

Data File : VV011961.D
Acq On : 23 Jul 2019 12:24
Operator : SY/MD
Sample : VSTDCCC005
Misc : 25ML/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Quant Time: Jul 24 05:50:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jul 23 07:18:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	141067	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	135142	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	72678	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	38492	5.25	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	105.00%
7) Chloroethane-d5	1.59	69	30463	5.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.60%
11) 1,1-Dichloroethene-d2	2.13	63	79467	5.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	109.00%
20) 2-Butanone-d5	3.96	46	117084	54.63	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.26%
24) Chloroform-d	4.40	84	97451	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
26) 1,2-Dichloroethane-d4	5.08	65	54264	5.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	110.60%
32) Benzene-d6	5.10	84	206679	5.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.80%
36) 1,2-Dichloropropane-d6	6.12	67	57497	5.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.60%
41) Toluene-d8	7.36	98	196344	5.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.40%
43) trans-1,3-Dichloropropene-	7.66	79	25161	5.75	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	115.00%
46) 2-Hexanone-d5	8.14	63	95722	54.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.92%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	40658	5.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	74290	5.31	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	69031	4.734 ug/L	98
3) Chloromethane	1.25	50	39923	4.719 ug/L	97
5) Vinyl chloride	1.32	62	41471	4.787 ug/L	99
6) Bromomethane	1.54	94	24331	4.775 ug/L	99
8) Chloroethane	1.60	64	23586	4.602 ug/L	100
9) Trichlorofluoromethane	1.77	101	80794	5.060 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	35005	4.877 ug/L	99
12) 1,1-Dichloroethene	2.14	96	32260	5.025 ug/L	99
13) Acetone	2.22	43	52704	45.621 ug/L	99
14) Carbon disulfide	2.32	76	87278	4.769 ug/L	98
15) Methyl Acetate	2.47	43	10410	4.128 ug/L	98
16) Methylene chloride	2.54	84	31369	4.357 ug/L	93
17) Methyl tert-butyl Ether	2.81	73	106568	4.864 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	48401	4.841 ug/L	98
19) 1,1-Dichloroethane	3.23	63	86068	4.874 ug/L	96
21) 2-Butanone	4.04	43	106738	48.164 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	50802	4.728 ug/L	90

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ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Quant Time: Jul 24 05:50:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jul 23 07:18:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	22596	5.115	ug/L	98
25) Chloroform	4.43	83	103840	4.869	ug/L	99
27) 1,2-Dichloroethane	5.18	62	59543	5.021	ug/L	98
29) 1,1,1-Trichloroethane	4.66	97	85055	4.917	ug/L	99
30) Cyclohexane	4.72	56	76568	4.686	ug/L	99
31) Carbon tetrachloride	4.87	117	77601	4.984	ug/L	99
33) Benzene	5.15	78	194884	4.902	ug/L	100
34) Trichloroethene	5.96	95	54533	4.940	ug/L	98
35) Methylcyclohexane	6.17	83	83680	4.870	ug/L	98
37) 1,2-Dichloropropane	6.22	63	46095	4.823	ug/L	99
38) Bromodichloromethane	6.56	83	63059	4.938	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	69047	4.875	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	265779	49.773	ug/L	100
42) Toluene	7.43	91	211985	4.968	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	54112	4.803	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	32181	4.876	ug/L	98
47) Tetrachloroethene	8.02	164	47402	4.976	ug/L	98
48) 2-Hexanone	8.19	43	189173	50.502	ug/L	99
49) Dibromochloromethane	8.29	129	40810	5.049	ug/L	97
50) 1,2-Dibromoethane	8.40	107	30926	4.962	ug/L	100
51) Chlorobenzene	8.92	112	138327	4.951	ug/L	98
52) Ethylbenzene	9.05	91	241000	4.948	ug/L	100
53) m,p-xylene	9.18	106	93503	5.044	ug/L	100
54) o-xylene	9.59	106	87782	4.994	ug/L	99
55) Styrene	9.60	104	148680	5.019	ug/L	97
56) Isopropylbenzene	9.97	105	245276	4.996	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	34776	4.861	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	27631	4.957	ug/L	99
61) Bromoform	9.78	173	22184	4.973	ug/L	96
62) 1,3-Dichlorobenzene	11.23	146	113764	4.786	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	116263	4.751	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	103892	4.747	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	5919	4.655	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	95583	4.808	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	76868	4.761	ug/L	99
69) Naphthalene	13.55	128	111241	4.569	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	70516	4.814	ug/L	99

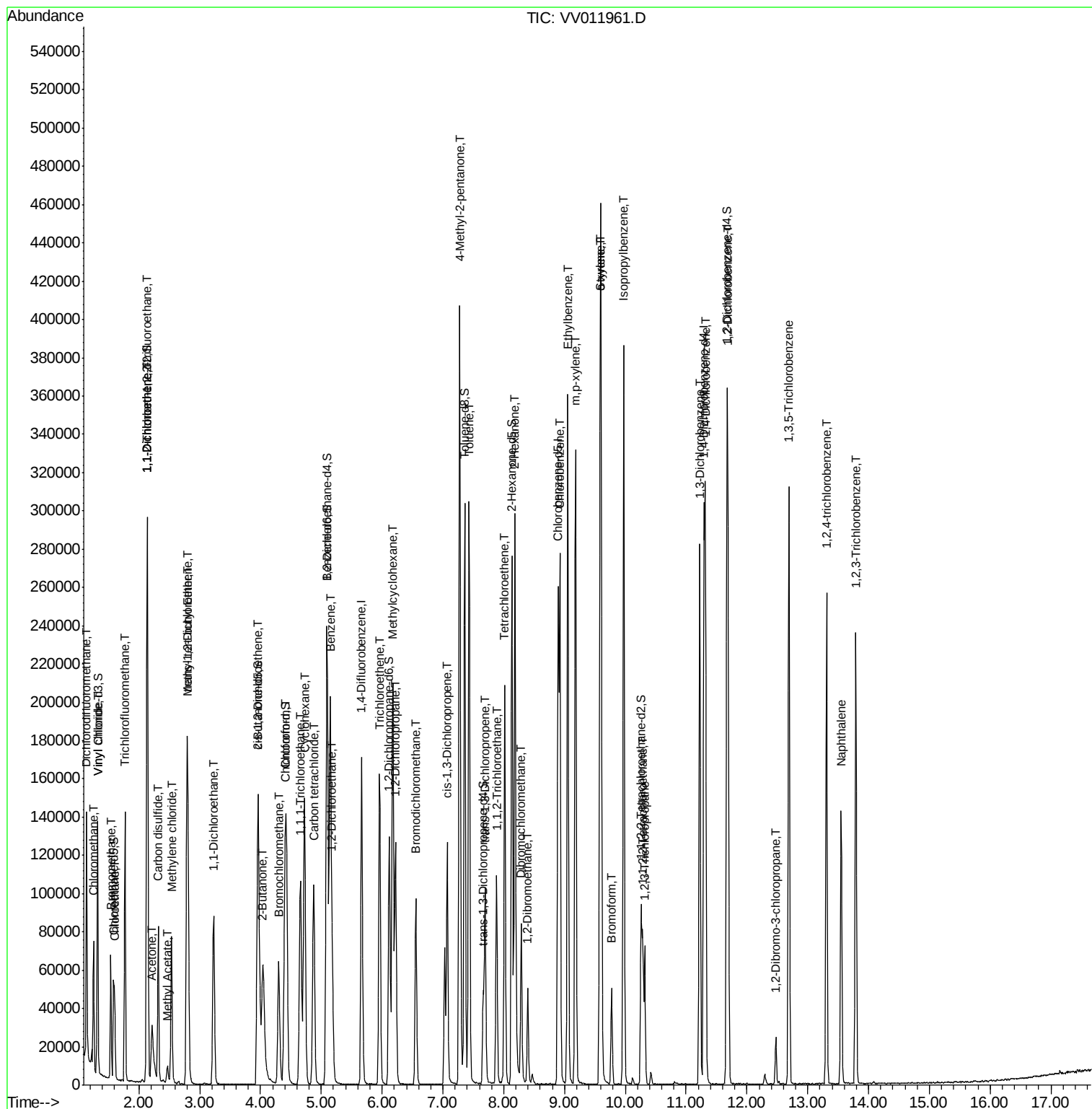
(#) = qualifier out of range (m) = manual integration (+) = signals summed

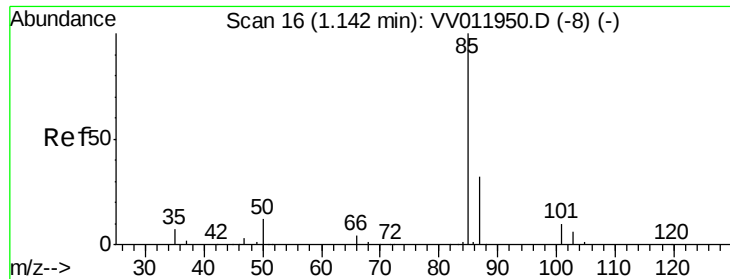
Data File : VV011961.D

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Acq On       : 23 Jul 2019   12:24
Operator     : SY/MD
Sample       : VSTDCCC005
Misc         : 25ML/MSVOA_V/WATER
ALS Vial     : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Quant Time: Jul 24 05:50:31 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072219WMA.M
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#2

Dichlorodifluoromethane

Concen: 4.734 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

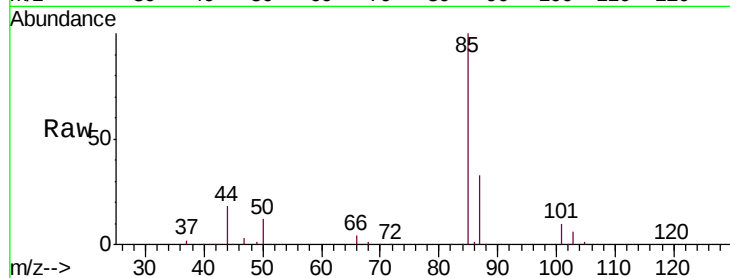
VSTD00544

Tgt Ion: 85 Resp: 69031

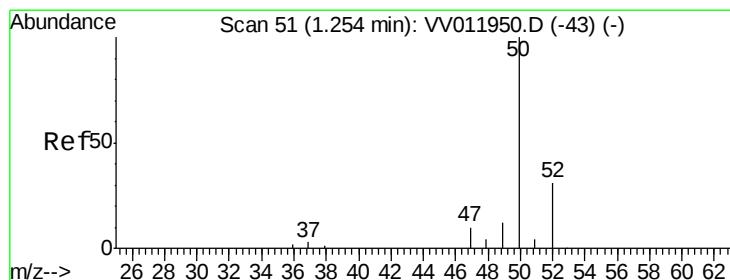
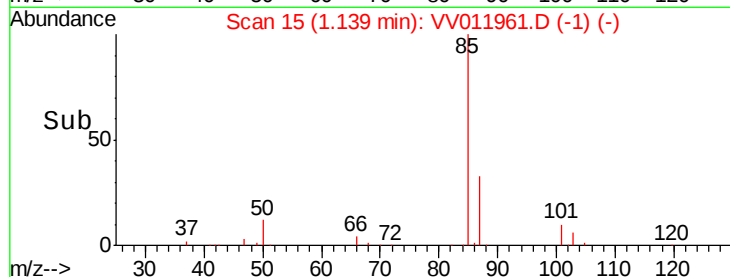
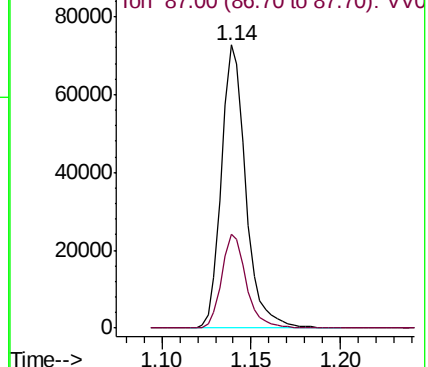
Ion Ratio Lower Upper

85 100

87 33.2 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV011950.D (-8) (-)



#3

Chloromethane

Concen: 4.719 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV011961.D

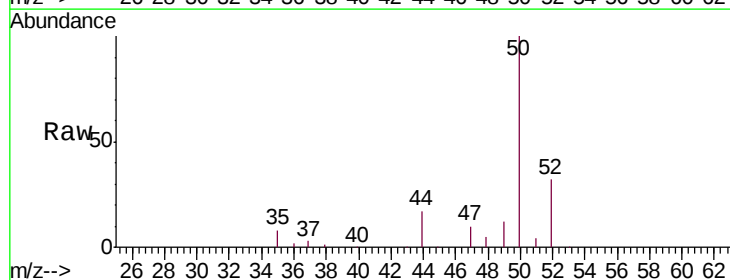
Acq: 23 Jul 2019 12:24

Tgt Ion: 50 Resp: 39923

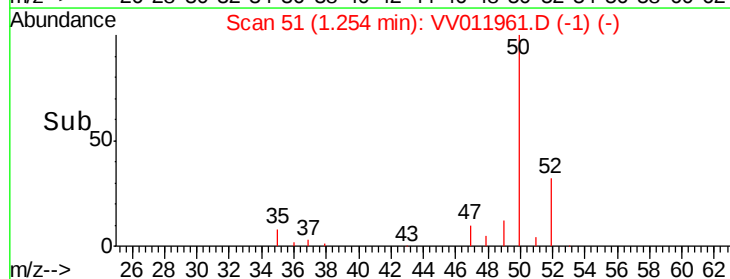
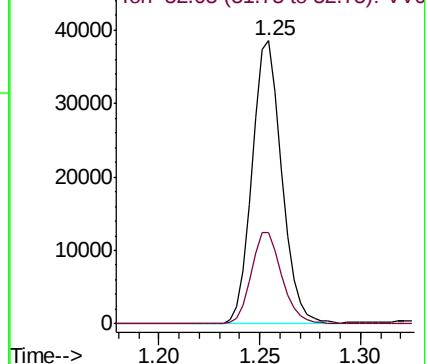
Ion Ratio Lower Upper

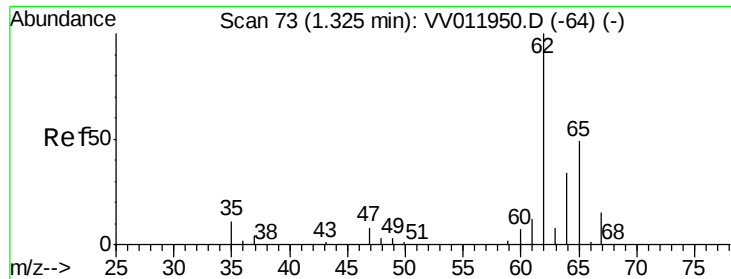
50 100

52 32.5 21.6 40.2



Abundance Ion 50.05 (49.75 to 50.75): VV011950.D (-43) (-)





#5

Vinyl chloride

Concen: 4.787 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

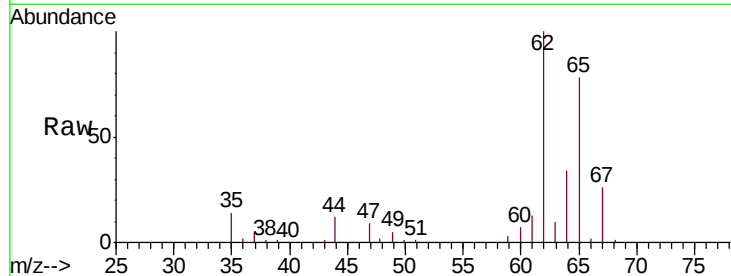
VSTD00544

Tgt Ion: 62 Resp: 41471

Ion Ratio Lower Upper

62 100

64 33.9 24.3 45.1

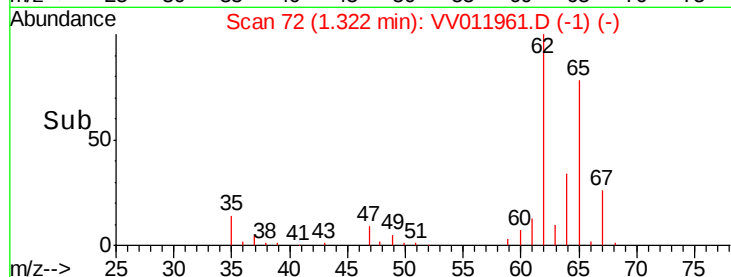


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

Time-->



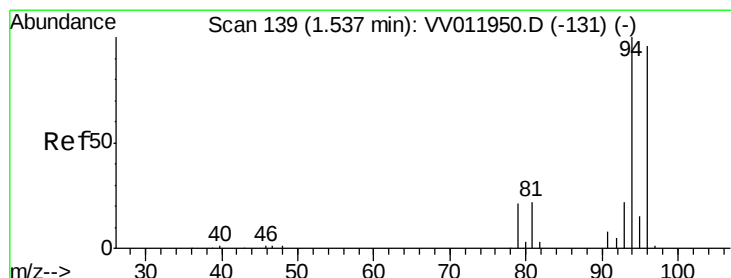
Abundance

Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

Time-->



#6

Bromomethane

Concen: 4.775 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV011961.D

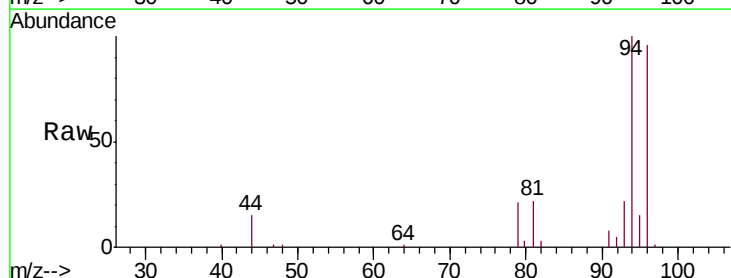
Acq: 23 Jul 2019 12:24

Tgt Ion: 94 Resp: 24331

Ion Ratio Lower Upper

94 100

96 95.7 67.3 125.1

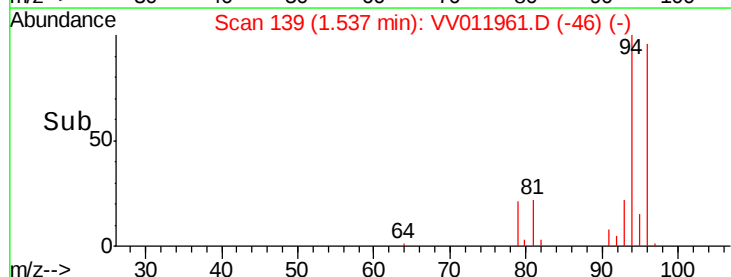


Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

Time-->



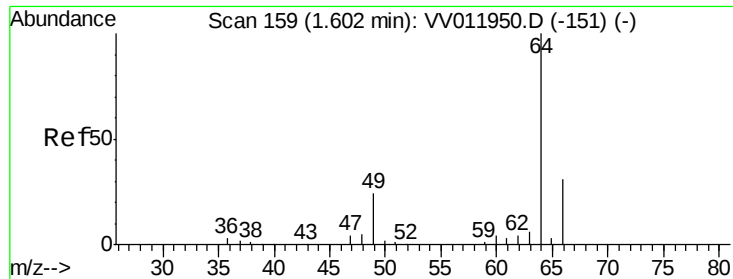
Abundance

Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

Time-->



#8

Chloroethane

Concen: 4.602 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

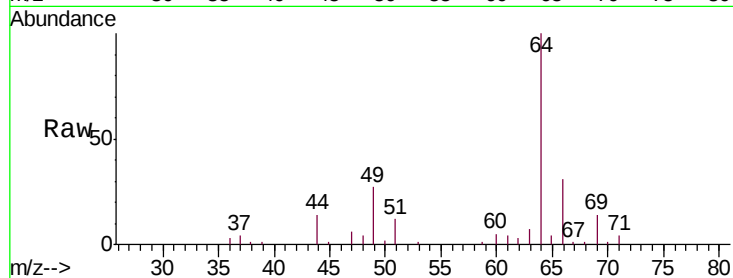
VSTD00544

Tgt Ion: 64 Resp: 23586

Ion Ratio Lower Upper

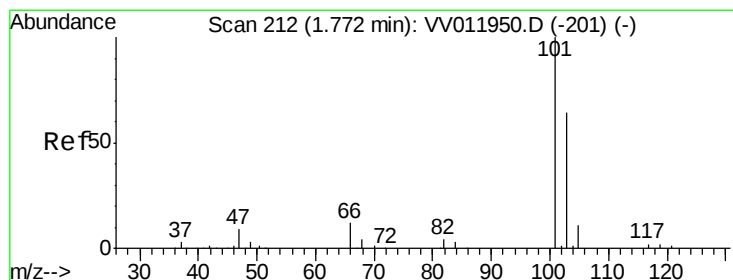
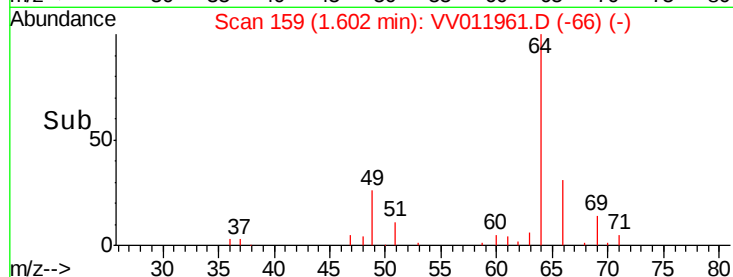
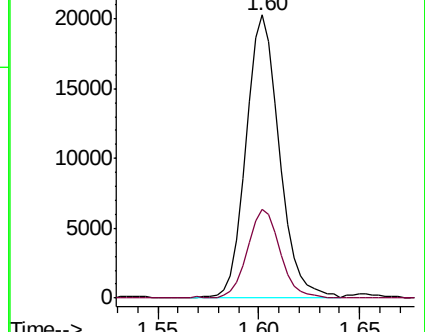
64 100

66 31.3 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV011950.D (-151) (-)

Ion 66.05 (65.75 to 66.75): VV011961.D (-66) (-)



#9

Trichlorofluoromethane

Concen: 5.060 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV011961.D

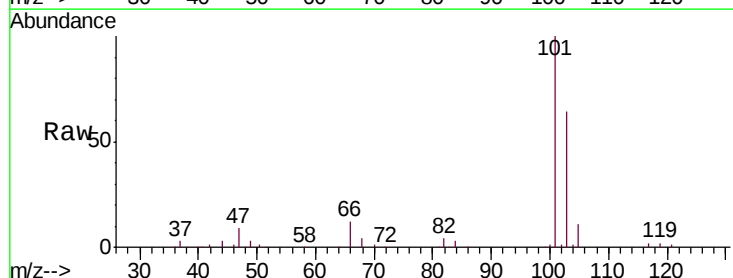
Acq: 23 Jul 2019 12:24

Tgt Ion: 101 Resp: 80794

Ion Ratio Lower Upper

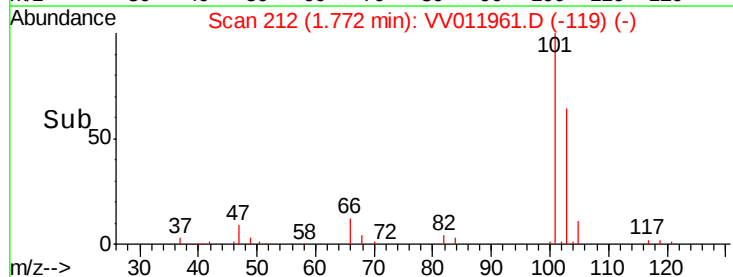
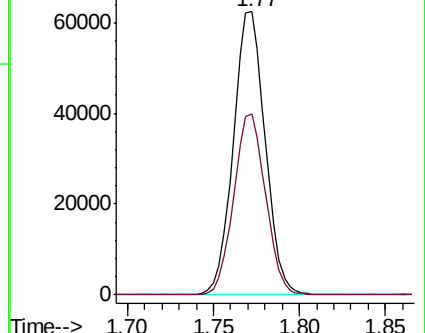
101 100

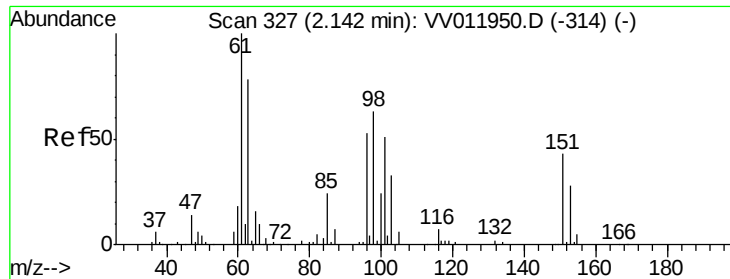
103 63.8 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VV011950.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV011961.D (-119) (-)





#10

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

Concen: 4.877 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

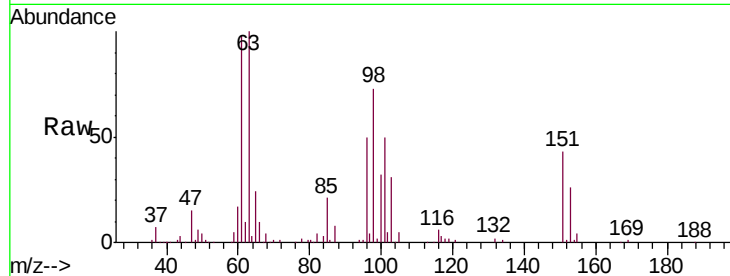
Tgt Ion:101 Resp: 35005

Ion Ratio Lower Upper

101 100

85 44.6 37.0 55.6

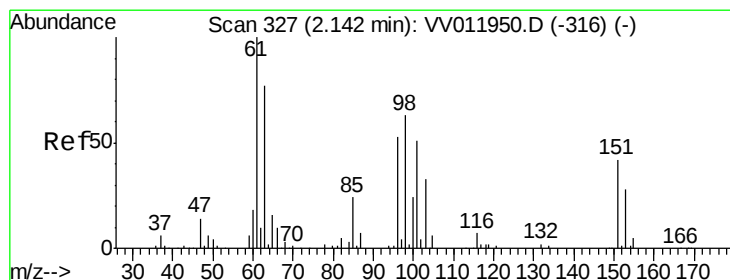
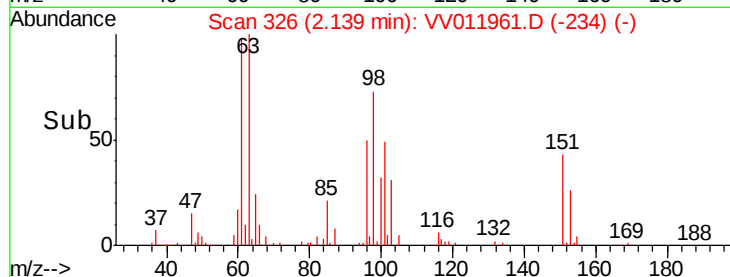
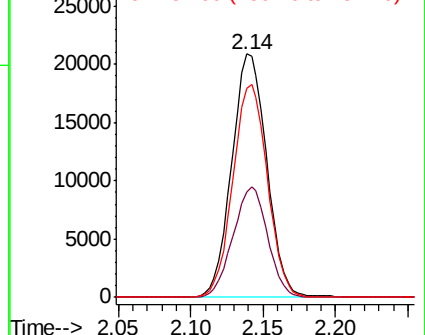
151 86.1 68.3 102.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.025 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

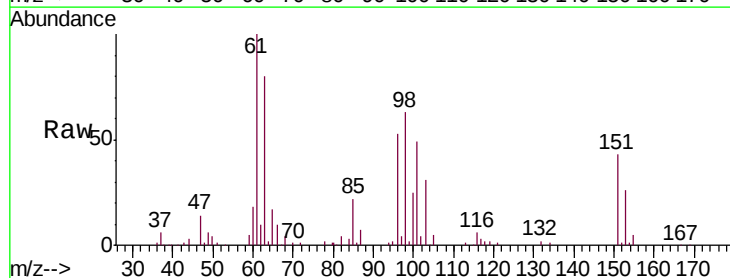
Tgt Ion: 96 Resp: 32260

Ion Ratio Lower Upper

96 100

61 187.8 132.7 246.5

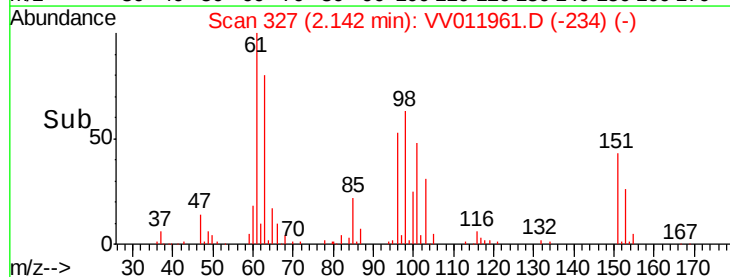
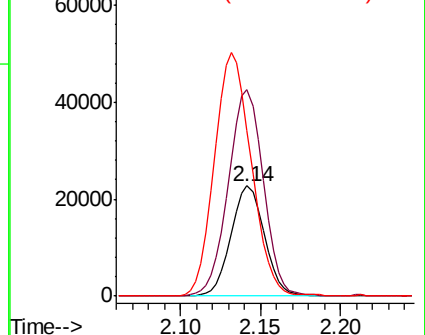
63 150.1 104.0 193.1

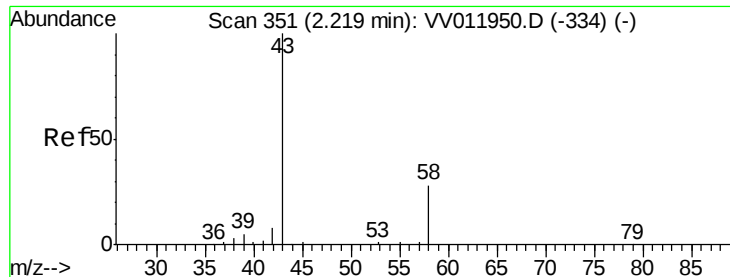


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 45.621 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

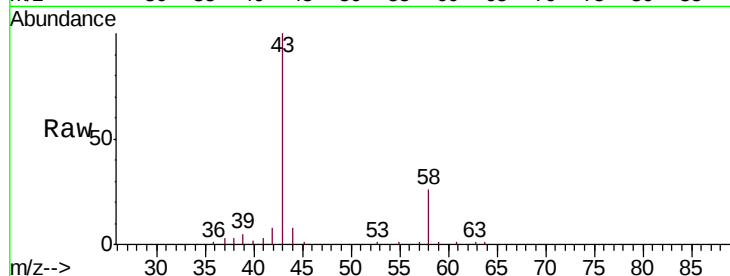
VSTD00544

Tgt Ion: 43 Resp: 52704

Ion Ratio Lower Upper

43 100

58 25.6 0.0 51.8



Abundance Ion 43.05 (42.75 to 43.75): VV011950.D (-334) (-)

Ion 58.05 (57.75 to 58.75): VV011950.D (-334) (-)

2.22

20000

15000

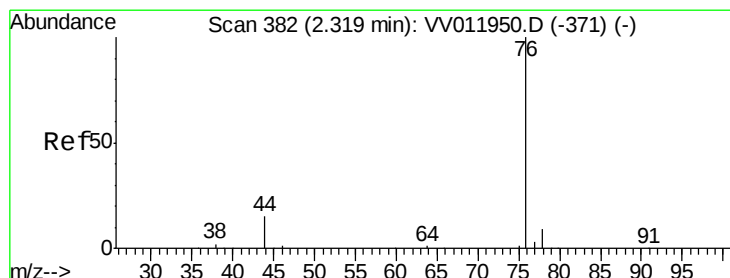
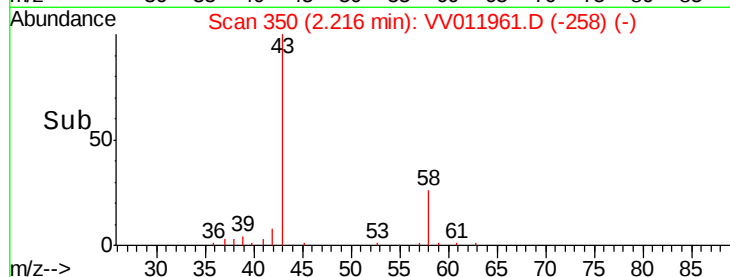
10000

5000

0

Time-->

2.10 2.20 2.30



#14

Carbon disulfide

Concen: 4.769 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV011961.D

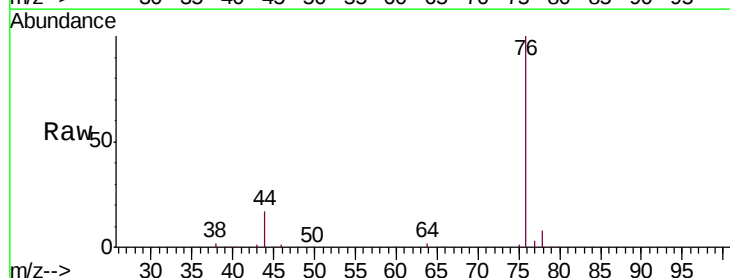
Acq: 23 Jul 2019 12:24

Tgt Ion: 76 Resp: 87278

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VV011950.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV011950.D (-371) (-)

2.32

60000

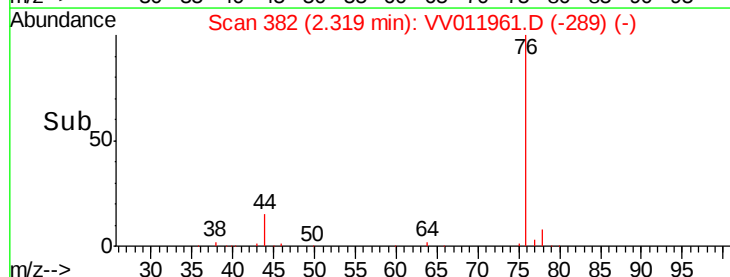
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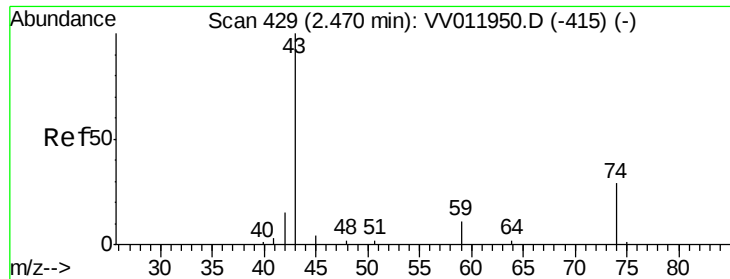
20000

0

Time-->

2.25 2.30 2.35 2.40

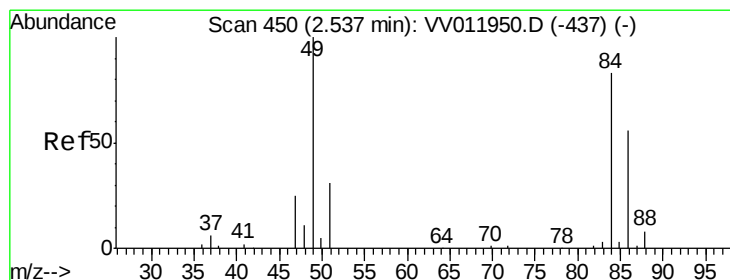
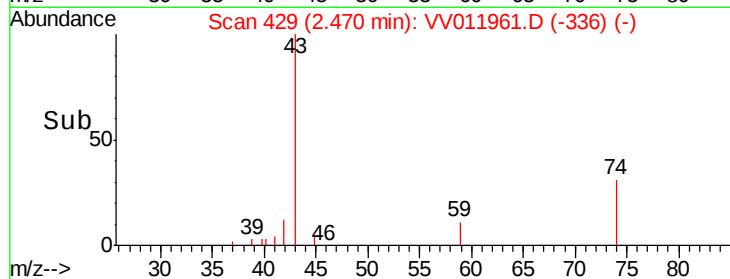
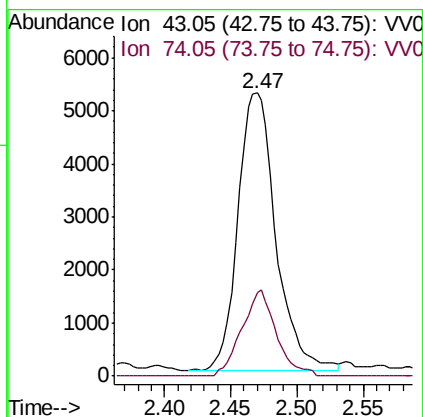
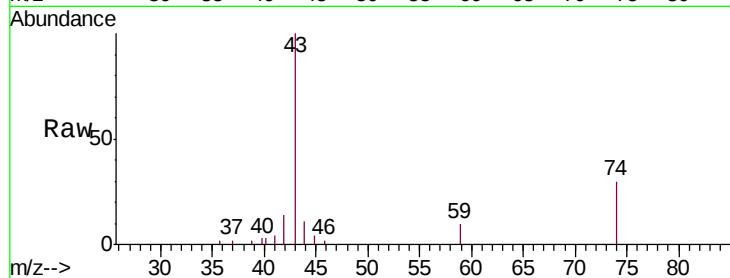




#15
Methyl Acetate
Concen: 4.128 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

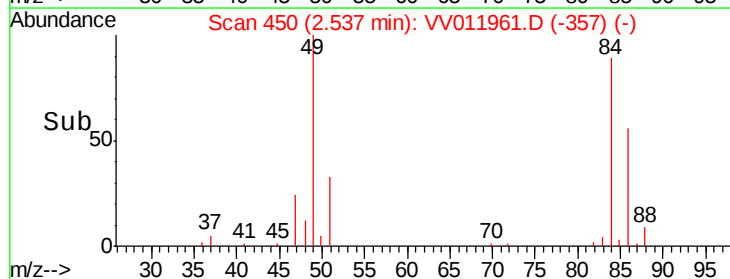
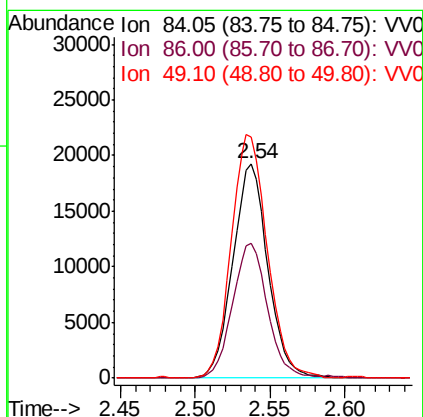
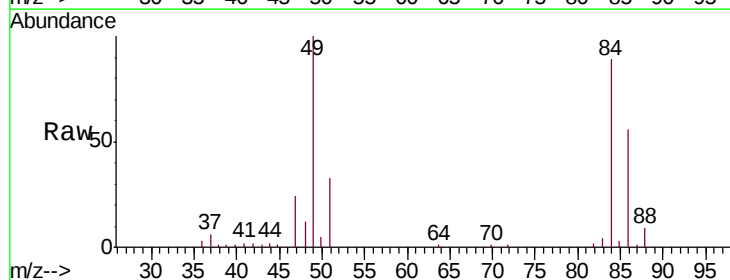
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

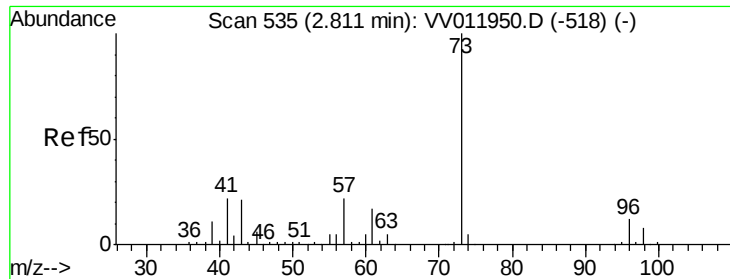
Tgt Ion: 43 Resp: 10410
Ion Ratio Lower Upper
43 100
74 28.1 23.4 35.2



#16
Methylene chloride
Concen: 4.357 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion: 84 Resp: 31369
Ion Ratio Lower Upper
84 100
86 63.0 47.6 88.4
49 112.3 84.3 156.5

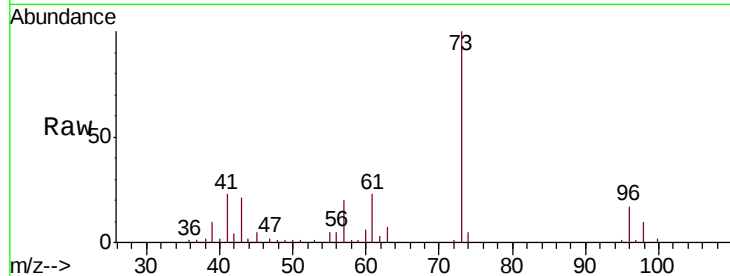




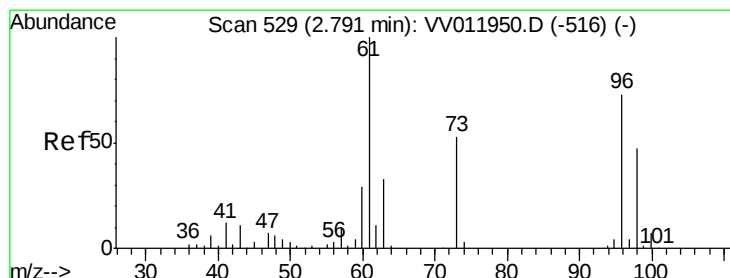
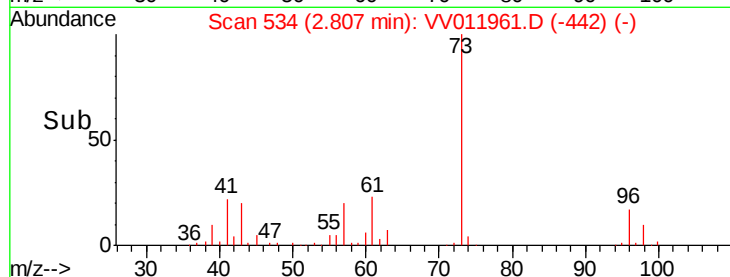
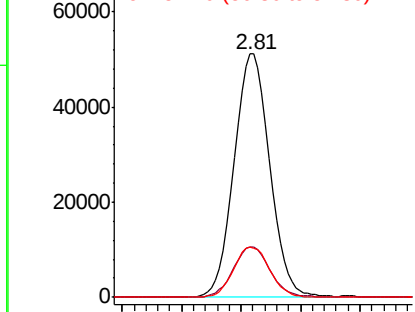
#17
Methyl tert-butyl Ether
Concen: 4.864 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Tgt Ion: 73 Resp: 106568
Ion Ratio Lower Upper
73 100
43 21.6 17.0 25.4
57 21.1 17.0 25.6

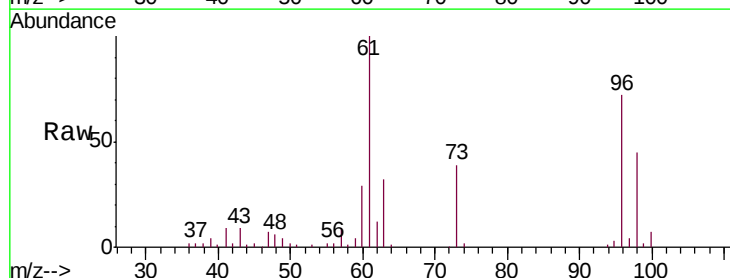


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

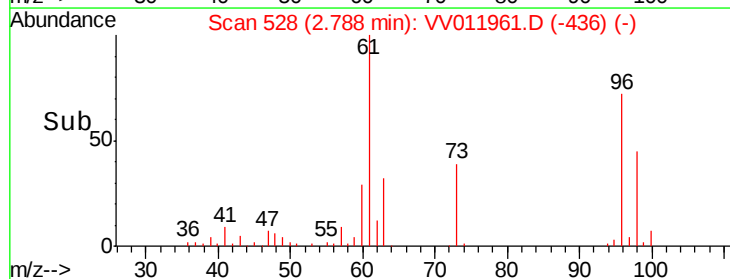
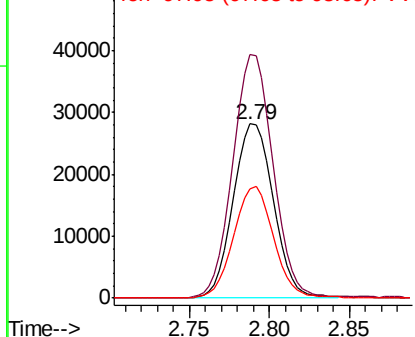


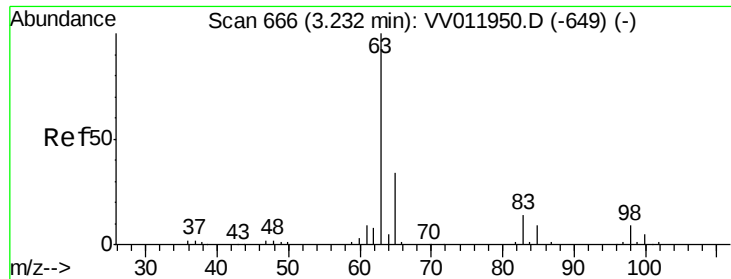
#18
trans-1,2-Dichloroethene
Concen: 4.841 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion: 96 Resp: 48401
Ion Ratio Lower Upper
96 100
61 139.8 95.4 177.2
98 63.0 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

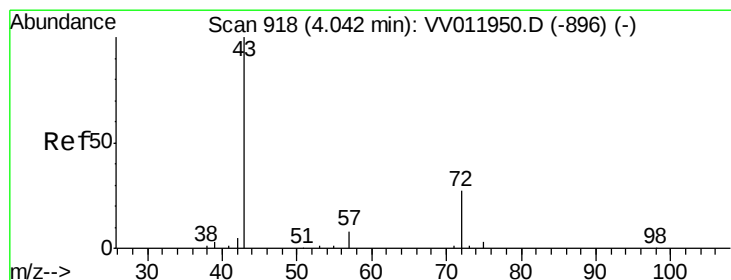
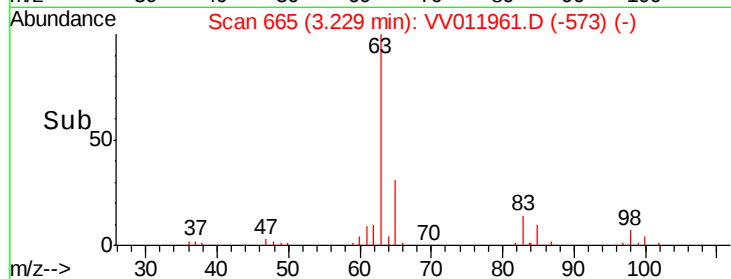
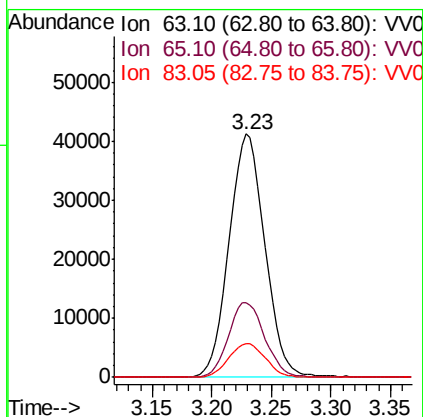
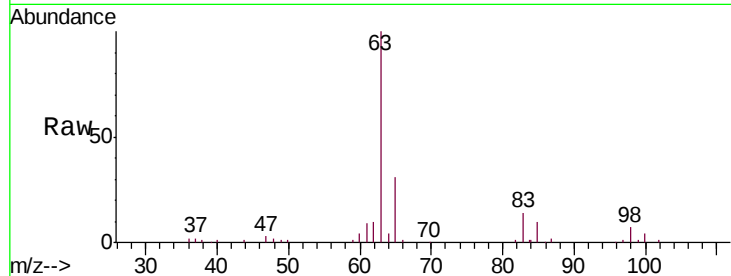




#19
 1,1-Dichloroethane
 Concen: 4.874 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

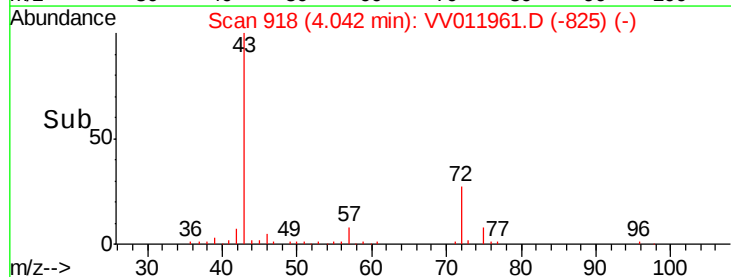
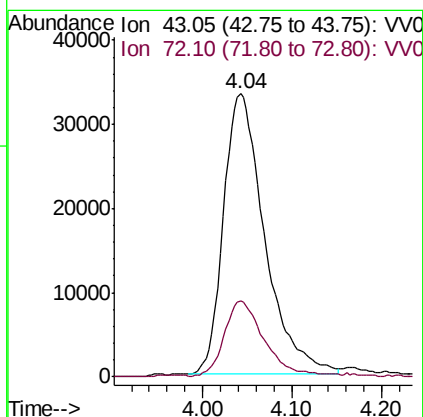
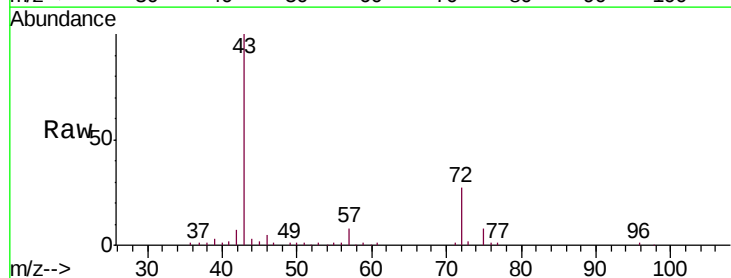
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

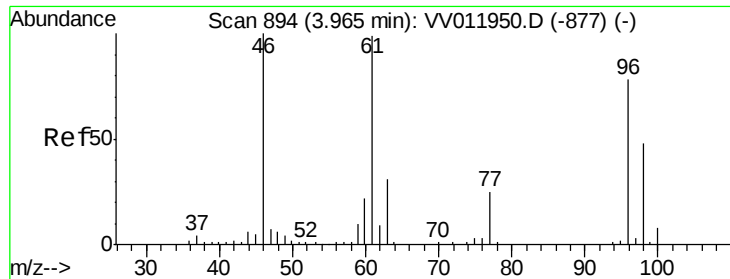
Tgt Ion: 63 Resp: 86068
 Ion Ratio Lower Upper
 63 100
 65 30.8 23.5 43.7
 83 14.1 9.7 18.1



#21
 2-Butanone
 Concen: 48.164 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion: 43 Resp: 106738
 Ion Ratio Lower Upper
 43 100
 72 26.7 13.6 40.8



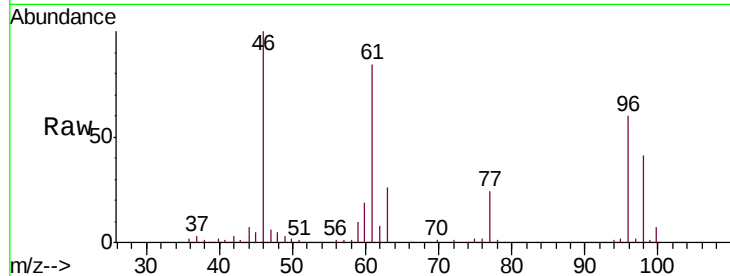


#22

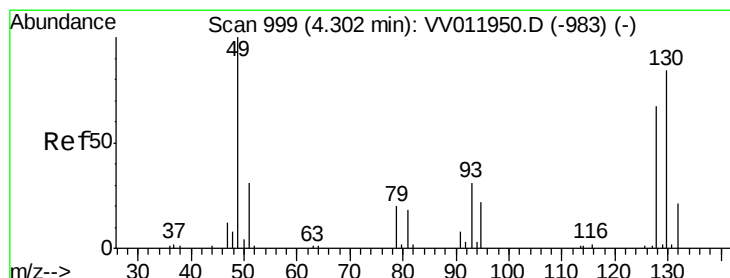
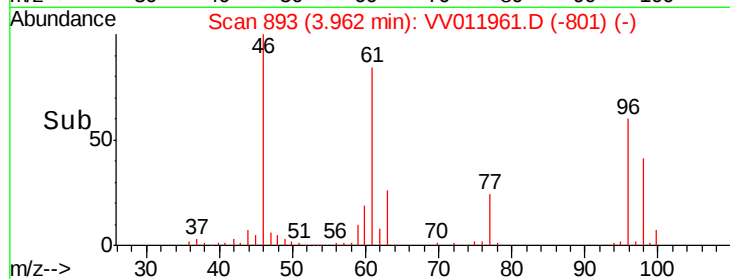
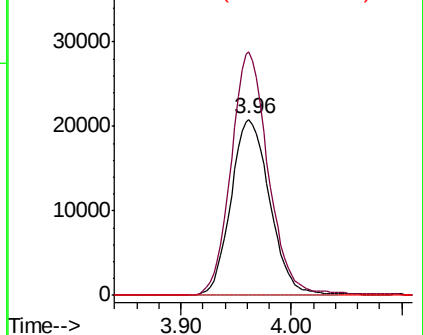
cis-1,2-Dichloroethene
 Concen: 4.728 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Tgt Ion: 96 Resp: 50802
 Ion Ratio Lower Upper
 96 100
 61 138.5 89.0 165.2
 68 0.0 0.0 0.0



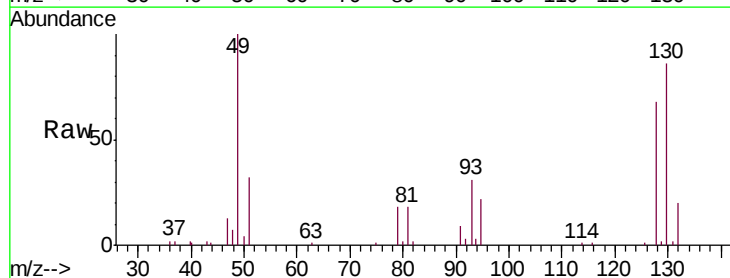
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



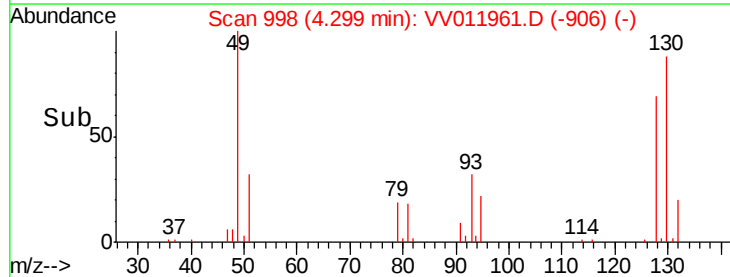
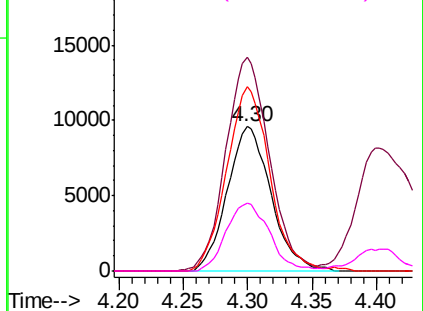
#23

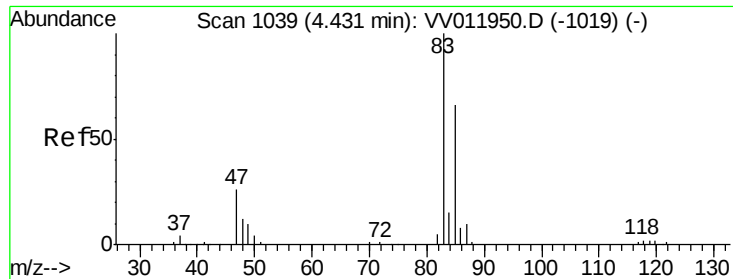
Bromochloromethane
 Concen: 5.115 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion: 128 Resp: 22596
 Ion Ratio Lower Upper
 128 100
 49 147.8 105.5 195.9
 130 127.5 88.4 164.2
 51 47.1 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

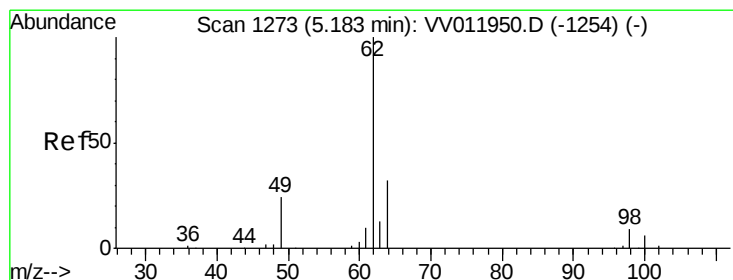
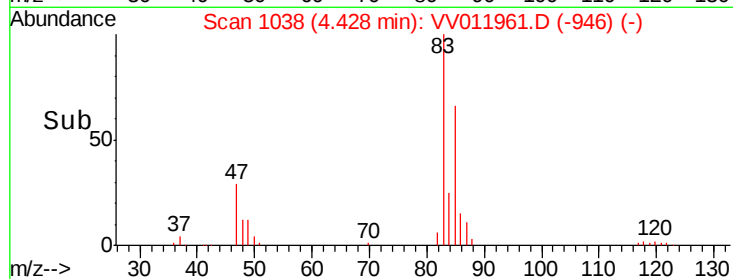
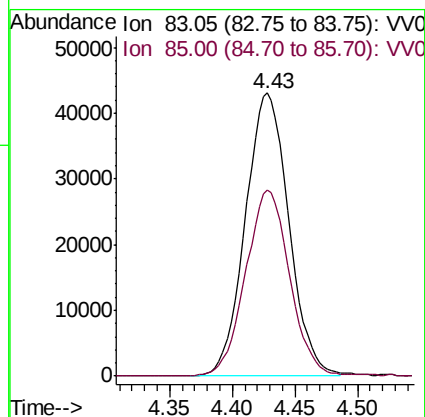
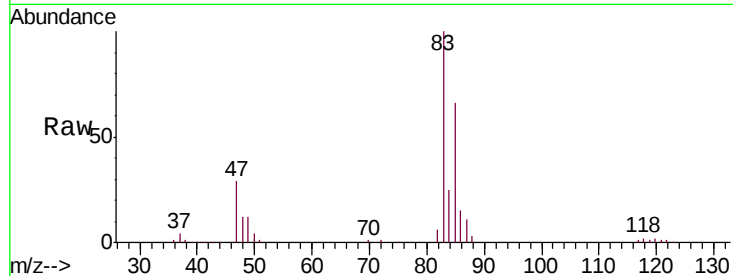




#25
Chloroform
Concen: 4.869 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

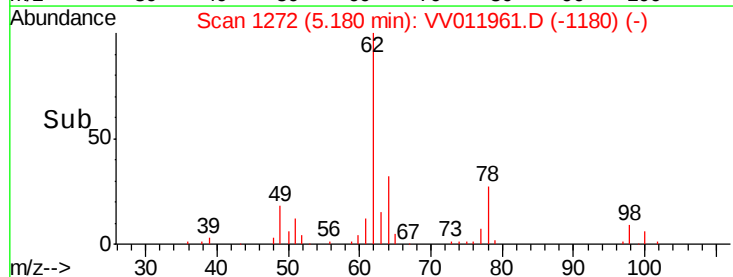
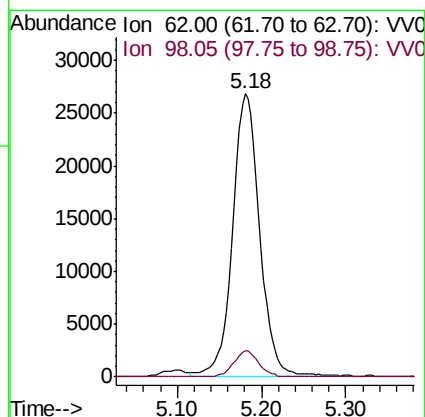
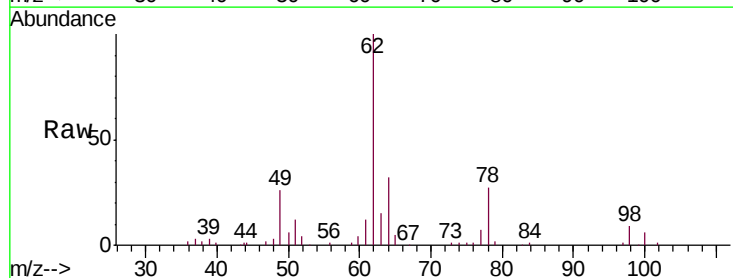
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

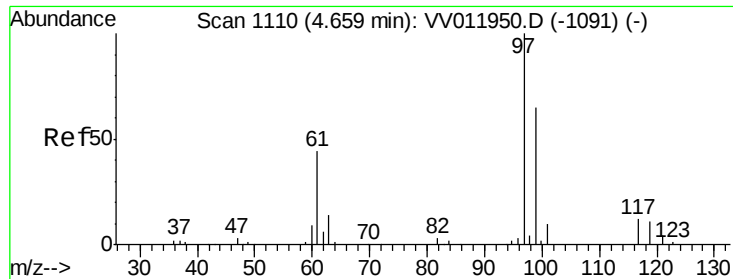
Tgt Ion: 83 Resp: 103840
Ion Ratio Lower Upper
83 100
85 65.9 46.5 86.3



#27
1,2-Dichloroethane
Concen: 5.021 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion: 62 Resp: 59543
Ion Ratio Lower Upper
62 100
98 9.4 7.0 10.6

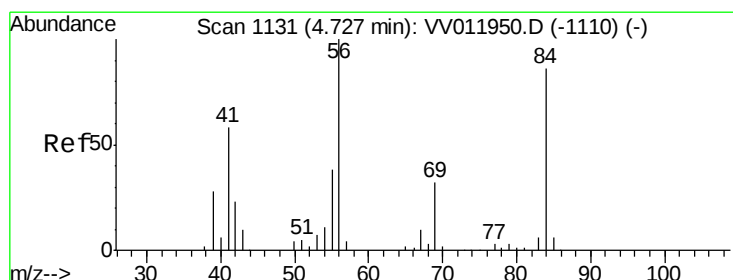
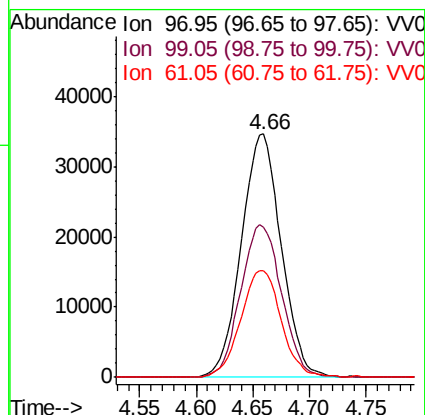
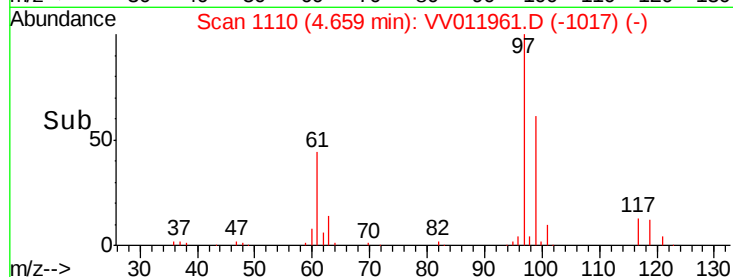
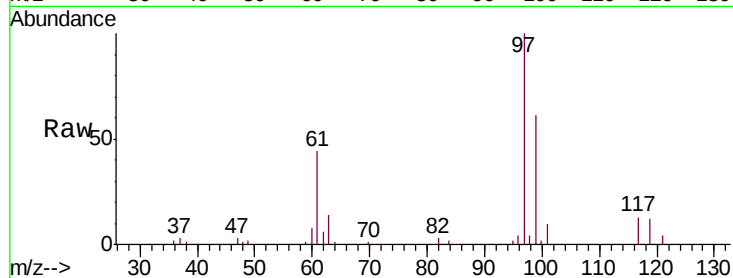




#29
 1,1,1-Trichloroethane
 Concen: 4.917 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

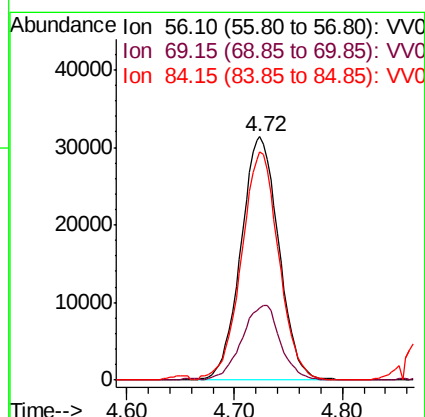
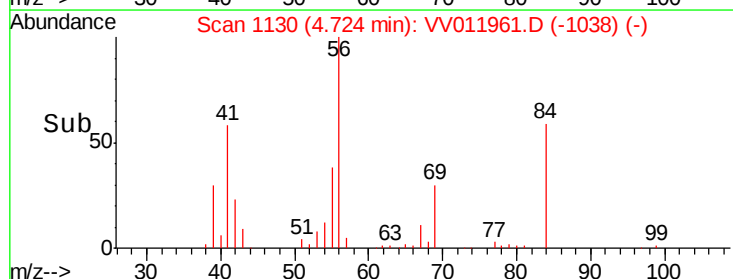
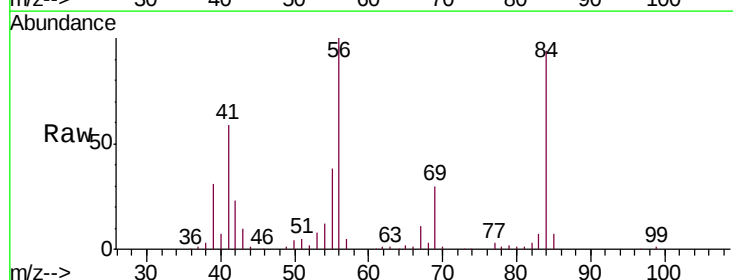
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

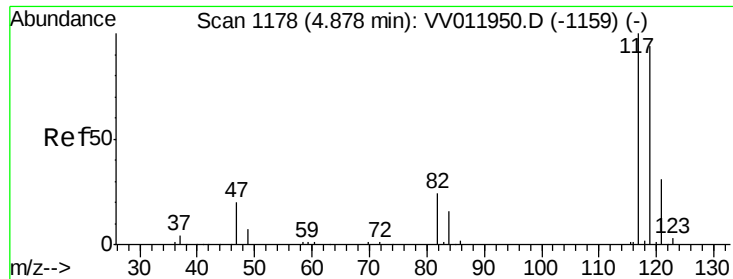
Tgt Ion: 97 Resp: 85055
 Ion Ratio Lower Upper
 97 100
 99 64.4 51.7 77.5
 61 44.8 35.1 52.7



#30
 Cyclohexane
 Concen: 4.686 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion: 56 Resp: 76568
 Ion Ratio Lower Upper
 56 100
 69 31.0 25.4 38.2
 84 92.5 73.4 110.0

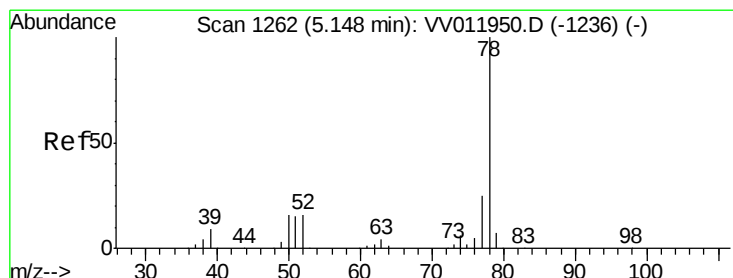
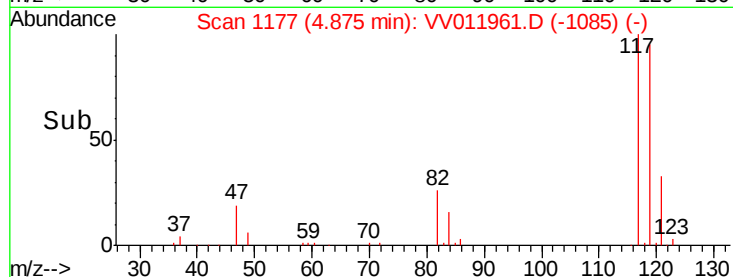
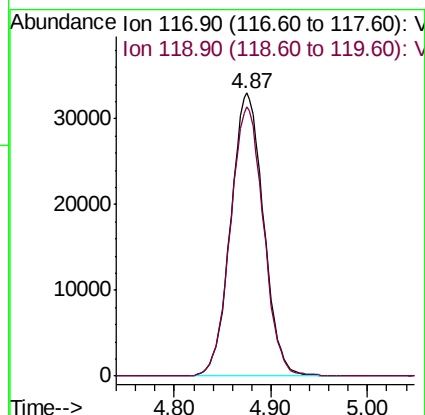
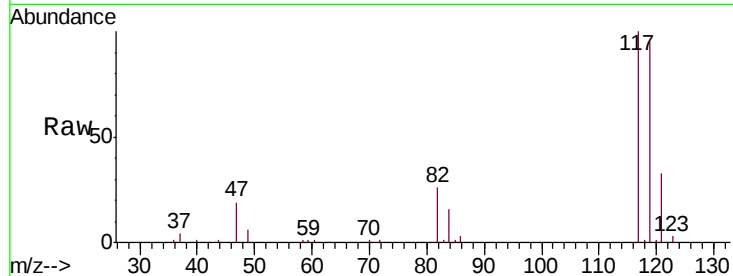




#31
Carbon tetrachloride
Concen: 4.984 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

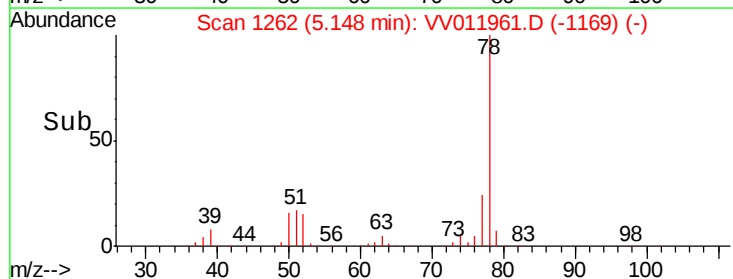
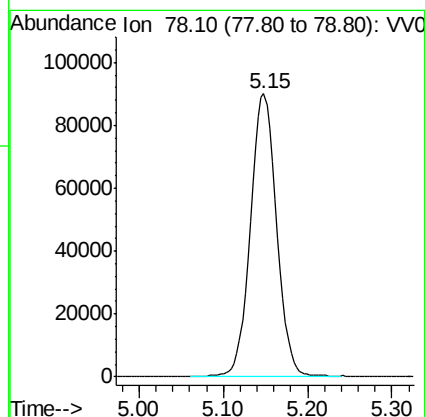
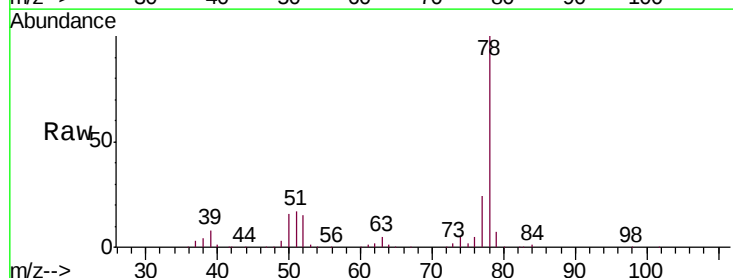
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

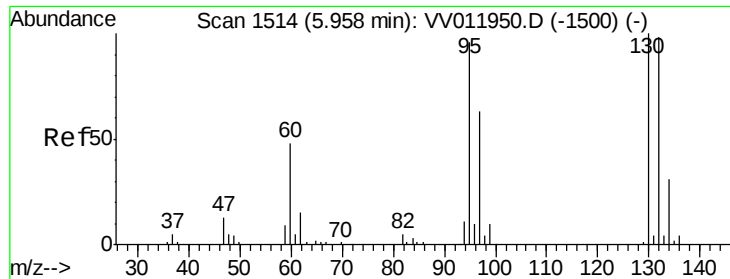
Tgt Ion:117 Resp: 77601
Ion Ratio Lower Upper
117 100
119 96.2 76.4 114.6



#33
Benzene
Concen: 4.902 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion: 78 Resp: 194884





#34

Trichloroethene

Concen: 4.940 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

Tgt Ion: 95 Resp: 54533

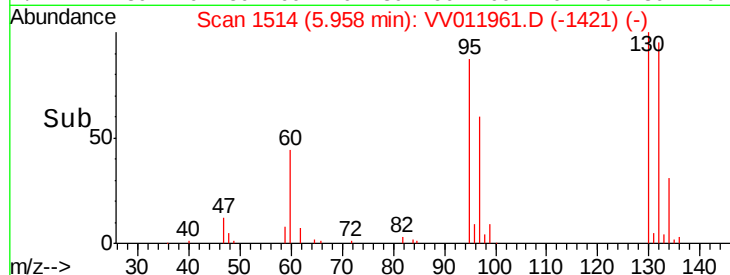
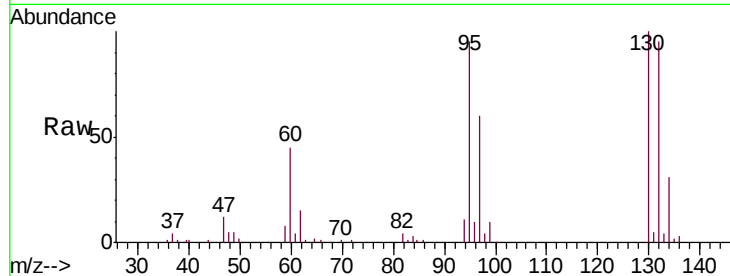
Ion Ratio Lower Upper

95 100

97 63.1 45.6 84.6

132 100.1 71.3 132.3

130 105.2 72.8 135.2

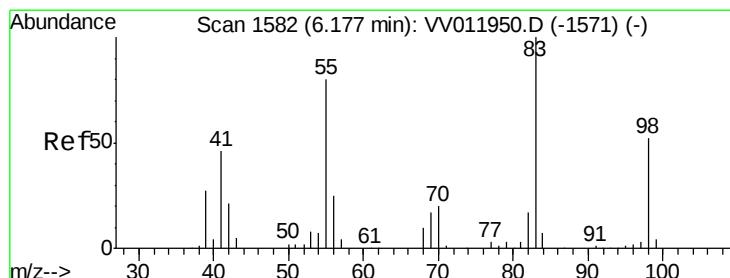
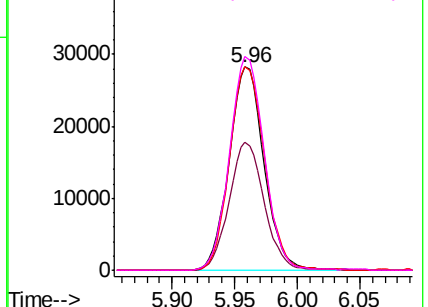


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.870 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

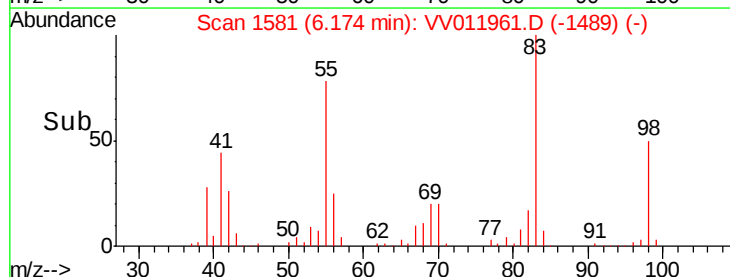
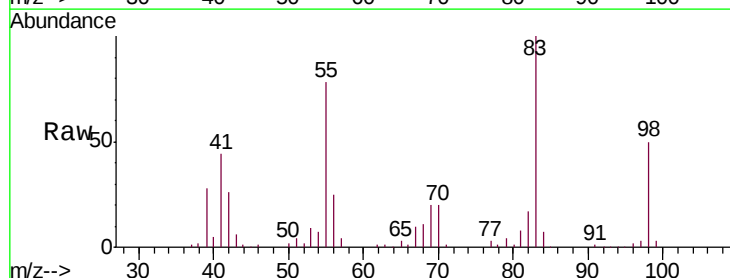
Tgt Ion: 83 Resp: 83680

Ion Ratio Lower Upper

83 100

55 77.2 63.0 94.4

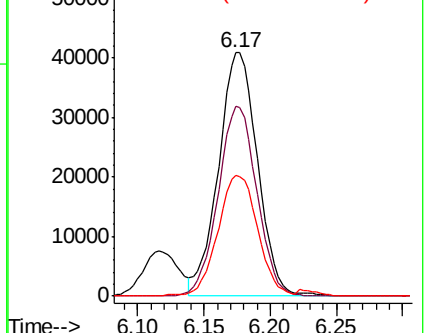
98 50.5 41.4 62.0

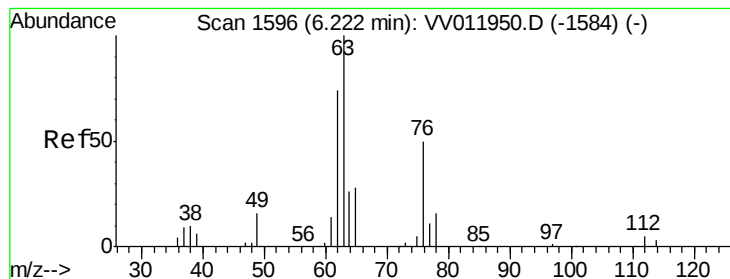


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 4.823 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampled :

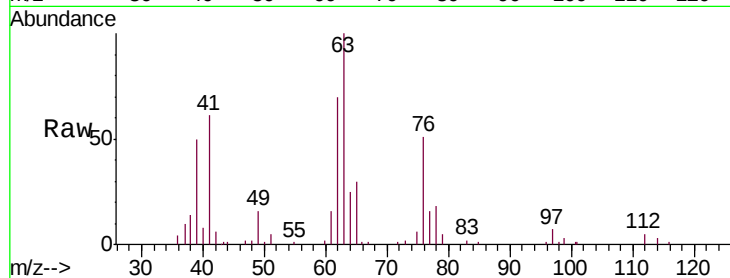
VSTD00544

Tgt Ion: 63 Resp: 46095

Ion Ratio Lower Upper

63 100

112 4.9 4.2 6.4



Abundance Ion 63.10 (62.80 to 63.80): VV011950.D (-1584) (-)

Ion 112.10 (111.80 to 112.80): VV011950.D (-1584) (-)

6.22

25000

20000

15000

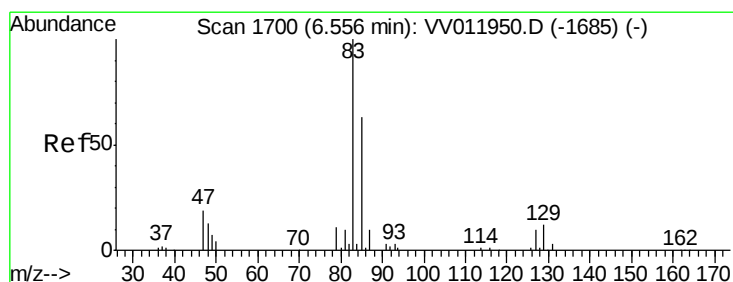
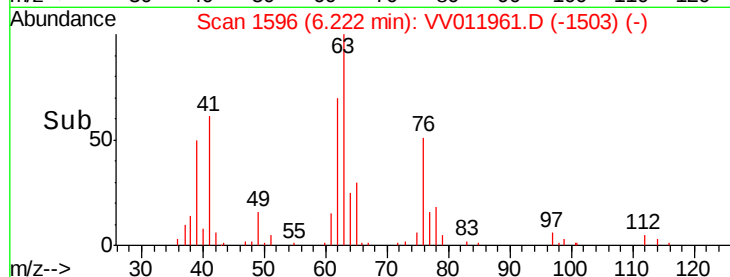
10000

5000

0

6.10 6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.938 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

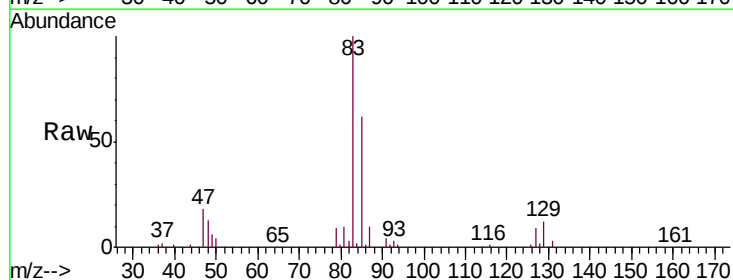
Tgt Ion: 83 Resp: 63059

Ion Ratio Lower Upper

83 100

85 61.6 44.4 82.4

127 8.6 7.9 11.9



Abundance Ion 82.95 (82.65 to 83.65): VV011950.D (-1685) (-)

Ion 85.00 (84.70 to 85.70): VV011950.D (-1685) (-)

Ion 126.90 (126.60 to 127.60): VV011950.D (-1685) (-)

6.56

40000

30000

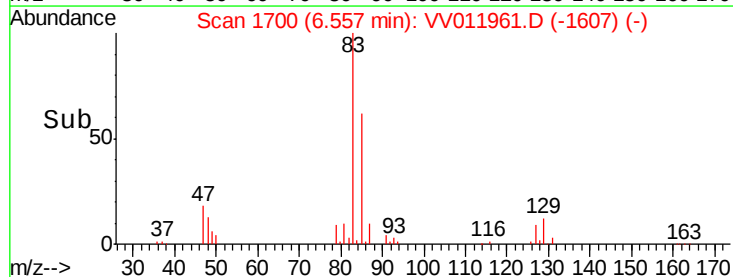
20000

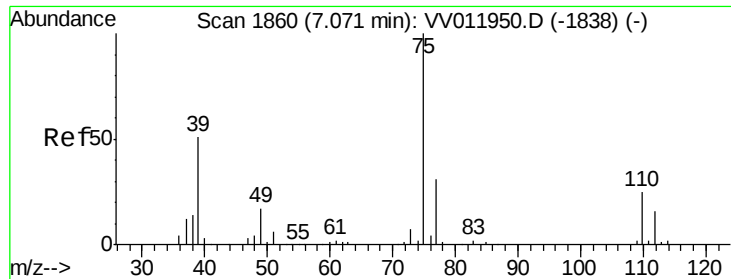
10000

0

6.45 6.50 6.55 6.60 6.65

Time-->

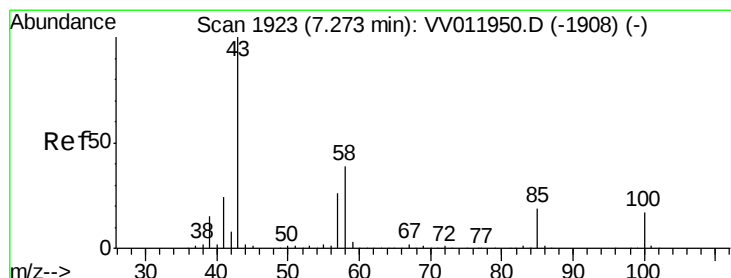
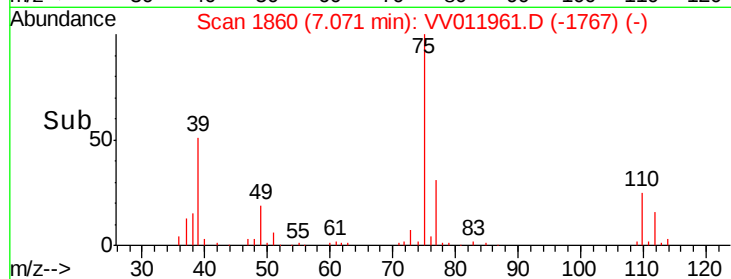
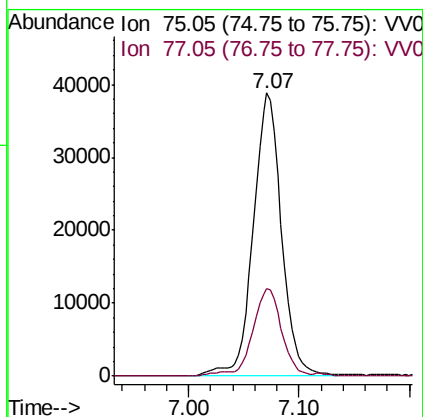
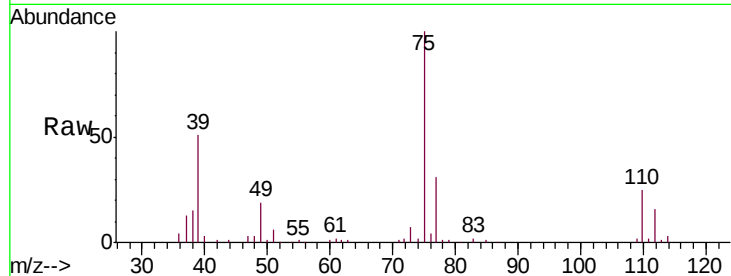




#39
 cis-1,3-Dichloropropene
 Concen: 4.875 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

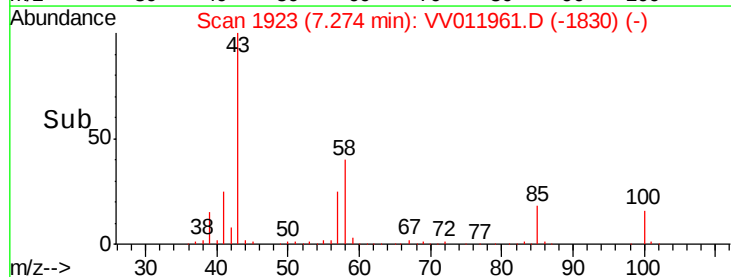
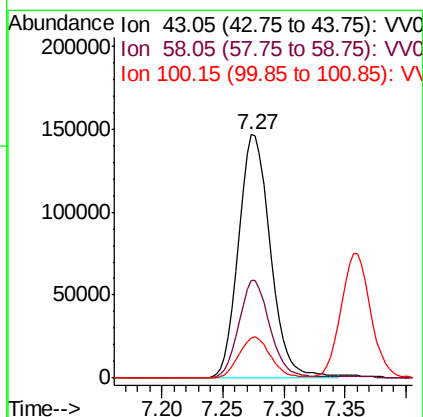
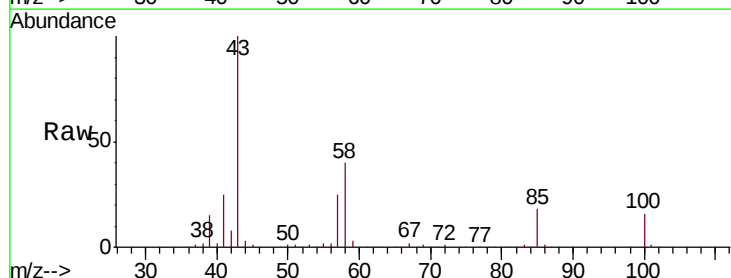
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

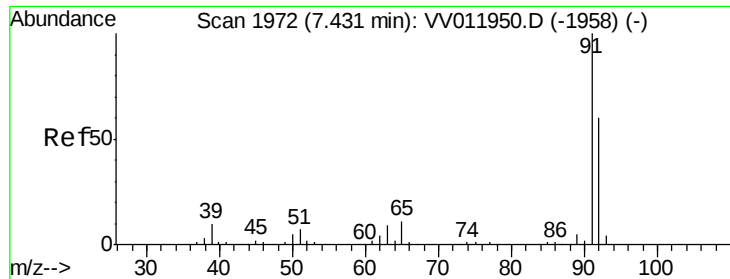
Tgt Ion: 75 Resp: 69047
 Ion Ratio Lower Upper
 75 100
 77 30.8 21.3 39.6



#40
 4-Methyl-2-pentanone
 Concen: 49.773 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion: 43 Resp: 265779
 Ion Ratio Lower Upper
 43 100
 58 38.9 31.2 46.8
 100 16.7 13.5 20.3





#42

Toluene

Concen: 4.968 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

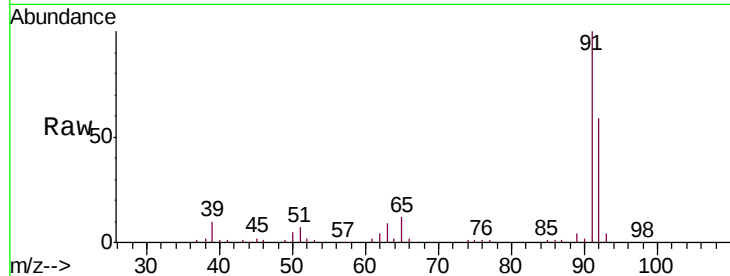
VSTD00544

Tgt Ion: 91 Resp: 211985

Ion Ratio Lower Upper

91 100

92 59.3 41.9 77.9



Abundance Ion 91.15 (90.85 to 91.85): VV011950.D (-1958) (-)

Ion 92.15 (91.85 to 92.85): VV011961.D (-1879) (-)

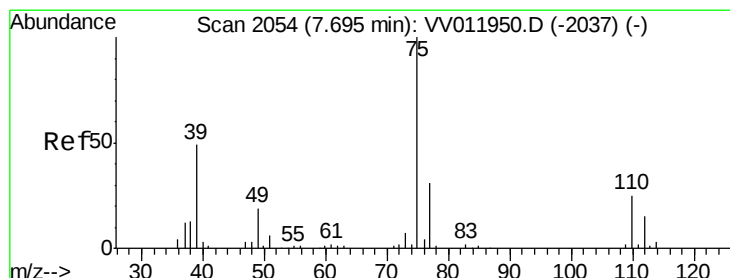
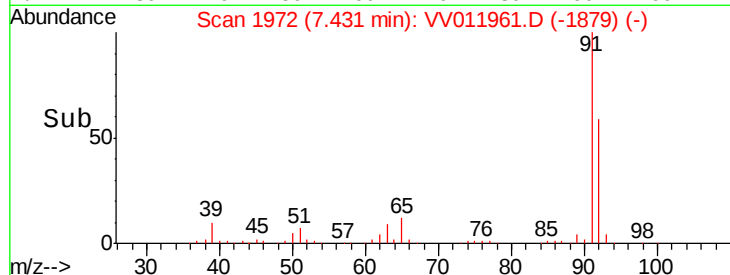
7.43

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.803 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011961.D

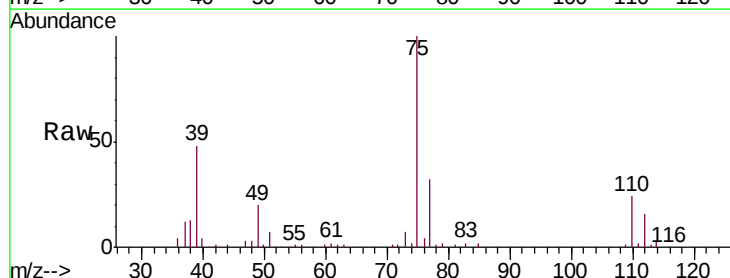
Acq: 23 Jul 2019 12:24

Tgt Ion: 75 Resp: 54112

Ion Ratio Lower Upper

75 100

77 32.1 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VV011950.D (-2037) (-)

Ion 77.05 (76.75 to 77.75): VV011961.D (-1961) (-)

7.69

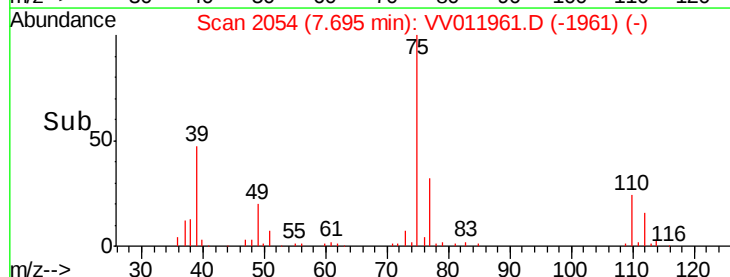
30000

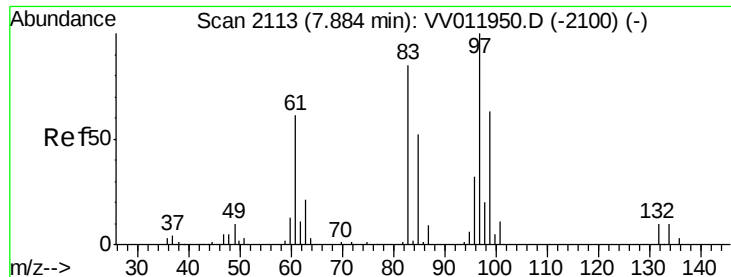
20000

10000

0

Time-->

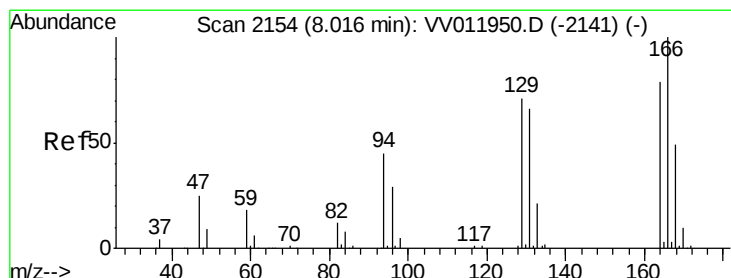
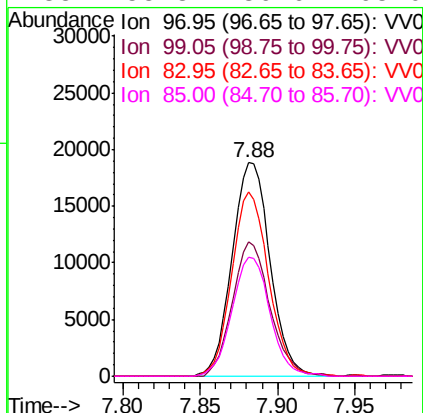
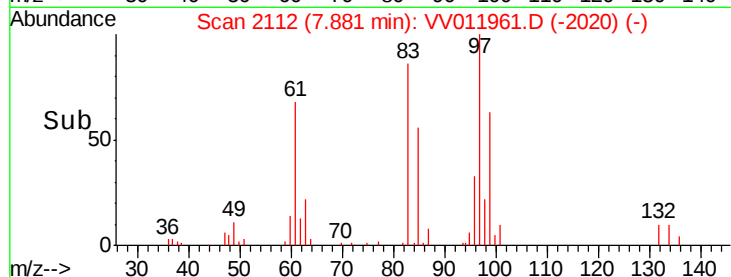
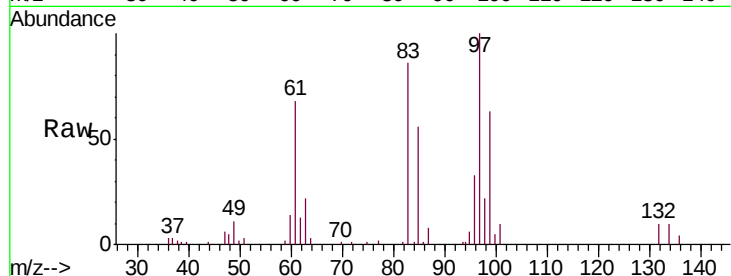




#45
1,1,2-Trichloroethane
Concen: 4.876 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

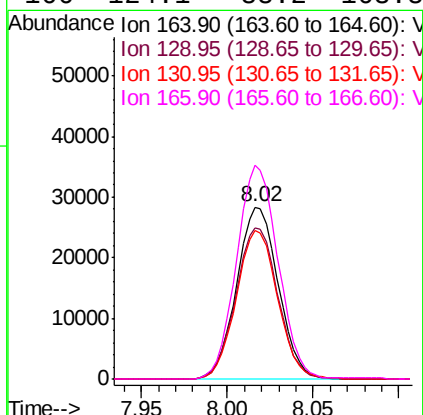
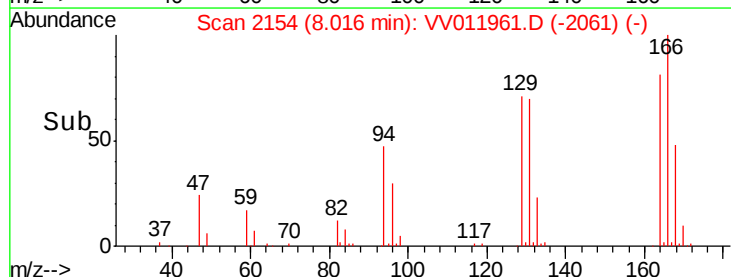
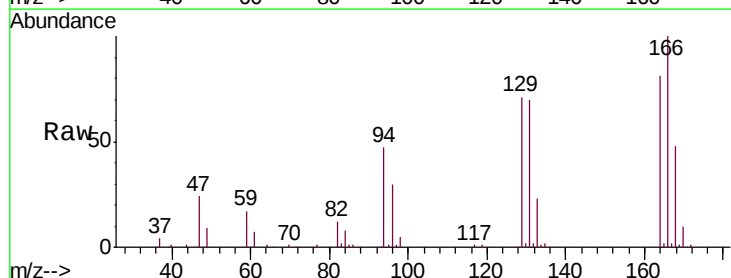
Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

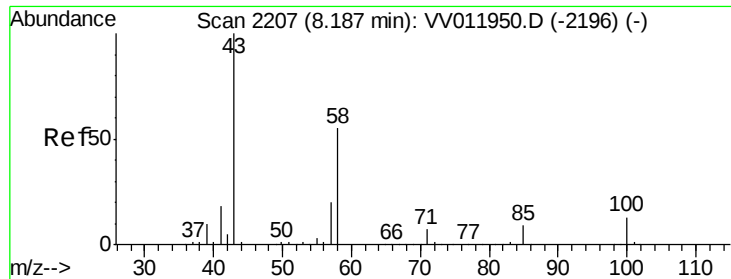
Tgt Ion:	97	Resp:	32181
Ion	Ratio	Lower	Upper
97	100		
99	62.7	44.0	81.8
83	86.4	59.5	110.5
85	55.8	36.6	68.0



#47
Tetrachloroethene
Concen: 4.976 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion:	164	Resp:	47402
Ion	Ratio	Lower	Upper
164	100		
129	87.7	62.5	116.1
131	86.5	58.6	108.8
166	124.1	88.2	163.8

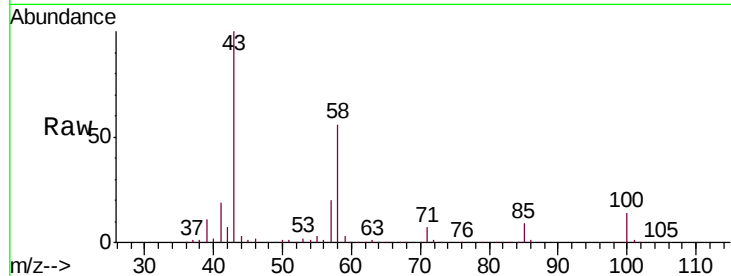




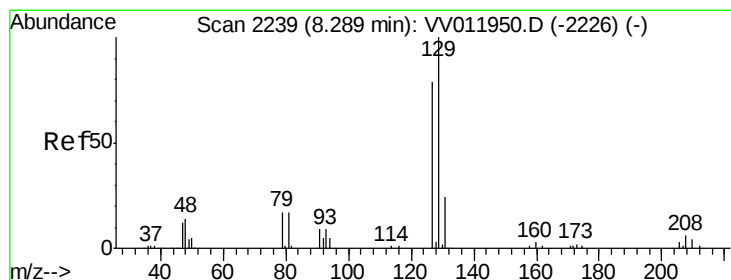
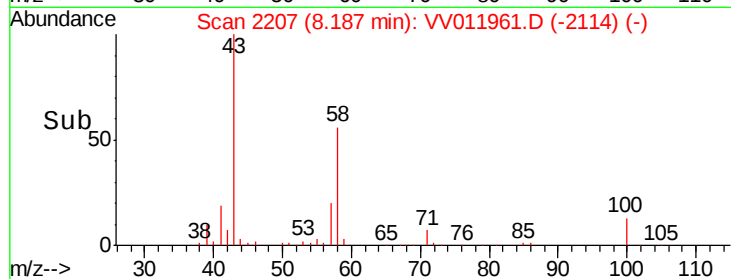
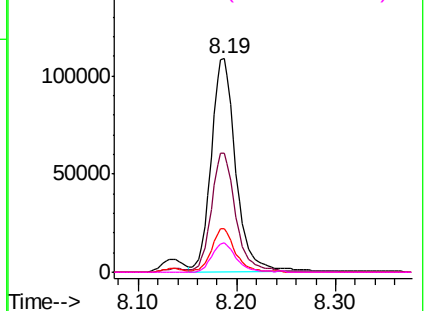
#48
2-Hexanone
Concen: 50.502 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Tgt Ion: 43 Resp: 189173
Ion Ratio Lower Upper
43 100
58 54.8 43.7 65.5
57 19.4 16.0 24.0
100 13.6 10.5 15.7

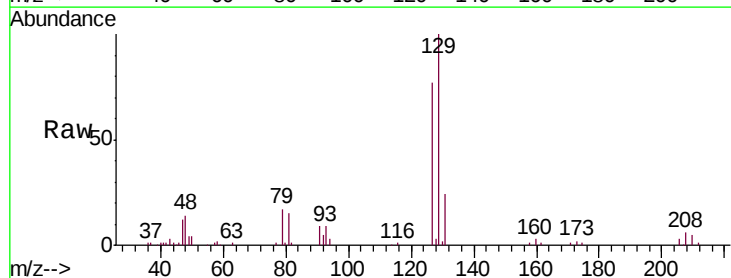


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

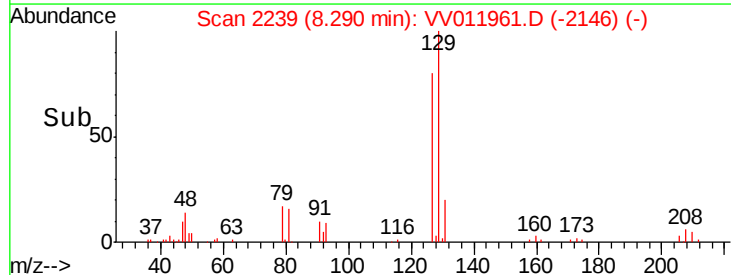
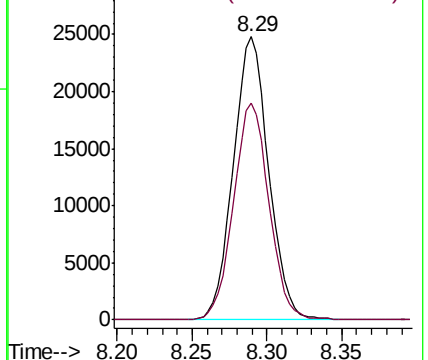


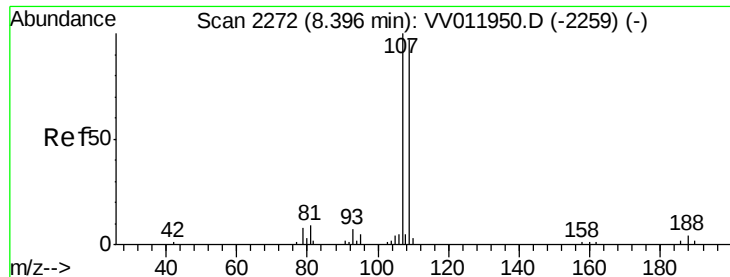
#49
Dibromochloromethane
Concen: 5.049 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion: 129 Resp: 40810
Ion Ratio Lower Upper
129 100
127 76.8 55.3 102.7



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

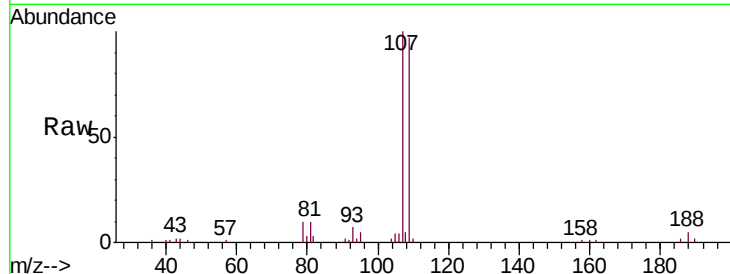




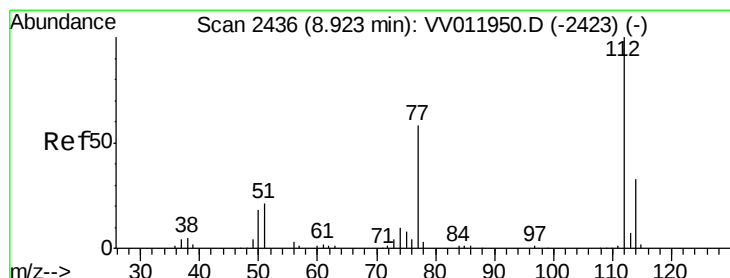
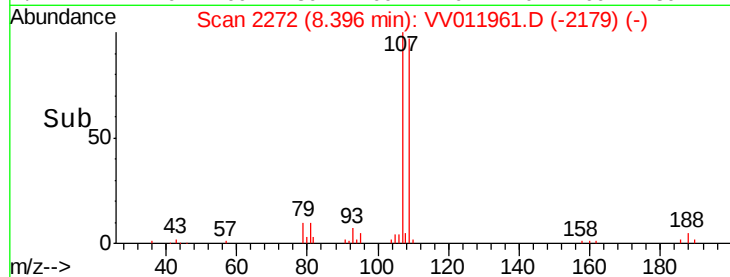
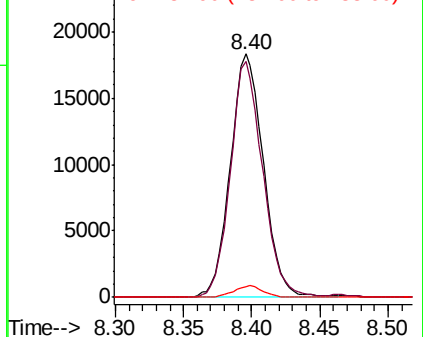
#50
1,2-Dibromoethane
Concen: 4.962 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD00544

Tgt Ion:107 Resp: 30926
Ion Ratio Lower Upper
107 100
109 96.8 68.1 126.5
188 4.6 3.5 5.3

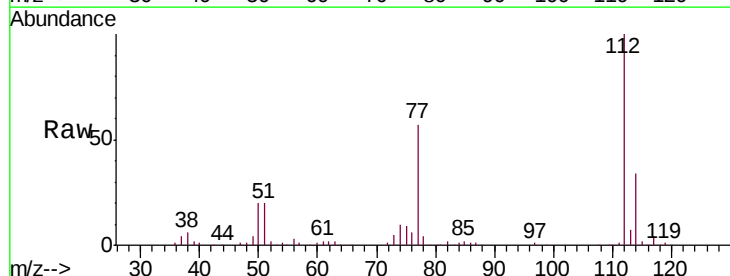


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

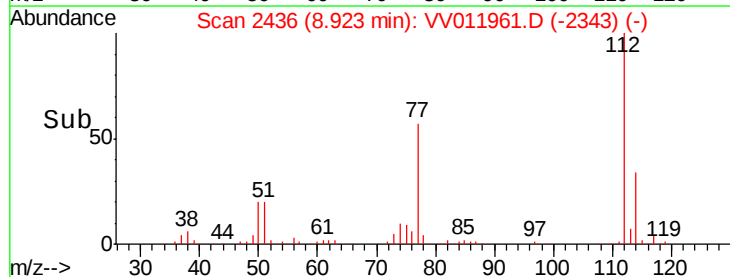
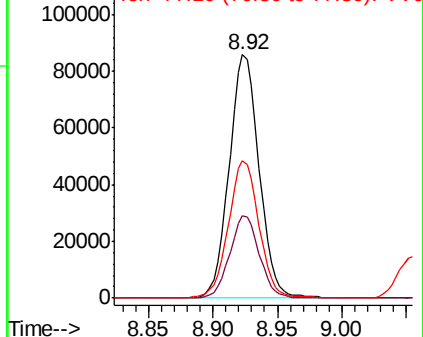


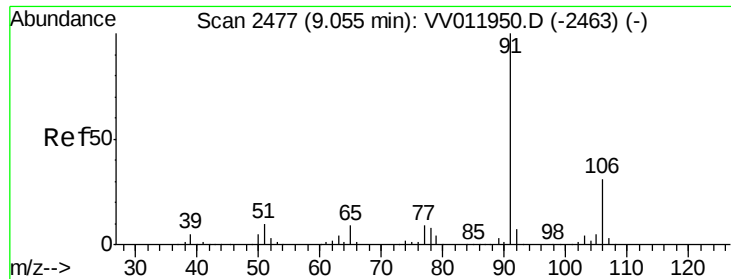
#51
Chlorobenzene
Concen: 4.951 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Tgt Ion:112 Resp: 138327
Ion Ratio Lower Upper
112 100
114 33.7 23.0 42.8
77 56.6 46.4 69.6



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): V





#52

Ethylbenzene

Concen: 4.948 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

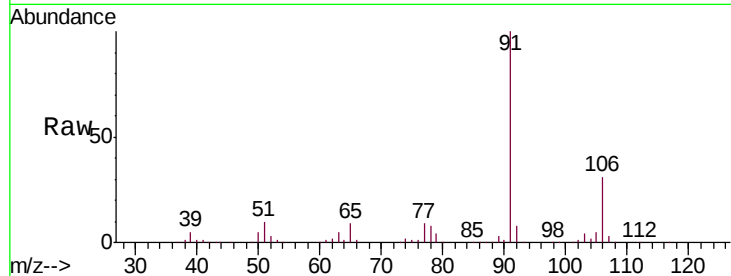
VSTD00544

Tgt Ion: 91 Resp: 241000

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.15 (90.85 to 91.85): VV011950.D (-2463) (-)

Ion 106.15 (105.85 to 106.85): VV011950.D (-2463) (-)

9.05

150000

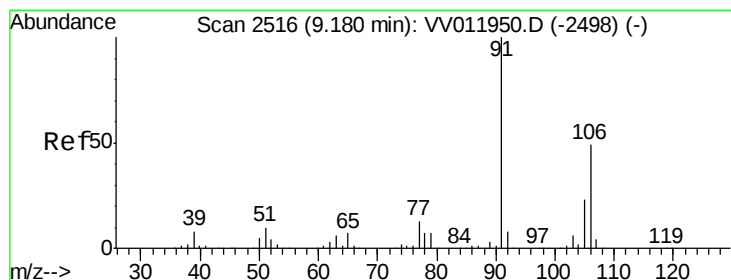
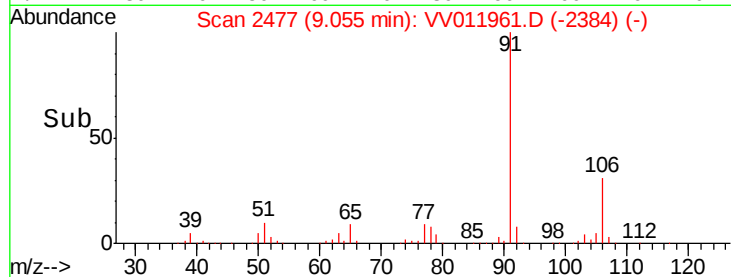
100000

50000

0

9.00 9.05 9.10 9.15

Time-->



#53

m,p-xylene

Concen: 5.044 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011961.D

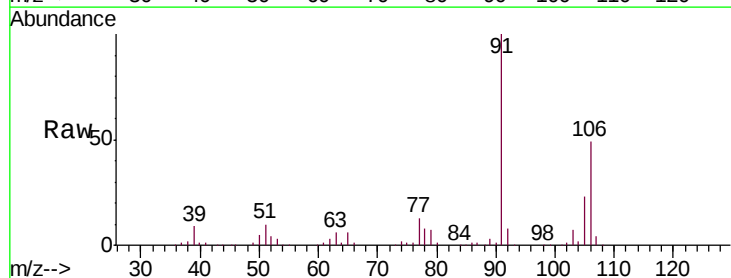
Acq: 23 Jul 2019 12:24

Tgt Ion: 106 Resp: 93503

Ion Ratio Lower Upper

106 100

91 204.1 142.7 265.1



Abundance Ion 106.15 (105.85 to 106.85): VV011950.D (-2498) (-)

Ion 91.15 (90.85 to 91.85): VV011950.D (-2498) (-)

9.18

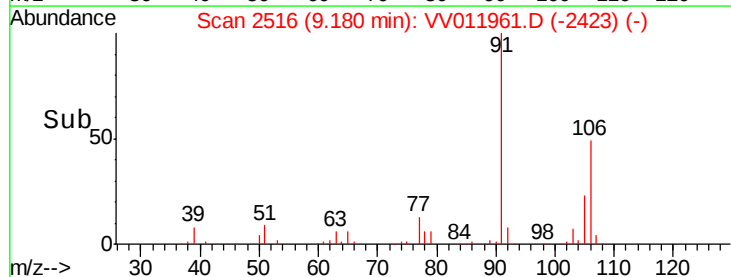
100000

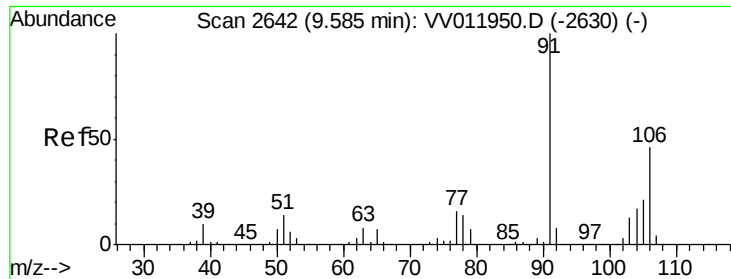
50000

0

9.10 9.15 9.20 9.25

Time-->

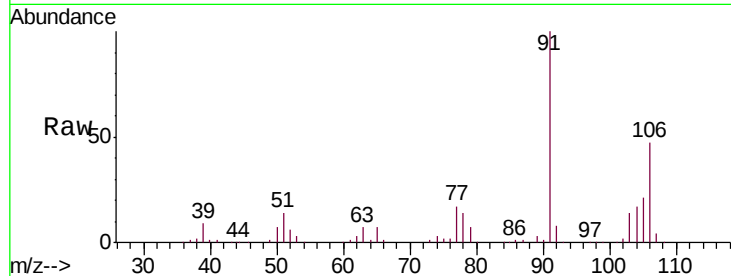




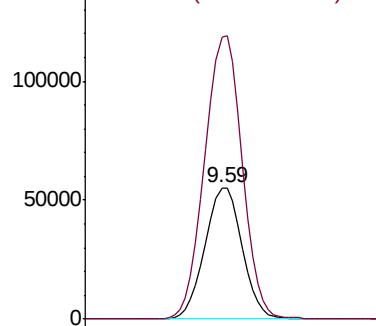
#54
o-xylene
Concen: 4.994 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

Instrument :
MSVOA_V
ClientSampled :
VSTD00544

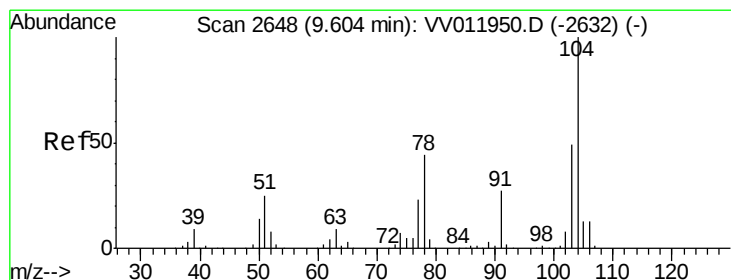
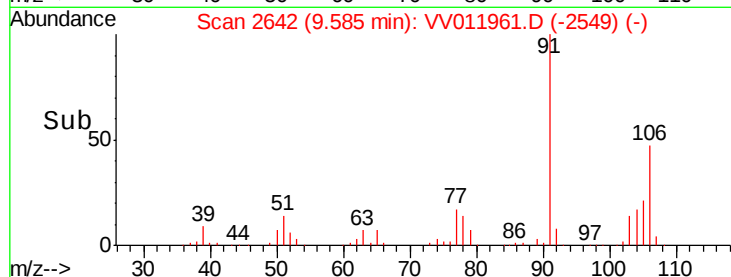
Tgt Ion:106 Resp: 87782
Ion Ratio Lower Upper
106 100
91 214.6 151.0 280.4



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

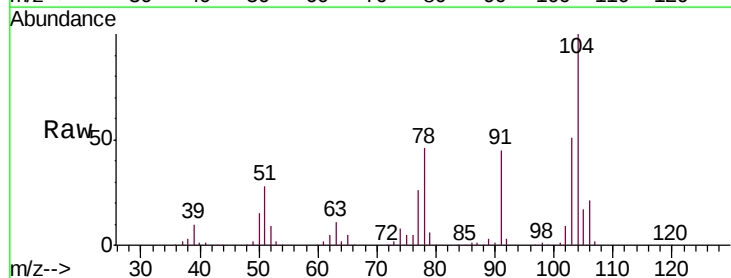


Time-->

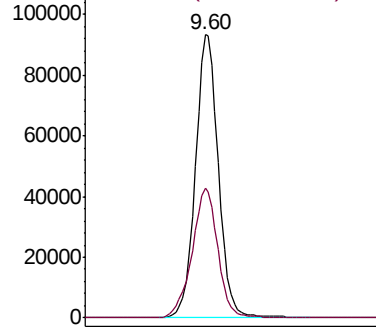


#55
Styrene
Concen: 5.019 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV011961.D
Acq: 23 Jul 2019 12:24

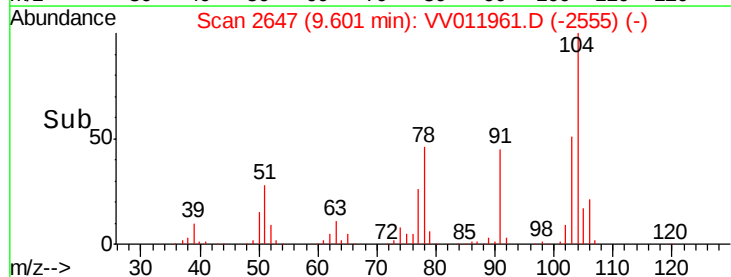
Tgt Ion:104 Resp: 148680
Ion Ratio Lower Upper
104 100
78 45.7 30.8 57.2

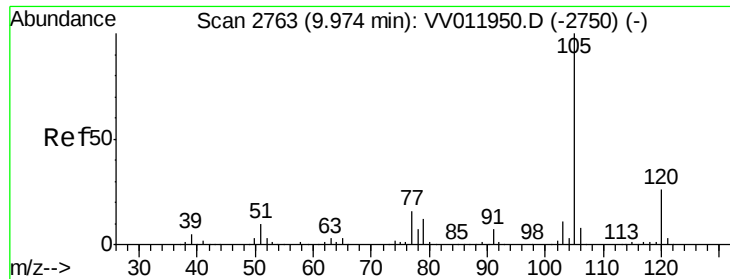


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0



Time-->





#56

Isopropylbenzene

Concen: 4.996 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

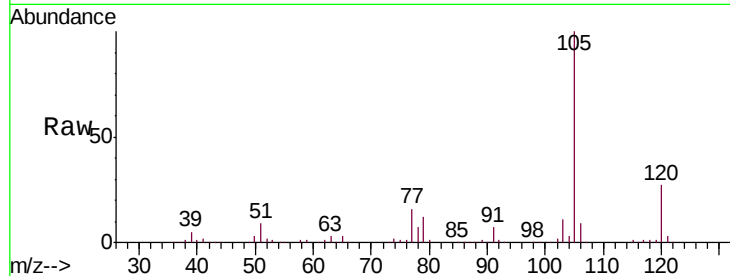
Tgt Ion: 105 Resp: 245276

Ion Ratio Lower Upper

105 100

120 26.1 20.8 31.2

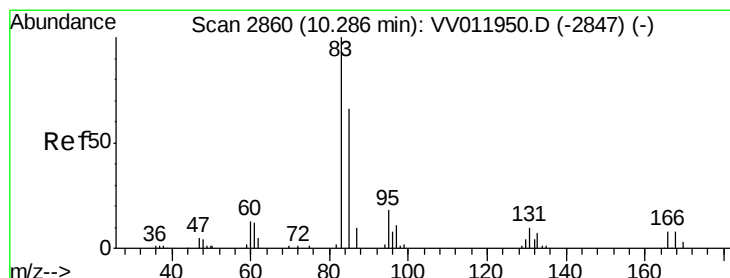
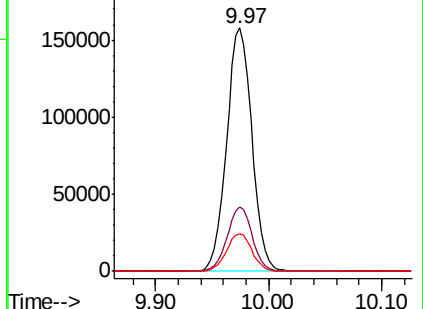
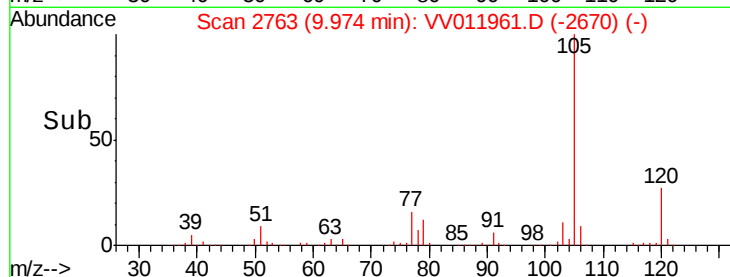
77 15.8 12.6 19.0



Abundance Ion 105.05 (104.75 to 105.75): VV011950.D (-2750) (-)

Ion 120.10 (119.80 to 120.80): VV011950.D (-2750) (-)

Ion 77.10 (76.80 to 77.80): VV011950.D (-2750) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 4.861 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

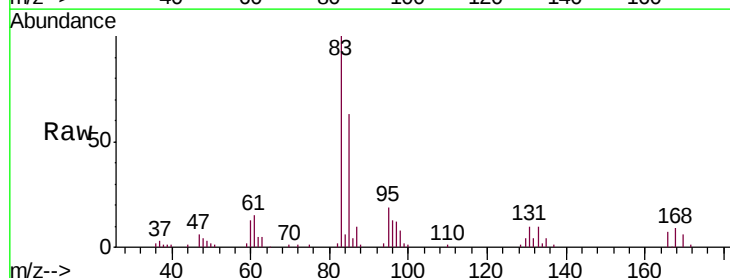
Tgt Ion: 83 Resp: 34776

Ion Ratio Lower Upper

83 100

85 62.7 46.3 85.9

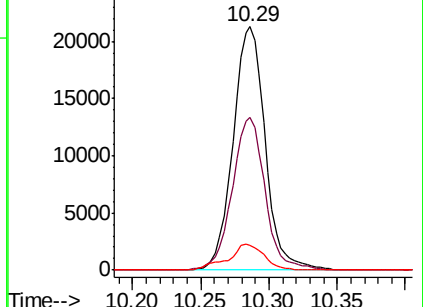
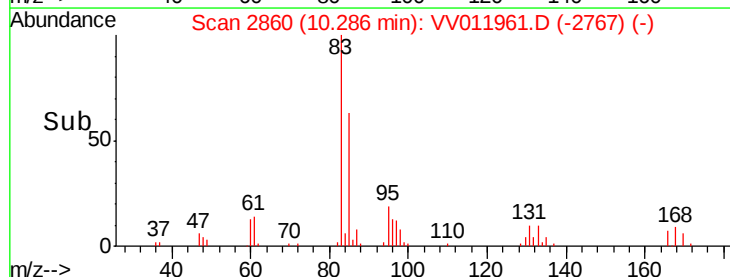
131 10.2 8.9 13.3

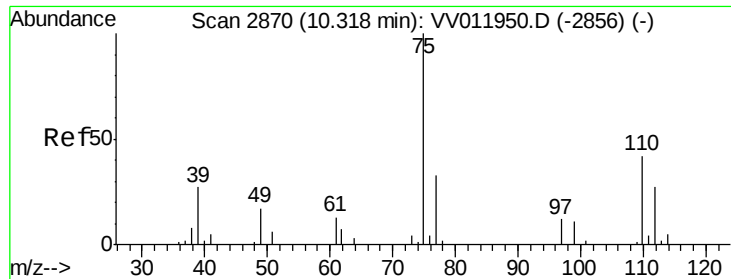


Abundance Ion 82.95 (82.65 to 83.65): VV011950.D (-2847) (-)

Ion 85.00 (84.70 to 85.70): VV011950.D (-2847) (-)

Ion 130.95 (130.65 to 131.65): VV011950.D (-2847) (-)

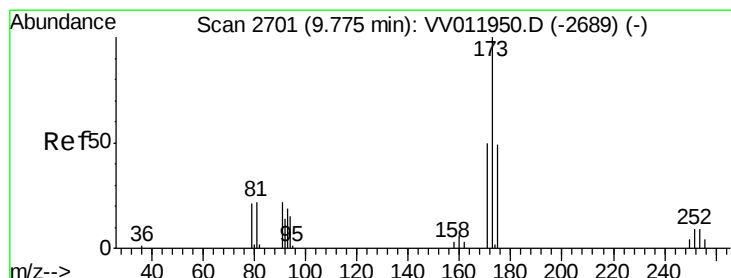
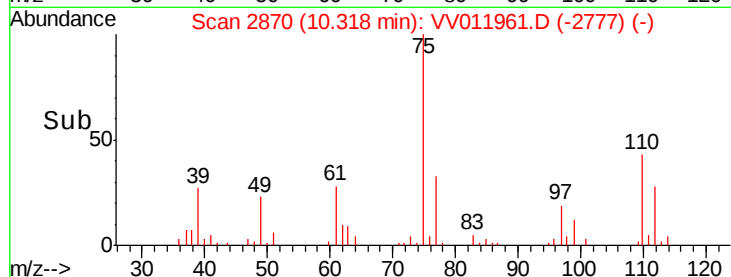
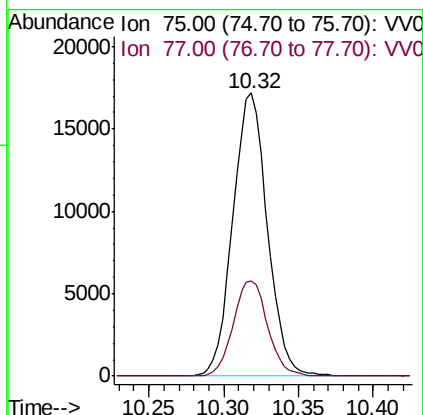
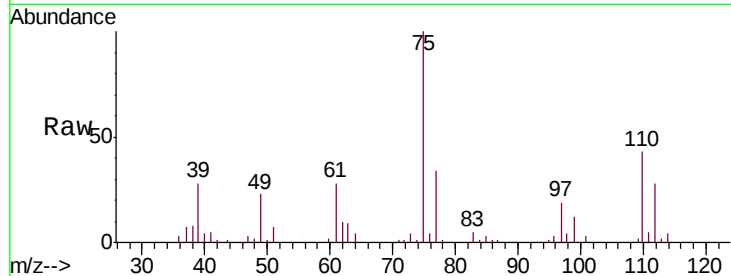




#59
 1,2,3-Trichloropropane
 Concen: 4.957 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

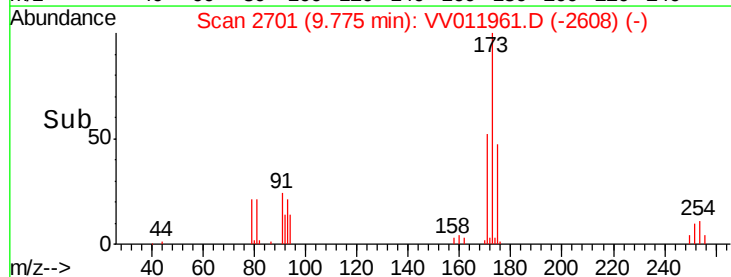
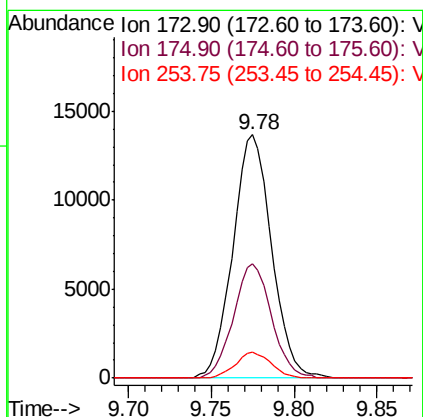
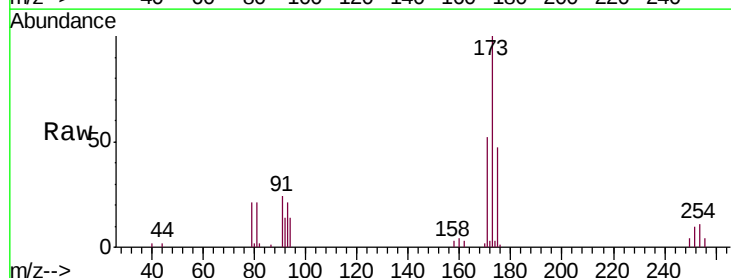
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

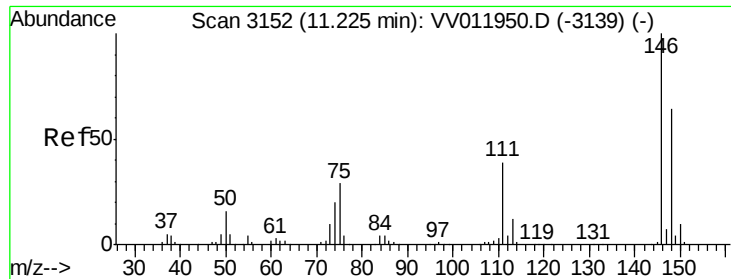
Tgt Ion: 75 Resp: 27631
 Ion Ratio Lower Upper
 75 100
 77 33.4 26.2 39.2



#61
 Bromoform
 Concen: 4.973 ug/L
 RT: 9.78 min Scan# 2701
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion: 173 Resp: 22184
 Ion Ratio Lower Upper
 173 100
 175 46.2 39.6 59.4
 254 9.8 7.9 11.9

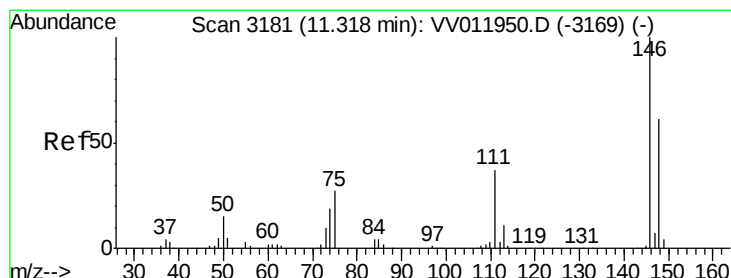
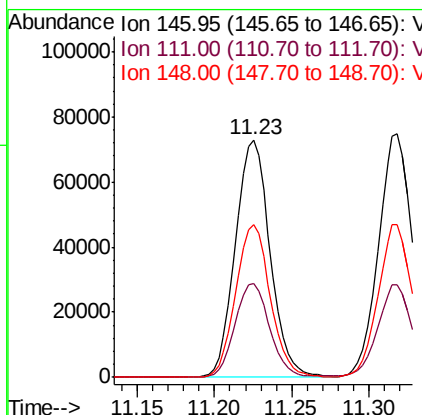
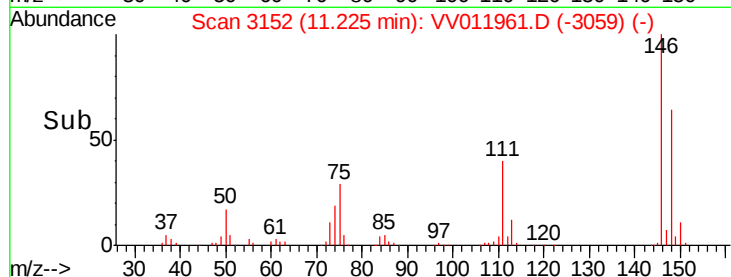
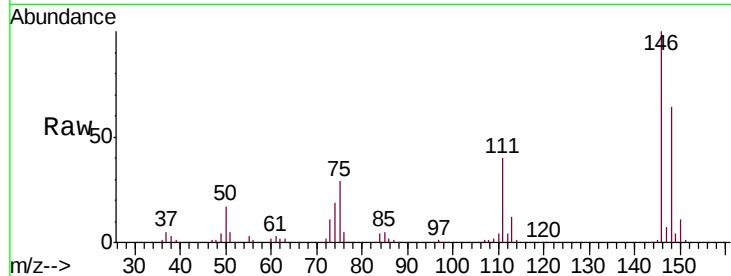




#62
 1,3-Dichlorobenzene
 Concen: 4.786 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

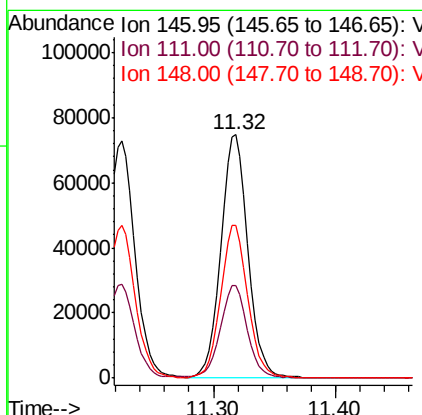
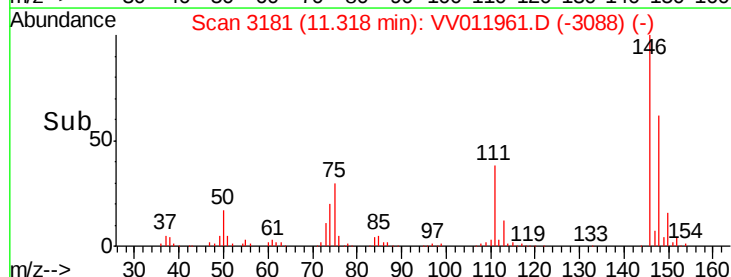
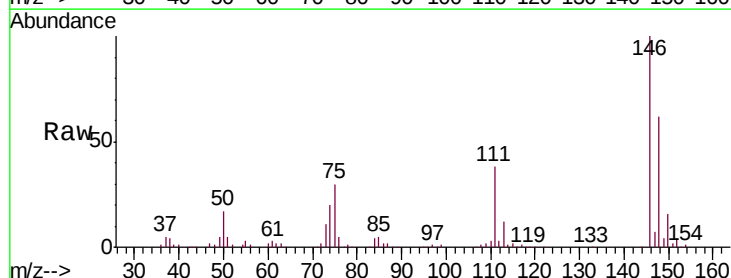
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

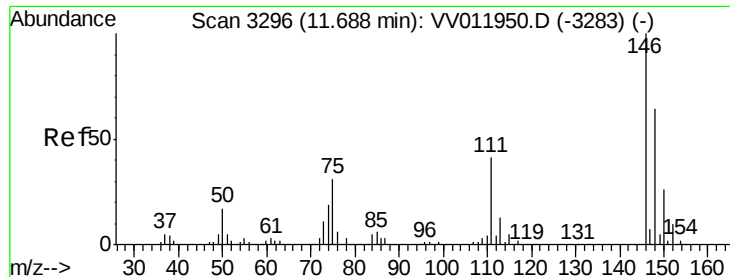
Tgt Ion:146 Resp: 113764
 Ion Ratio Lower Upper
 146 100
 111 39.5 27.1 50.3
 148 64.3 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.751 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion:146 Resp: 116263
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.0 48.2
 148 62.5 43.0 80.0





#65

1,2-Dichlorobenzene

Concen: 4.747 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

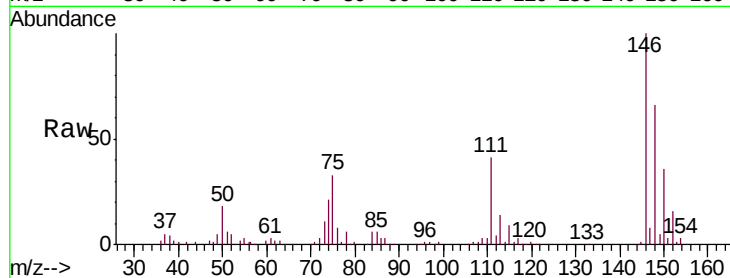
Tgt Ion:146 Resp: 103892

Ion Ratio Lower Upper

146 100

111 41.1 32.5 48.7

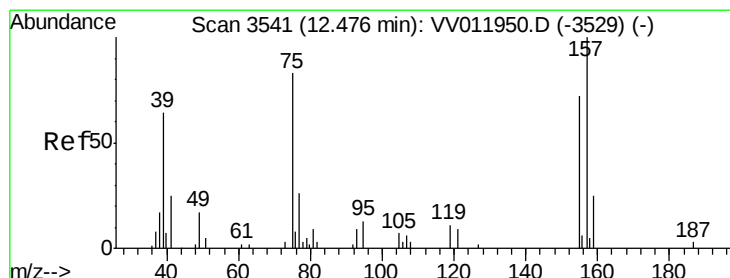
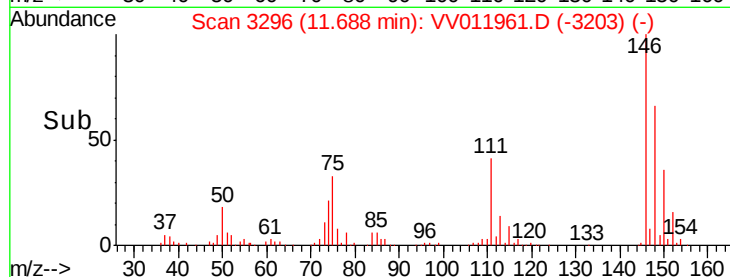
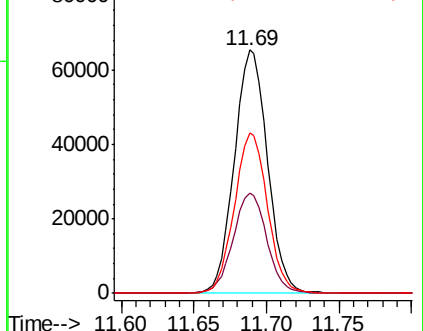
148 66.0 51.4 77.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.655 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

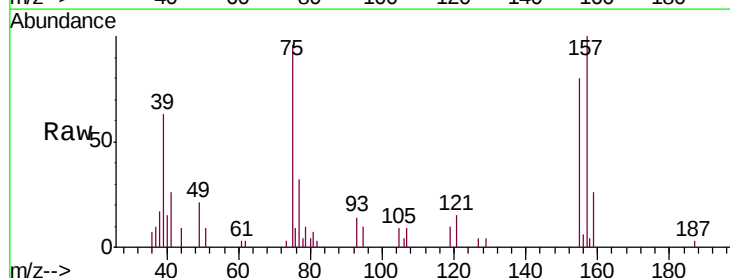
Tgt Ion: 75 Resp: 5919

Ion Ratio Lower Upper

75 100

155 83.2 69.5 104.3

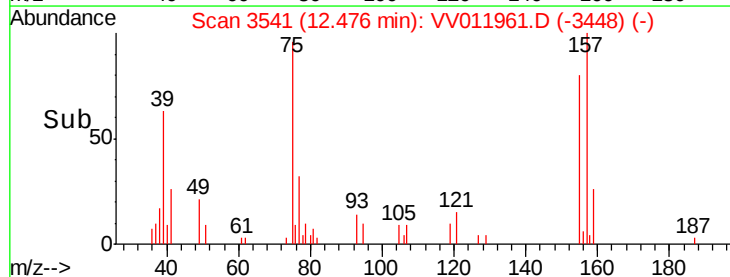
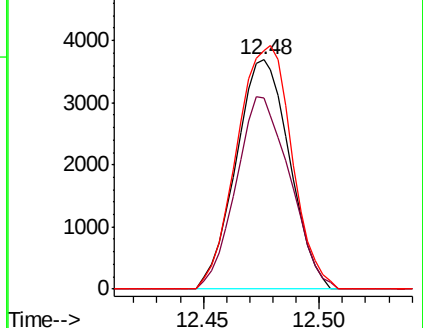
157 104.0 96.2 144.2

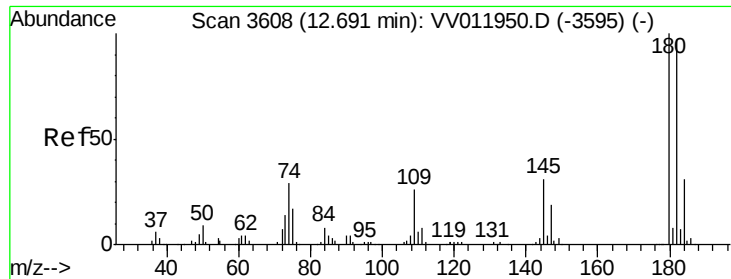


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

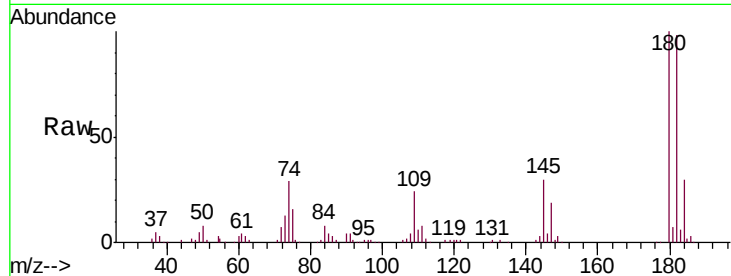




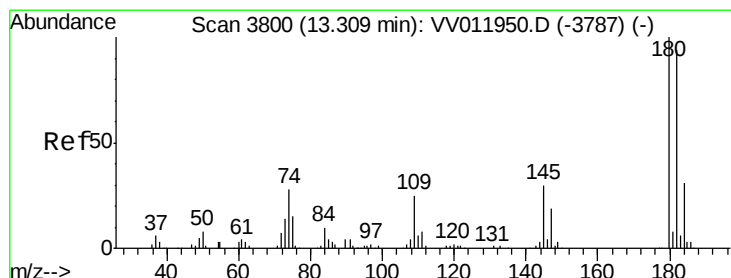
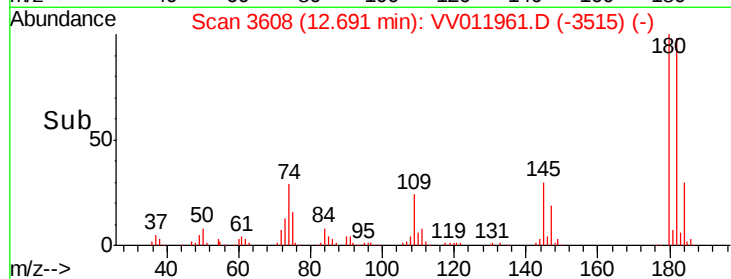
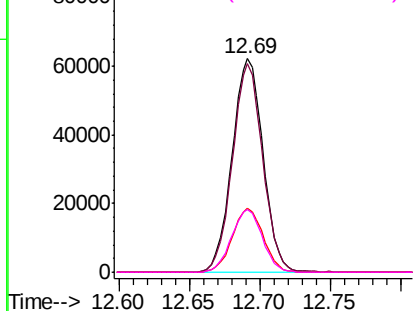
#67
 1,3,5-Trichlorobenzene
 Concen: 4.808 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00544

Tgt Ion:180 Resp: 95583
 Ion Ratio Lower Upper
 180 100
 182 95.3 77.4 116.0
 184 30.0 25.2 37.8
 145 29.2 24.4 36.6

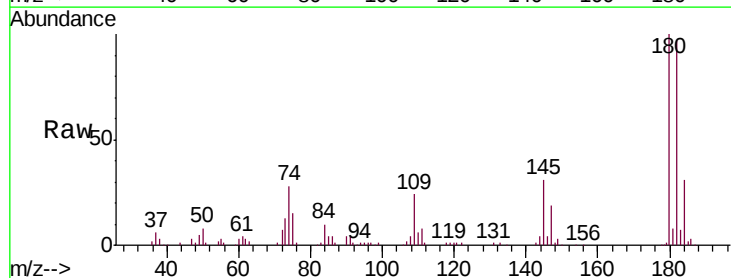


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

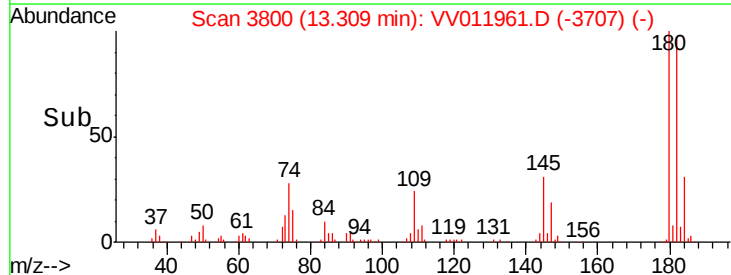
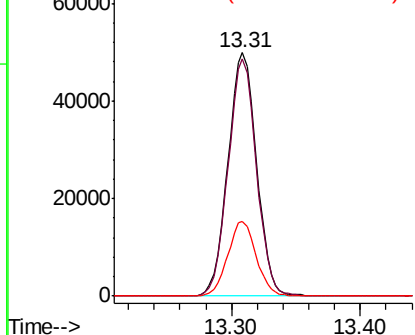


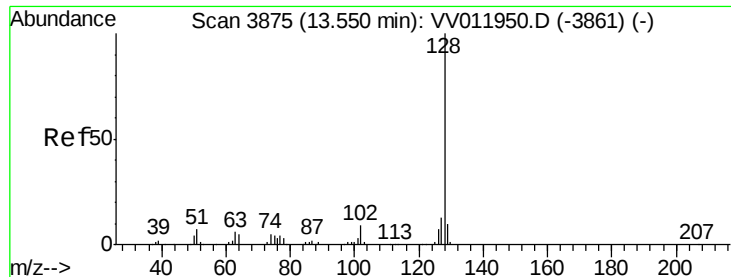
#68
 1,2,4-trichlorobenzene
 Concen: 4.761 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011961.D
 Acq: 23 Jul 2019 12:24

Tgt Ion:180 Resp: 76868
 Ion Ratio Lower Upper
 180 100
 182 95.9 75.8 113.8
 145 30.4 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: 4.569 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00544

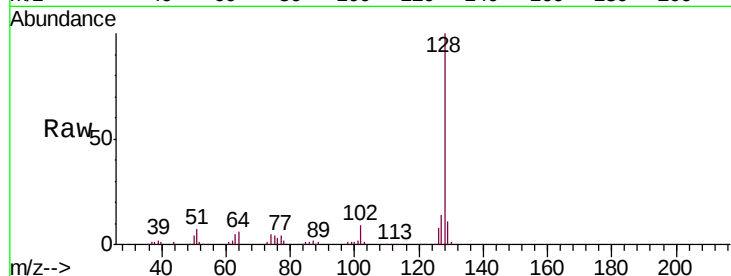
Tgt Ion:128 Resp: 111241

Ion Ratio Lower Upper

128 100

129 10.7 8.2 12.2

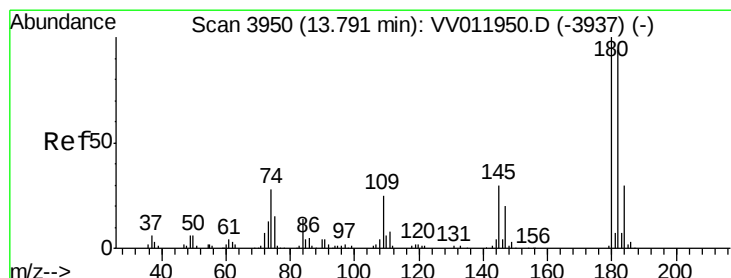
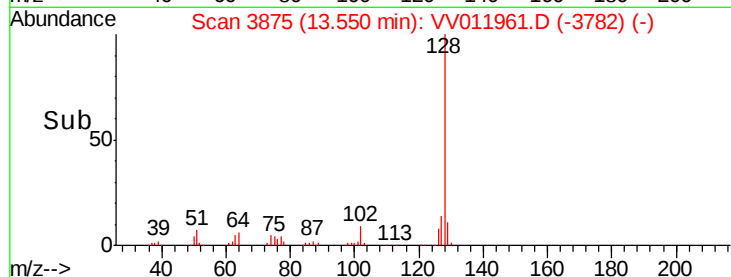
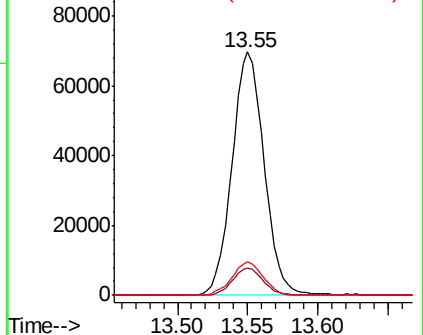
127 13.5 10.8 16.2



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: 4.814 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV011961.D

Acq: 23 Jul 2019 12:24

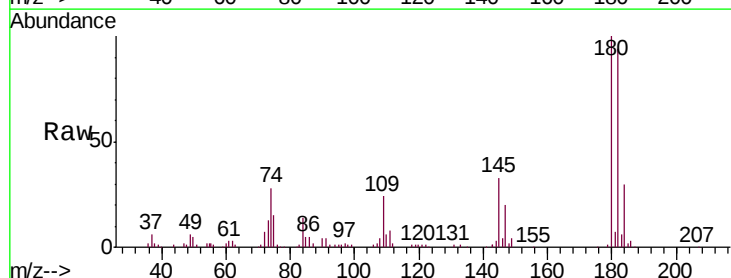
Tgt Ion:180 Resp: 70516

Ion Ratio Lower Upper

180 100

182 95.2 75.5 113.3

145 31.7 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

