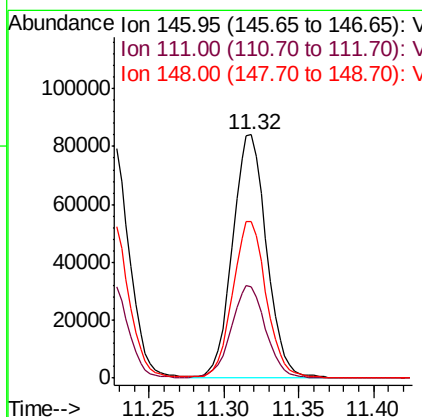
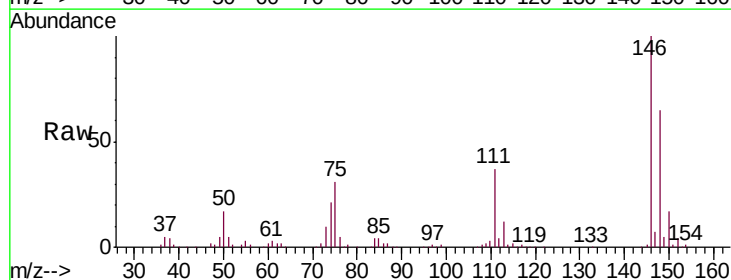
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

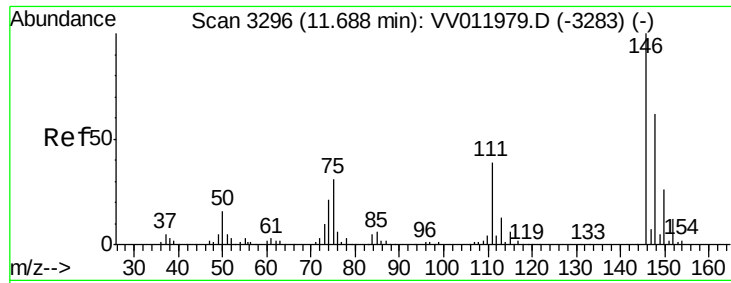
Tgt Ion:146 Resp: 130179
 Ion Ratio Lower Upper
 146 100
 111 40.2 27.1 50.3
 148 65.4 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.769 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion:146 Resp: 132698
 Ion Ratio Lower Upper
 146 100
 111 37.5 26.0 48.2
 148 64.5 43.0 80.0

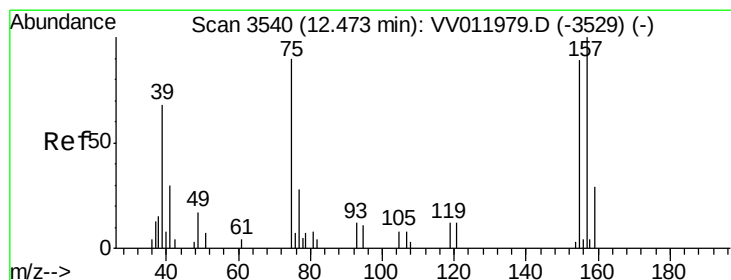
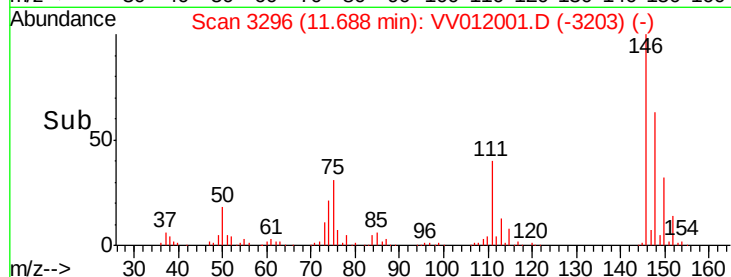
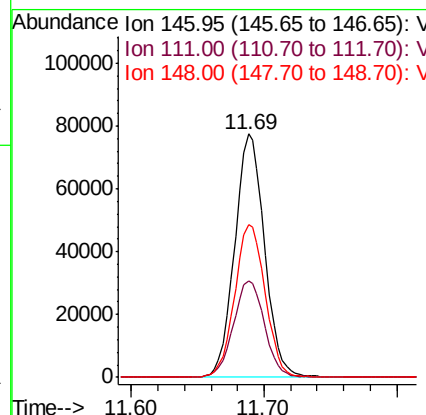
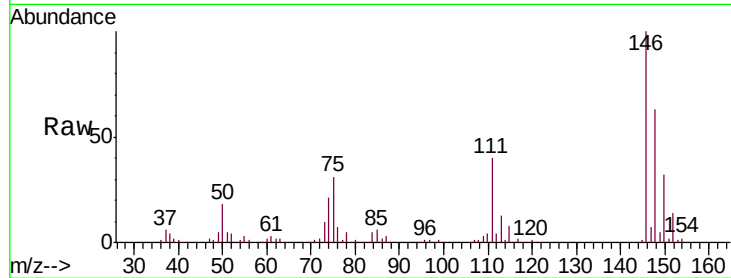




#65
 1,2-Dichlorobenzene
 Concen: 4.863 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

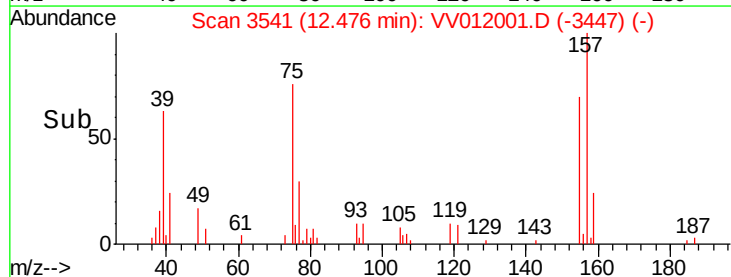
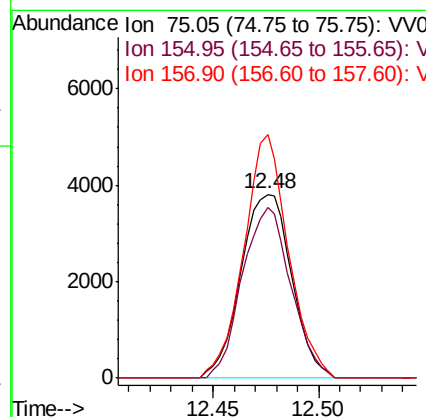
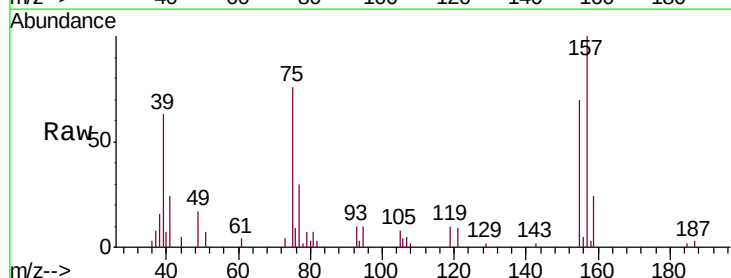
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00547

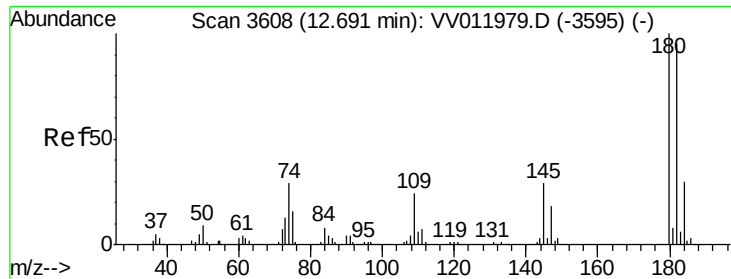
Tgt Ion: 146 Resp: 121012
 Ion Ratio Lower Upper
 146 100
 111 39.7 32.5 48.7
 148 62.7 51.4 77.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.418 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion: 75 Resp: 6387
 Ion Ratio Lower Upper
 75 100
 155 92.7 69.5 104.3
 157 132.2 96.2 144.2

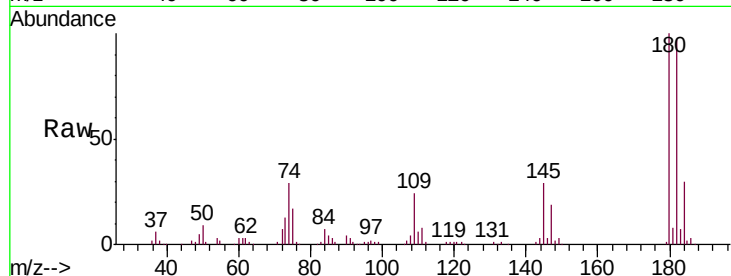




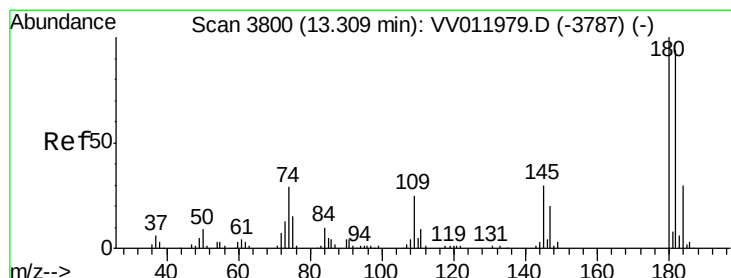
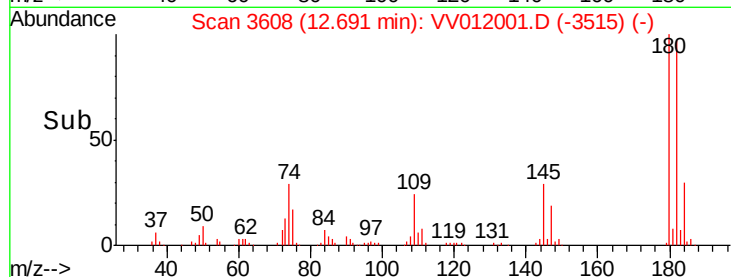
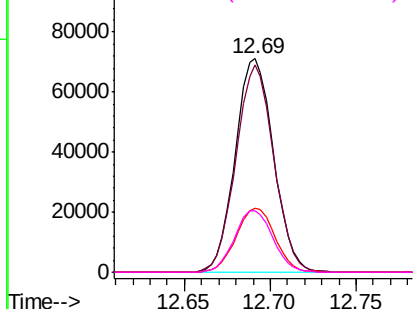
#67
 1,3,5-Trichlorobenzene
 Concen: 4.868 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00547

Tgt Ion:180 Resp: 110038
 Ion Ratio Lower Upper
 180 100
 182 95.8 77.4 116.0
 184 30.2 25.2 37.8
 145 29.1 24.4 36.6

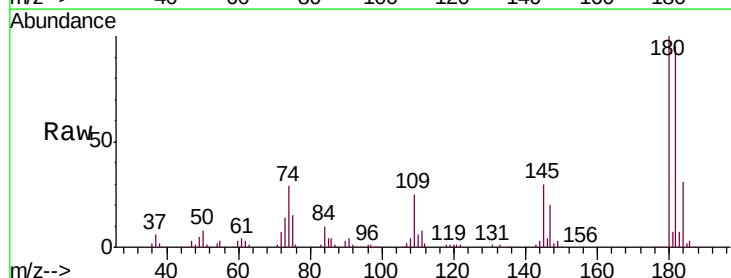


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

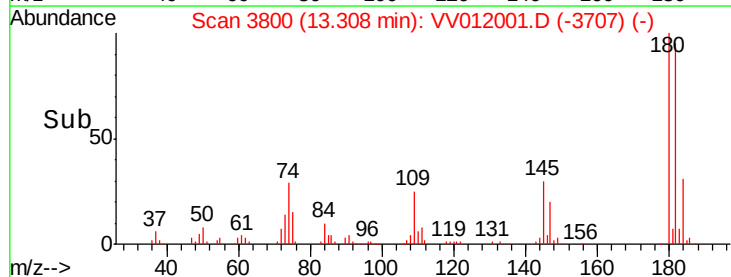
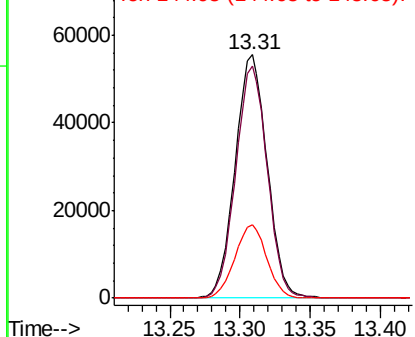


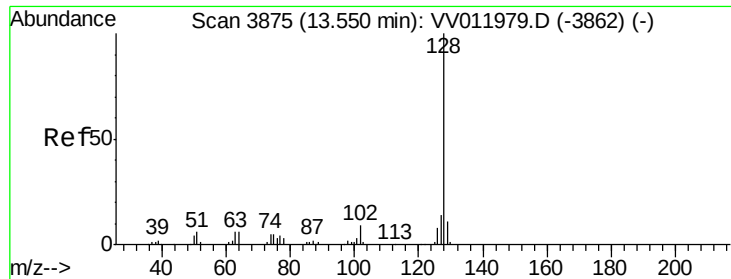
#68
 1,2,4-trichlorobenzene
 Concen: 4.820 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV012001.D
 Acq: 24 Jul 2019 10:13

Tgt Ion:180 Resp: 88488
 Ion Ratio Lower Upper
 180 100
 182 93.8 75.8 113.8
 145 30.0 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: 4.545 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD00547

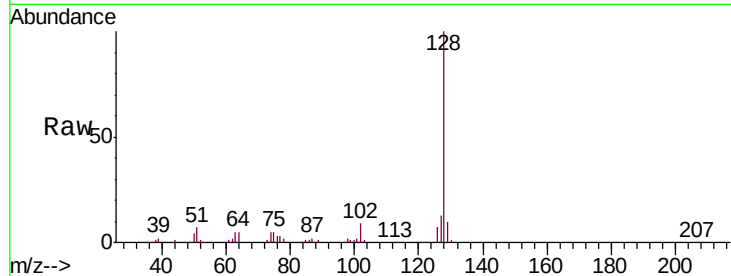
Tgt Ion:128 Resp: 125797

Ion Ratio Lower Upper

128 100

129 10.8 8.2 12.2

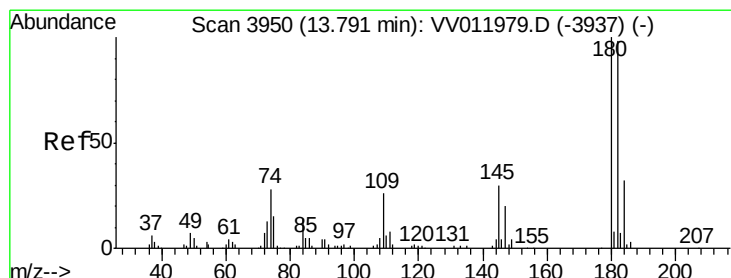
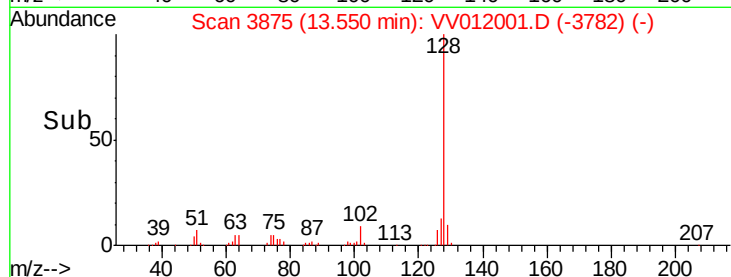
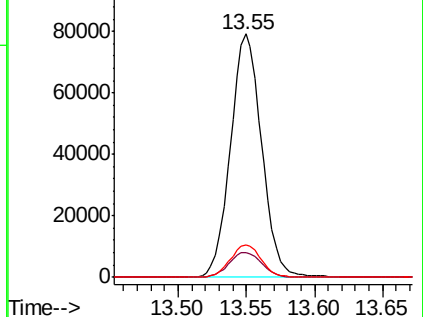
127 13.1 10.8 16.2



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: 4.831 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012001.D

Acq: 24 Jul 2019 10:13

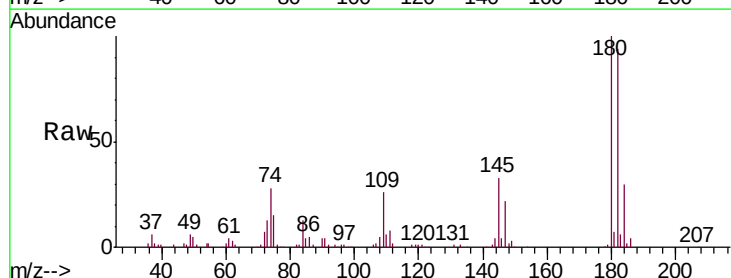
Tgt Ion:180 Resp: 80449

Ion Ratio Lower Upper

180 100

182 94.5 75.5 113.3

145 31.5 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

