

Data File : VV014055.D
Acq On : 13 Dec 2019 16:24
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Quant Time: Dec 14 03:28:39 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Dec 14 03:25:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	404572	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	383083	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	222923	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	113499	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.58	69	102728	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.60%
11) 1,1-Dichloroethene-d2	2.13	63	193085	4.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.60%
20) 2-Butanone-d5	3.92	46	271205	52.10	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.20%
24) Chloroform-d	4.40	84	223012	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
26) 1,2-Dichloroethane-d4	5.07	65	104687	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
32) Benzene-d6	5.09	84	384783	3.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.80%
36) 1,2-Dichloropropane-d6	6.11	67	124639	4.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.60%
41) Toluene-d8	7.35	98	342417	3.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.80%
43) trans-1,3-Dichloropropene-	7.66	79	45451	3.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.20%
46) 2-Hexanone-d5	8.13	63	185035	43.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.52%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	96964	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	156391	3.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	79.40%#

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	138853	5.153	ug/L 98
3) Chloromethane	1.25	50	138890	5.869	ug/L 99
5) Vinyl chloride	1.32	62	137607	5.693	ug/L 97
6) Bromomethane	1.53	94	77328	6.076	ug/L 96
8) Chloroethane	1.60	64	86514	5.940	ug/L 100
9) Trichlorofluoromethane	1.77	101	211022	5.623	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	129472	5.806	ug/L 97
12) 1,1-Dichloroethene	2.14	96	108292	5.567	ug/L 85
13) Acetone	2.18	43	198062	54.410	ug/L # 56
14) Carbon disulfide	2.32	76	222308	4.951	ug/L 100
15) Methyl Acetate	2.46	43	44582	5.471	ug/L 100
16) Methylene chloride	2.53	84	141698	5.318	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	256252	4.814	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	112075	5.102	ug/L 96
19) 1,1-Dichloroethane	3.23	63	237240	5.410	ug/L 99
21) 2-Butanone	4.01	43	289370	52.591	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	129273	5.019	ug/L # 92

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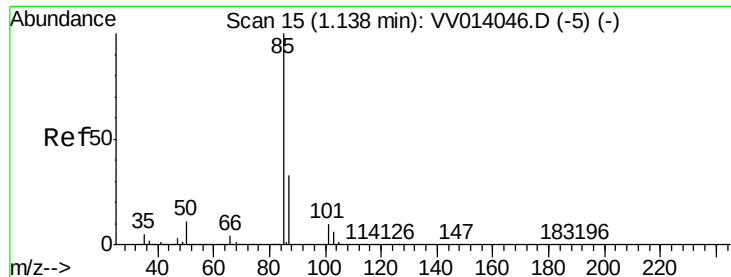
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	60121	5.312	ug/L	97
25) Chloroform	4.42	83	254644	5.478	ug/L	100
27) 1,2-Dichloroethane	5.17	62	131080	4.927	ug/L	96
29) 1,1,1-Trichloroethane	4.65	97	205495	5.244	ug/L	100
30) Cyclohexane	4.72	56	153133	4.677	ug/L	98
31) Carbon tetrachloride	4.87	117	183171	5.313	ug/L	100
33) Benzene	5.14	78	470121	5.003	ug/L	100
34) Trichloroethene	5.96	95	126643	4.885	ug/L	97
35) Methylcyclohexane	6.17	83	161233	4.661	ug/L	97
37) 1,2-Dichloropropane	6.22	63	123556	5.116	ug/L	99
38) Bromodichloromethane	6.55	83	162609	5.103	ug/L	98
39) cis-1,3-Dichloropropene	7.06	75	161269	4.706	ug/L	99
40) 4-Methyl-2-pentanone	7.26	43	662837	47.037	ug/L	98
42) Toluene	7.43	91	508660	5.046	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	129423	4.825	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	87749	5.098	ug/L	99
47) Tetrachloroethene	8.01	164	111058	4.934	ug/L	98
48) 2-Hexanone	8.17	43	494733	49.186	ug/L	99
49) Dibromochloromethane	8.28	129	112186	5.082	ug/L	95
50) 1,2-Dibromoethane	8.39	107	76957	4.937	ug/L	98
51) Chlorobenzene	8.92	112	340570	4.856	ug/L	99
52) Ethylbenzene	9.05	91	542966	4.959	ug/L	97
53) m,p-xylene	9.18	106	206549	4.948	ug/L	98
54) o-xylene	9.58	106	200277	4.915	ug/L	95
55) Styrene	9.60	104	363339	5.164	ug/L	97
56) Isopropylbenzene	9.97	105	551720	4.968	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	94101	4.976	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	74151	5.002	ug/L	98
61) Bromoform	9.77	173	63768	4.545	ug/L	97
62) 1,3-Dichlorobenzene	11.22	146	319511	4.934	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	311658	4.728	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	285881	4.757	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	13003	3.723	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	249121	4.554	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	184345	4.109	ug/L	99
69) Naphthalene	13.55	128	202461	3.314	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	172640	4.224	ug/L	97

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

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#2

Dichlorodifluoromethane

Concen: 5.153 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

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Instrument :

MSVOA_V

ClientSampleId :

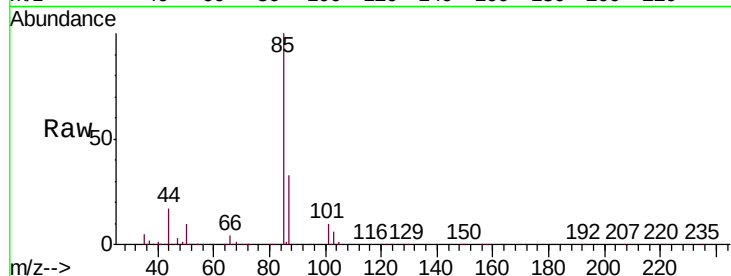
VSTD00556

Tgt Ion: 85 Resp: 138853

Ion Ratio Lower Upper

85 100

87 32.9 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV014046.D (-5) (-)

Ion 87.00 (86.70 to 87.70): VV014046.D (-5) (-)

1.14

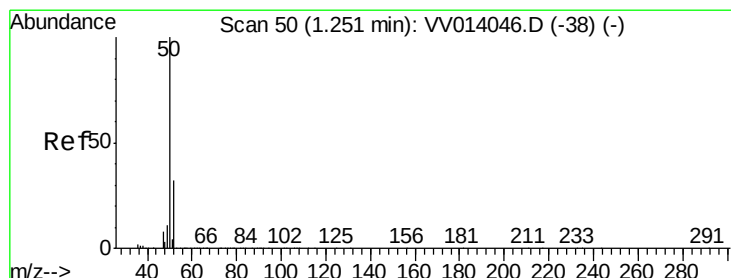
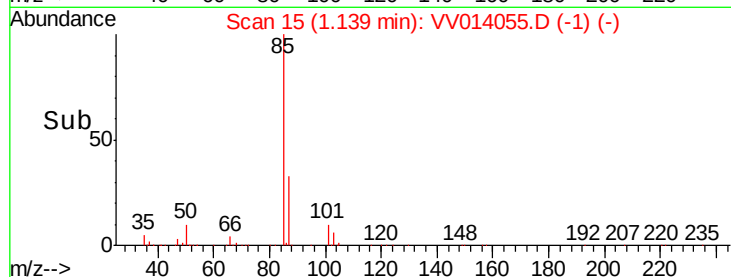
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.869 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014055.D

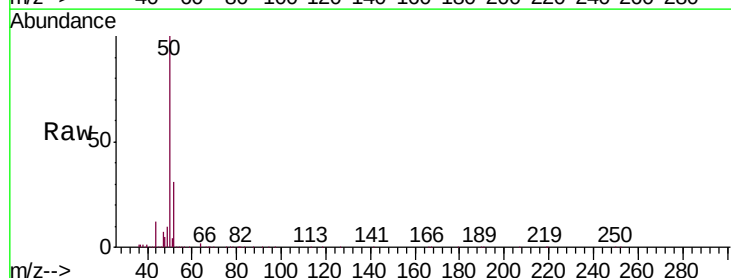
Acq: 13 Dec 2019 16:24

Tgt Ion: 50 Resp: 138890

Ion Ratio Lower Upper

50 100

52 31.4 22.5 41.7



Abundance Ion 50.05 (49.75 to 50.75): VV014046.D (-38) (-)

Ion 52.05 (51.75 to 52.75): VV014046.D (-38) (-)

1.25

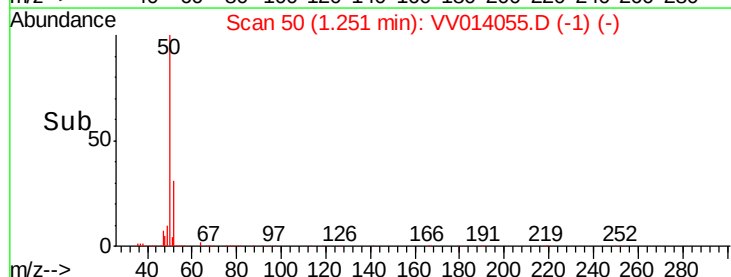
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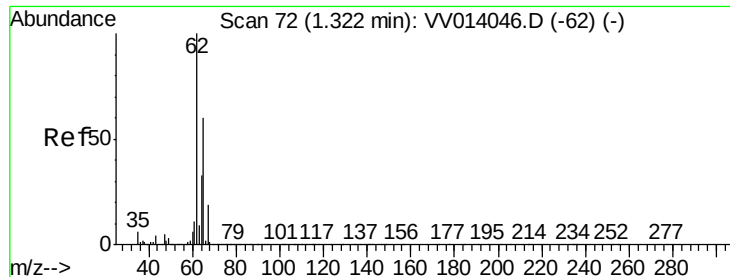
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 5.693 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

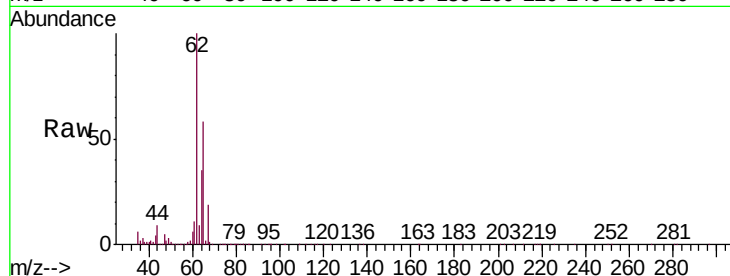
VSTD00556

Tgt Ion: 62 Resp: 137607

Ion Ratio Lower Upper

62 100

64 34.8 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

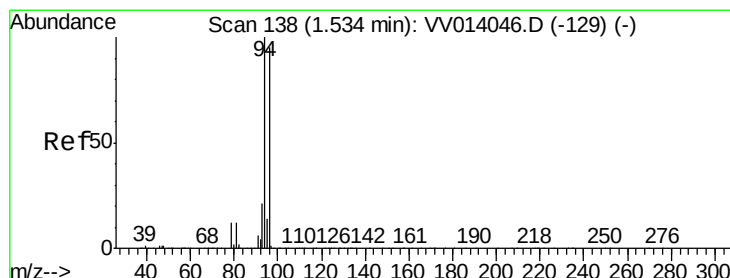
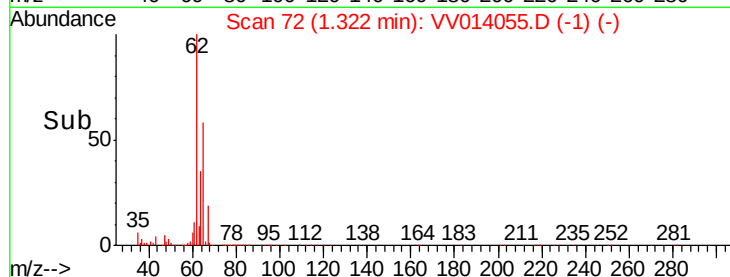
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 6.076 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV014055.D

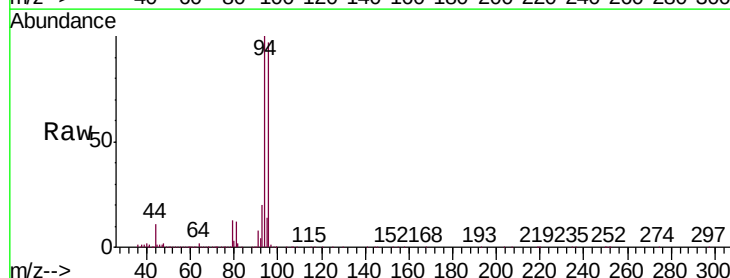
Acq: 13 Dec 2019 16:24

Tgt Ion: 94 Resp: 77328

Ion Ratio Lower Upper

94 100

96 96.6 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

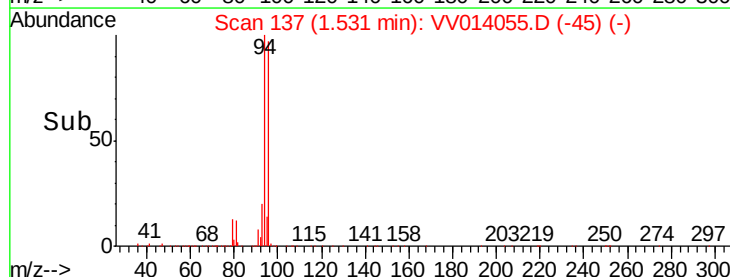
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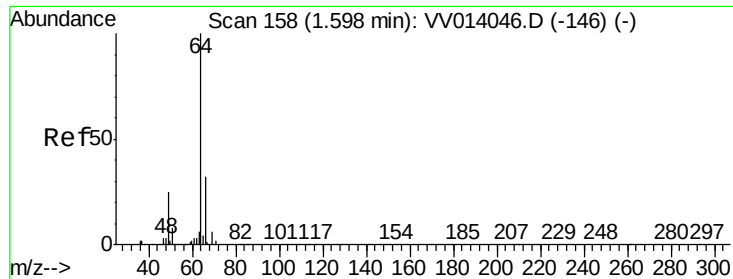
40000

20000

0

Time-->





#8

Chloroethane

Concen: 5.940 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

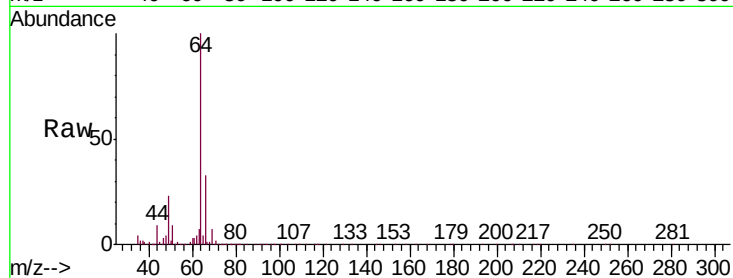
VSTD00556

Tgt Ion: 64 Resp: 86514

Ion Ratio Lower Upper

64 100

66 32.5 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV014046.D (-146) (-)

Ion 66.05 (65.75 to 66.75): VV014046.D (-146) (-)

1.60

80000

60000

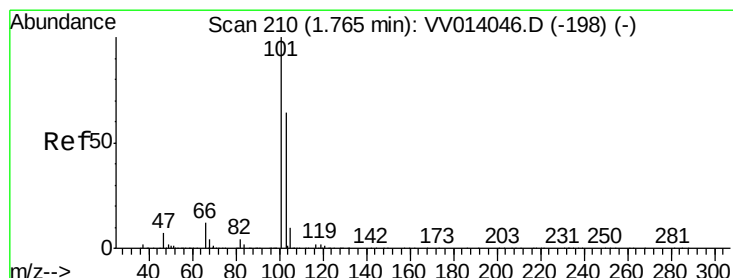
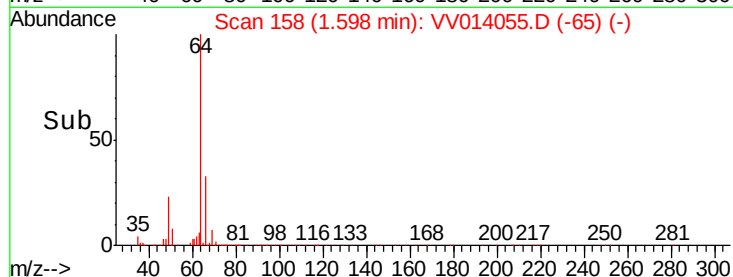
40000

20000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 5.623 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV014055.D

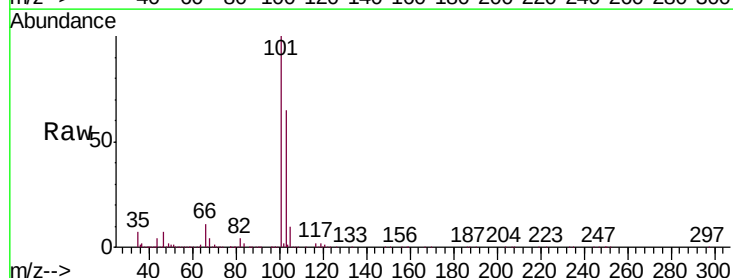
Acq: 13 Dec 2019 16:24

Tgt Ion: 101 Resp: 211022

Ion Ratio Lower Upper

101 100

103 65.7 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): VV014046.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV014046.D (-198) (-)

1.77

200000

150000

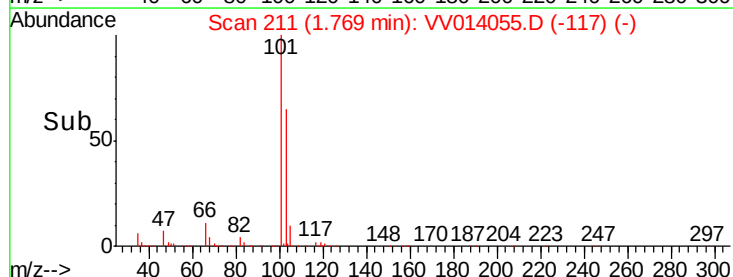
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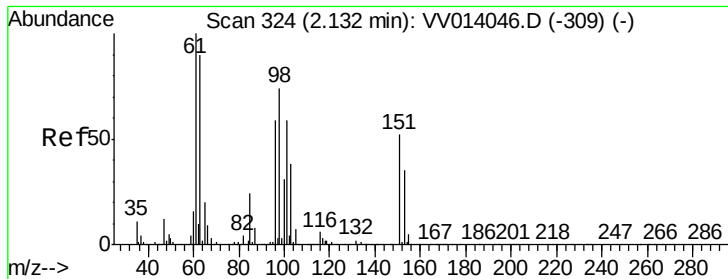
50000

0

1.70 1.75 1.80

Time-->





#10

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

Concen: 5.806 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

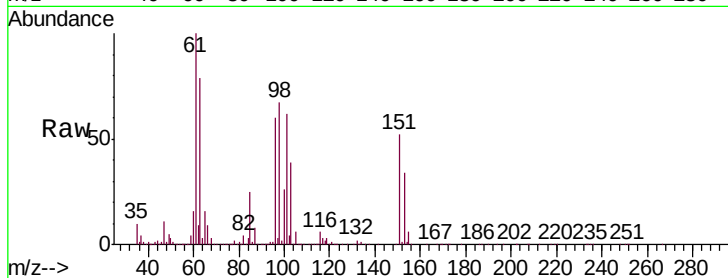
Tgt Ion: 101 Resp: 129472

Ion Ratio Lower Upper

101 100

85 40.2 33.4 50.0

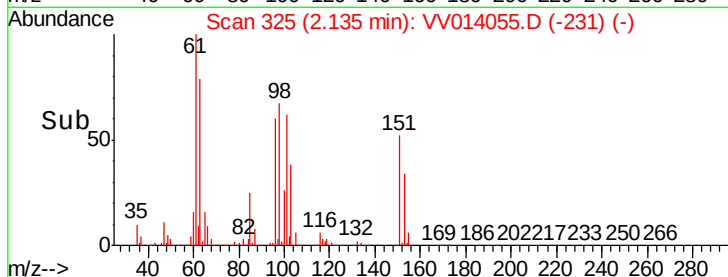
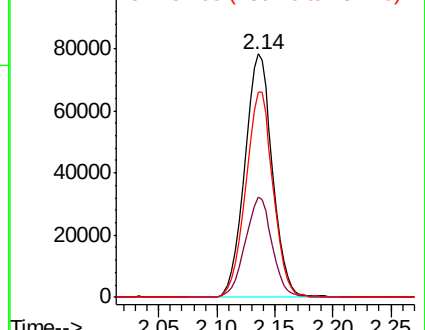
151 83.6 69.4 104.0



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: 5.567 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

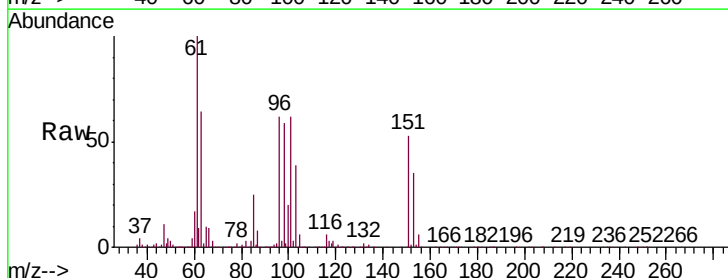
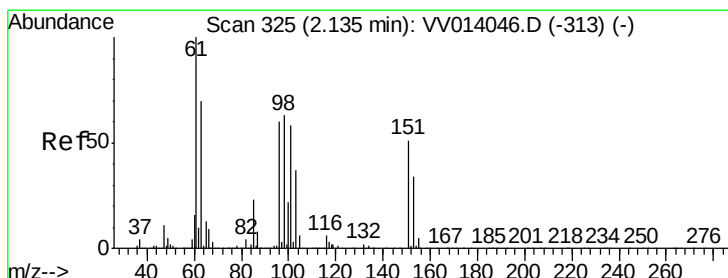
Tgt Ion: 96 Resp: 108292

Ion Ratio Lower Upper

96 100

61 161.4 116.3 215.9

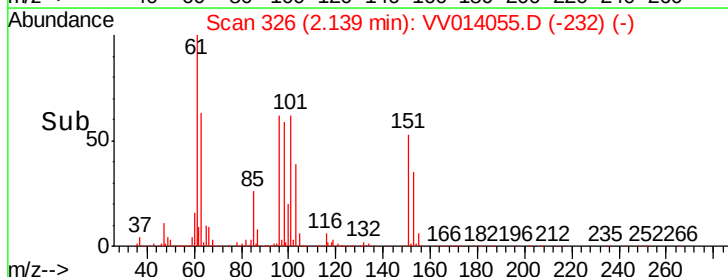
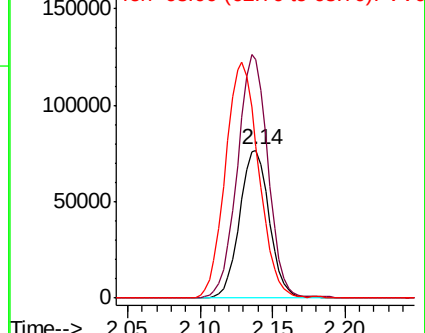
63 102.5 96.7 179.7

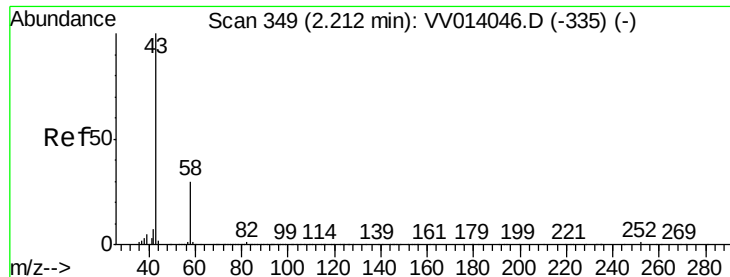


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 54.410 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.03 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

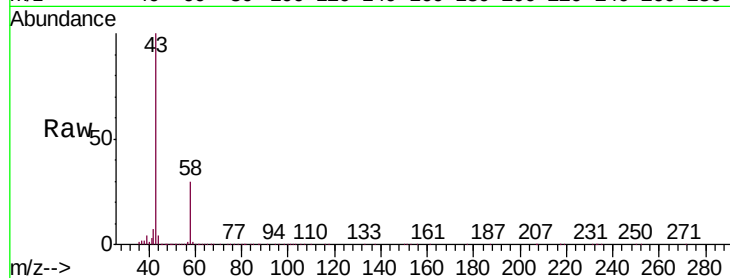
VSTD00556

Tgt Ion: 43 Resp: 198062

Ion Ratio Lower Upper

43 100

58 31.5 0.0 27.2#



Abundance Ion 43.05 (42.75 to 43.75): VV014046.D (-335) (-)

Ion 58.05 (57.75 to 58.75): VV014046.D (-335) (-)

2.18

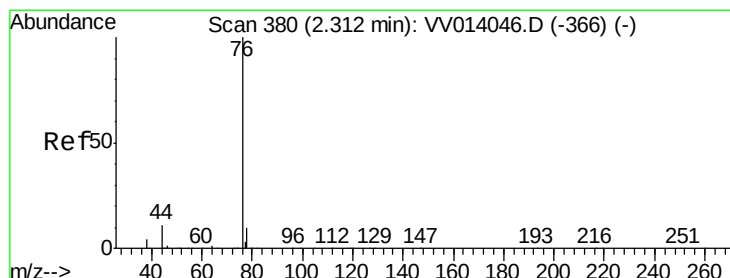
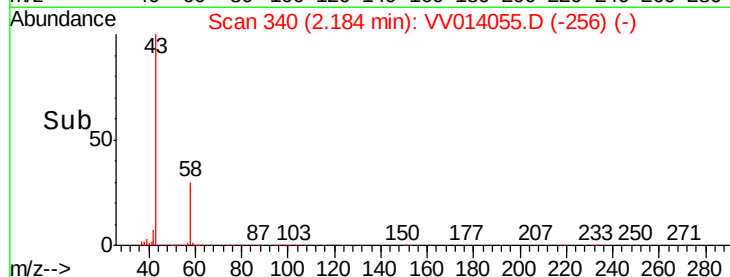
150000

100000

50000

0

Time--> 2.10 2.15 2.20 2.25



#14

Carbon disulfide

Concen: 4.951 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014055.D

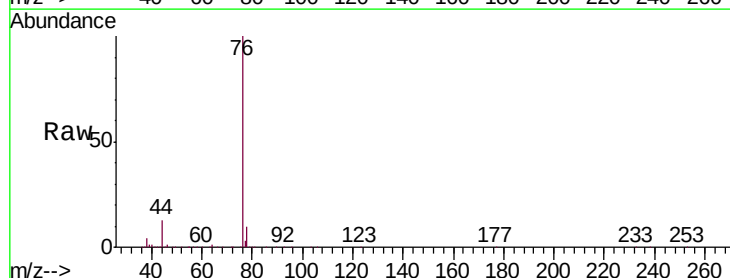
Acq: 13 Dec 2019 16:24

Tgt Ion: 76 Resp: 222308

Ion Ratio Lower Upper

76 100

78 9.5 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV014046.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV014046.D (-366) (-)

2.32

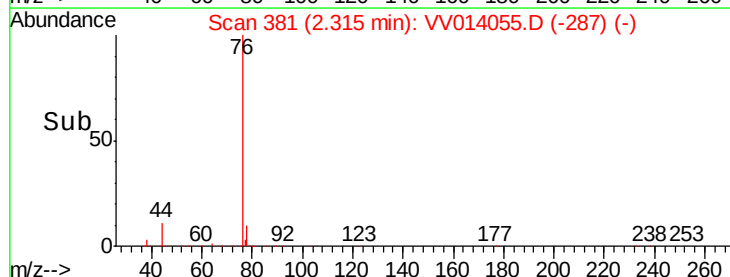
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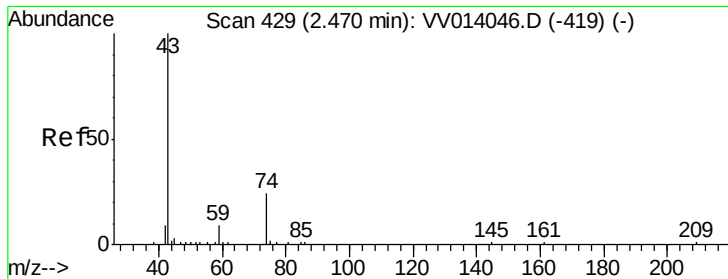
100000

50000

0

Time--> 2.20 2.30 2.40

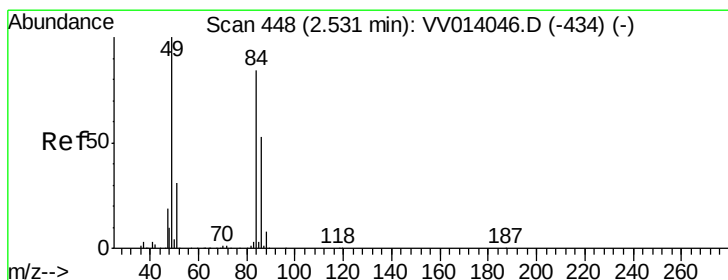
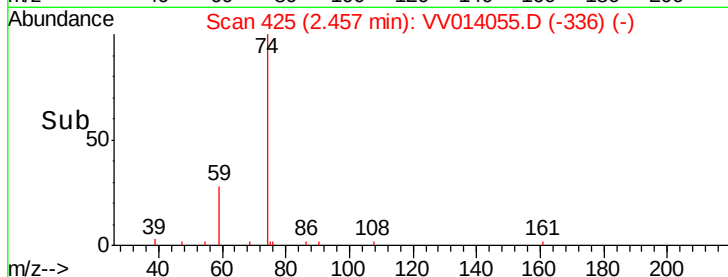
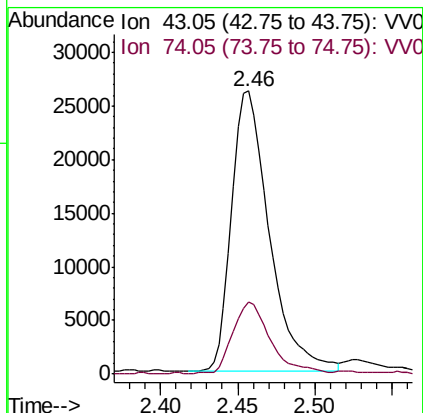
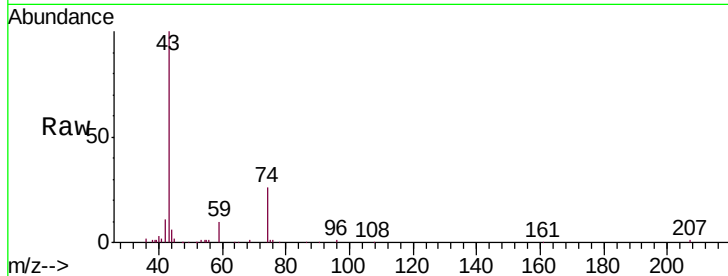




#15
Methyl Acetate
Concen: 5.471 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.01 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

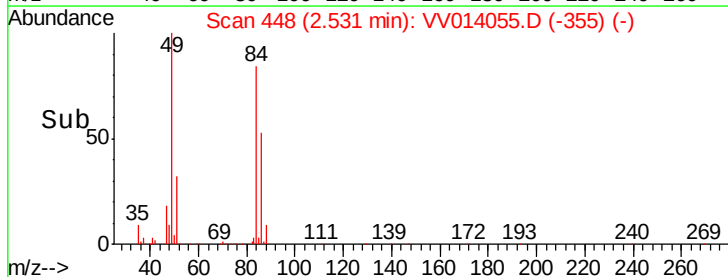
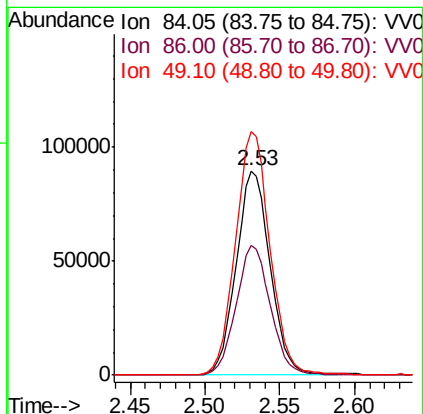
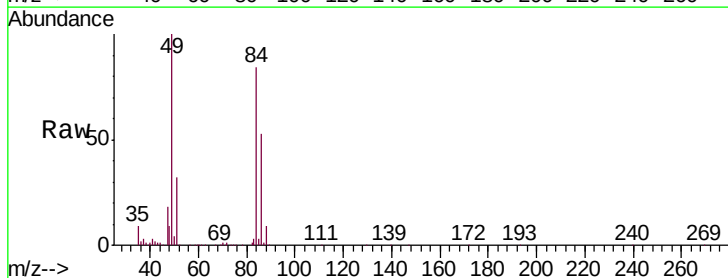
Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

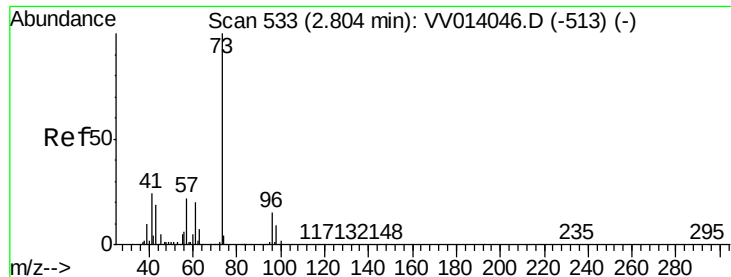
Tgt Ion: 43 Resp: 44582
Ion Ratio Lower Upper
43 100
74 25.7 20.5 30.7



#16
Methylene chloride
Concen: 5.318 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

Tgt Ion: 84 Resp: 141698
Ion Ratio Lower Upper
84 100
86 63.2 44.0 81.6
49 119.1 81.5 151.5

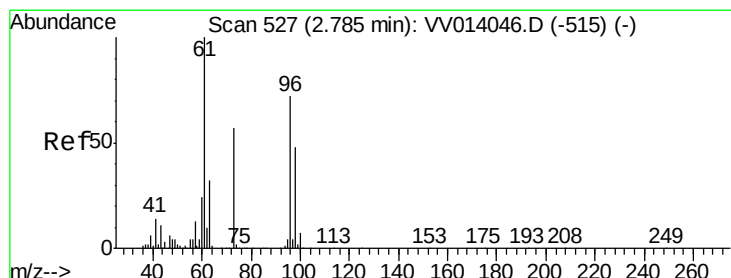
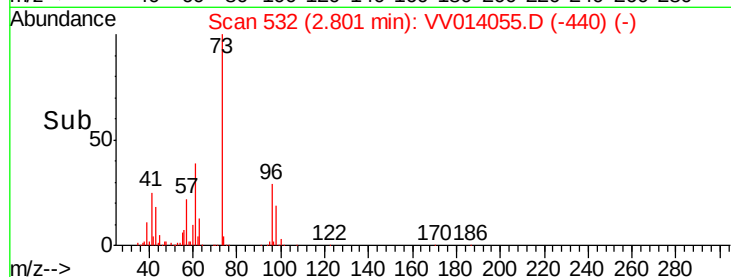
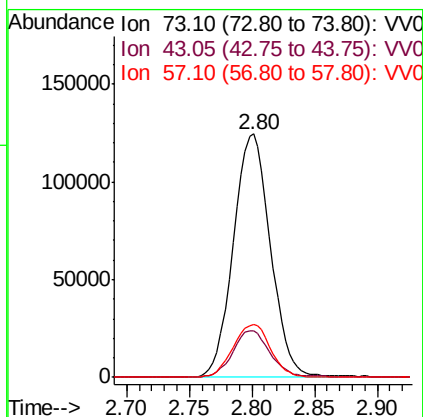
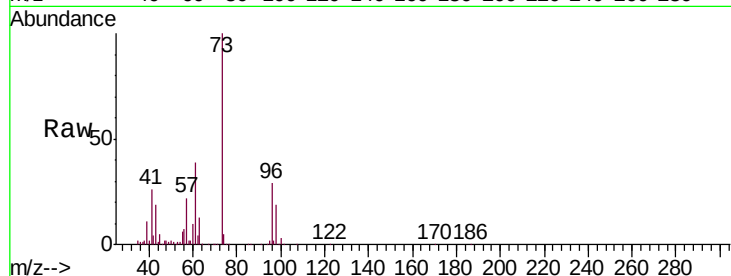




#17
Methyl tert-butyl Ether
Concen: 4.814 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

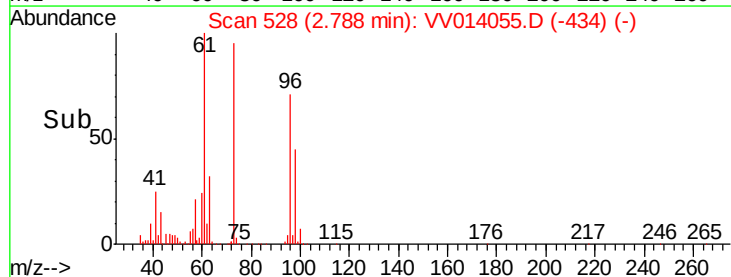
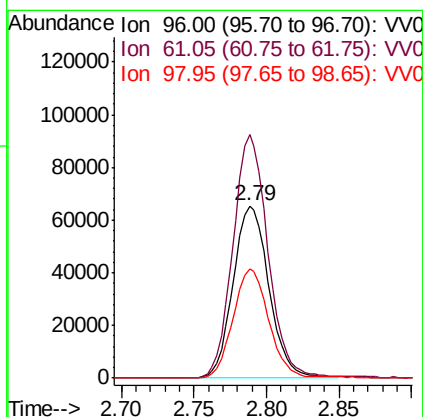
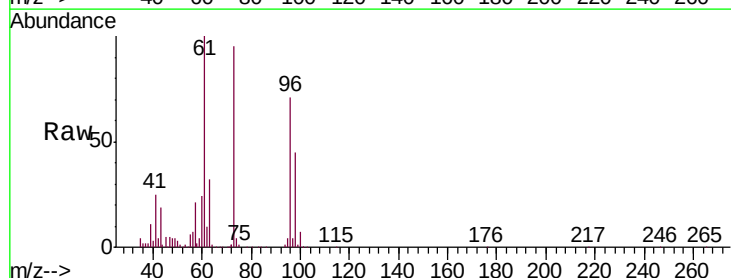
Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

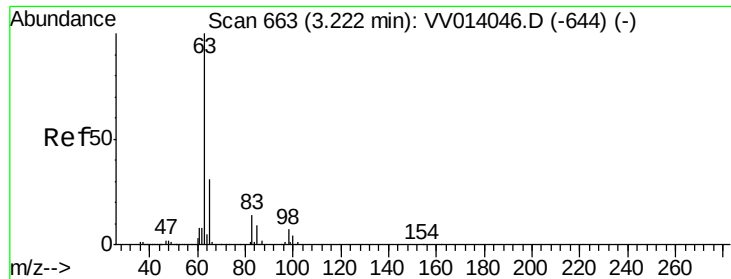
Tgt Ion: 73 Resp: 256252
Ion Ratio Lower Upper
73 100
43 18.9 15.5 23.3
57 22.2 17.5 26.3



#18
trans-1,2-Dichloroethene
Concen: 5.102 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

Tgt Ion: 96 Resp: 112075
Ion Ratio Lower Upper
96 100
61 141.4 95.1 176.7
98 63.8 46.5 86.3

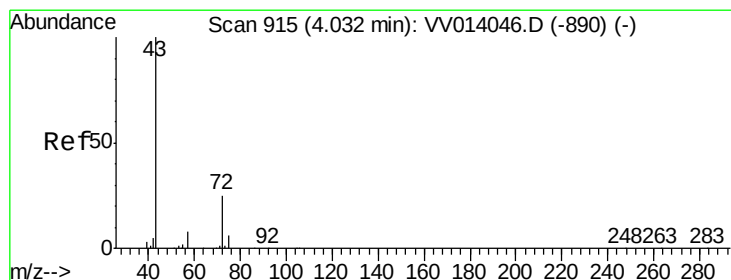
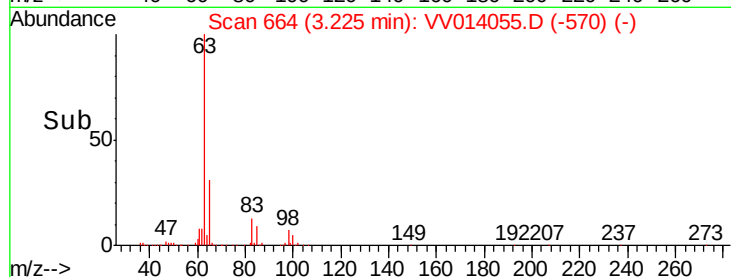
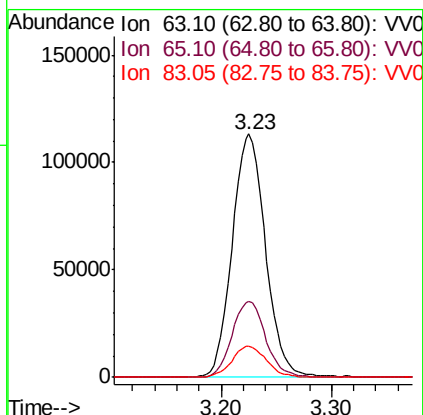
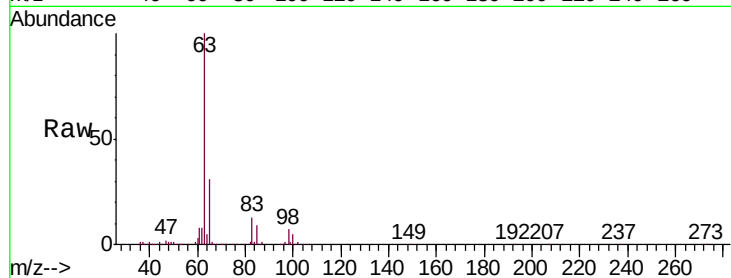




#19
 1,1-Dichloroethane
 Concen: 5.410 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

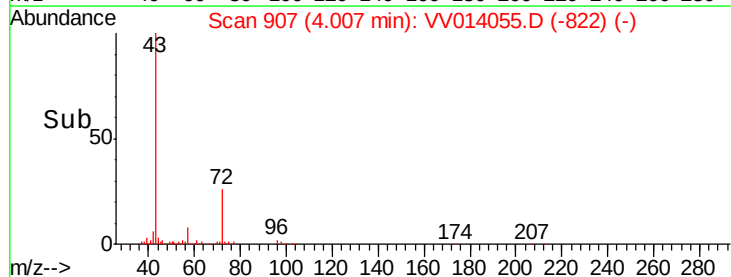
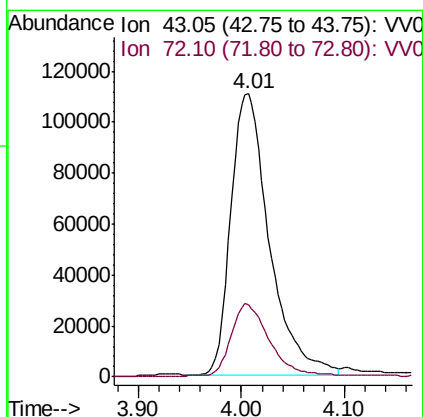
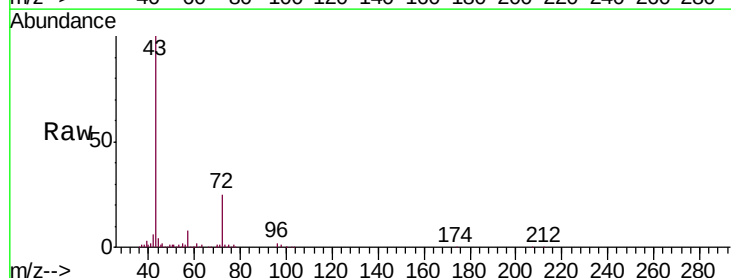
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

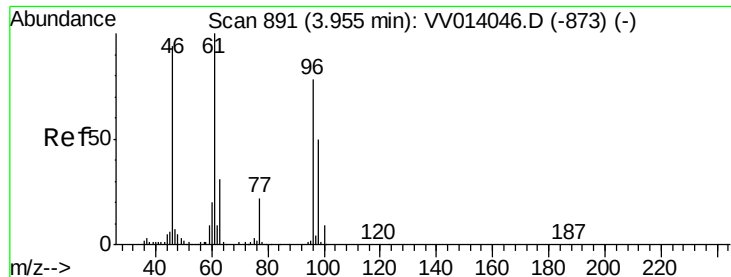
Tgt Ion: 63 Resp: 237240
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.7 42.1
 83 13.0 9.2 17.2



#21
 2-Butanone
 Concen: 52.591 ug/L
 RT: 4.01 min Scan# 907
 Delta R.T. -0.03 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Tgt Ion: 43 Resp: 289370
 Ion Ratio Lower Upper
 43 100
 72 24.9 12.3 36.9



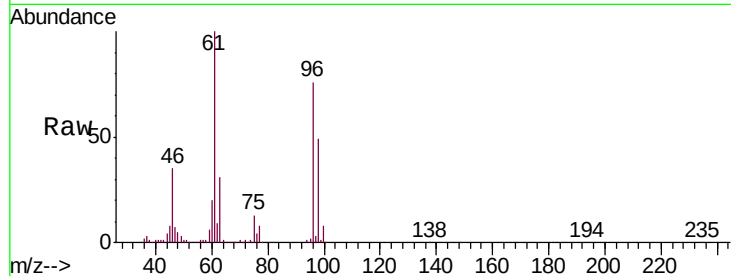


#22

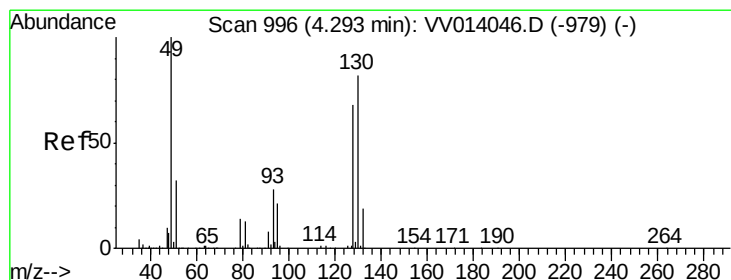
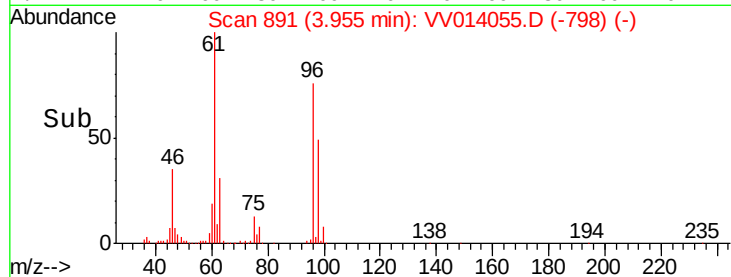
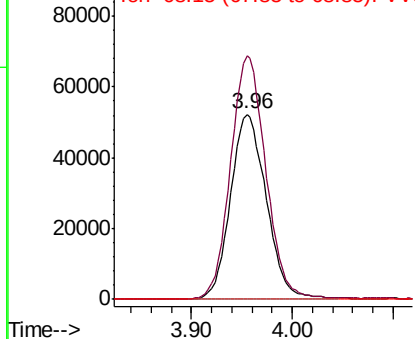
cis-1,2-Dichloroethene
 Concen: 5.019 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

Tgt Ion: 96 Resp: 129273
 Ion Ratio Lower Upper
 96 100
 61 131.5 86.1 159.9
 68 0.2 0.0 0.0#



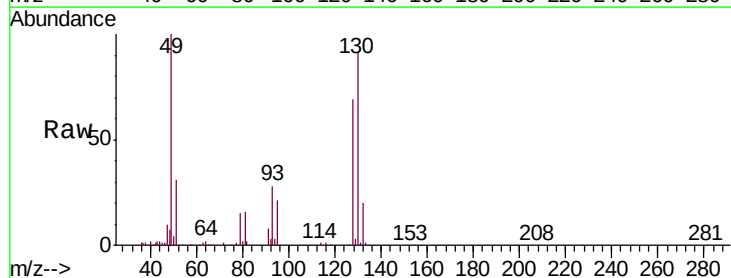
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



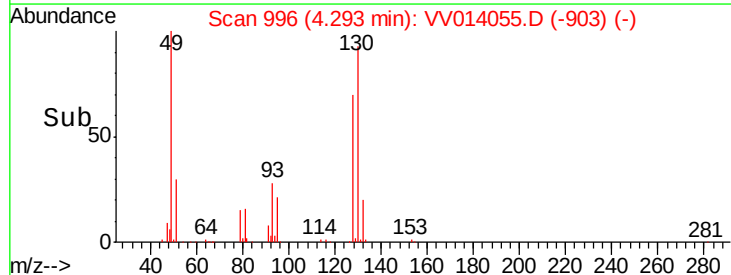
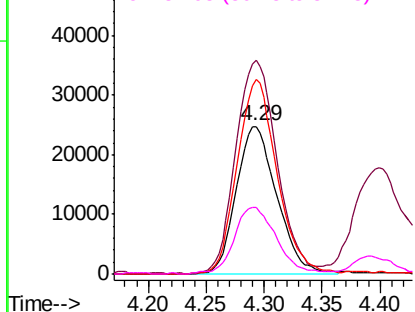
#23

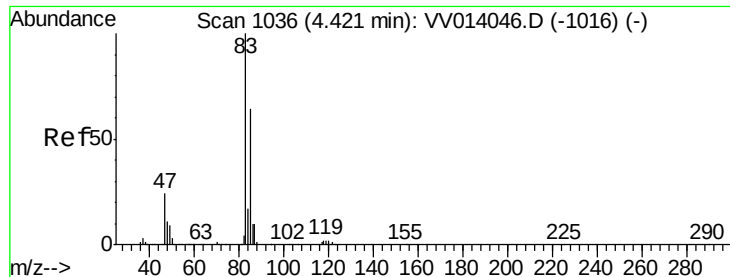
Bromochloromethane
 Concen: 5.312 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Tgt Ion: 128 Resp: 60121
 Ion Ratio Lower Upper
 128 100
 49 144.9 100.1 185.9
 130 132.3 89.0 165.4
 51 44.9 36.3 54.5



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

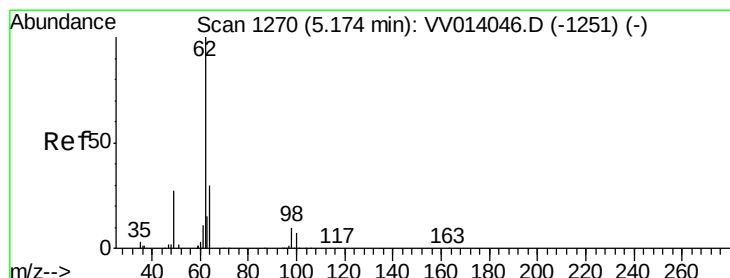
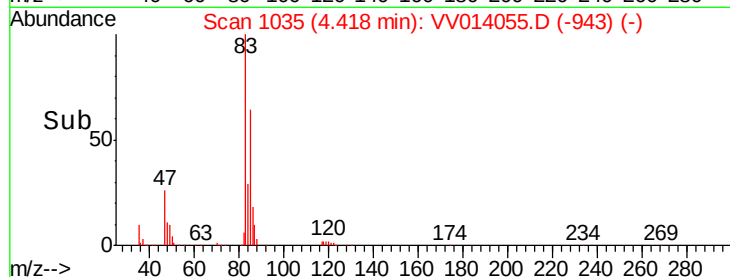
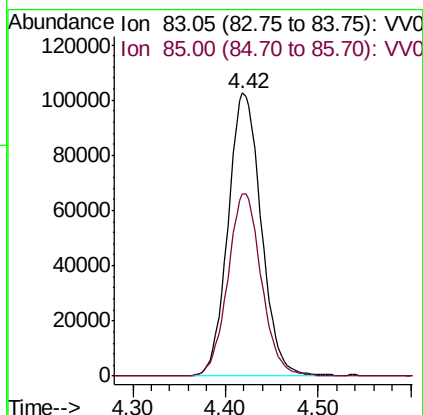
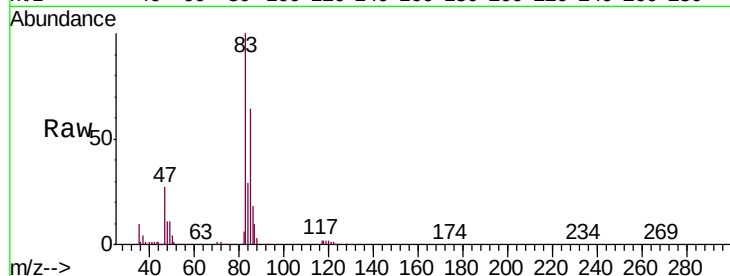




#25
Chloroform
Concen: 5.478 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

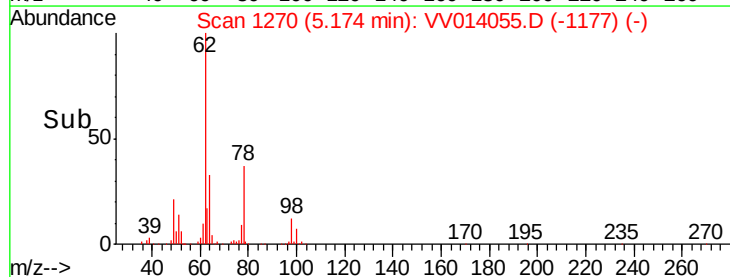
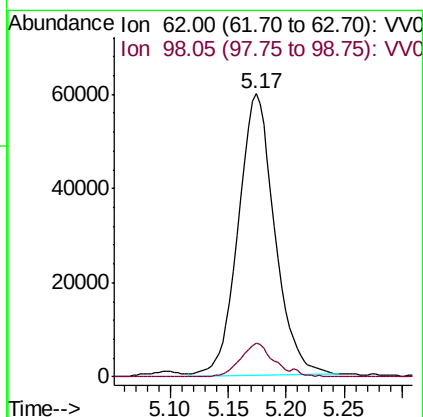
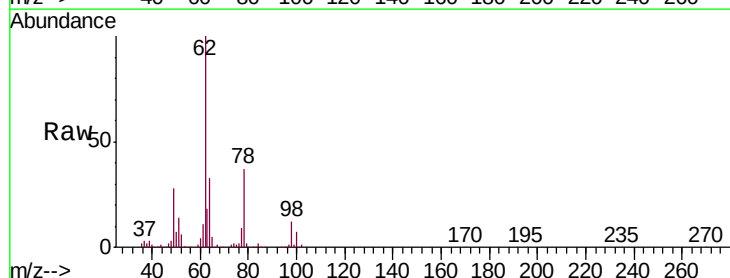
Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

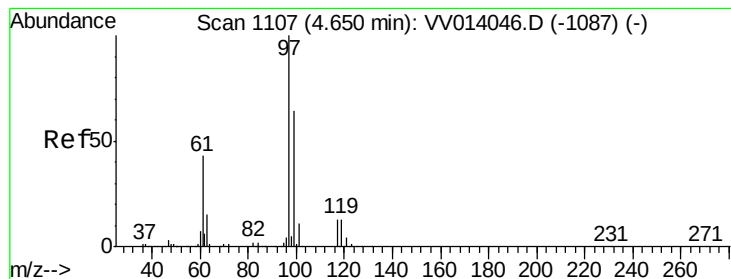
Tgt Ion: 83 Resp: 254644
Ion Ratio Lower Upper
83 100
85 64.4 45.1 83.7



#27
1,2-Dichloroethane
Concen: 4.927 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

Tgt Ion: 62 Resp: 131080
Ion Ratio Lower Upper
62 100
98 11.8 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 5.244 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

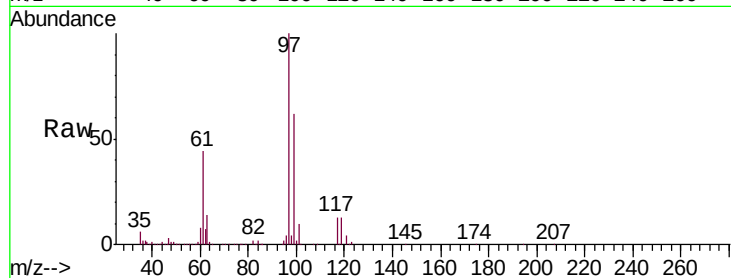
Tgt Ion: 97 Resp: 205495

Ion Ratio Lower Upper

97 100

99 64.7 51.7 77.5

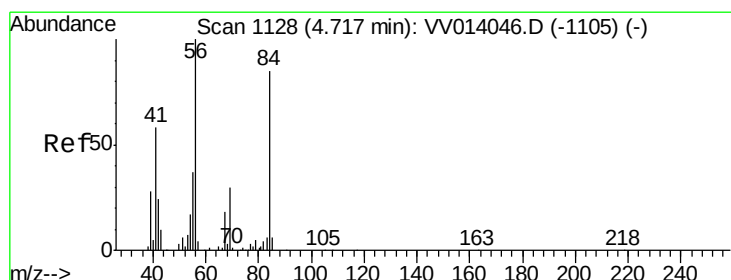
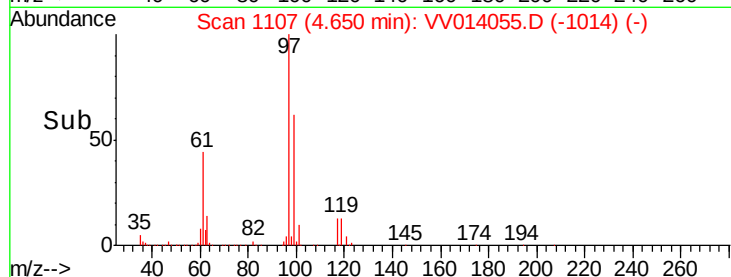
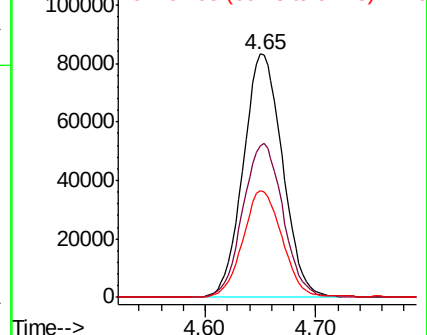
61 44.1 35.0 52.6



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 4.677 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

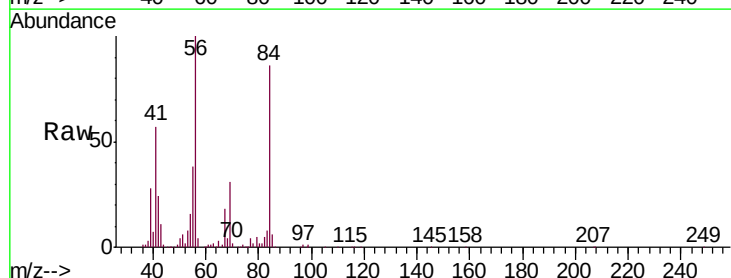
Tgt Ion: 56 Resp: 153133

Ion Ratio Lower Upper

56 100

69 32.1 24.1 36.1

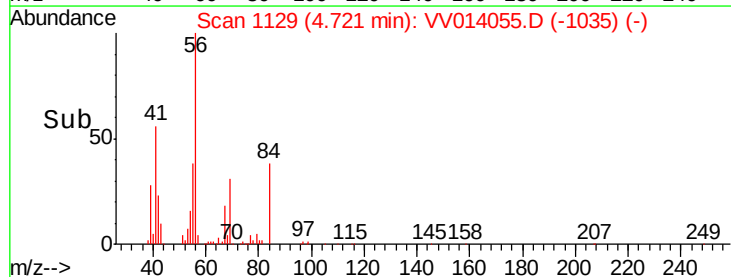
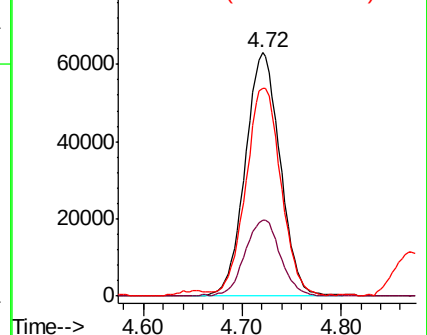
84 86.4 69.9 104.9

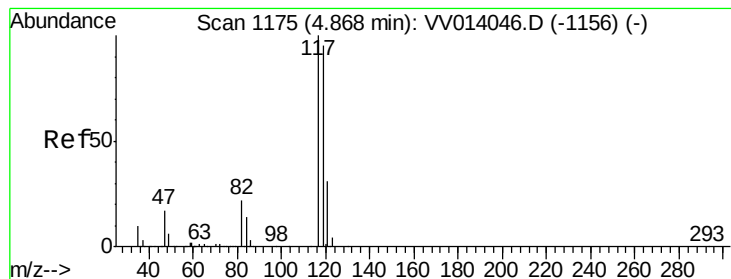


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 5.313 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

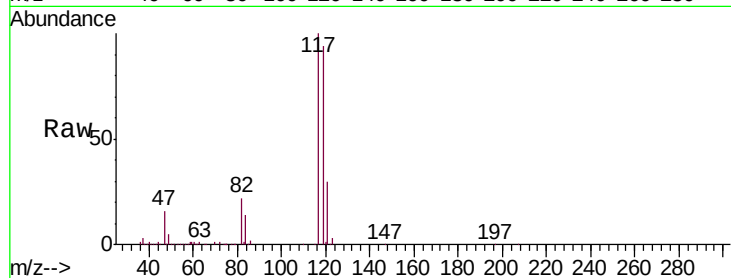
VSTD00556

Tgt Ion:117 Resp: 183171

Ion Ratio Lower Upper

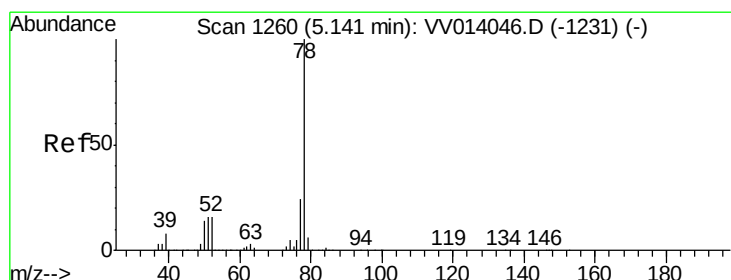
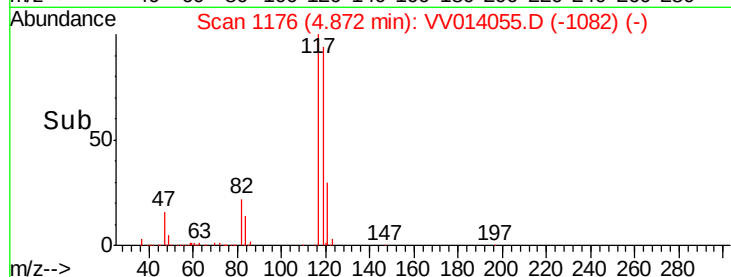
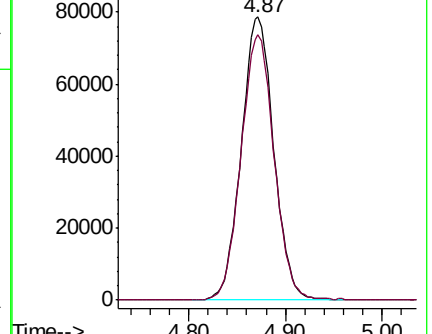
117 100

119 95.6 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.003 ug/L

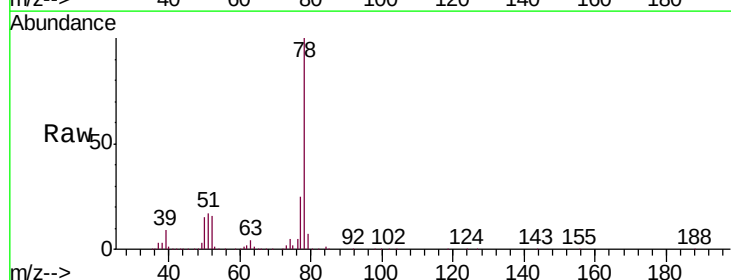
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Tgt Ion: 78 Resp: 470121



Abundance Ion 78.10 (77.80 to 78.80): VV0

250000

200000

150000

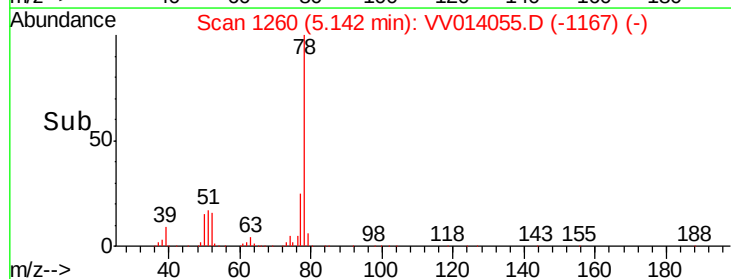
100000

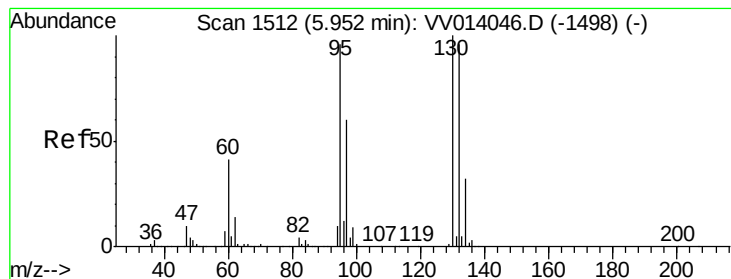
50000

0

5.00 5.10 5.20 5.30

Time-->





#34

Trichloroethene

Concen: 4.885 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

Tgt Ion: 95 Resp: 126643

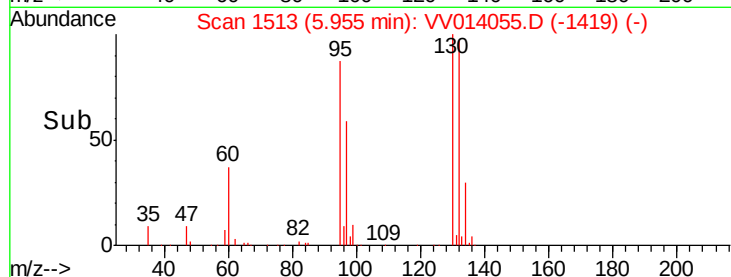
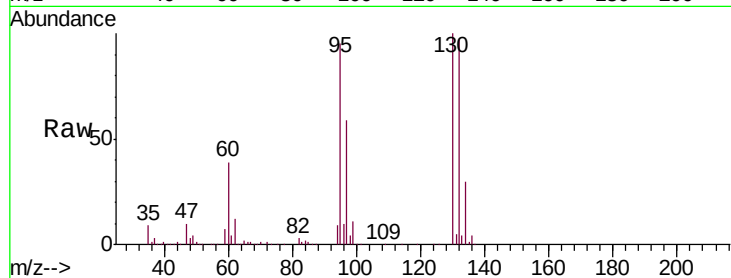
Ion Ratio Lower Upper

95 100

97 62.5 45.6 84.8

132 102.4 70.5 130.9

130 105.5 75.9 140.9

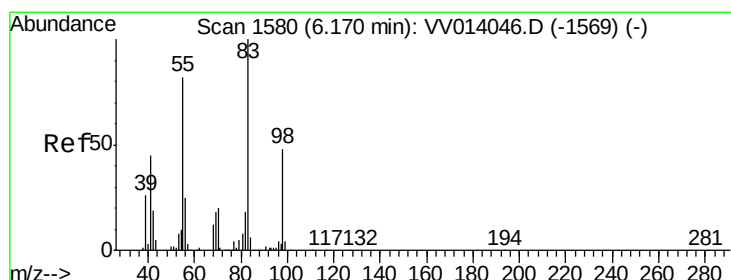
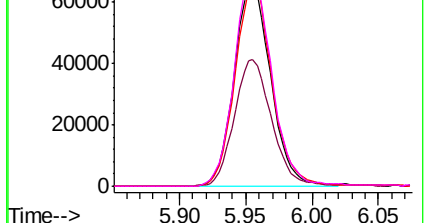


Abundance Ion 95.00 (94.70 to 95.70): VV014055.D (-1419) (-)

Ion 96.95 (96.65 to 97.65): VV014055.D (-1419) (-)

Ion 131.95 (131.65 to 132.65): VV014055.D (-1419) (-)

Ion 129.95 (129.65 to 130.65): VV014055.D (-1419) (-)



#35

Methylcyclohexane

Concen: 4.661 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

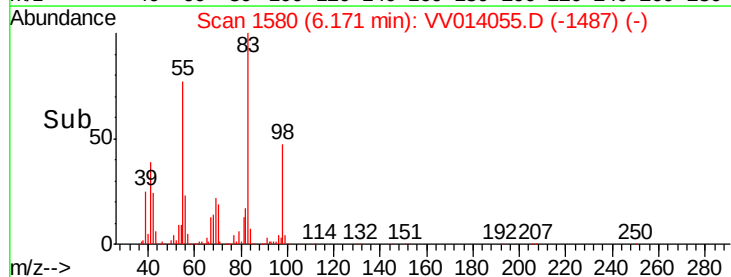
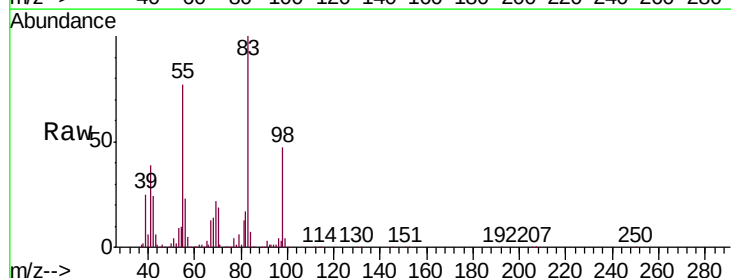
Tgt Ion: 83 Resp: 161233

Ion Ratio Lower Upper

83 100

55 79.5 60.3 90.5

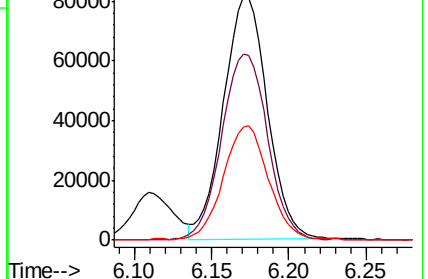
98 48.6 38.1 57.1

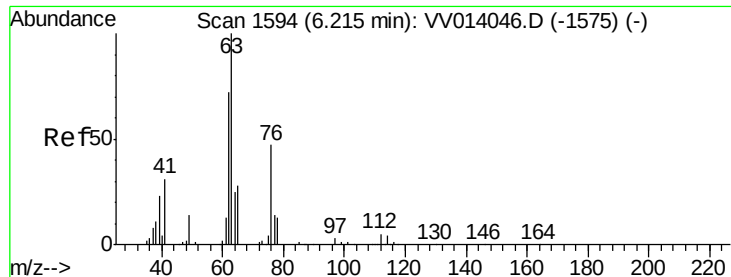


Abundance Ion 83.15 (82.85 to 83.85): VV014055.D (-1487) (-)

Ion 55.10 (54.80 to 55.80): VV014055.D (-1487) (-)

Ion 98.15 (97.85 to 98.85): VV014055.D (-1487) (-)

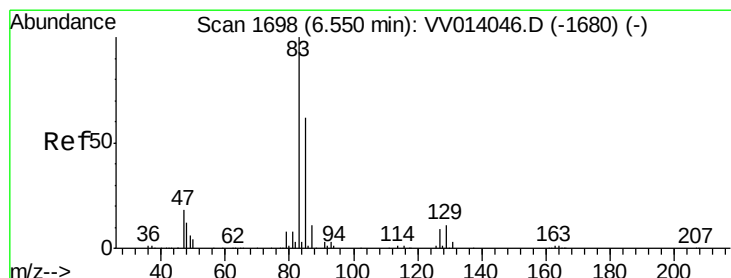
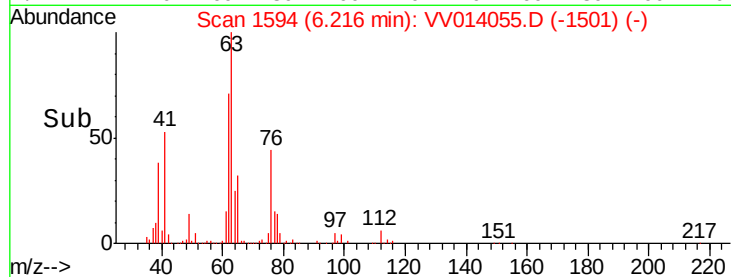
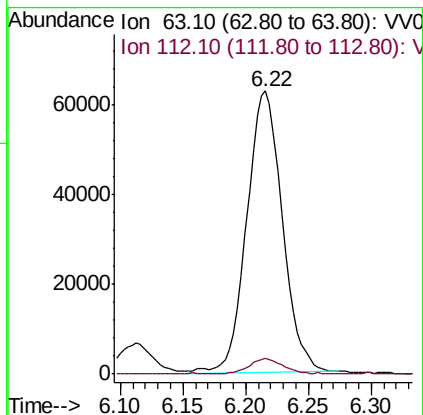
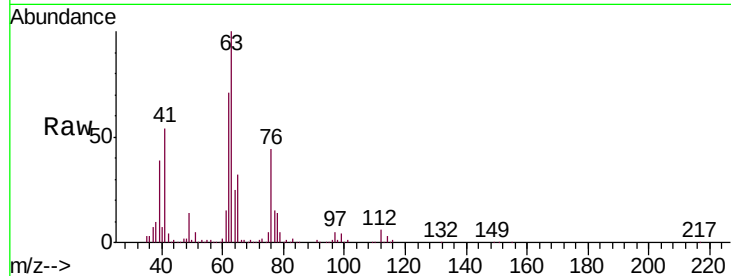




#37
 1,2-Dichloropropane
 Concen: 5.116 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

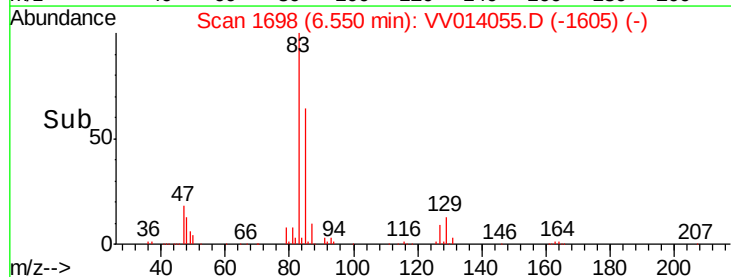
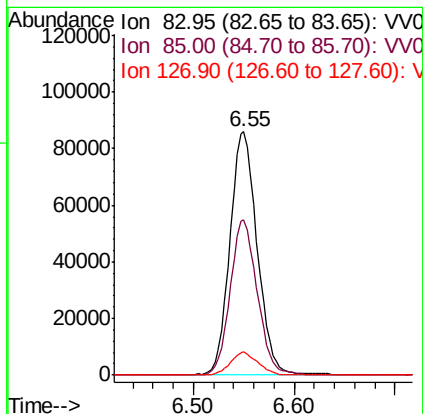
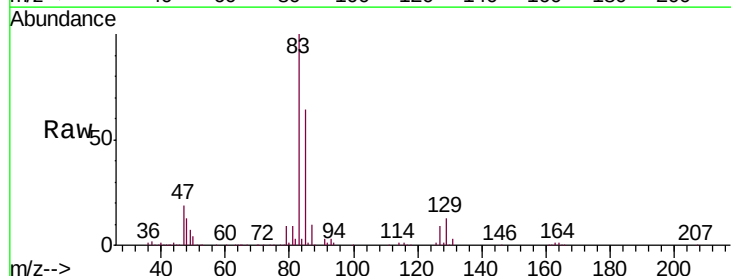
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

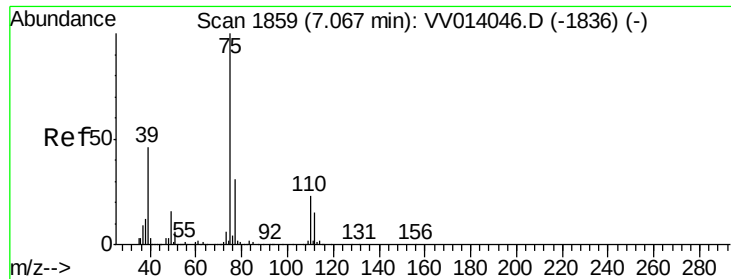
Tgt Ion: 63 Resp: 123556
 Ion Ratio Lower Upper
 63 100
 112 5.1 4.4 6.6



#38
 Bromodichloromethane
 Concen: 5.103 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Tgt Ion: 83 Resp: 162609
 Ion Ratio Lower Upper
 83 100
 85 64.0 46.1 85.5
 127 9.4 7.5 11.3





#39

cis-1,3-Dichloropropene

Concen: 4.706 ug/L

RT: 7.06 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

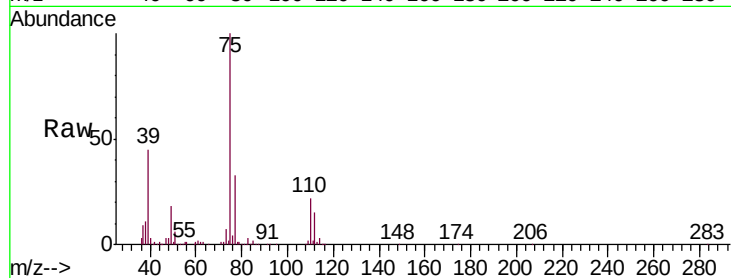
VSTD00556

Tgt Ion: 75 Resp: 161269

Ion Ratio Lower Upper

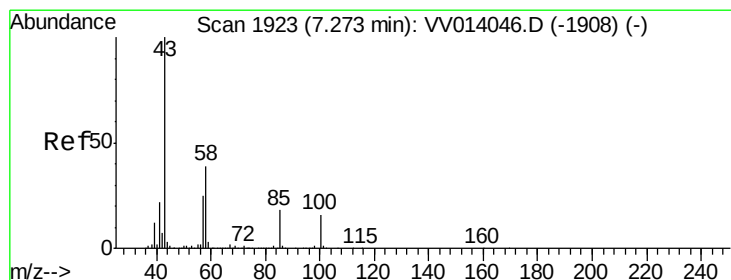
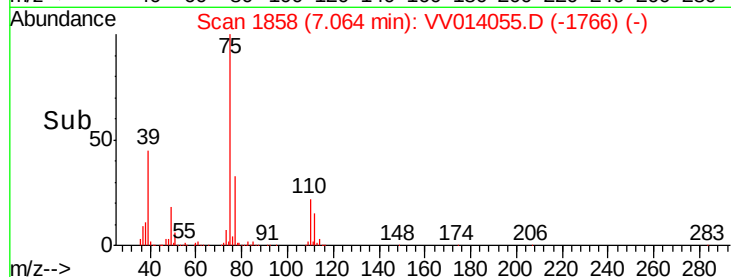
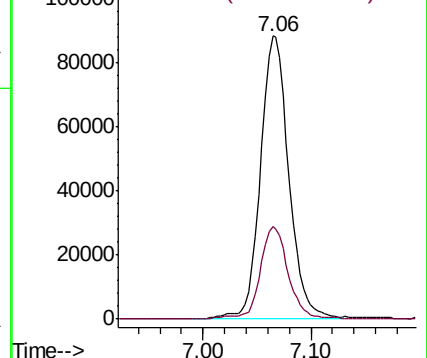
75 100

77 32.9 22.5 41.9



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 47.037 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

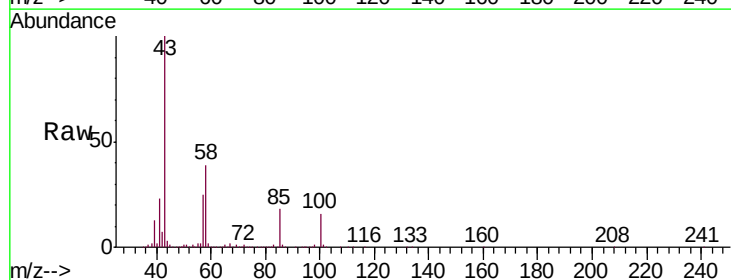
Tgt Ion: 43 Resp: 662837

Ion Ratio Lower Upper

43 100

58 39.0 32.3 48.5

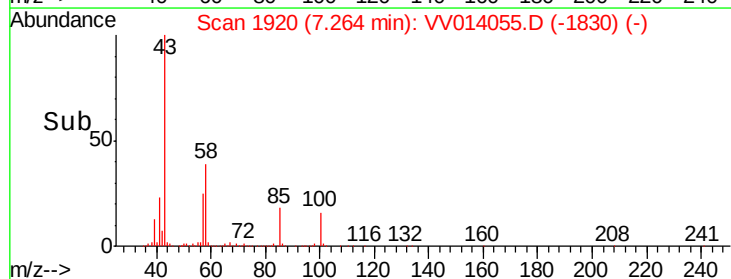
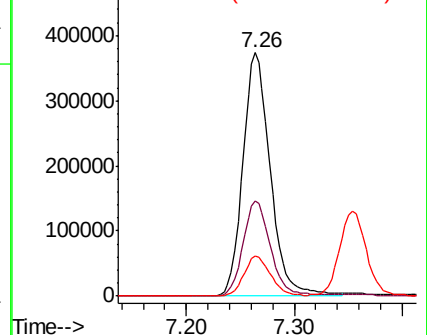
100 15.8 12.7 19.1

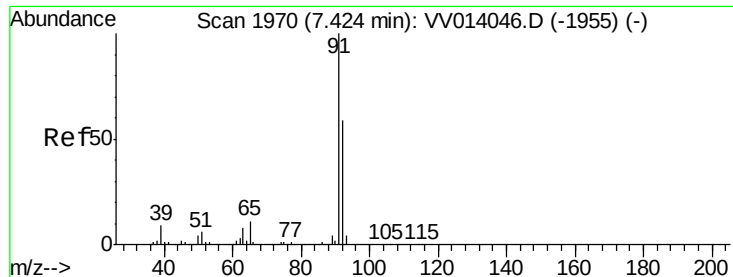


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 5.046 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

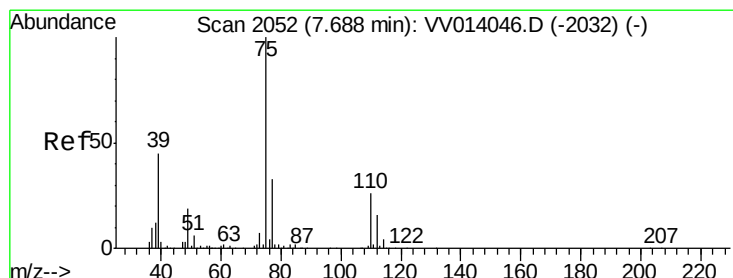
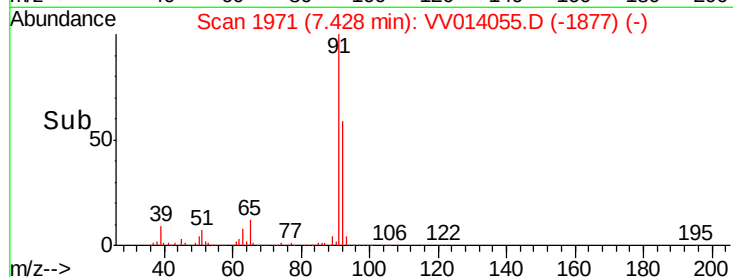
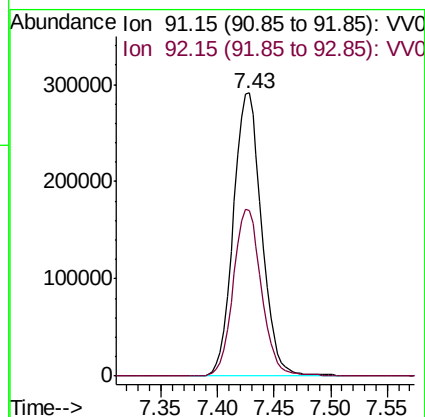
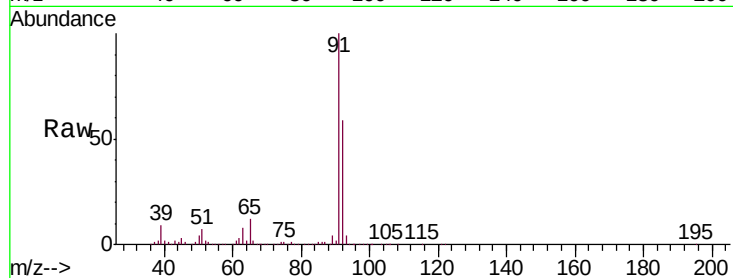
VSTD00556

Tgt Ion: 91 Resp: 508660

Ion Ratio Lower Upper

91 100

92 58.5 41.1 76.3



#44

trans-1,3-Dichloropropene

Concen: 4.825 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014055.D

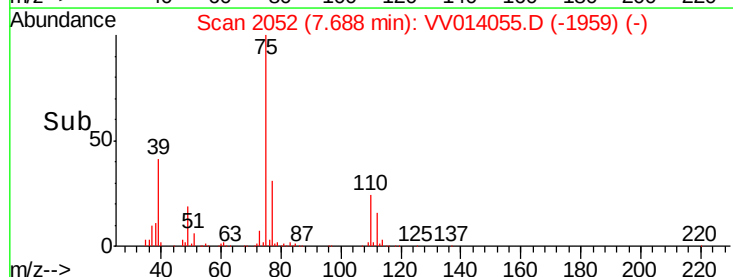
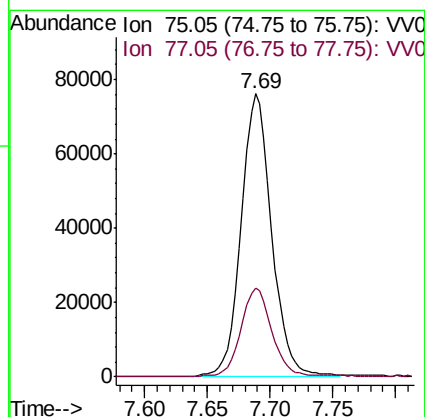
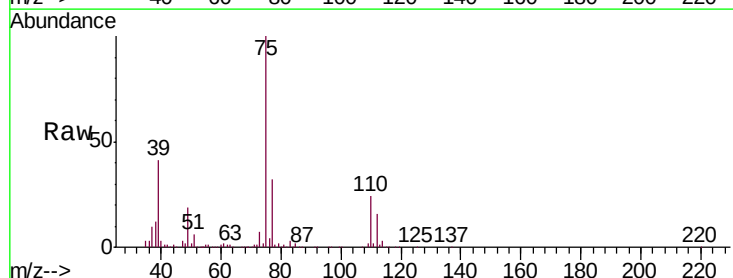
Acq: 13 Dec 2019 16:24

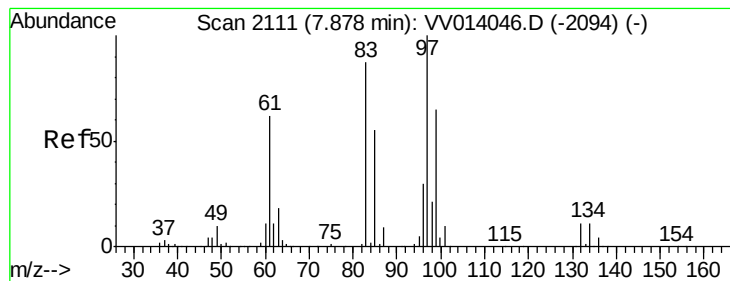
Tgt Ion: 75 Resp: 129423

Ion Ratio Lower Upper

75 100

77 31.5 23.0 42.8





#45

1,1,2-Trichloroethane

Concen: 5.098 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

Tgt Ion: 97 Resp: 87749

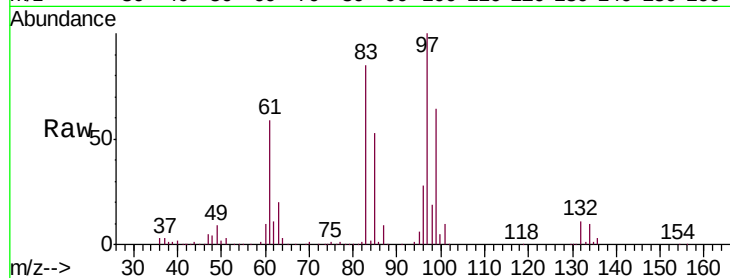
Ion Ratio Lower Upper

97 100

99 64.1 44.2 82.0

83 84.7 59.7 110.9

85 52.7 38.3 71.1

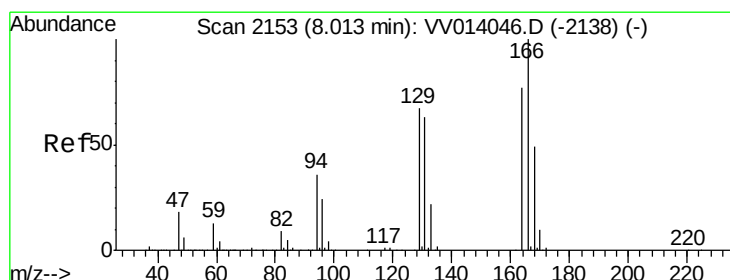
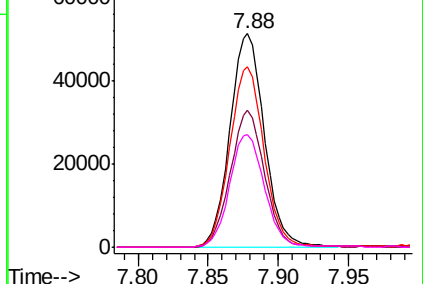
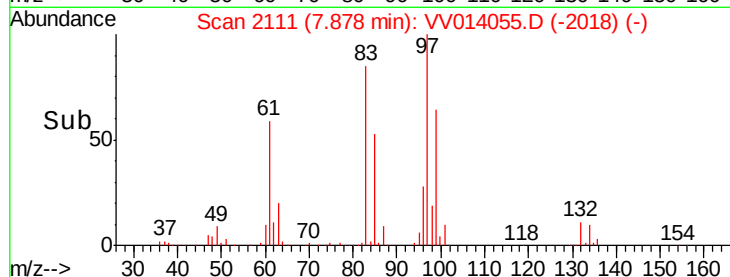


Abundance Ion 96.95 (96.65 to 97.65): VV014055.D (-2018) (-)

Ion 99.05 (98.75 to 99.75): VV014055.D (-2018) (-)

Ion 82.95 (82.65 to 83.65): VV014055.D (-2018) (-)

Ion 85.00 (84.70 to 85.70): VV014055.D (-2018) (-)



#47

Tetrachloroethene

Concen: 4.934 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Tgt Ion: 164 Resp: 111058

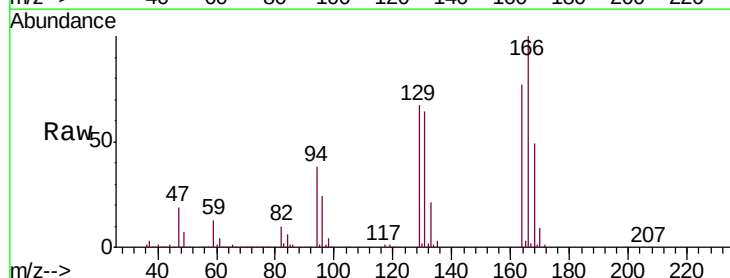
Ion Ratio Lower Upper

164 100

129 86.5 60.3 112.1

131 82.7 59.9 111.3

166 129.3 89.1 165.5

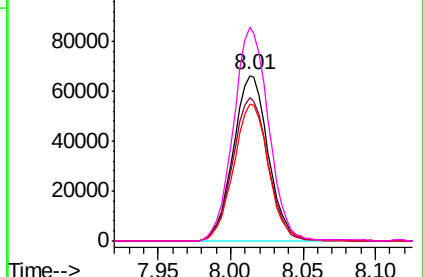
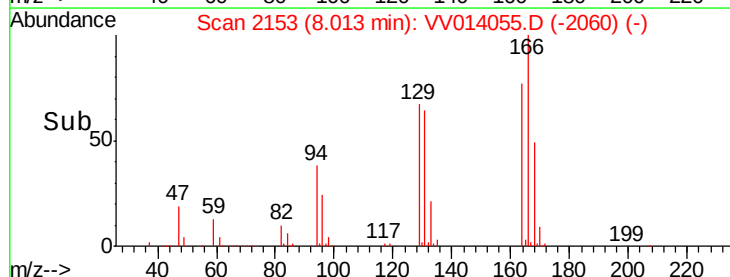


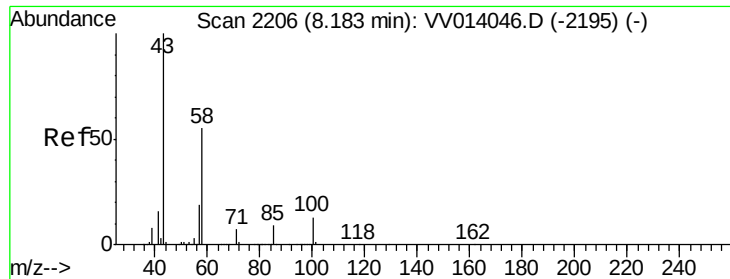
Abundance Ion 163.90 (163.60 to 164.60): VV014055.D (-2060) (-)

Ion 128.95 (128.65 to 129.65): VV014055.D (-2060) (-)

Ion 130.95 (130.65 to 131.65): VV014055.D (-2060) (-)

Ion 165.90 (165.60 to 166.60): VV014055.D (-2060) (-)

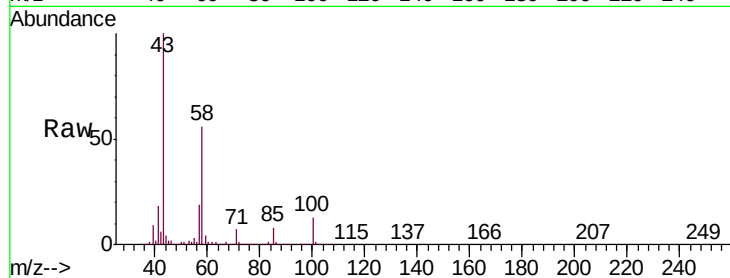




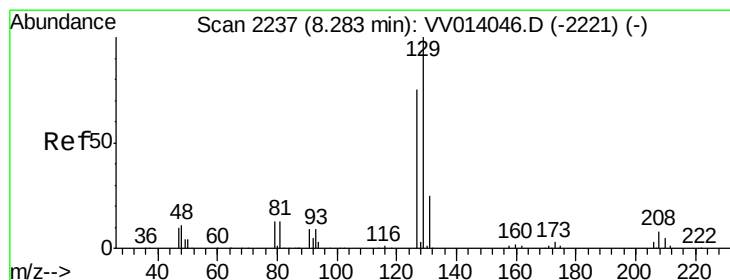
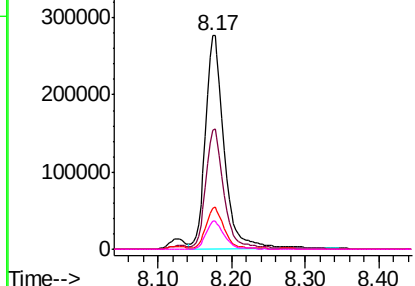
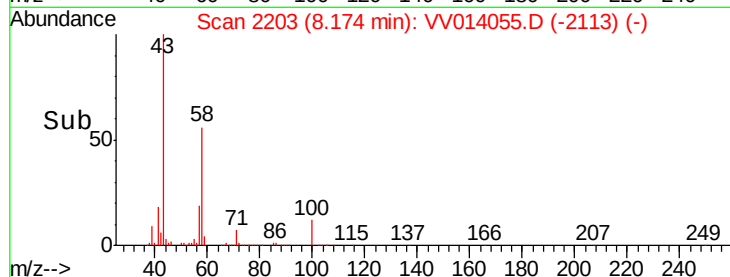
#48
2-Hexanone
Concen: 49.186 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.01 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD00556

Tgt Ion: 43 Resp: 494733
Ion Ratio Lower Upper
43 100
58 53.3 43.2 64.8
57 19.3 15.4 23.2
100 12.3 10.4 15.6

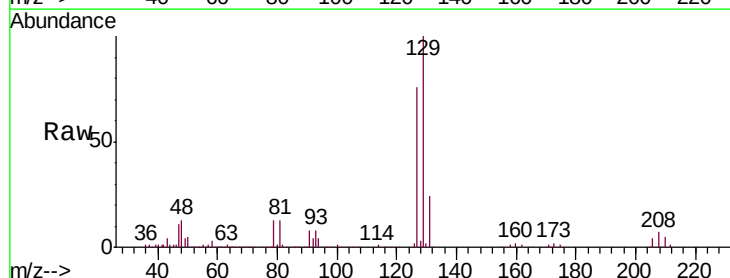


Abundance Ion 43.05 (42.75 to 43.75): VV014055.D (-2113) (-)
Ion 58.05 (57.75 to 58.75): VV014055.D (-2113) (-)
Ion 57.20 (56.90 to 57.90): VV014055.D (-2113) (-)
Ion 100.15 (99.85 to 100.85): VV014055.D (-2113) (-)

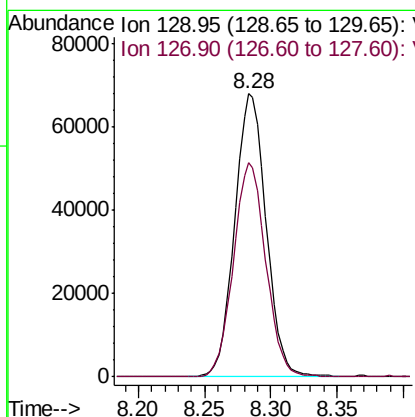
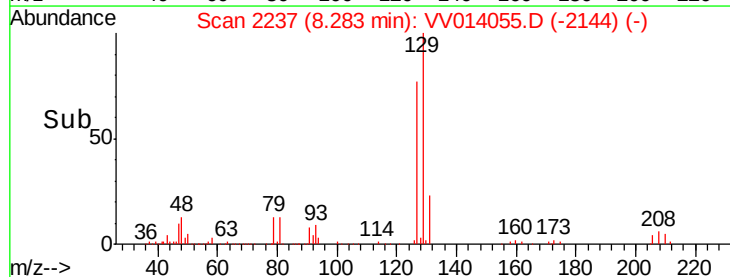


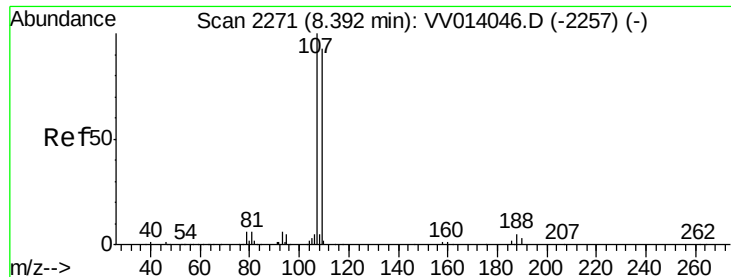
#49
Dibromochloromethane
Concen: 5.082 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VV014055.D
Acq: 13 Dec 2019 16:24

Tgt Ion: 129 Resp: 112186
Ion Ratio Lower Upper
129 100
127 75.5 55.7 103.5



Abundance Ion 128.95 (128.65 to 129.65): VV014055.D (-2144) (-)
Ion 126.90 (126.60 to 127.60): VV014055.D (-2144) (-)





#50

1,2-Dibromoethane

Concen: 4.937 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

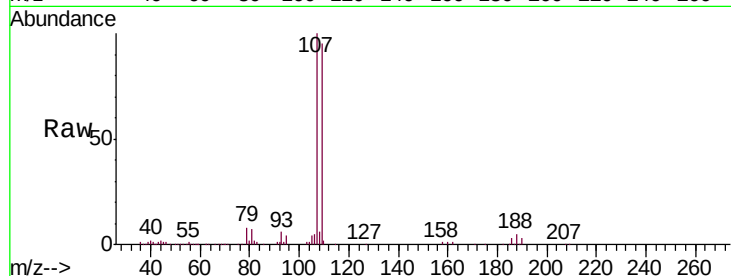
Tgt Ion:107 Resp: 76957

Ion Ratio Lower Upper

107 100

109 95.3 65.2 121.0

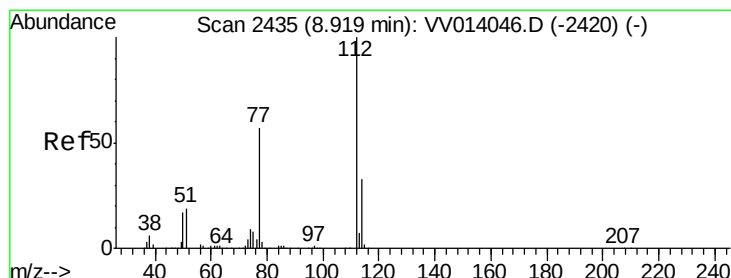
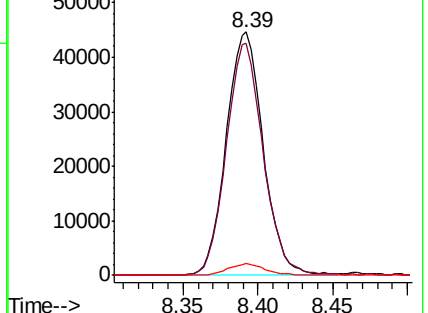
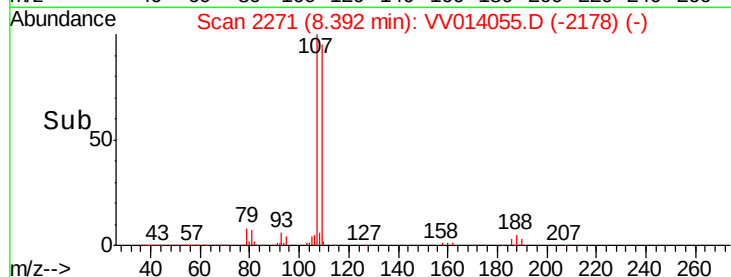
188 4.8 4.2 6.2



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.856 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

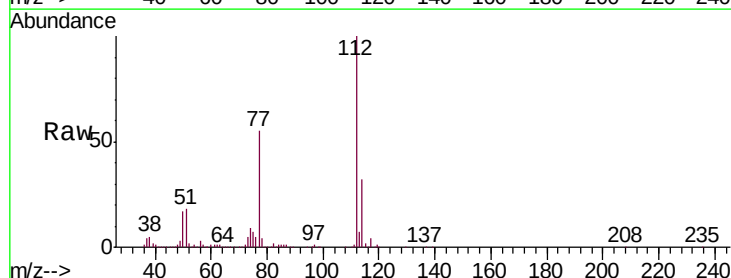
Tgt Ion:112 Resp: 340570

Ion Ratio Lower Upper

112 100

114 32.1 21.8 40.6

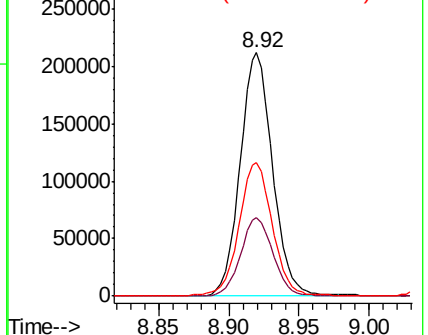
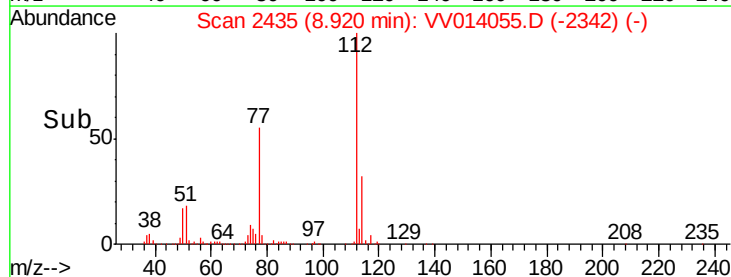
77 54.9 44.2 66.4

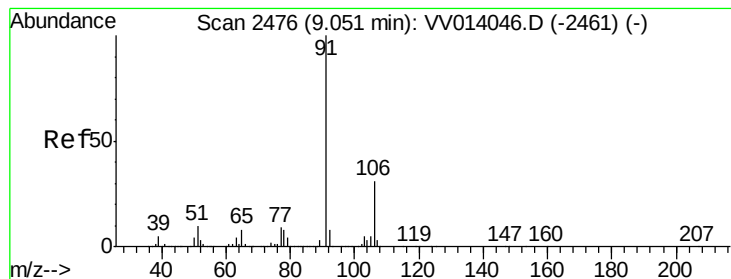


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.959 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

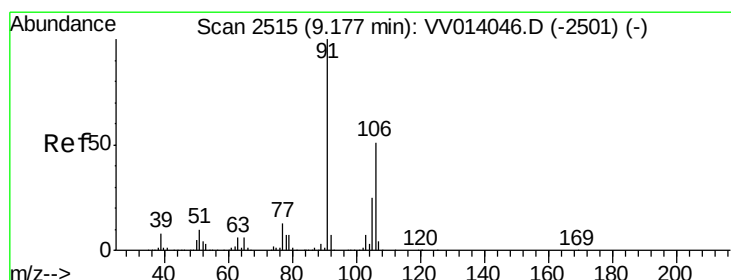
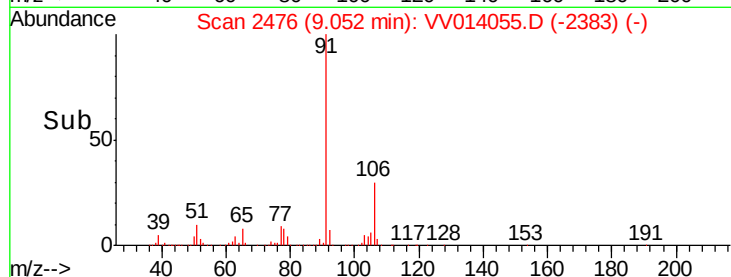
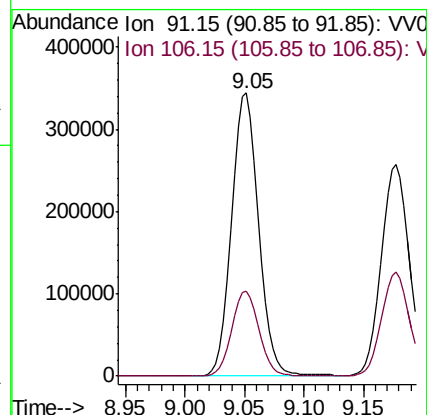
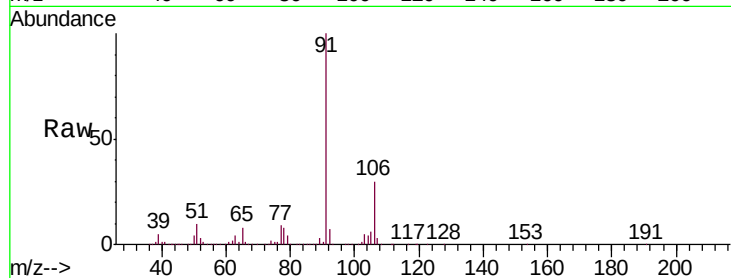
VSTD00556

Tgt Ion: 91 Resp: 542966

Ion Ratio Lower Upper

91 100

106 30.1 22.1 41.1



#53

m,p-xylene

Concen: 4.948 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014055.D

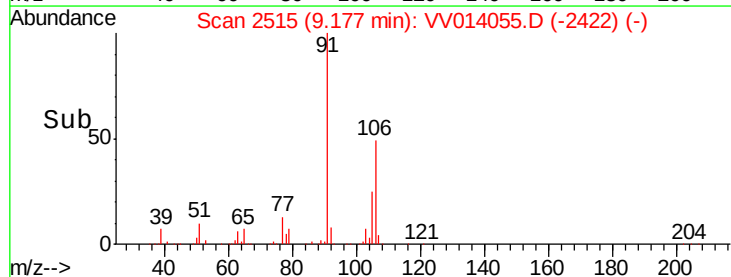
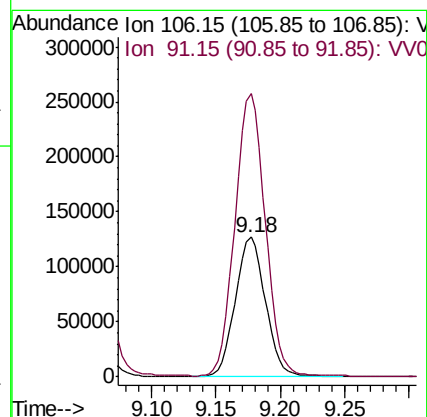
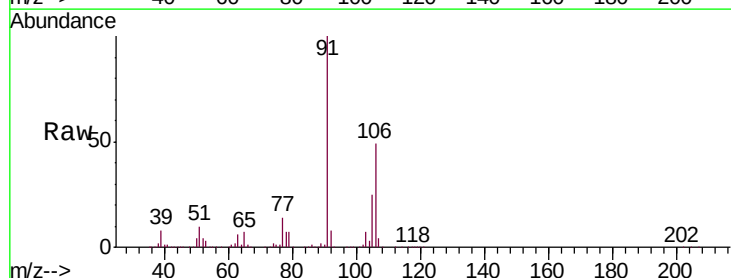
Acq: 13 Dec 2019 16:24

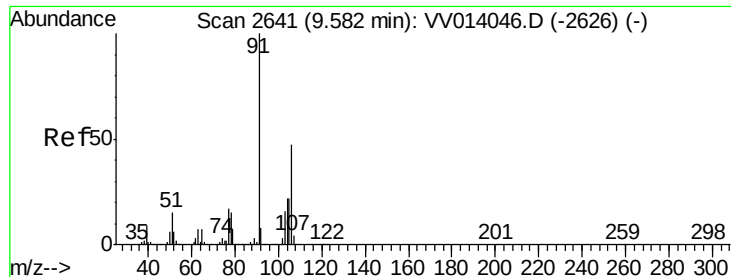
Tgt Ion: 106 Resp: 206549

Ion Ratio Lower Upper

106 100

91 202.5 139.9 259.9





#54

o-xylene

Concen: 4.915 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

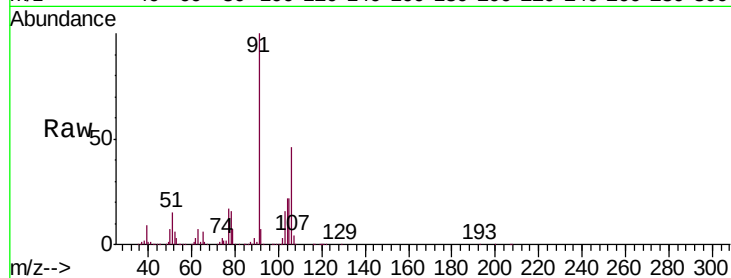
VSTD00556

Tgt Ion:106 Resp: 200277

Ion Ratio Lower Upper

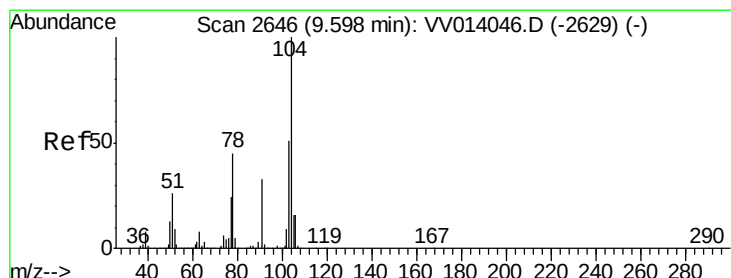
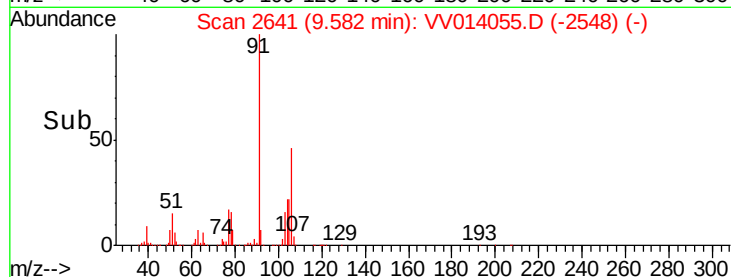
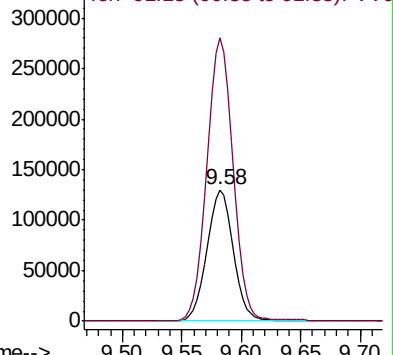
106 100

91 216.0 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.164 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014055.D

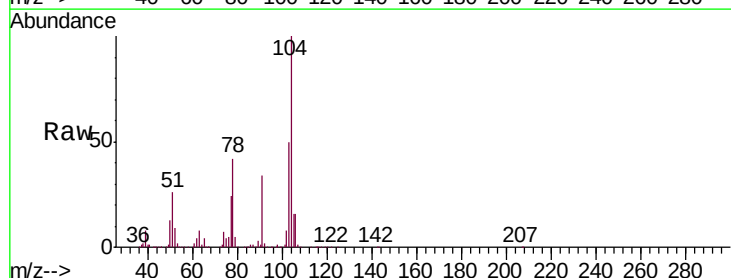
Acq: 13 Dec 2019 16:24

Tgt Ion:104 Resp: 363339

Ion Ratio Lower Upper

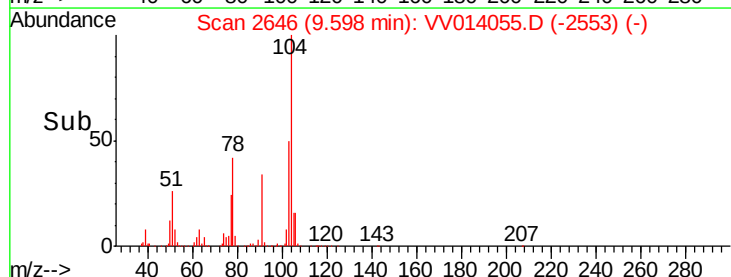
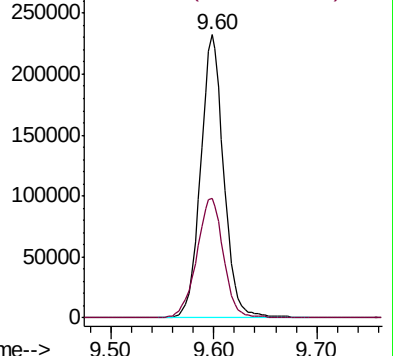
104 100

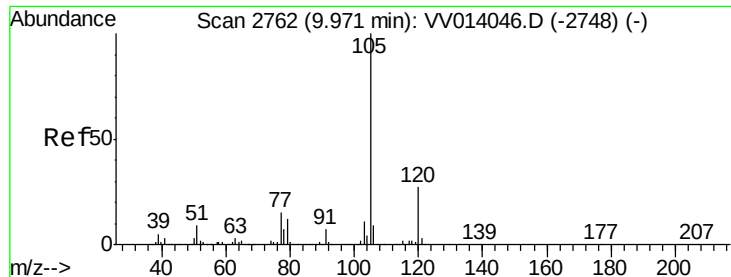
78 42.3 31.0 57.6



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.968 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

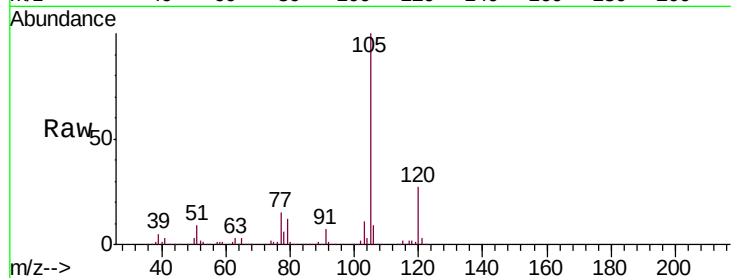
Tgt Ion: 105 Resp: 551720

Ion Ratio Lower Upper

105 100

120 27.0 21.3 31.9

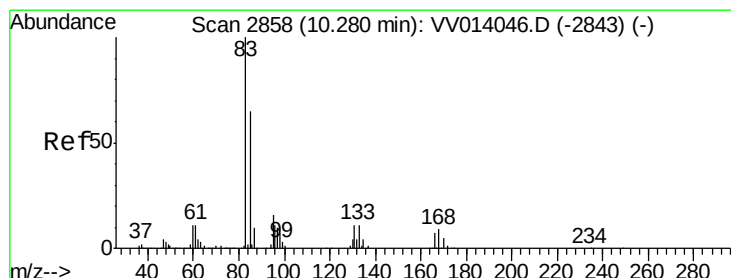
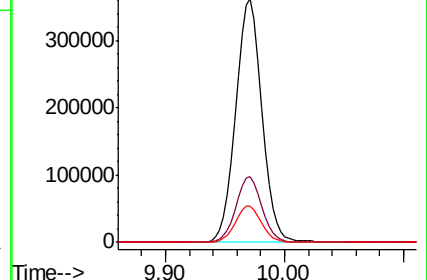
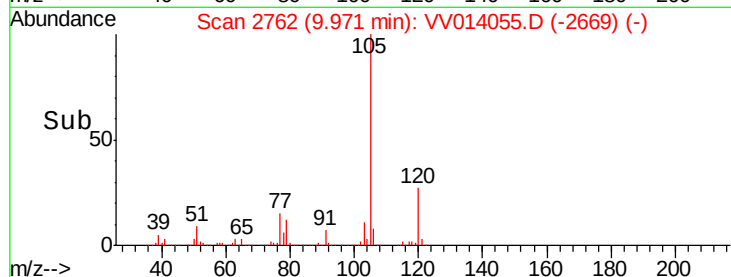
77 15.1 12.1 18.1



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: 4.976 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

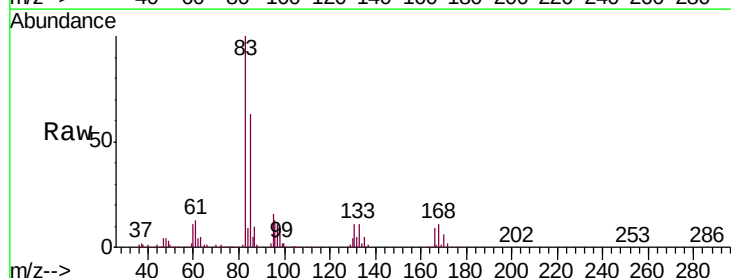
Tgt Ion: 83 Resp: 94101

Ion Ratio Lower Upper

83 100

85 62.9 45.1 83.7

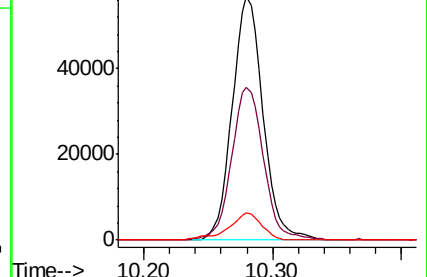
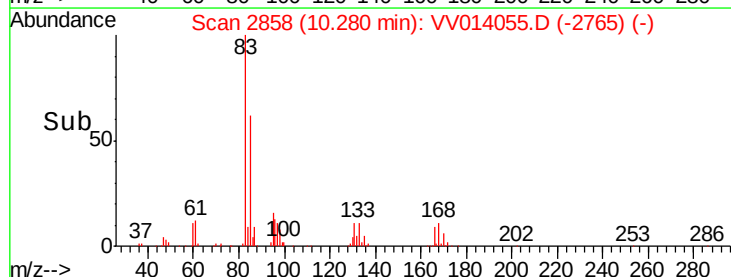
131 11.0 9.3 13.9

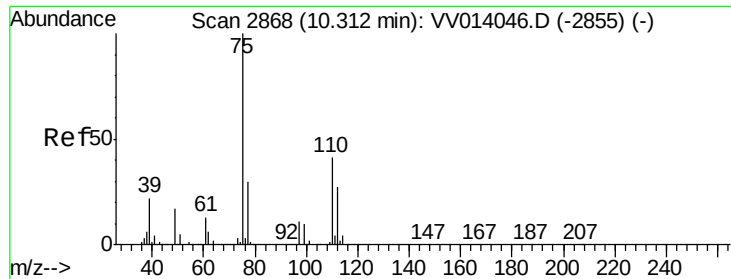


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.002 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

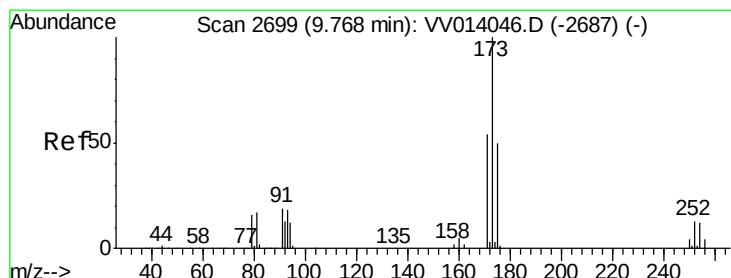
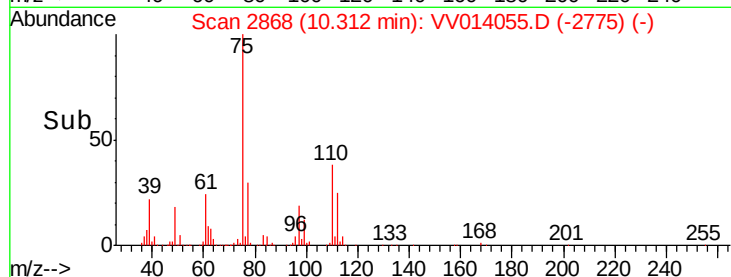
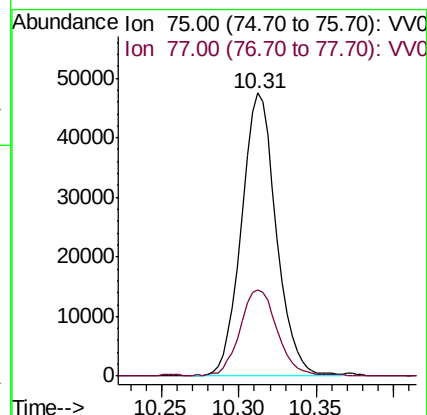
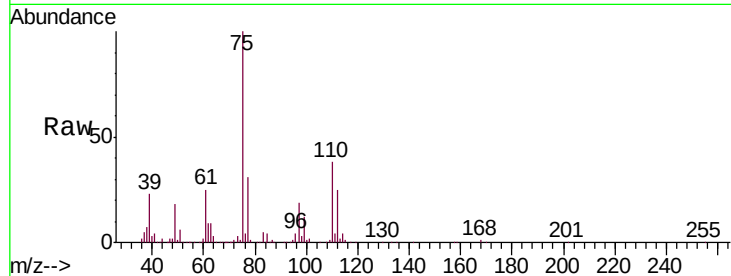
VSTD00556

Tgt Ion: 75 Resp: 74151

Ion Ratio Lower Upper

75 100

77 33.2 25.7 38.5



#61

Bromoform

Concen: 4.545 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

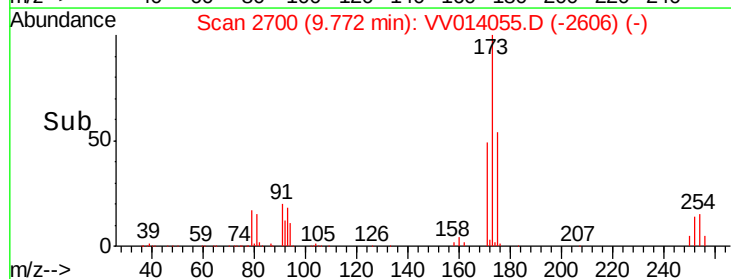
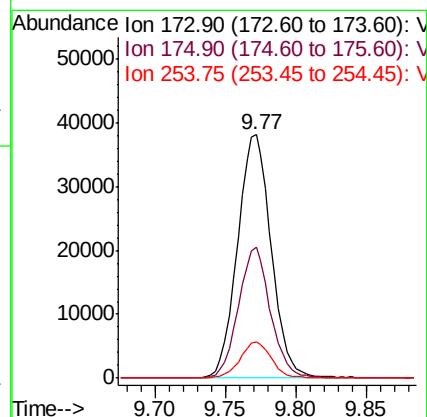
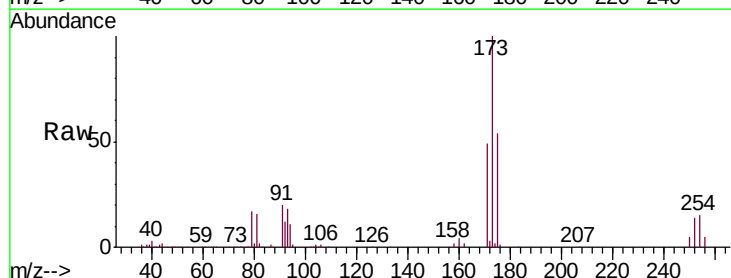
Tgt Ion: 173 Resp: 63768

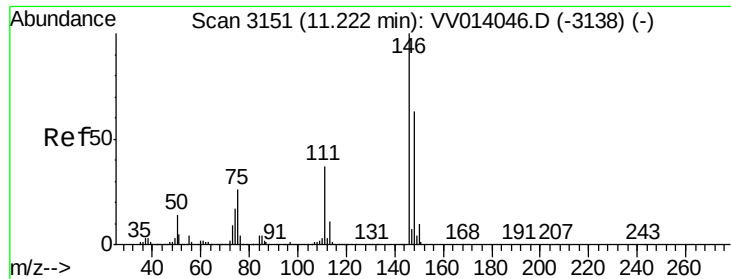
Ion Ratio Lower Upper

173 100

175 51.0 39.1 58.7

254 13.8 10.4 15.6

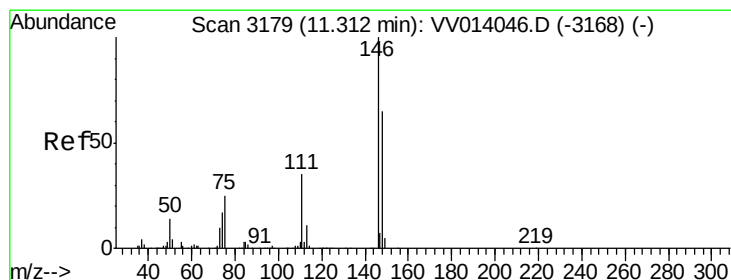
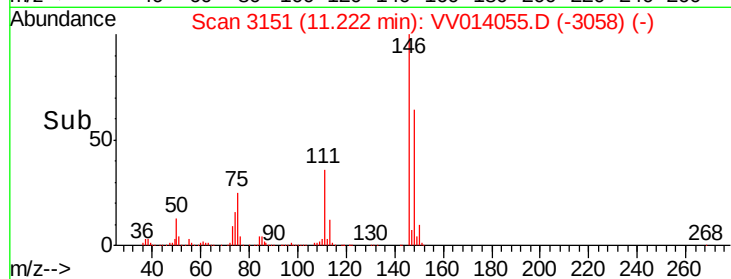
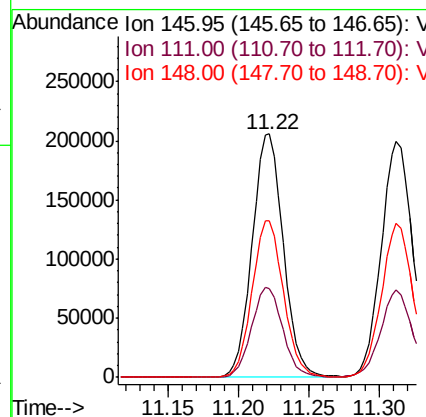
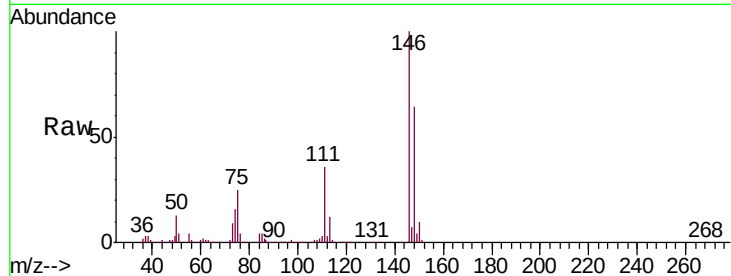




#62
 1,3-Dichlorobenzene
 Concen: 4.934 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

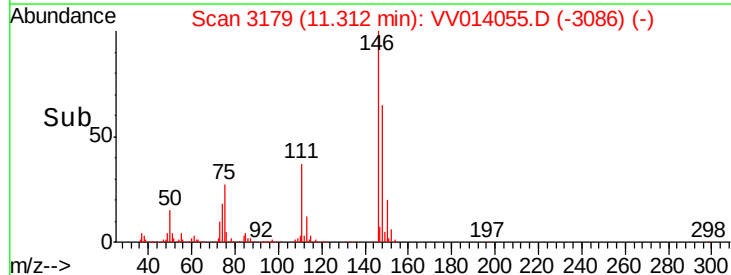
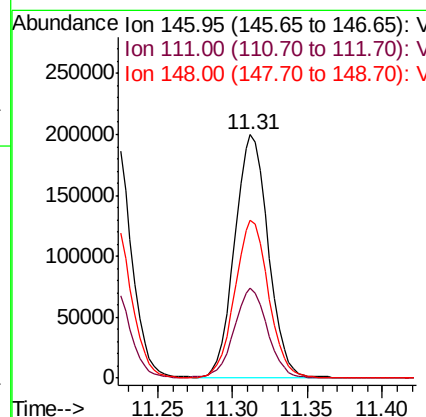
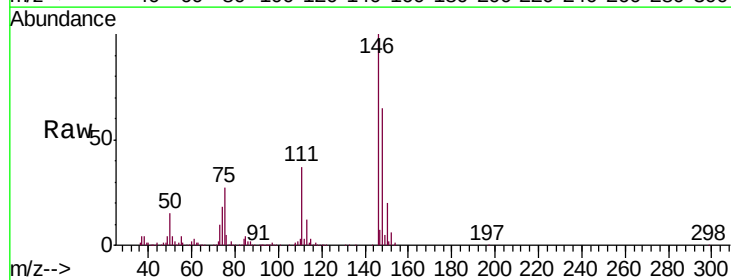
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

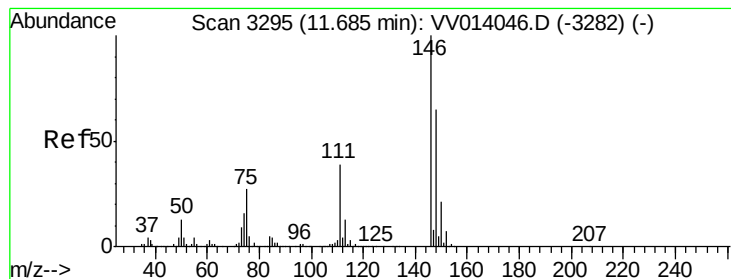
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	25.6	47.6
148	64.2	44.7	82.9



#63
 1,4-Dichlorobenzene
 Concen: 4.728 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	25.0	46.4
148	65.0	45.4	84.2





#65

1,2-Dichlorobenzene

Concen: 4.757 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

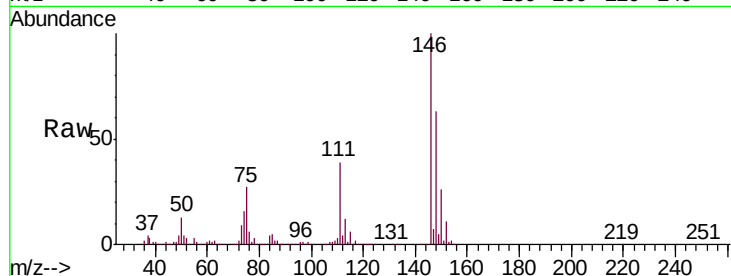
Tgt Ion:146 Resp: 285881

Ion Ratio Lower Upper

146 100

111 38.5 31.3 46.9

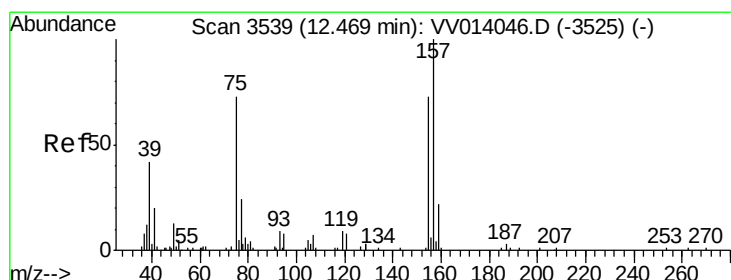
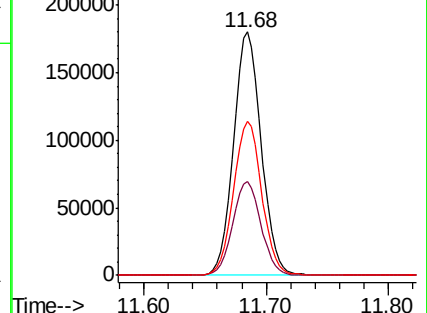
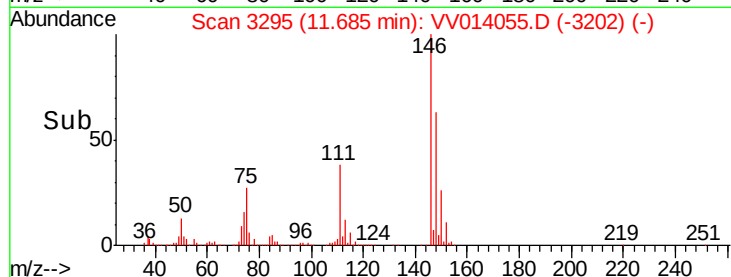
148 63.4 52.2 78.2



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: 3.723 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

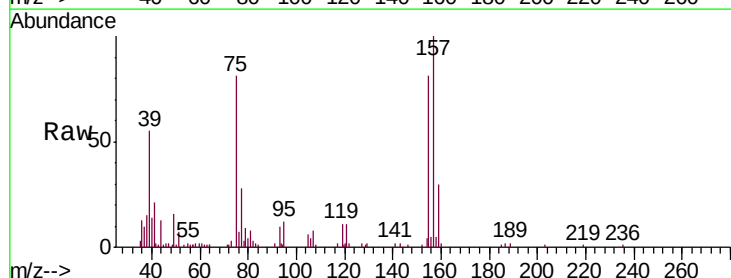
Tgt Ion: 75 Resp: 13003

Ion Ratio Lower Upper

75 100

155 99.6 73.4 110.0

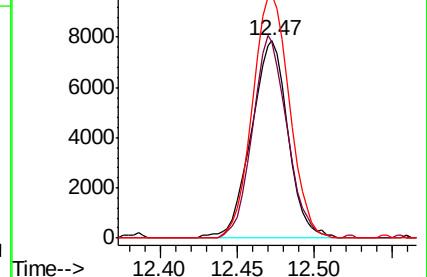
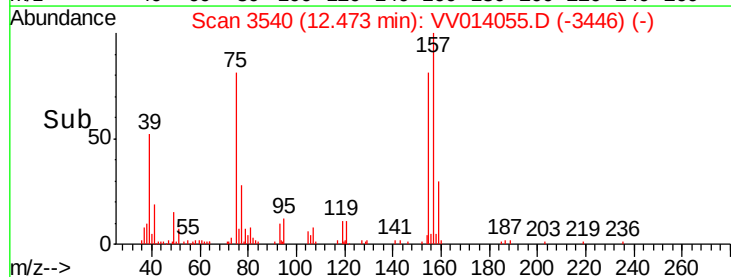
157 123.3 98.7 148.1

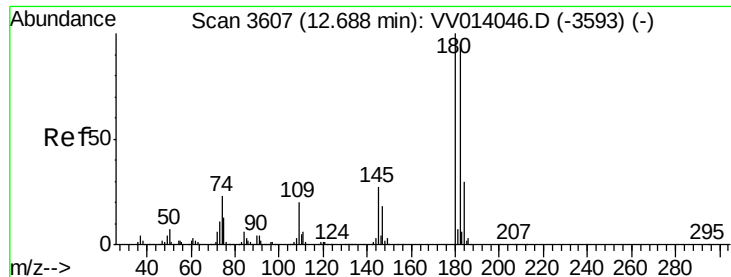


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

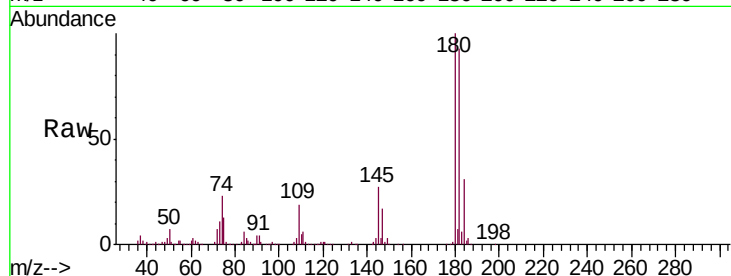




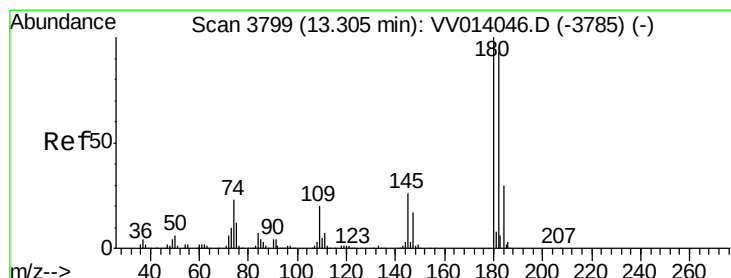
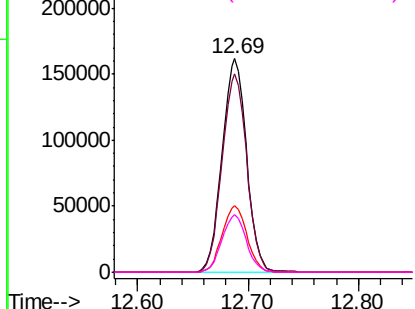
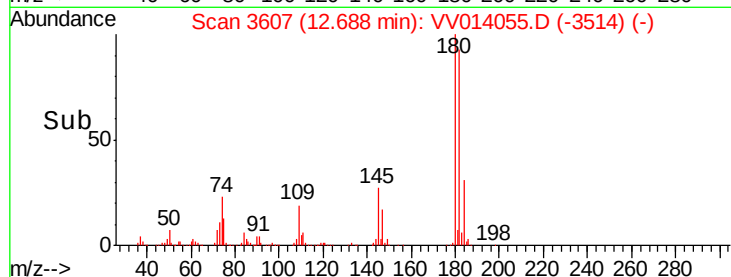
#67
 1,3,5-Trichlorobenzene
 Concen: 4.554 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00556

Tgt Ion:	180	Resp:	249121
Ion	Ratio	Lower	Upper
180	100		
182	93.5	74.8	112.2
184	31.5	23.2	34.8
145	26.8	21.3	31.9

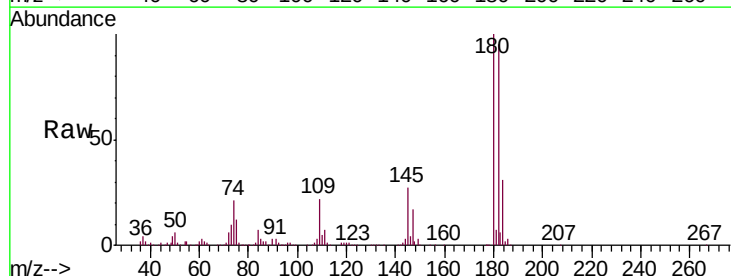


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

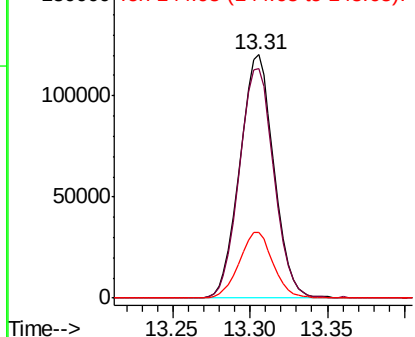
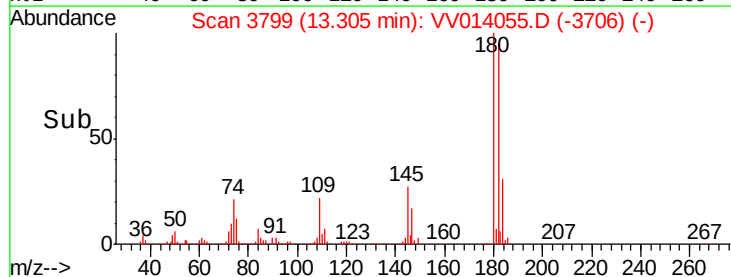


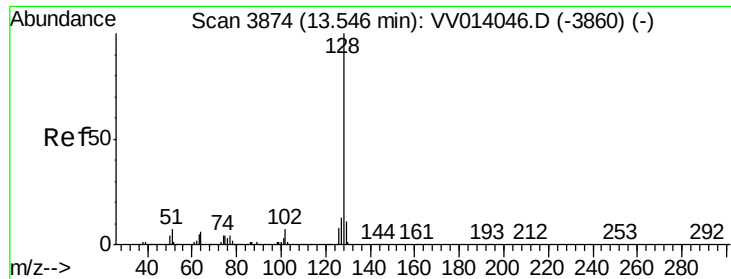
#68
 1,2,4-trichlorobenzene
 Concen: 4.109 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014055.D
 Acq: 13 Dec 2019 16:24

Tgt Ion:	180	Resp:	184345
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
145	27.1	21.0	31.6



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: 3.314 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00556

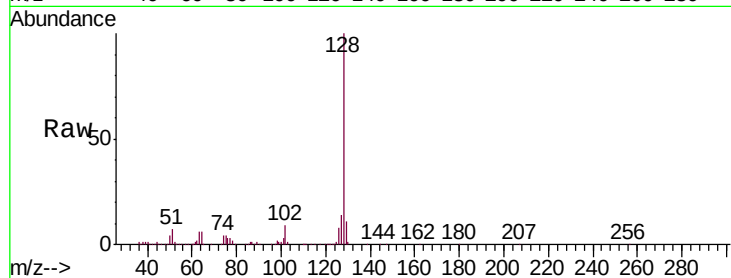
Tgt Ion:128 Resp: 202461

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

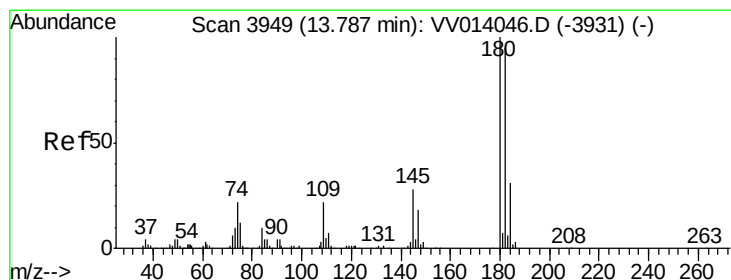
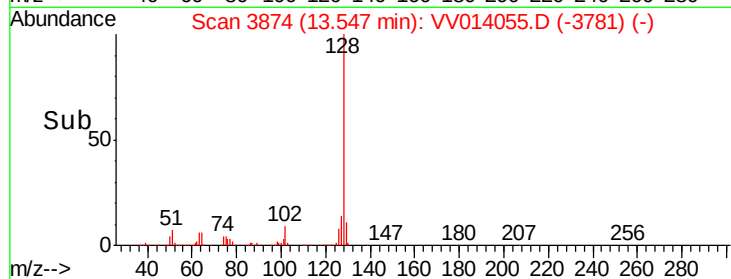
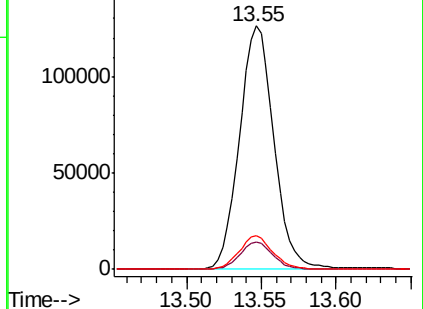
127 13.6 10.6 16.0



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: 4.224 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014055.D

Acq: 13 Dec 2019 16:24

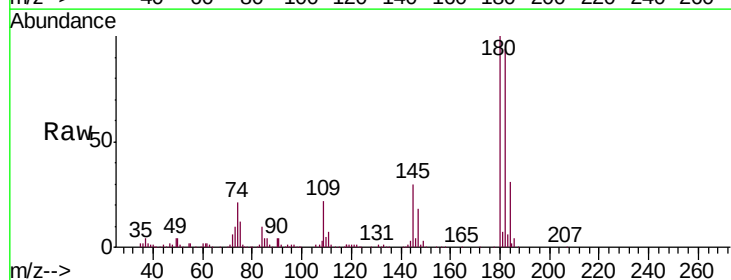
Tgt Ion:180 Resp: 172640

Ion Ratio Lower Upper

180 100

182 95.2 78.5 117.7

145 28.2 23.8 35.8



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

