

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100819\
 Data File : VV013063.D
 Acq On : 08 Oct 2019 16:35
 Operator : SY/MD
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Quant Time: Oct 09 08:40:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Oct 09 08:34:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	706878	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	701204	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	390242	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	240317	21.91	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	87.64%
7) Chloroethane-d5	1.58	69	197468	22.27	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.08%
10) 1,1-Dichloroethene-d2	2.13	63	457210	25.07	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.28%
20) 2-Butanone-d5	3.93	46	176817	46.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	93.38%
24) Chloroform-d	4.40	84	487504	25.10	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	100.40%
26) 1,2-Dichloroethane-d4	5.08	65	272354	24.13	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.52%
29) Benzene-d6	5.10	84	1006280	25.70	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.80%
33) 1,2-Dichloropropane-d6	6.11	67	303169	24.71	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.84%
37) Toluene-d8	7.36	98	947465	26.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.64%
38) trans-1,3-Dichloropropene-	7.66	79	129941	25.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.04%
39) 2-Hexanone-d5	8.13	63	129803	52.56	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.12%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	285285	24.48	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	97.92%
61) 1,2-Dichlorobenzene-d4	11.67	152	379046	25.00	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	222321	28.559	ug/L 100
3) Chloromethane	1.25	50	256054	25.187	ug/L 98
5) Vinyl chloride	1.32	62	273036	27.203	ug/L 99
6) Bromomethane	1.53	94	158873	25.356	ug/L 100
8) Chloroethane	1.60	64	173879	28.192	ug/L 98
9) Trichlorofluoromethane	1.77	101	372500	27.440	ug/L 98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	235652	27.160	ug/L 98
12) 1,1-Dichloroethene	2.14	96	219587	27.480	ug/L 94
13) Acetone	2.19	43	172313	42.810	ug/L 100
14) Carbon disulfide	2.32	76	638774	25.026	ug/L 99
15) Methyl Acetate	2.46	43	146205	23.420	ug/L 98
16) Methylene chloride	2.53	84	284415	26.919	ug/L 98
17) Methyl tert-butyl Ether	2.80	73	635879	27.121	ug/L 100
18) trans-1,2-Dichloroethene	2.79	96	252287	26.674	ug/L 99
19) 1,1-Dichloroethane	3.23	63	469909	27.225	ug/L 99
21) 2-Butanone	4.01	43	198190	42.310	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	280630	27.110	ug/L 99

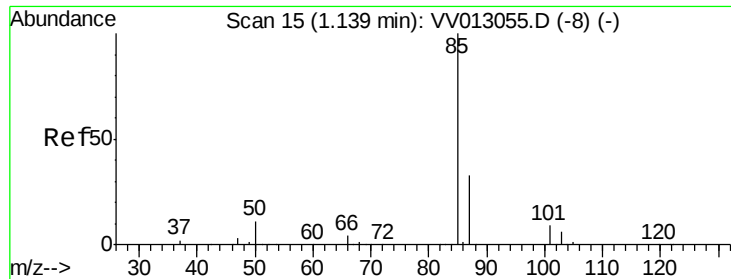
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100819\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	137761	26.943	ug/L	96
25) Chloroform	4.42	83	486699	26.893	ug/L	100
27) 1,2-Dichloroethane	5.18	62	333747	26.092	ug/L	99
30) Cyclohexane	4.72	56	402531	26.758	ug/L	97
31) 1,1,1-Trichloroethane	4.66	97	386214	27.829	ug/L	99
32) Carbon tetrachloride	4.87	117	341665	27.152	ug/L	98
34) Benzene	5.14	78	1081892	27.718	ug/L	100
35) Trichloroethene	5.96	95	287599	26.451	ug/L	99
36) Methylcyclohexane	6.18	83	453280	27.156	ug/L	99
40) 1,2-Dichloropropane	6.22	63	273327	26.928	ug/L	99
41) Bromodichloromethane	6.55	83	358571	27.580	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	419526	28.129	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	422189	50.626	ug/L	98
44) Toluene	7.43	91	1173673	28.511	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	348247	27.743	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	229484	26.631	ug/L	99
47) Tetrachloroethene	8.02	164	239569	27.109	ug/L	99
49) 2-Hexanone	8.18	43	314576	50.043	ug/L	96
50) Dibromochloromethane	8.29	129	269586	27.220	ug/L	98
51) 1,2-Dibromoethane	8.39	107	224089	26.537	ug/L	98
52) Chlorobenzene	8.92	112	775680	27.305	ug/L	99
53) Ethylbenzene	9.05	91	1298156	28.641	ug/L	100
54) m,p-Xylene	9.18	106	499548	28.991	ug/L	100
55) o-xylene	9.59	106	482519	29.389	ug/L	99
56) Styrene	9.60	104	859436	29.751	ug/L	100
57) Isopropylbenzene	9.97	105	1274966	29.548	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	284247	26.667	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	225240	25.602	ug/L	99
62) Bromoform	9.77	173	172308	26.020	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	650659	27.087	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	663708	26.326	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	613101	26.759	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	46544	22.913	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	510949	27.192	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	452923	27.565	ug/L	99
69) Naphthalene	13.55	128	908043	27.476	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	449096	28.428	ug/L	99

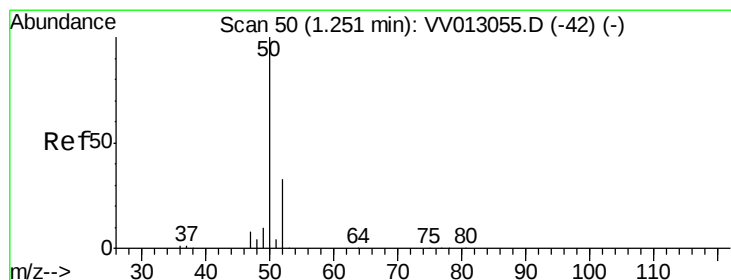
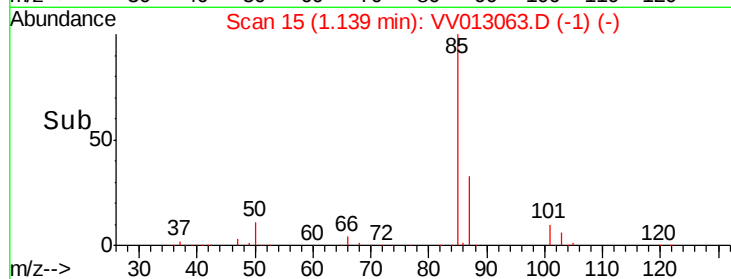
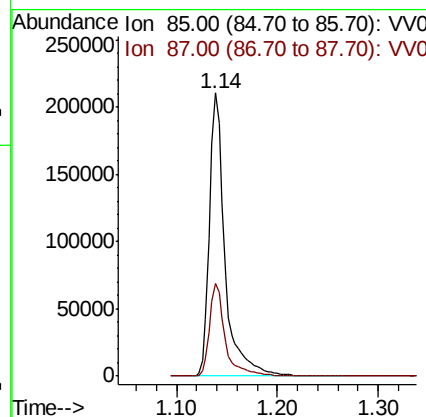
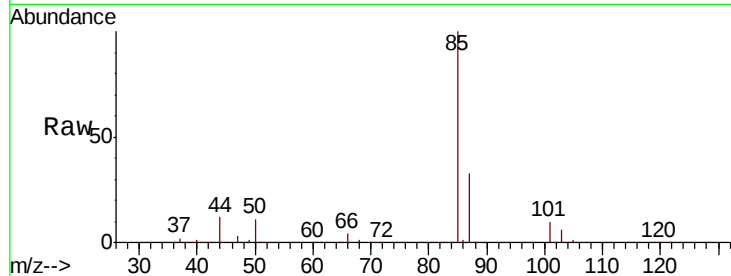
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 28.559 ug/L
 RT: 1.14 min Scan# 15
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

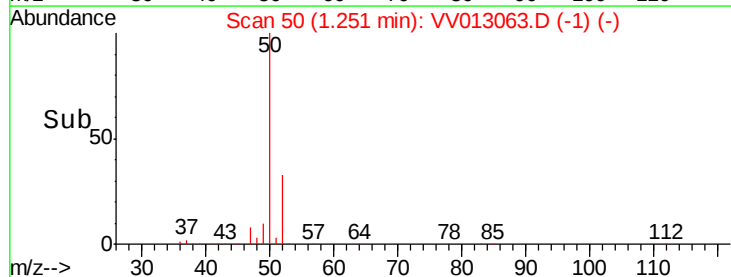
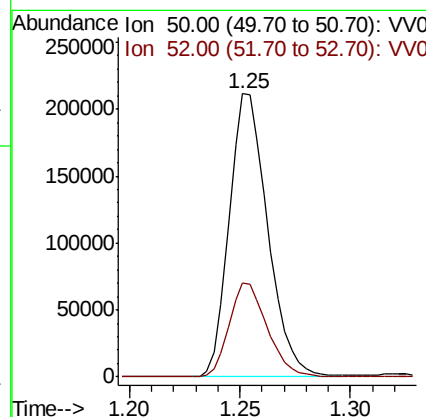
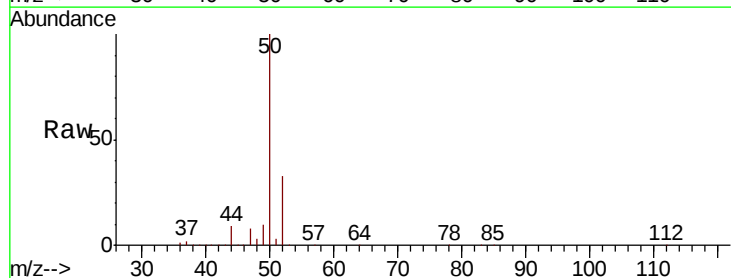
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

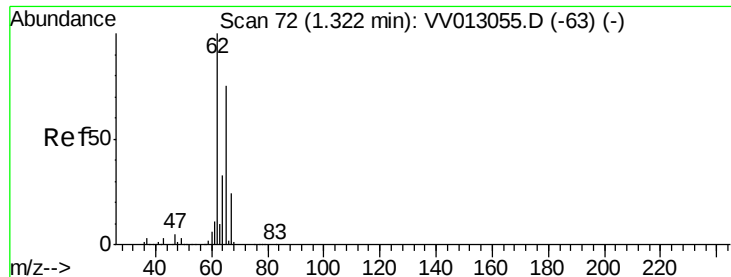
Tot Ion: 85 Resp: 222321
 Ion Ratio Lower Upper
 85 100
 87 33.1 23.2 43.0



#3
 Chloromethane
 Concen: 25.187 ug/L
 RT: 1.25 min Scan# 50
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 50 Resp: 256054
 Ion Ratio Lower Upper
 50 100
 52 33.2 22.7 42.1





#5

Vinyl chloride

Concen: 27.203 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleID :

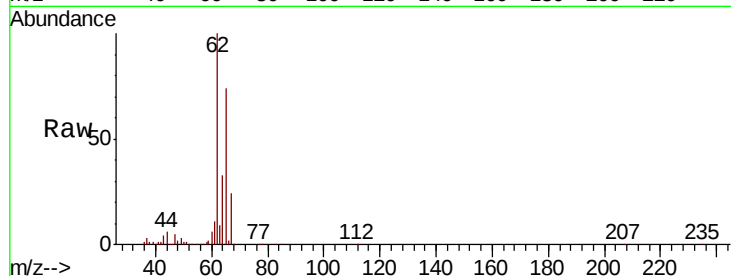
VSTD02587

Tot Ion: 62 Resp: 273036

Ion Ratio Lower Upper

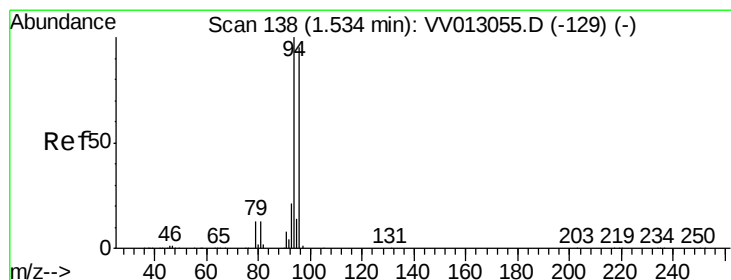
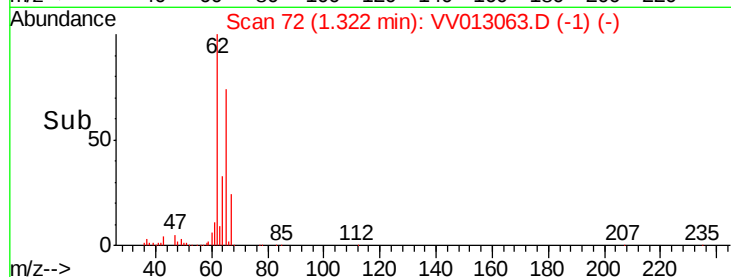
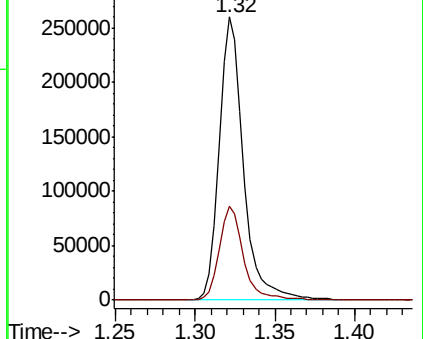
62 100

64 33.1 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV013063.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VV013063.D (-1) (-)



#6

Bromomethane

Concen: 25.356 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013063.D

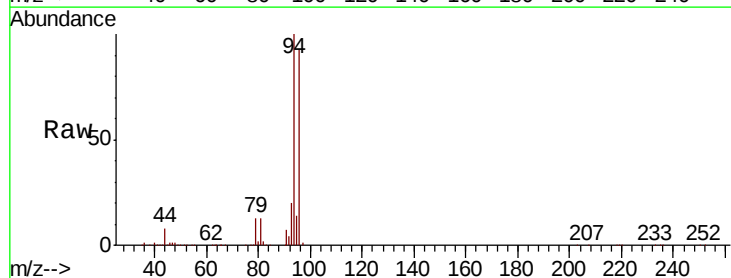
Acq: 08 Oct 2019 16:35

Tgt Ion: 94 Resp: 158873

Ion Ratio Lower Upper

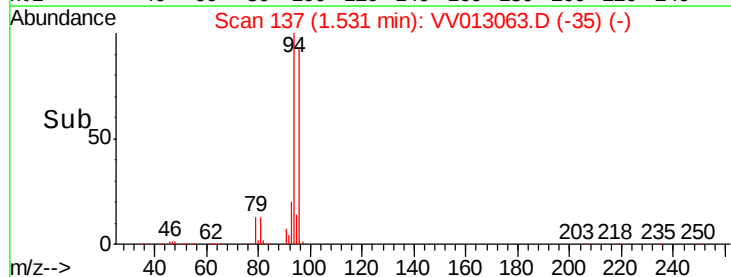
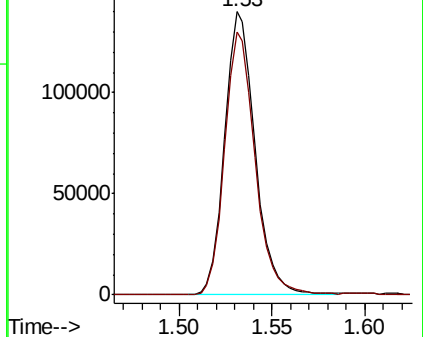
94 100

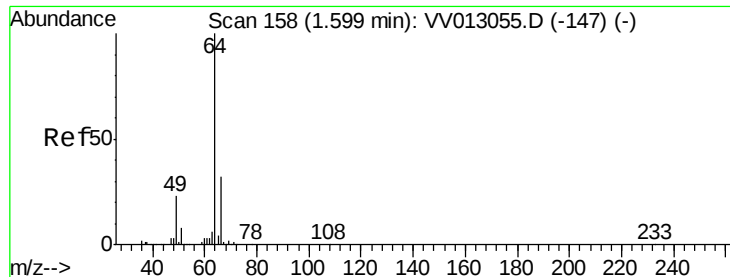
96 93.5 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV013063.D (-35) (-)

Ion 96.00 (95.70 to 96.70): VV013063.D (-35) (-)





#8

Chloroethane

Concen: 28.192 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

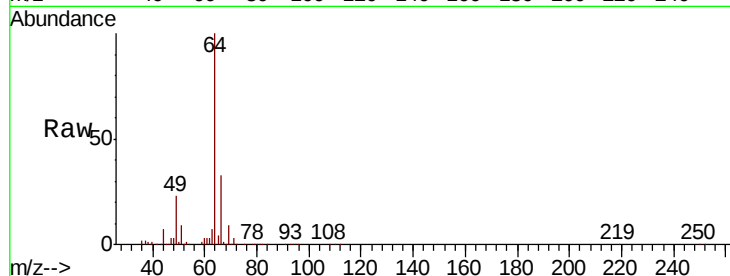
VSTD02587

Tot Ion: 64 Resp: 173879

Ion Ratio Lower Upper

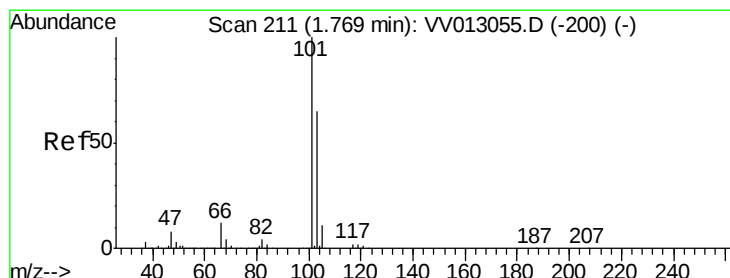
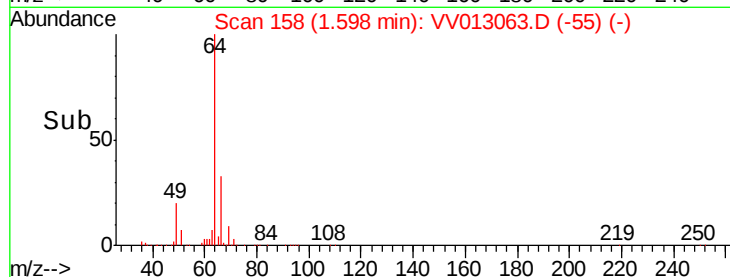
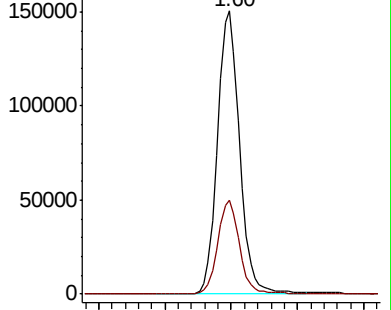
64 100

66 33.0 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV013063.D (-55) (-)

Ion 66.00 (65.70 to 66.70): VV013063.D (-55) (-)



#9

Trichlorofluoromethane

Concen: 27.440 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013063.D

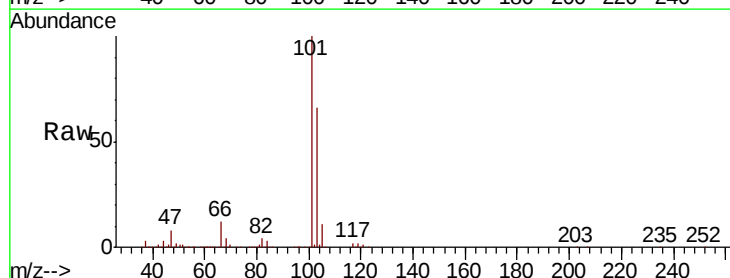
Acq: 08 Oct 2019 16:35

Tgt Ion: 101 Resp: 372500

Ion Ratio Lower Upper

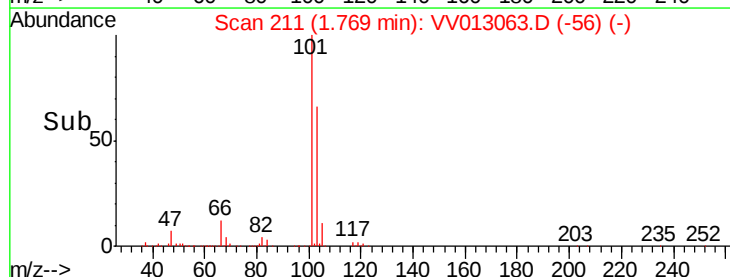
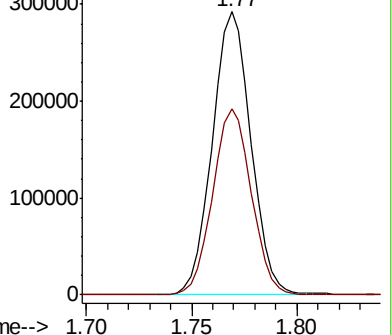
101 100

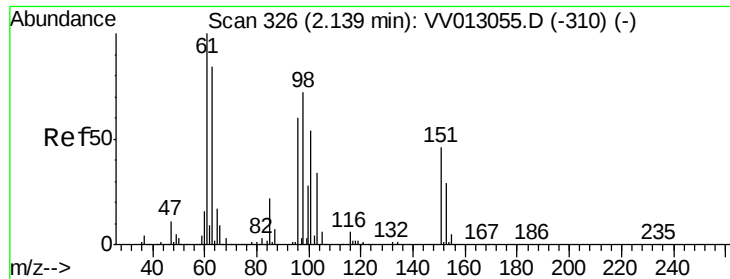
103 65.7 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV013063.D (-56) (-)

Ion 103.00 (102.70 to 103.70): VV013063.D (-56) (-)





#11

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

Concen: 27.160 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

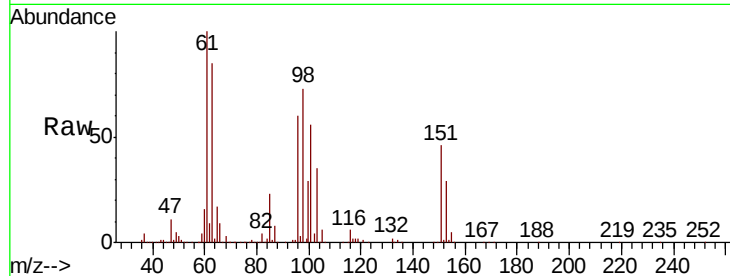
Tot Ion:101 Resp: 235652

Ion Ratio Lower Upper

101 100

85 41.7 32.6 49.0

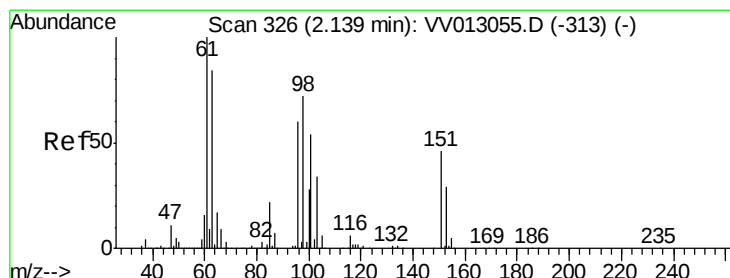
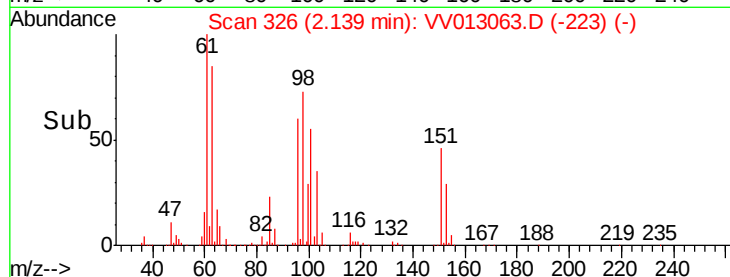
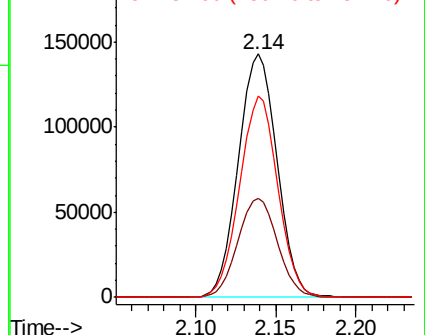
151 81.8 64.2 96.4



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: 27.480 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

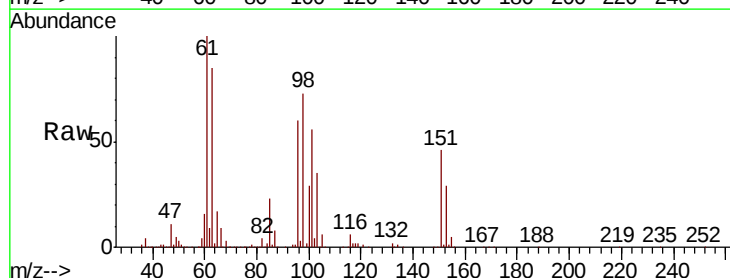
Tgt Ion: 96 Resp: 219587

Ion Ratio Lower Upper

96 100

61 165.5 117.2 217.8

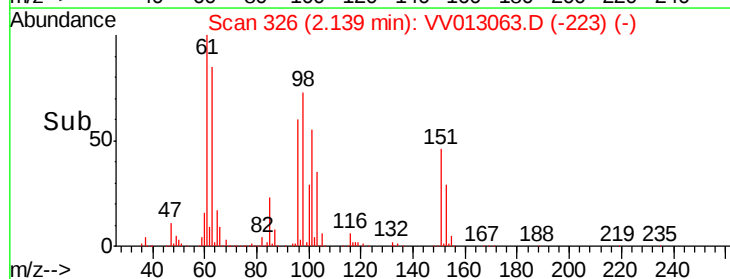
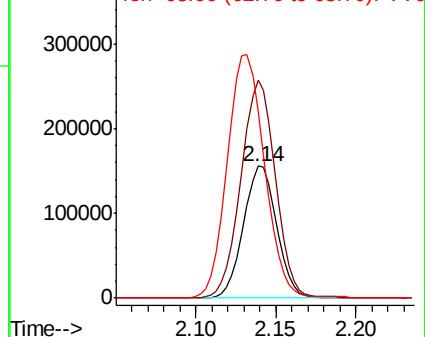
63 140.8 89.6 166.4

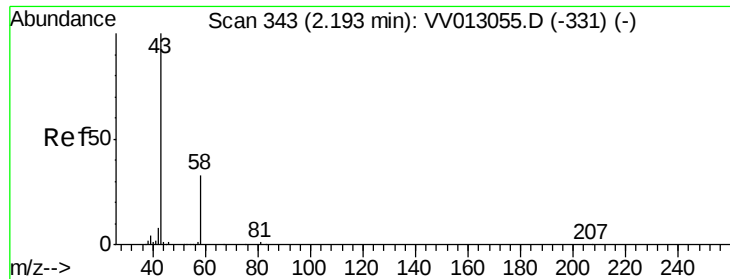


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 42.810 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

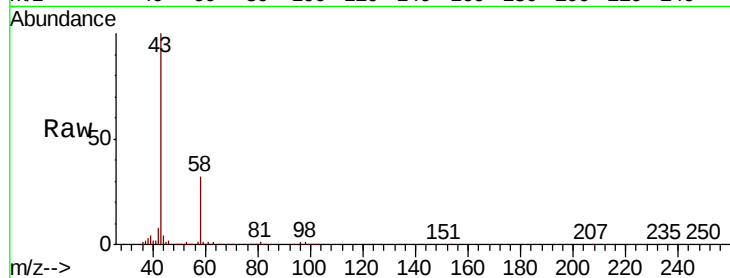
VSTD02587

Tot Ion: 43 Resp: 172313

Ion Ratio Lower Upper

43 100

58 32.4 0.0 65.0



Abundance Ion 43.00 (42.70 to 43.70): VV013055.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV013055.D (-331) (-)

2.19

120000

100000

80000

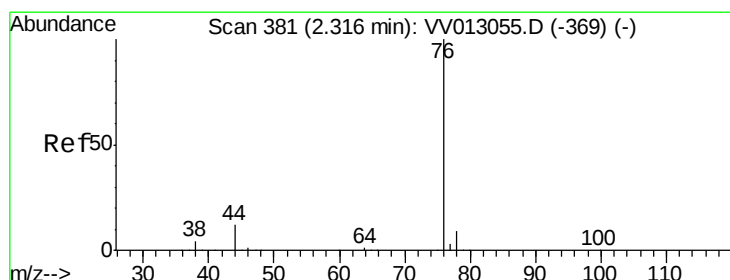
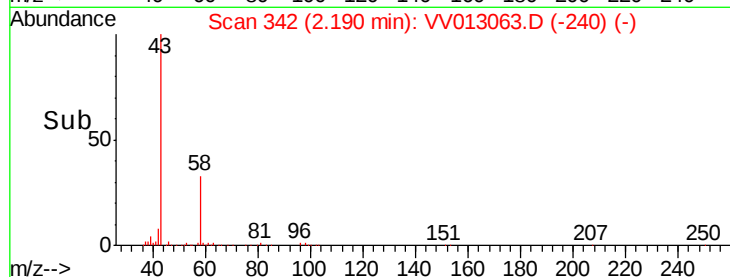
60000

40000

20000

0

Time--> 2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 25.026 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013063.D

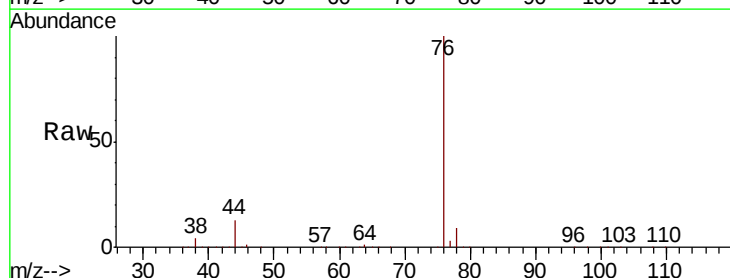
Acq: 08 Oct 2019 16:35

Tgt Ion: 76 Resp: 638774

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV013055.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV013055.D (-369) (-)

2.32

500000

400000

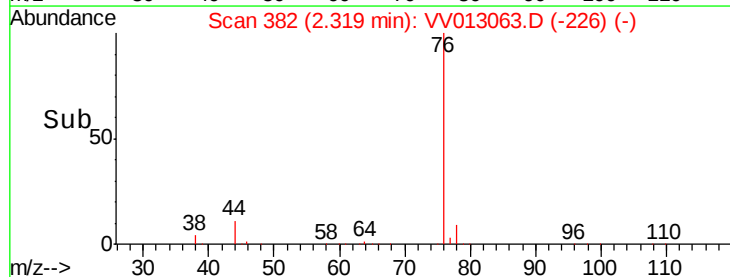
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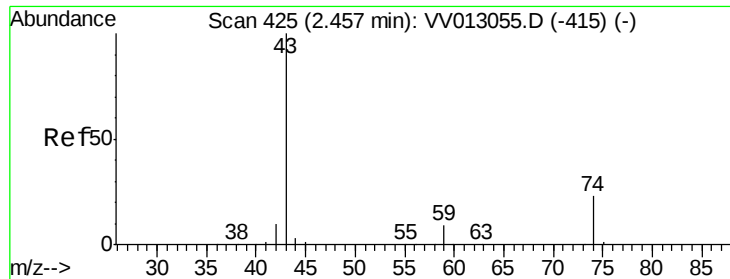
200000

100000

0

Time--> 2.25 2.30 2.35 2.40

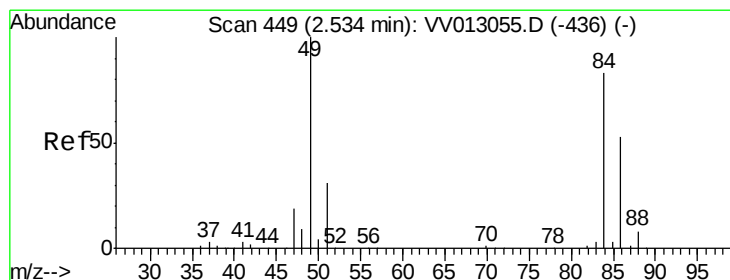
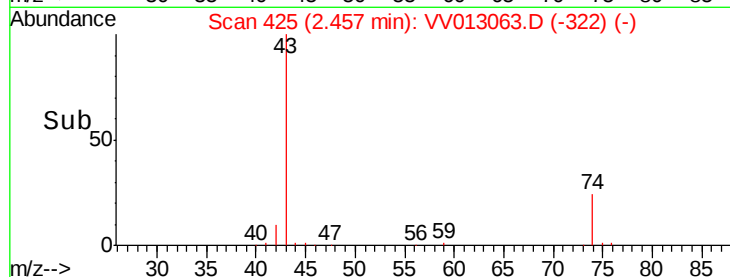
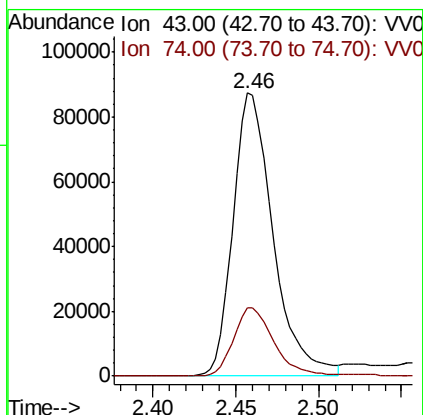
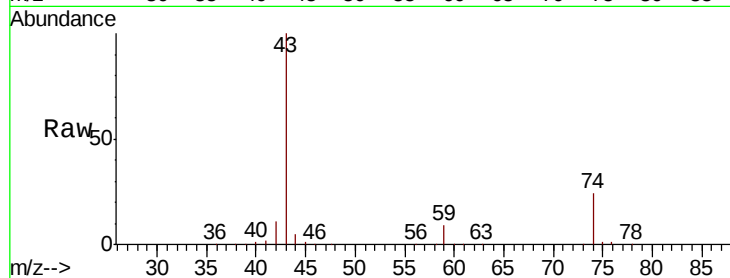




#15
Methvl Acetate
Concen: 23.420 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

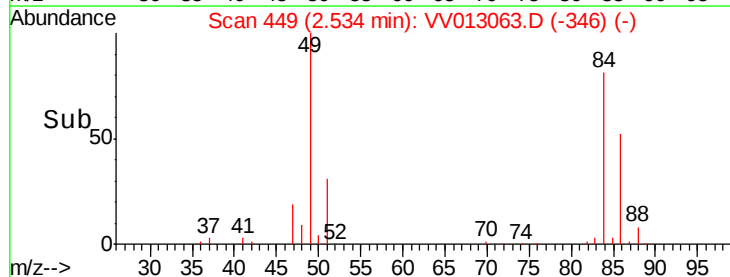
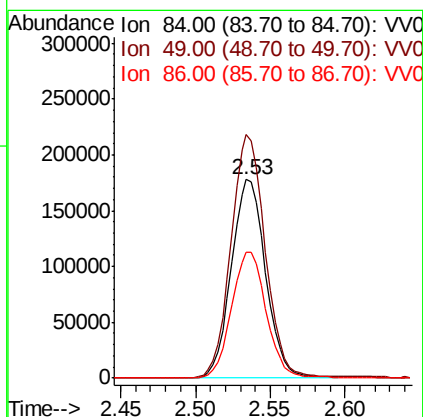
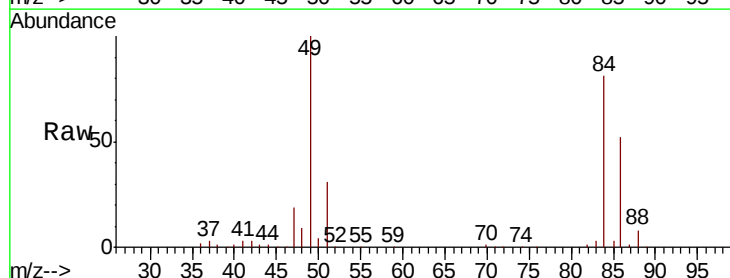
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

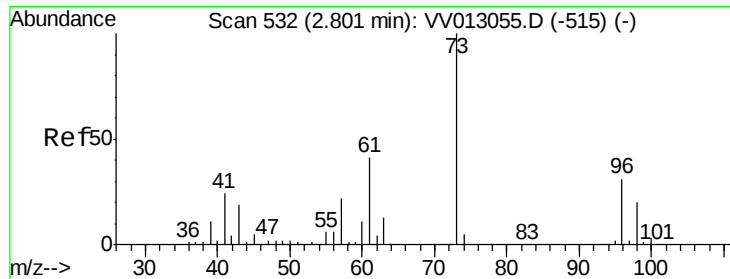
Tot Ion: 43 Resp: 146205
Ion Ratio Lower Upper
43 100
74 24.3 18.8 28.2



#16
Methylene chloride
Concen: 26.919 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion: 84 Resp: 284415
Ion Ratio Lower Upper
84 100
49 122.8 88.3 164.1
86 63.8 44.9 83.3

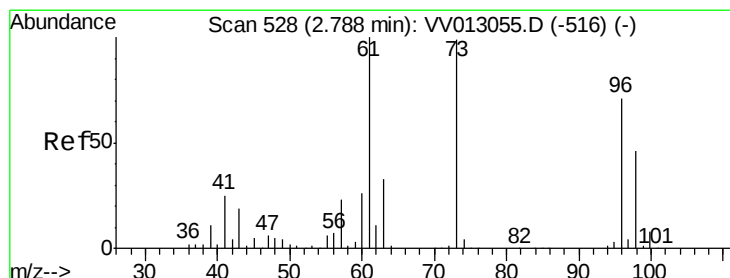
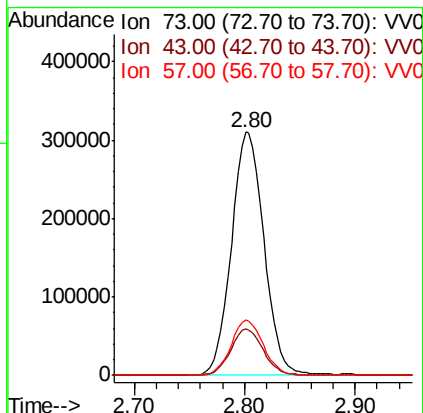
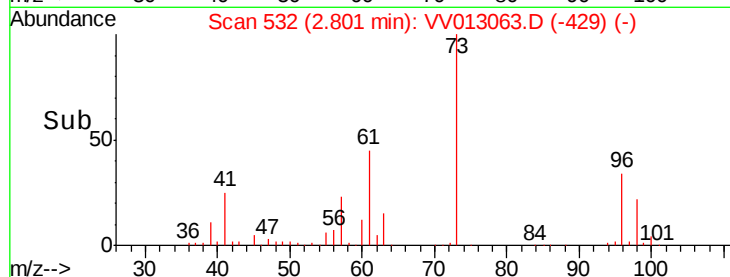
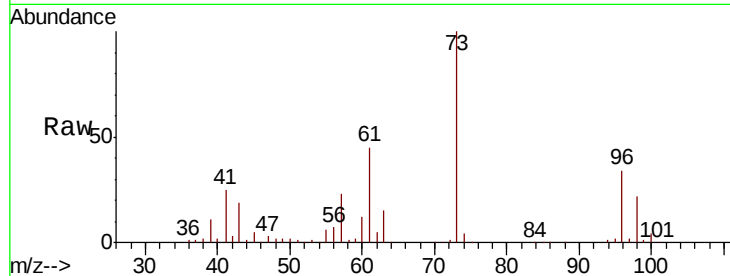




#17
Methvl tert-butvl Ether
Concen: 27.121 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

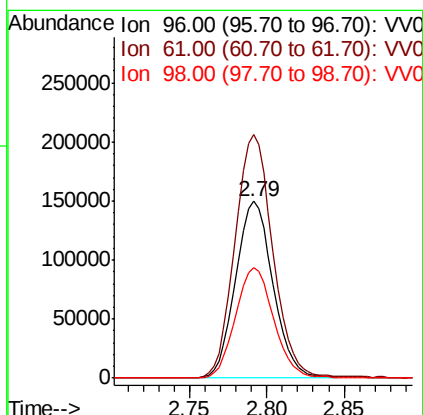
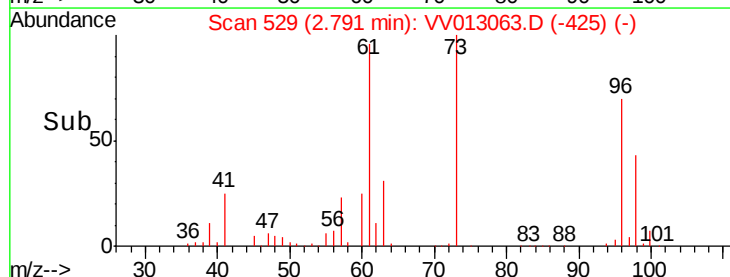
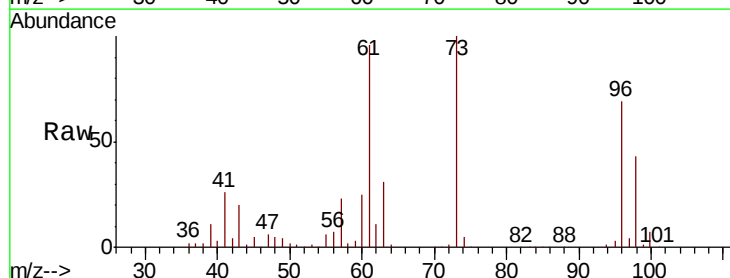
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

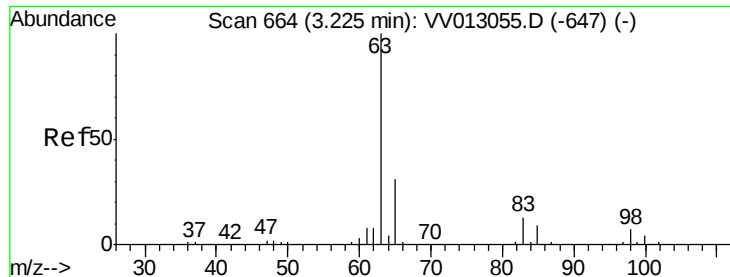
Tot Ion: 73 Resp: 635879
Ion Ratio Lower Upper
73 100
43 18.9 15.0 22.6
57 22.7 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 26.674 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion: 96 Resp: 252287
Ion Ratio Lower Upper
96 100
61 137.7 96.8 179.8
98 62.3 44.8 83.2

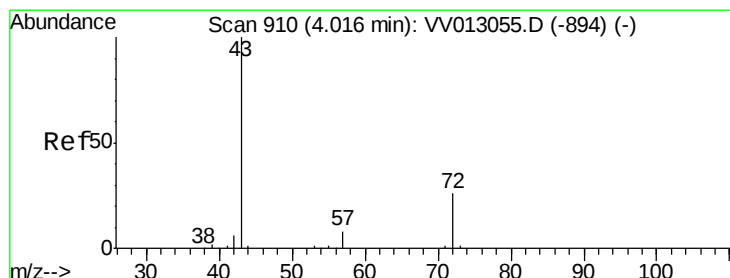
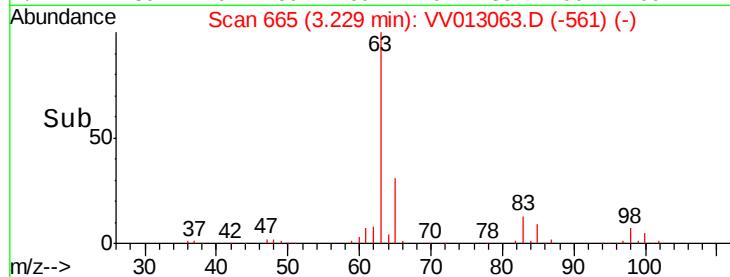
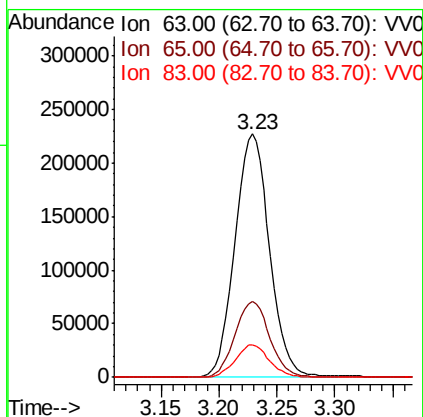
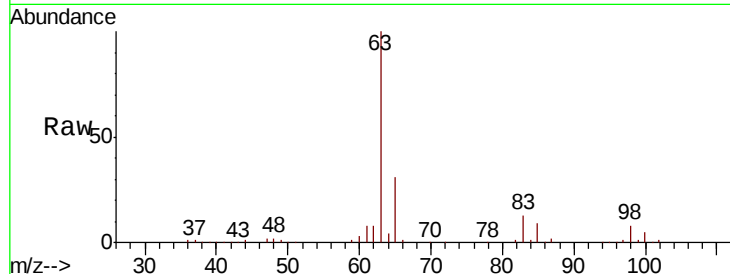




#19
 1,1-Dichloroethane
 Concen: 27.225 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

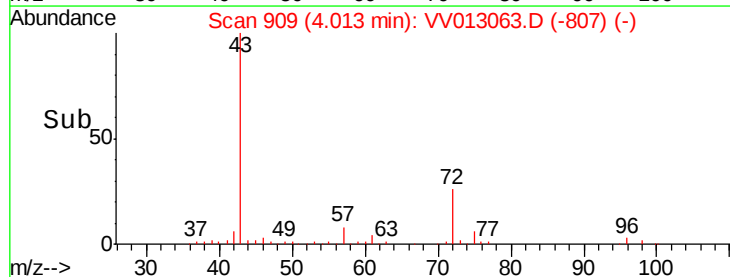
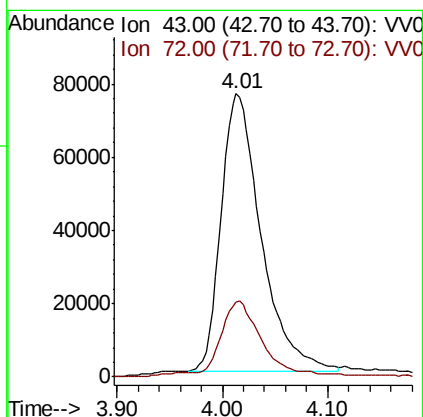
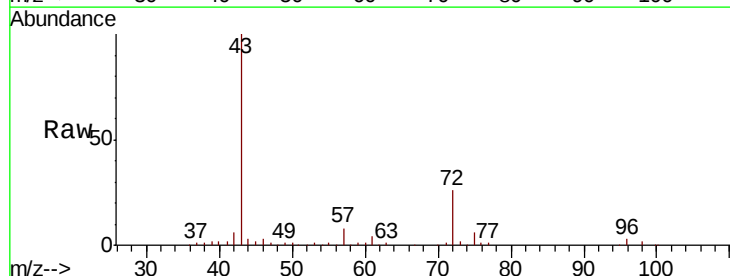
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

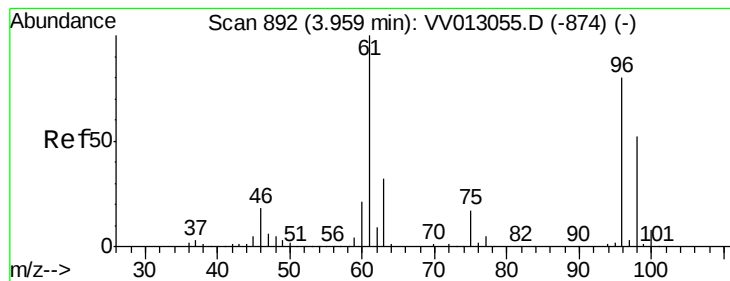
Tot Ion: 63 Resp: 469909
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.0 41.0
 83 13.4 9.2 17.0



#21
 2-Butanone
 Concen: 42.310 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 43 Resp: 198190
 Ion Ratio Lower Upper
 43 100
 72 24.5 11.9 35.9



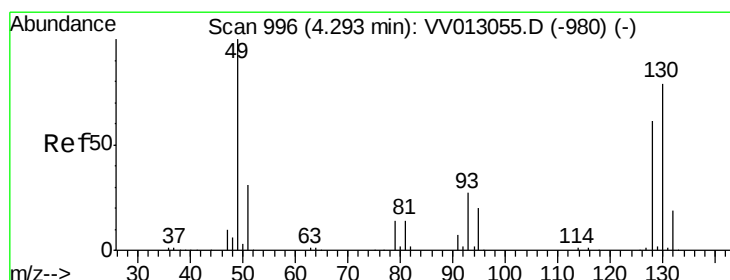
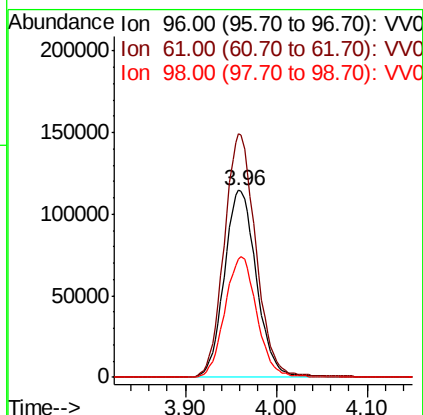
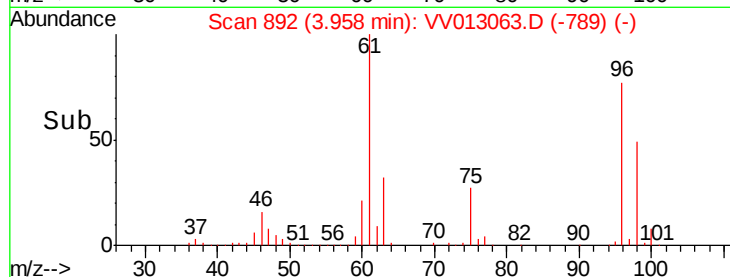
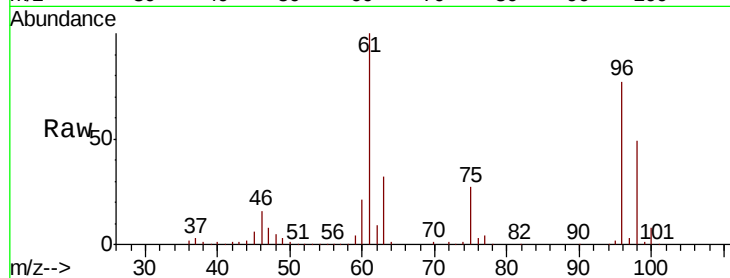


#22

cis-1,2-Dichloroethene
Concen: 27.110 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

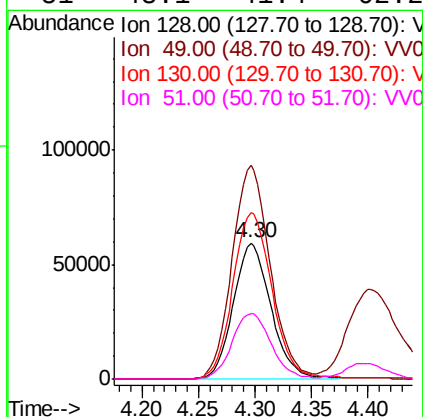
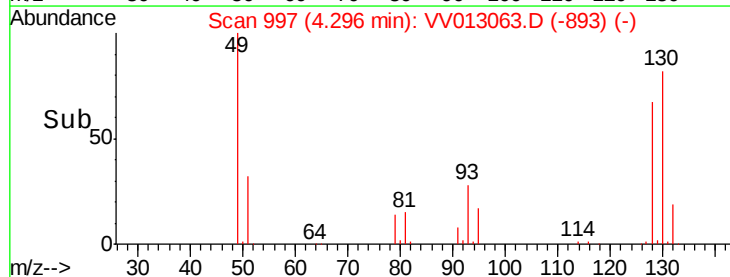
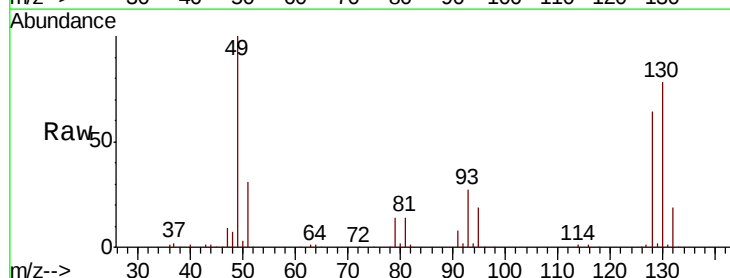
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.1	90.9	168.7
98	63.1	45.6	84.6

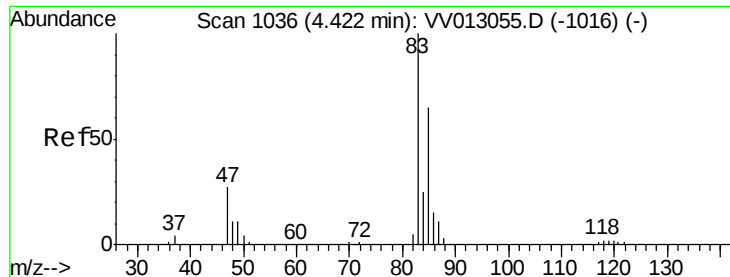


#23

Bromochloromethane
Concen: 26.943 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion	Ratio	Lower	Upper
128	100		
49	157.0	114.4	212.6
130	122.6	88.5	164.4
51	48.1	41.4	62.2





#25

Chloroform

Concen: 26.893 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

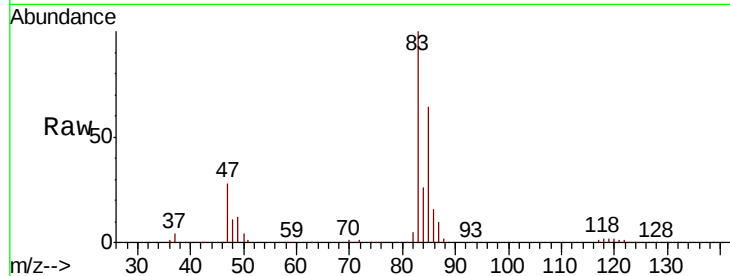
VSTD02587

Tot Ion: 83 Resp: 486699

Ion Ratio Lower Upper

83 100

85 65.3 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VV013055.D (-1016) (-)

Ion 85.00 (84.70 to 85.70): VV013055.D (-1016) (-)

4.42

200000

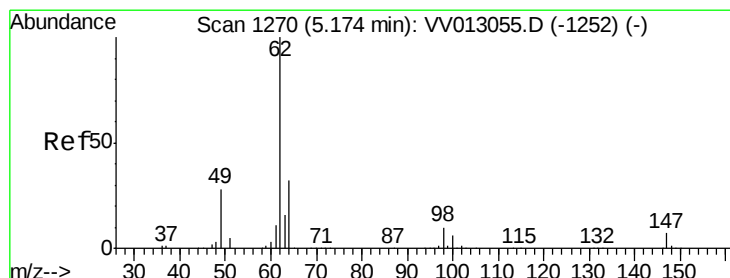
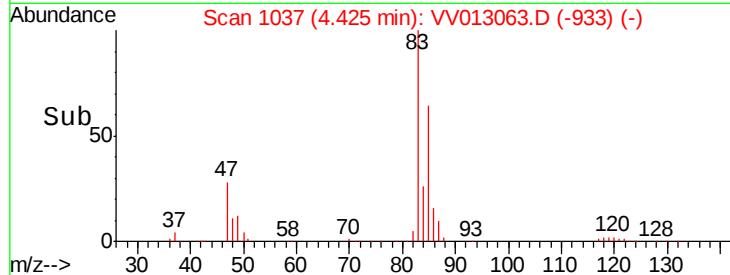
150000

100000

50000

0

Time-->



#27

1,2-Dichloroethane

Concen: 26.092 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV013063.D

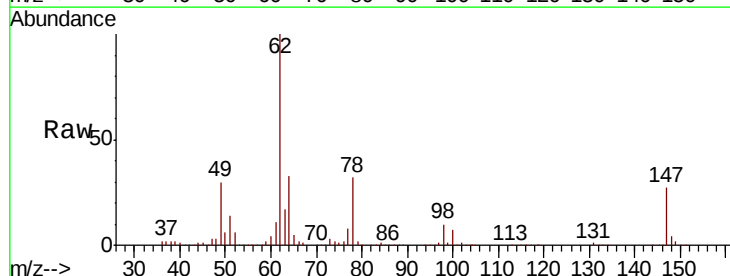
Acq: 08 Oct 2019 16:35

Tgt Ion: 62 Resp: 333747

Ion Ratio Lower Upper

62 100

98 10.1 8.2 12.4



Abundance Ion 62.00 (61.70 to 62.70): VV013055.D (-1252) (-)

Ion 98.00 (97.70 to 98.70): VV013055.D (-1252) (-)

5.18

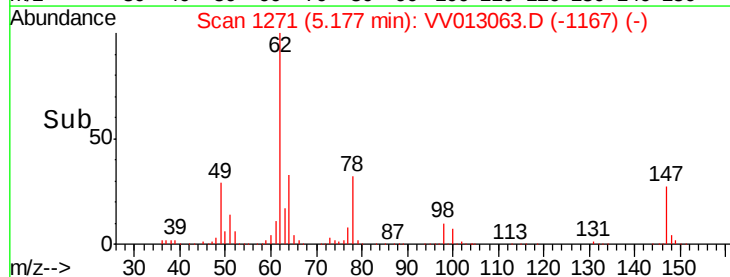
150000

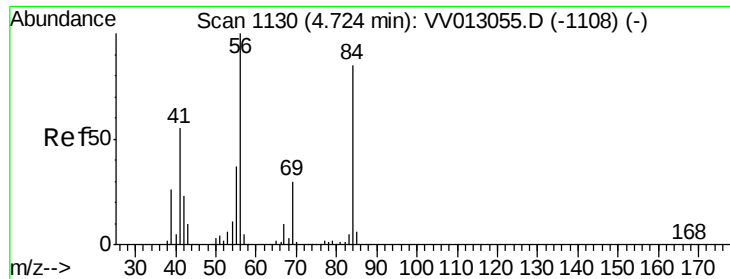
100000

50000

0

Time-->

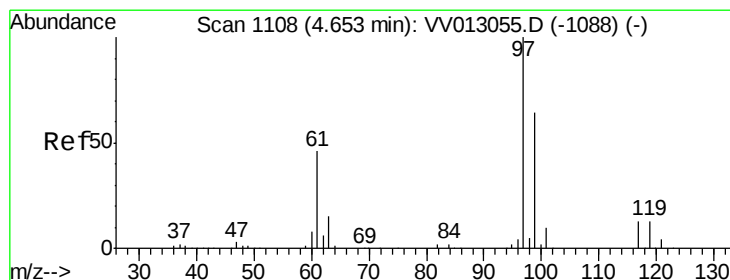
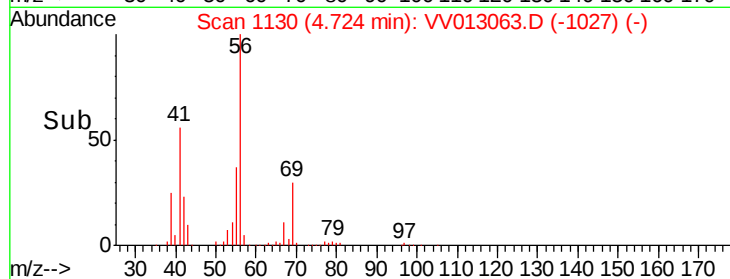
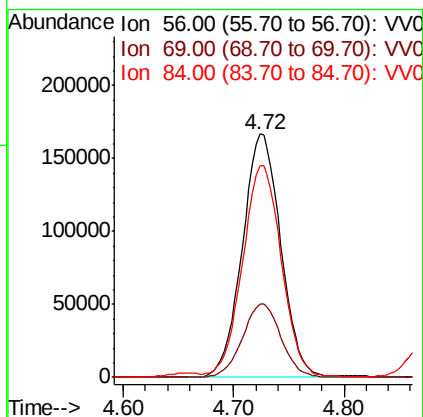
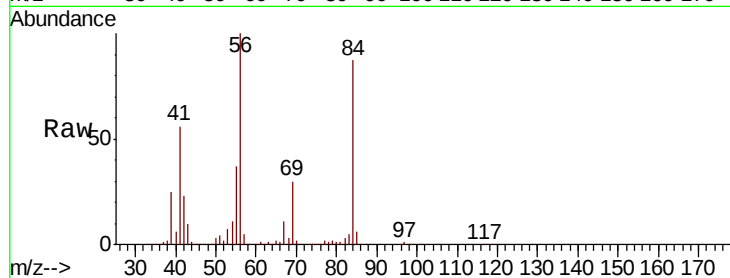




#30
Cyclohexane
Concen: 26.758 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

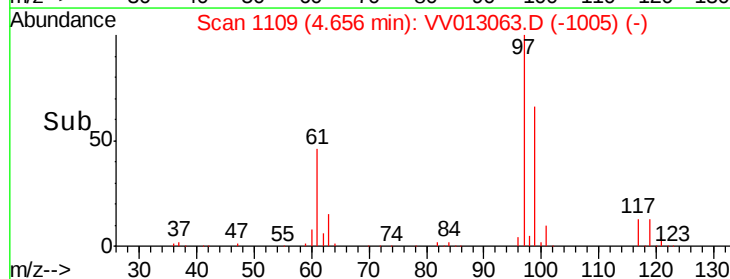
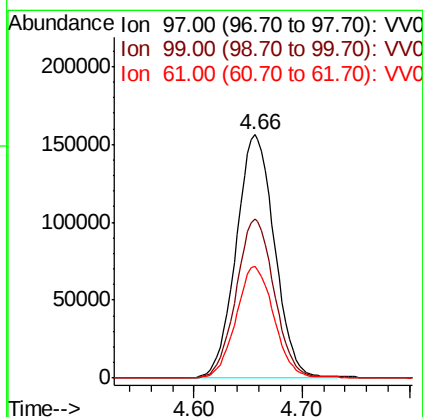
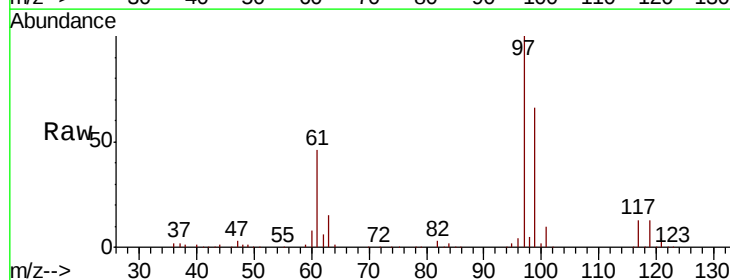
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

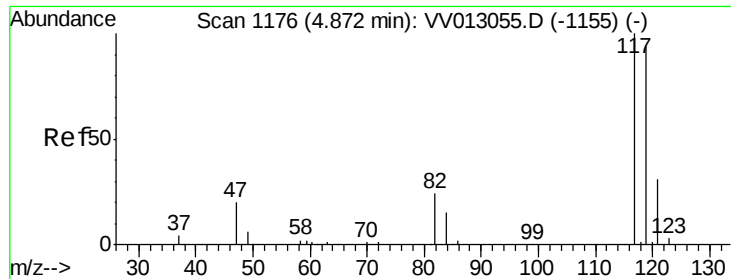
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.8	35.8
84	88.4	68.4	102.6



#31
1,1,1-Trichloroethane
Concen: 27.829 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. 0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.7	77.5
61	45.2	37.8	56.8



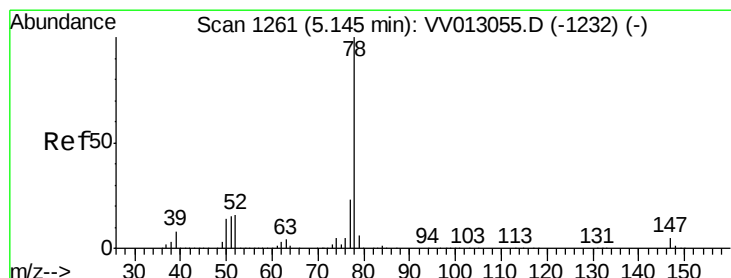
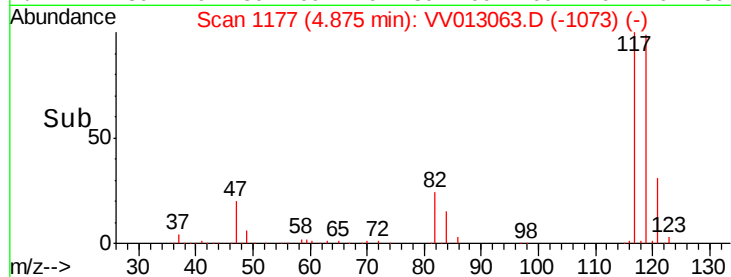
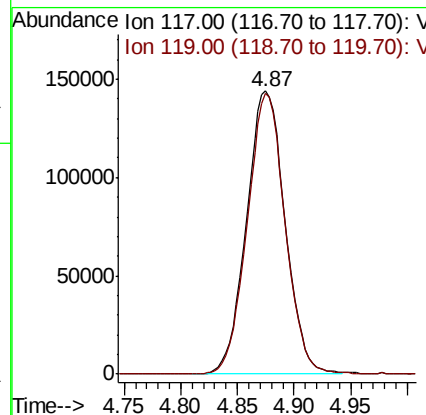
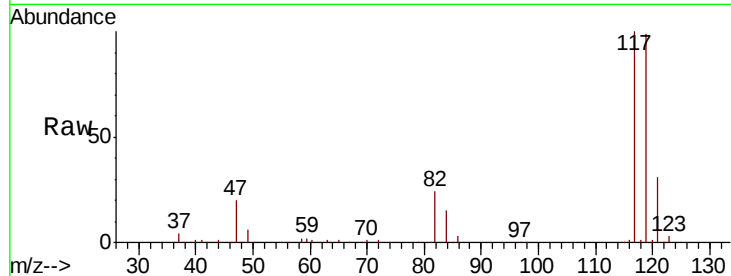


#32

Carbon tetrachloride
 Concen: 27.152 ug/L
 RT: 4.87 min Scan# 1177
 Delta R.T. 0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

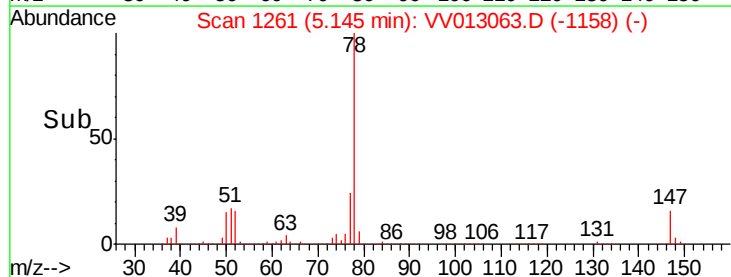
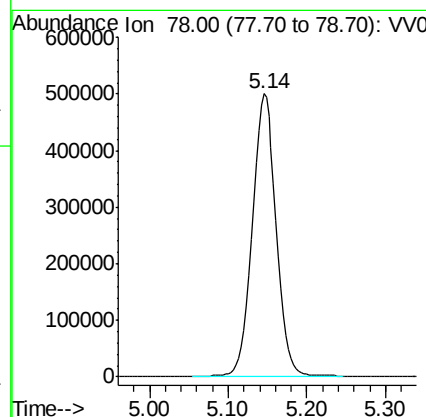
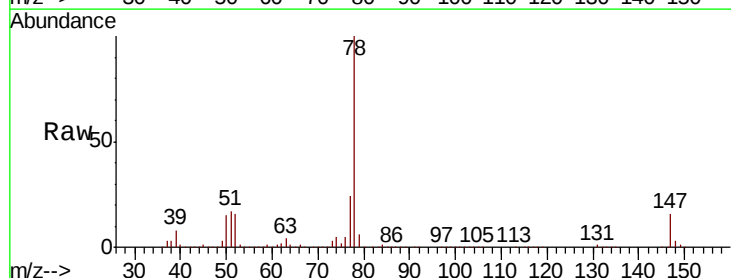
Tot Ion:117 Resp: 341665
 Ion Ratio Lower Upper
 117 100
 119 97.3 76.0 114.0

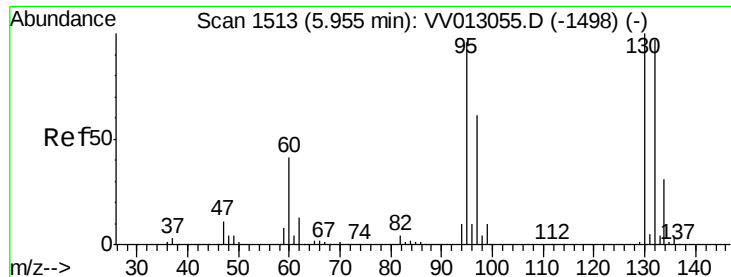


#34

Benzene
 Concen: 27.718 ug/L
 RT: 5.14 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 78 Resp: 1081892

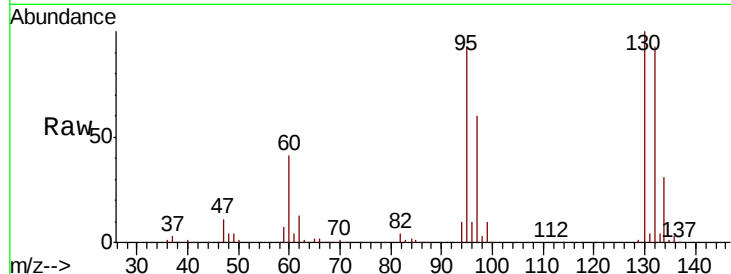




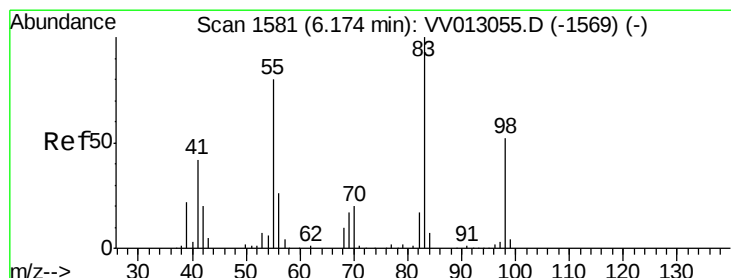
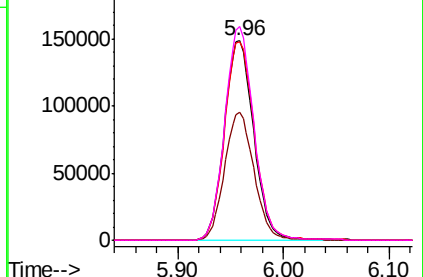
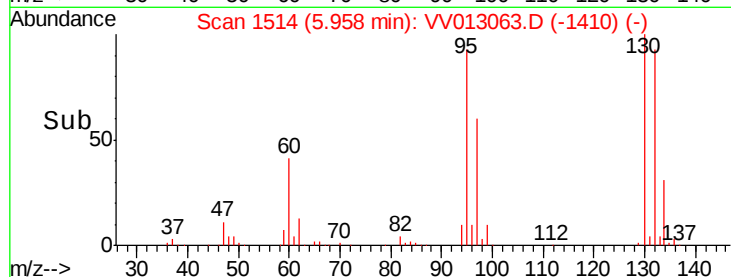
#35
 Trichloroethene
 Concen: 26.451 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD02587

Tot Ion: 95 Resp: 287599
 Ion Ratio Lower Upper
 95 100
 97 64.3 44.7 82.9
 132 101.3 70.1 130.1
 130 105.9 73.3 136.1

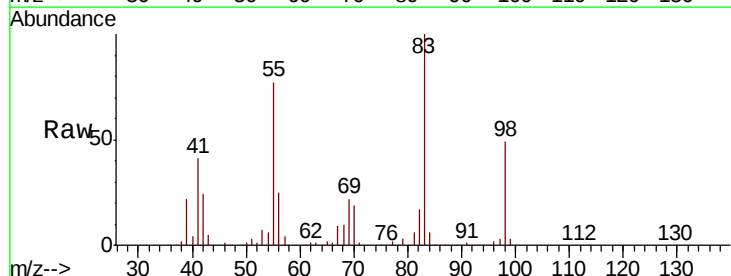


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

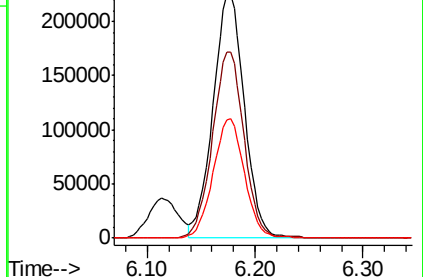
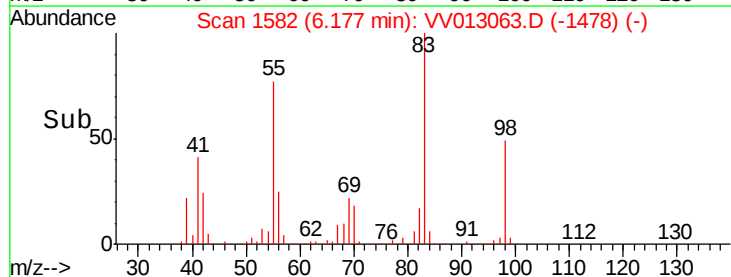


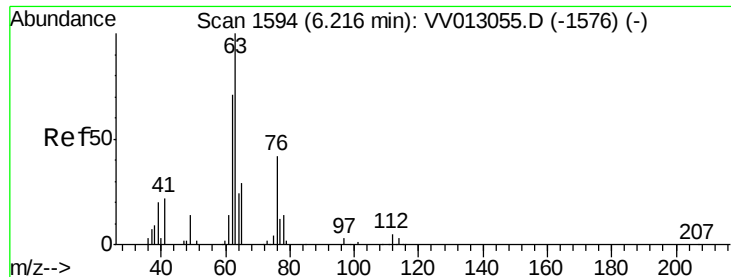
#36
 Methylcyclohexane
 Concen: 27.156 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 83 Resp: 453280
 Ion Ratio Lower Upper
 83 100
 55 76.3 61.8 92.8
 98 49.0 39.3 58.9



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 26.928 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

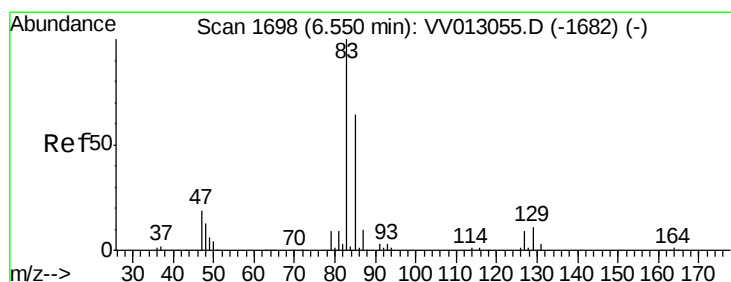
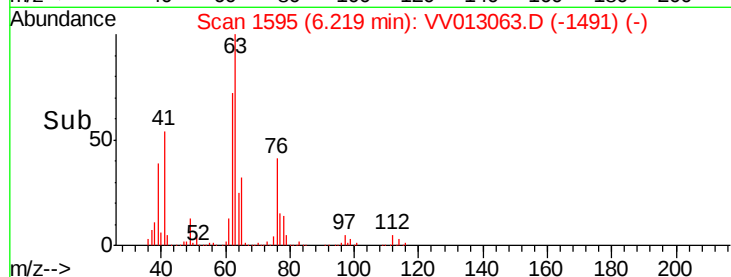
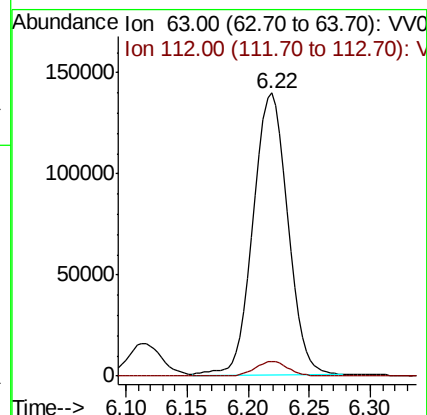
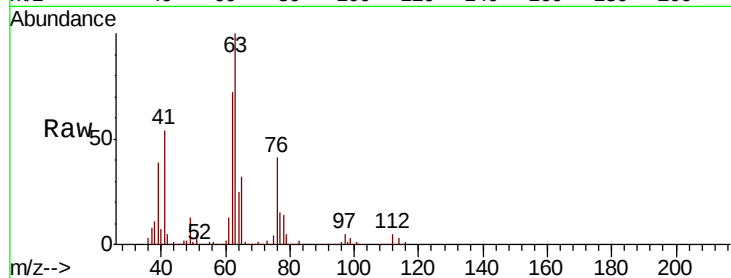
VSTD02587

Tot Ion: 63 Resp: 273327

Ion Ratio Lower Upper

63 100

112 5.0 3.8 5.6



#41

Bromodichloromethane

Concen: 27.580 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

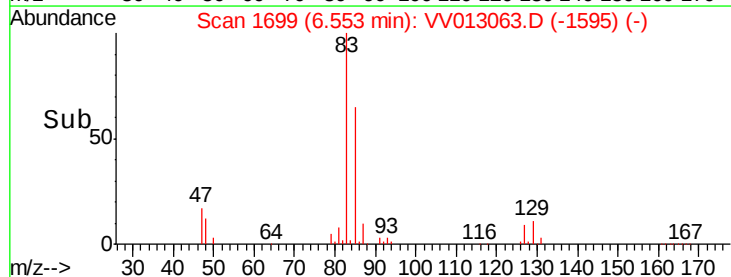
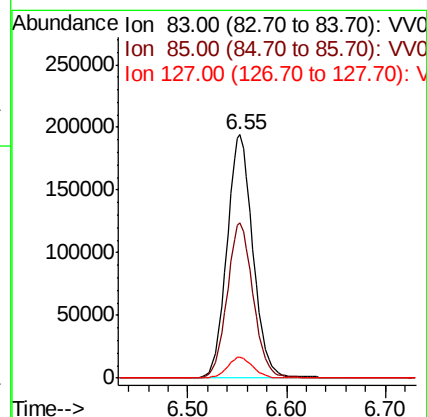
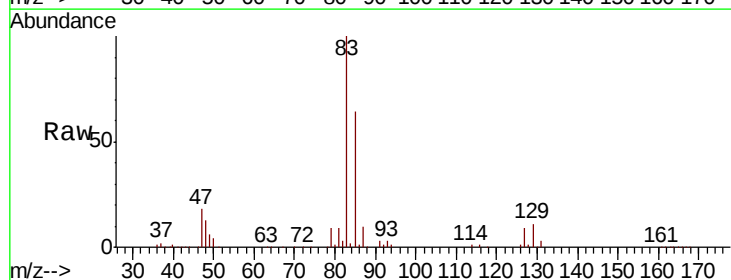
Tgt Ion: 83 Resp: 358571

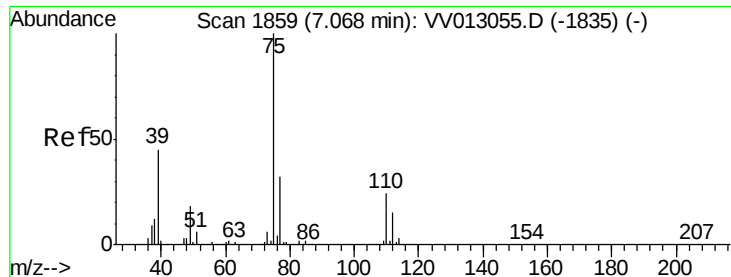
Ion Ratio Lower Upper

83 100

85 63.8 45.3 84.1

127 8.6 7.2 10.8



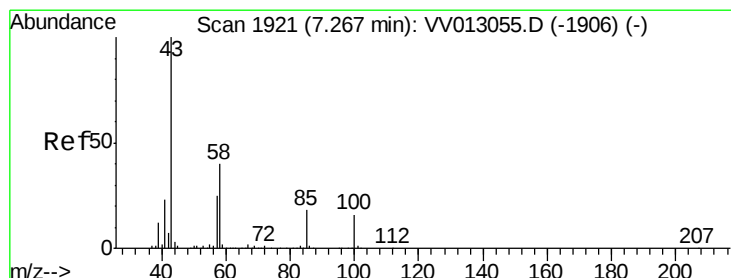
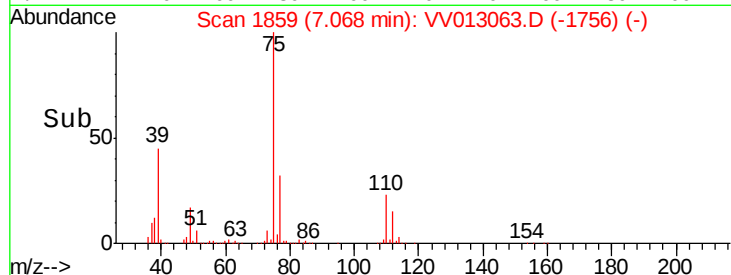
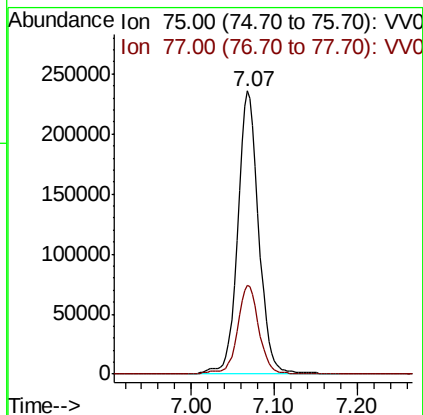
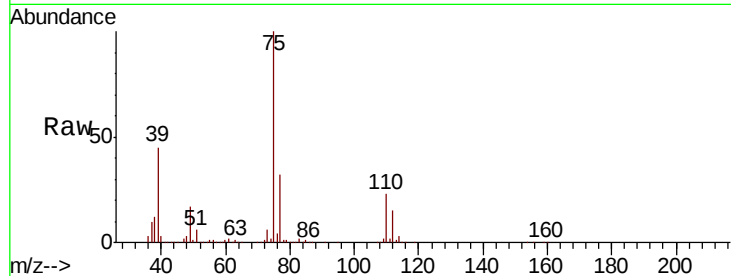


#42

cis-1,3-Dichloropropene
 Concen: 28.129 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02587

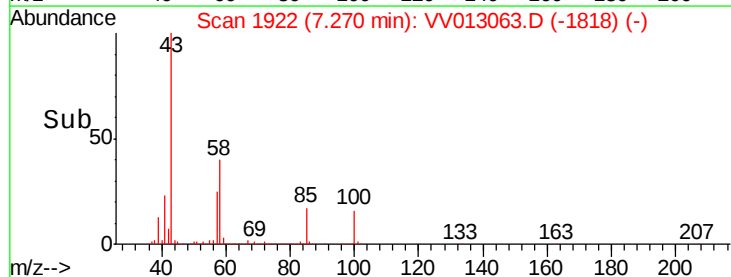
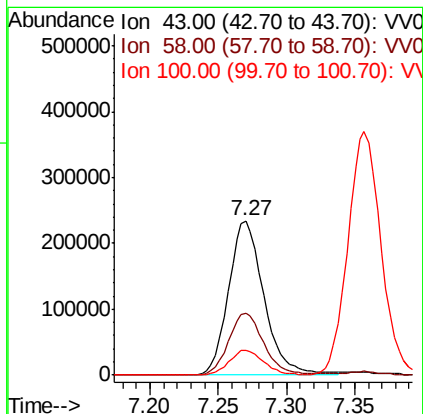
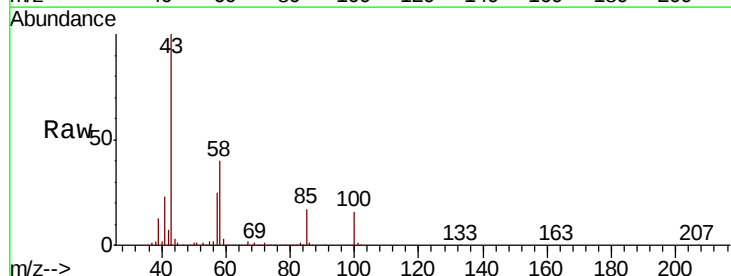
Tot Ion: 75 Resp: 419526
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.5 39.9

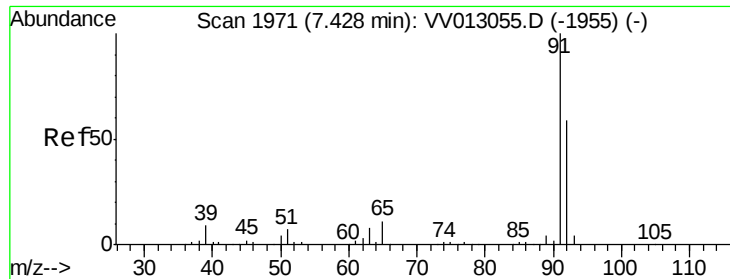


#43

4-Methyl-2-pentanone
 Concen: 50.626 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 43 Resp: 422189
 Ion Ratio Lower Upper
 43 100
 58 40.0 31.2 46.8
 100 15.9 12.2 18.2





#44

Toluene

Concen: 28.511 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

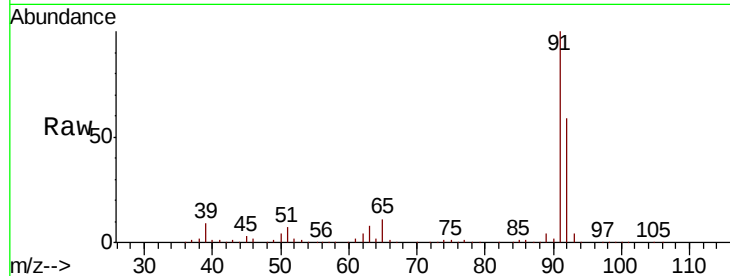
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

Tot Ion: 91 Resp: 1173673

Ion Ratio Lower Upper

91 100

92 59.3 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV013055.D (-1955) (-)

Ion 92.00 (91.70 to 92.70): VV013063.D (-1868) (-)

7.43

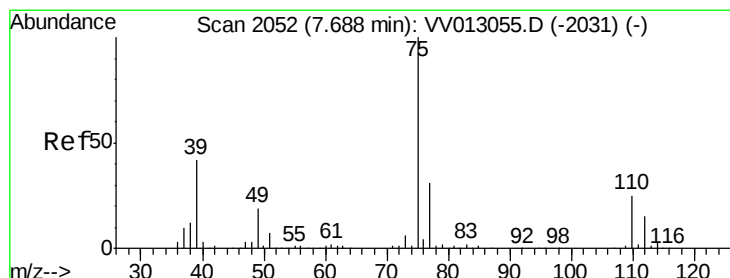
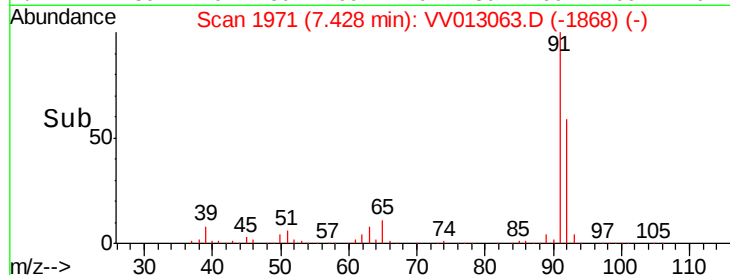
600000

400000

200000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 27.743 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013063.D

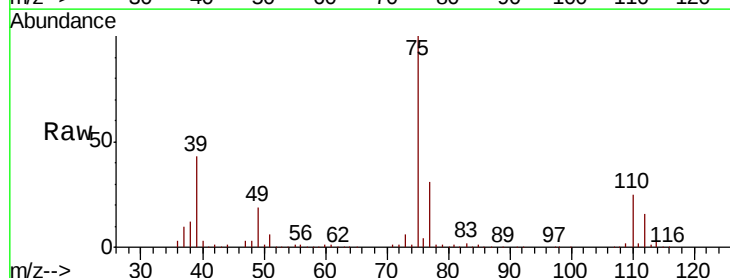
Acq: 08 Oct 2019 16:35

Tgt Ion: 75 Resp: 348247

Ion Ratio Lower Upper

75 100

77 31.3 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV013055.D (-2031) (-)

Ion 77.00 (76.70 to 77.70): VV013063.D (-1949) (-)

7.69

200000

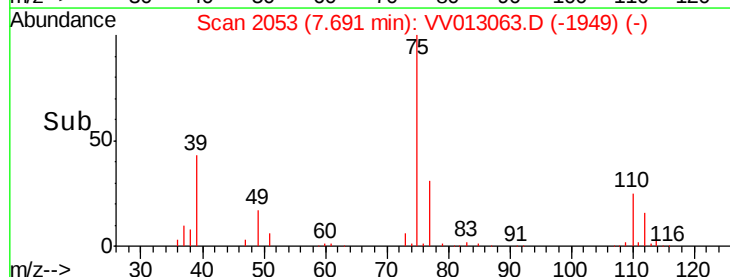
150000

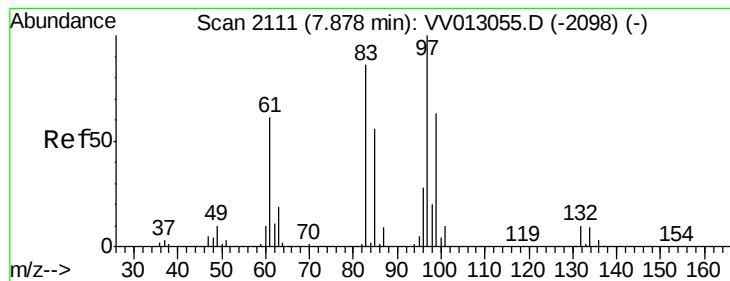
100000

50000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 26.631 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

Tot Ion: 97 Resp: 229484

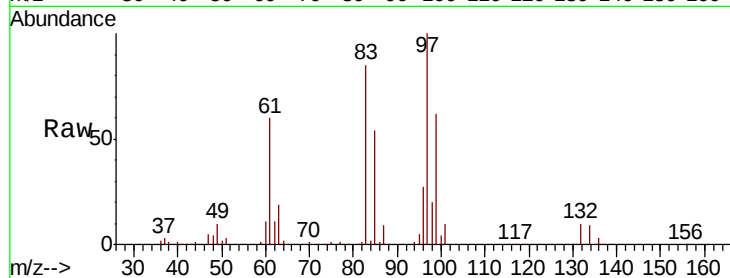
Ion Ratio Lower Upper

97 100

83 84.6 58.9 109.5

85 54.1 38.4 71.2

99 62.2 43.8 81.4

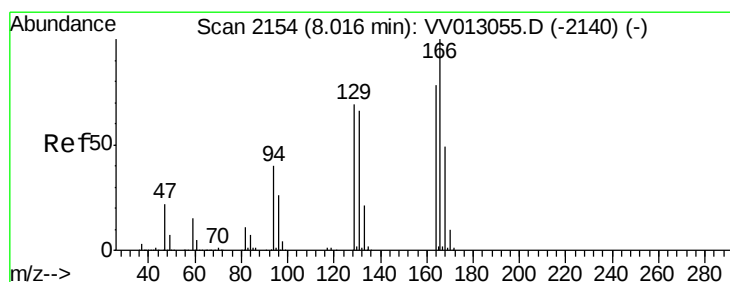
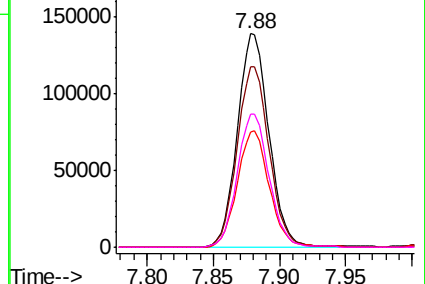
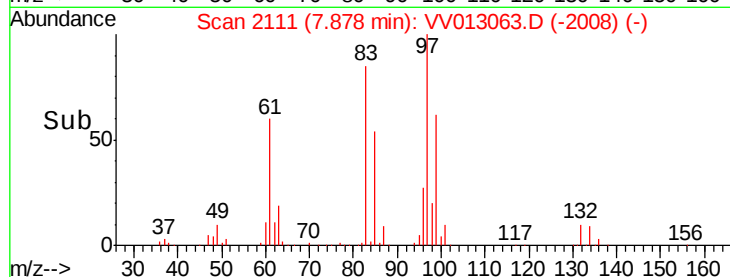


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 27.109 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Tgt Ion:164 Resp: 239569

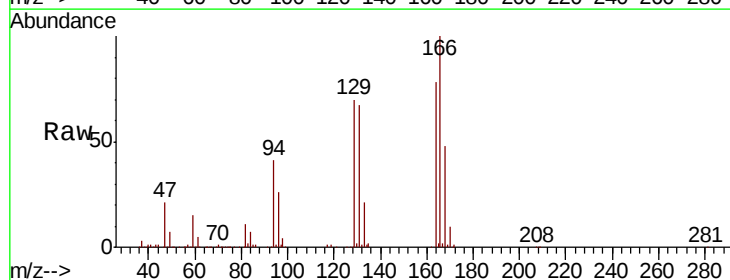
Ion Ratio Lower Upper

164 100

129 89.3 62.8 116.6

131 85.5 60.2 111.8

166 128.4 89.4 166.0

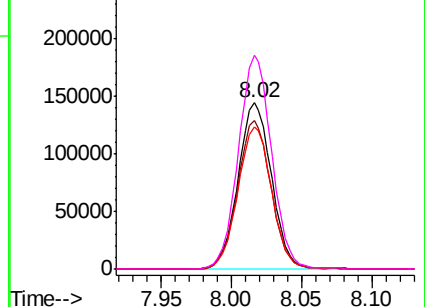
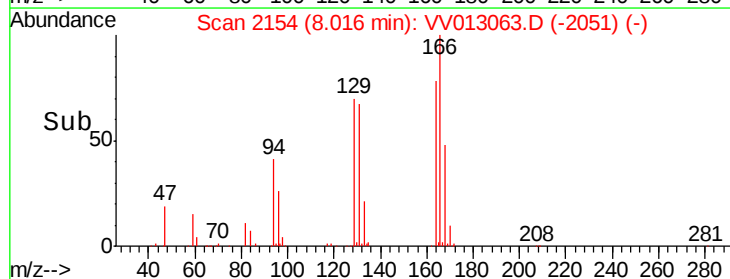


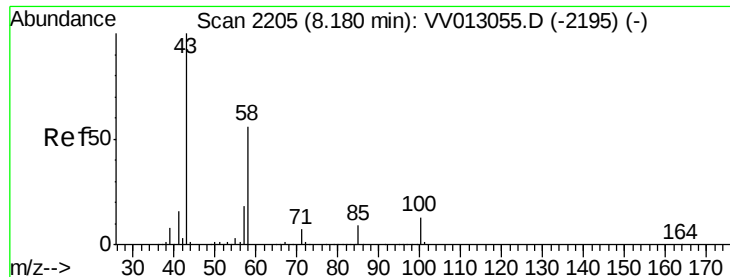
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

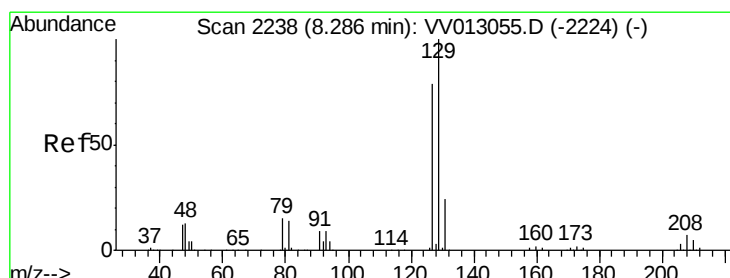
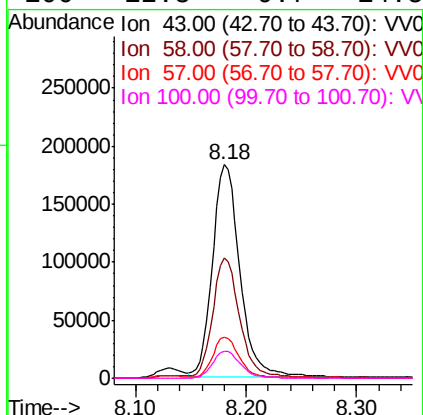
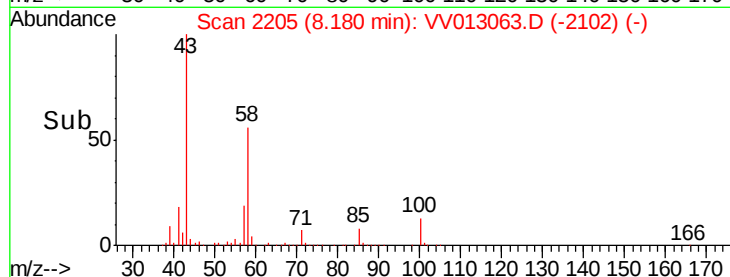
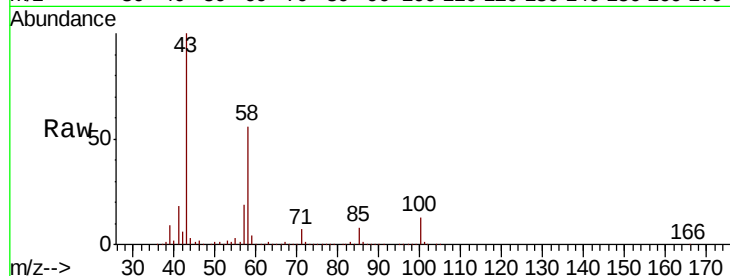




#49
2-Hexanone
Concen: 50.043 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

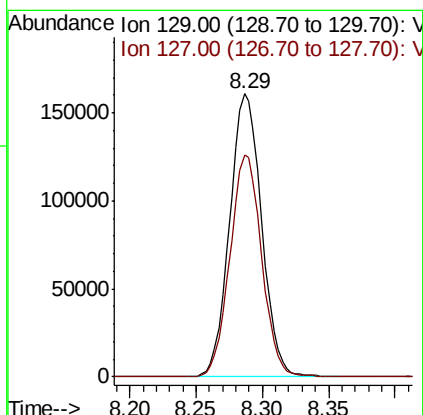
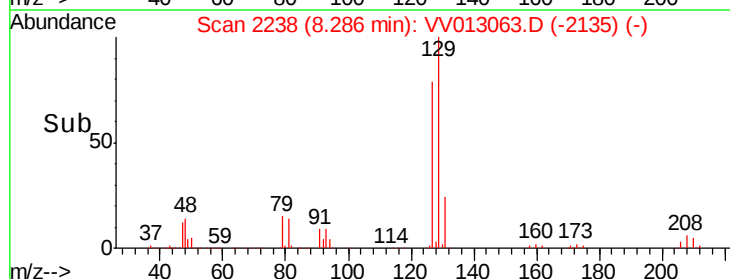
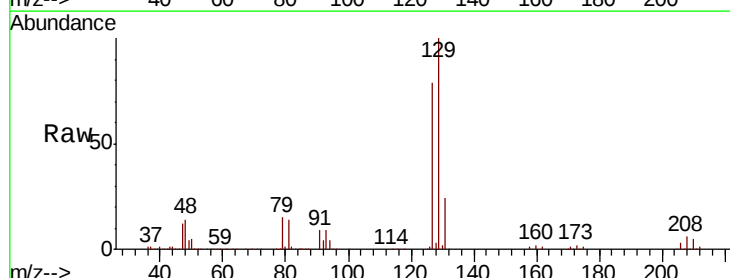
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

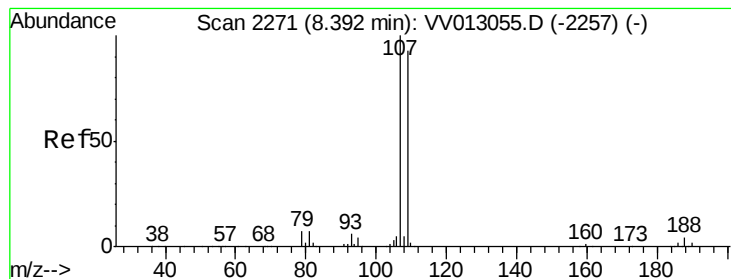
Tot Ion: 43 Resp: 314576
Ion Ratio Lower Upper
43 100
58 54.9 46.5 69.7
57 17.8 15.5 23.3
100 12.8 9.7 14.5



#50
Dibromochloromethane
Concen: 27.220 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion: 129 Resp: 269586
Ion Ratio Lower Upper
129 100
127 78.6 53.7 99.7





#51

1,2-Dibromoethane

Concen: 26.537 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

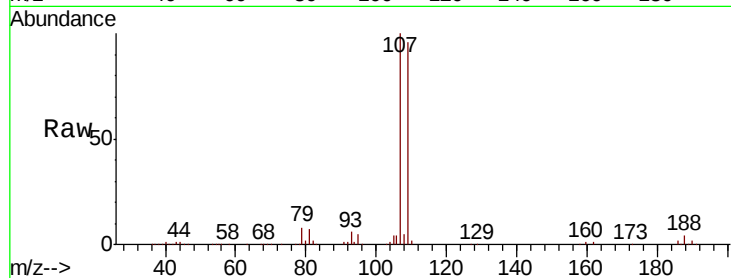
Tot Ion:107 Resp: 224089

Ion Ratio Lower Upper

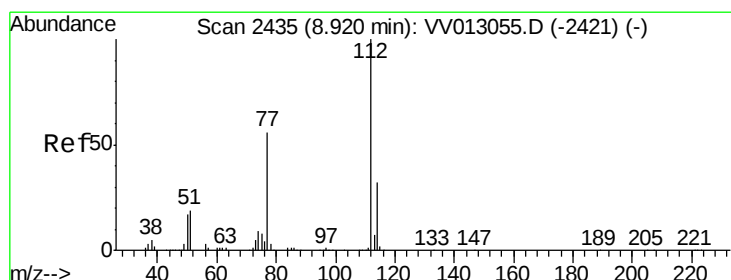
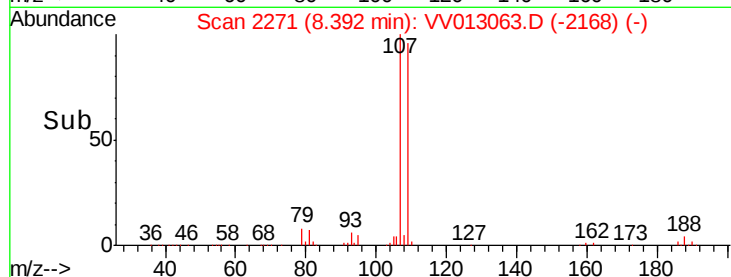
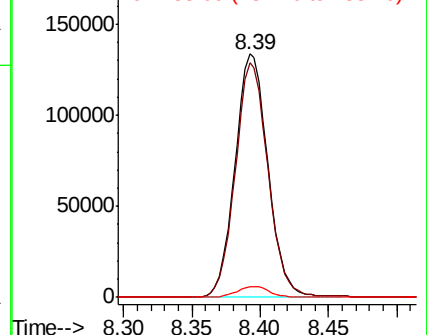
107 100

109 96.3 66.1 122.8

188 4.2 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 27.305 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

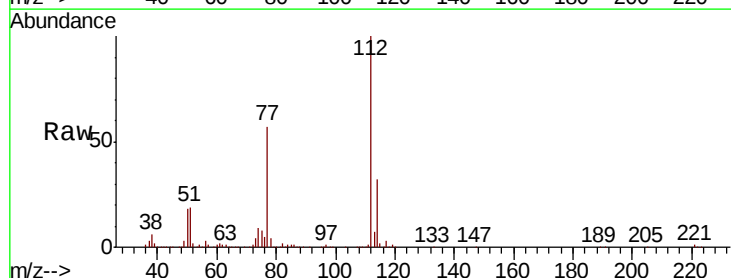
Tgt Ion:112 Resp: 775680

Ion Ratio Lower Upper

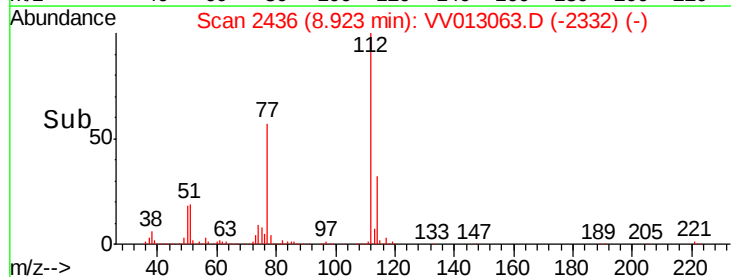
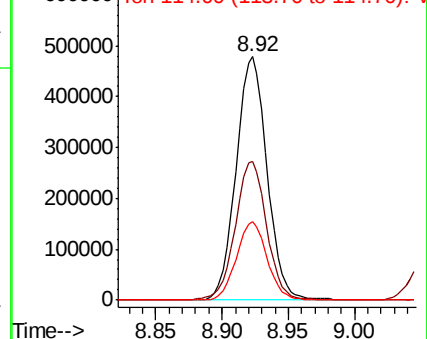
112 100

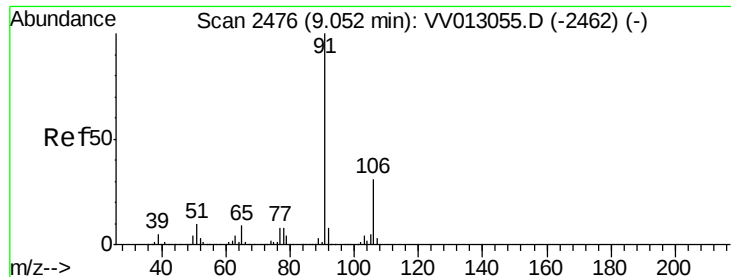
77 57.2 46.3 69.5

114 32.3 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V

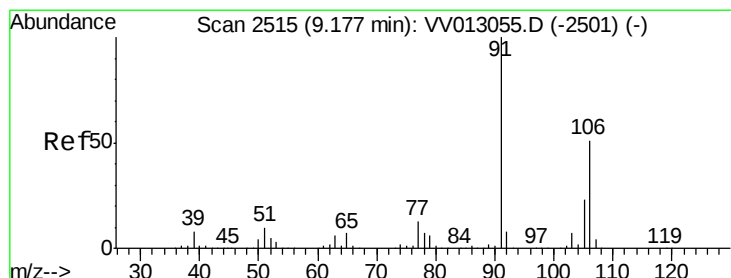
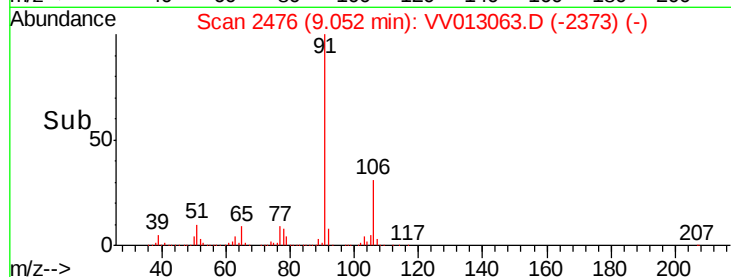
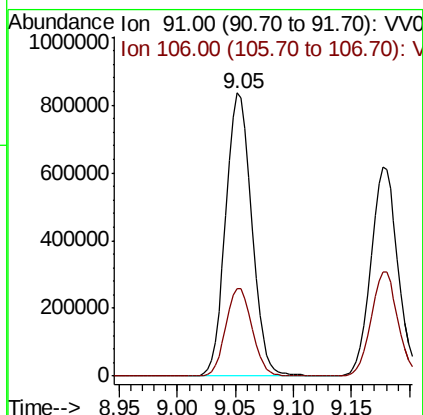
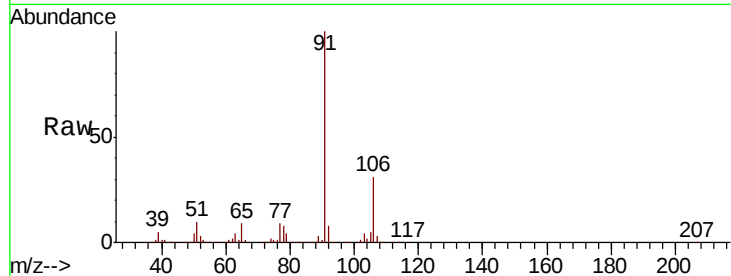




#53
Ethylbenzene
Concen: 28.641 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

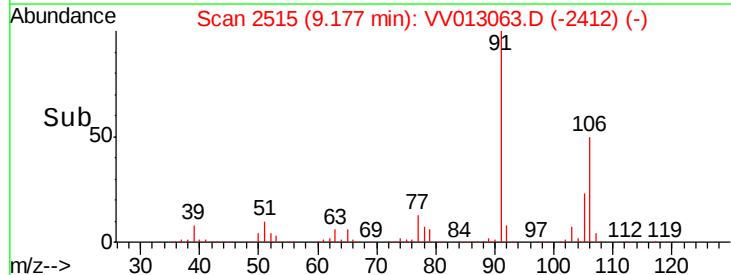
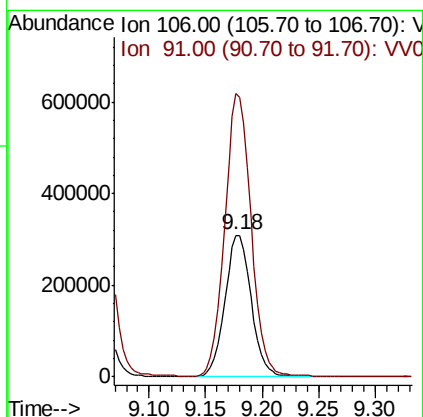
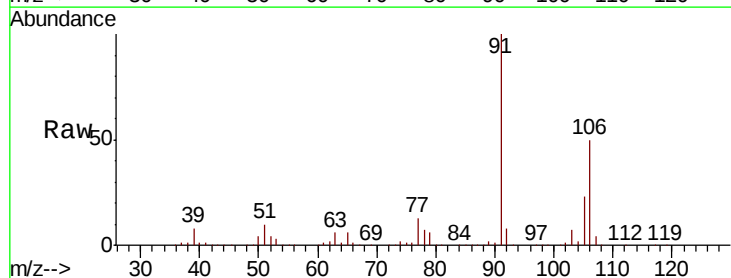
Instrument :
MSVOA_V
ClientSampleId :
VSTD02587

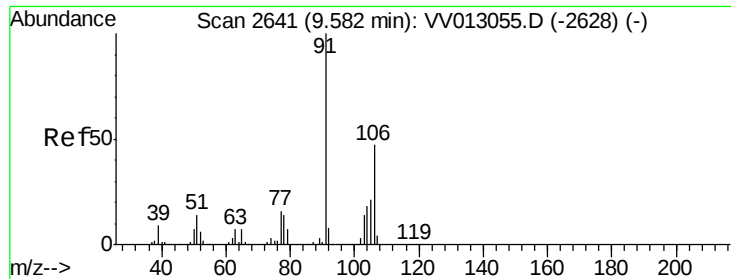
Tot Ion: 91 Resp: 1298156
Ion Ratio Lower Upper
91 100
106 31.1 21.8 40.4



#54
m,p-Xylene
Concen: 28.991 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. -0.00 min
Lab File: VV013063.D
Acq: 08 Oct 2019 16:35

Tgt Ion: 106 Resp: 499548
Ion Ratio Lower Upper
106 100
91 199.6 140.1 260.3





#55

o-xylene

Concen: 29.389 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

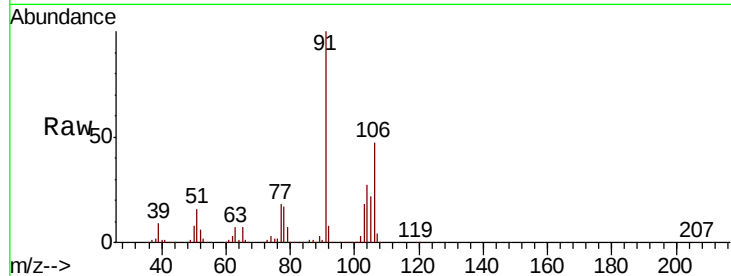
VSTD02587

Tot Ion:106 Resp: 482519

Ion Ratio Lower Upper

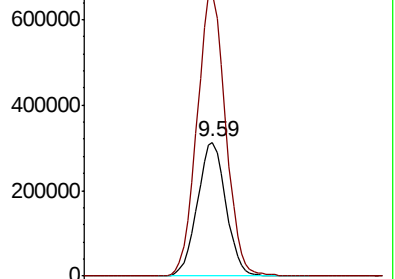
106 100

91 211.4 148.8 276.4

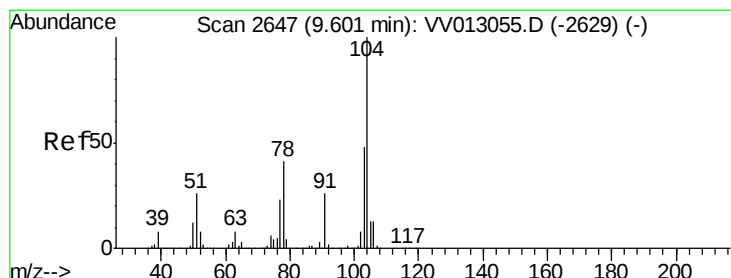
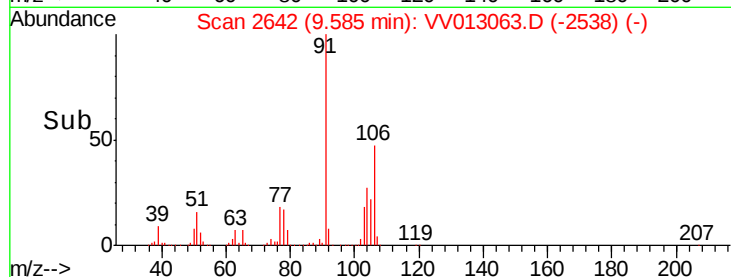


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



Time-->



#56

Styrene

Concen: 29.751 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013063.D

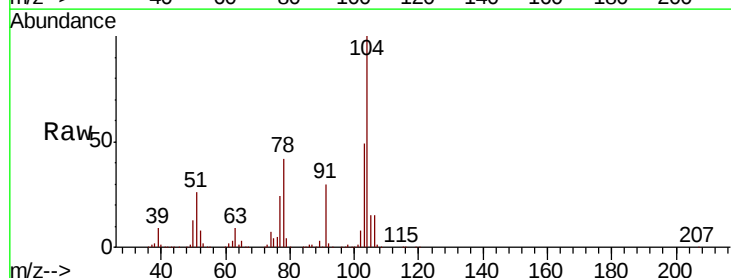
Acq: 08 Oct 2019 16:35

Tgt Ion:104 Resp: 859436

Ion Ratio Lower Upper

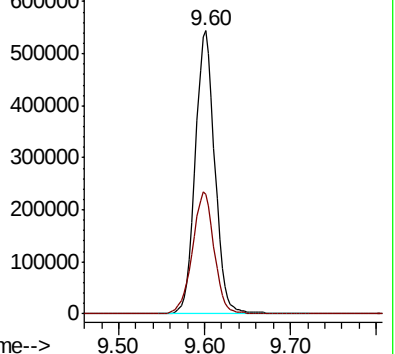
104 100

78 42.4 29.8 55.3

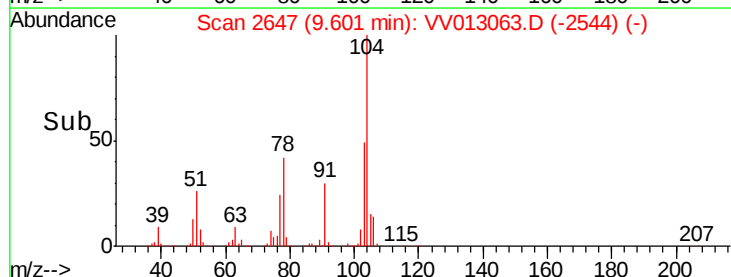


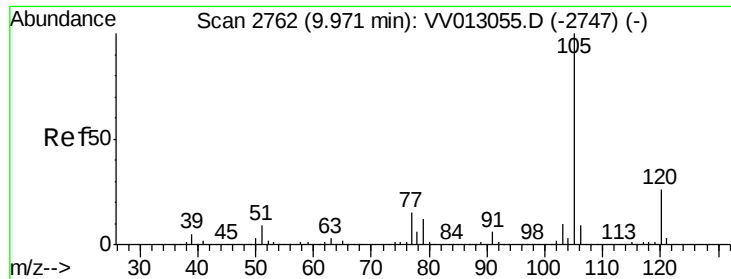
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



Time-->





#57

Isopropylbenzene

Concen: 29.548 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampled :

VSTD02587

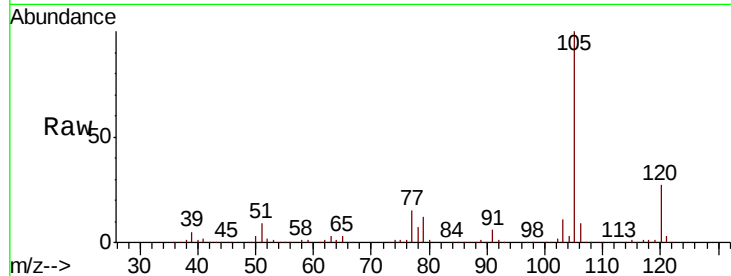
Tot Ion:105 Resp: 1274966

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.0

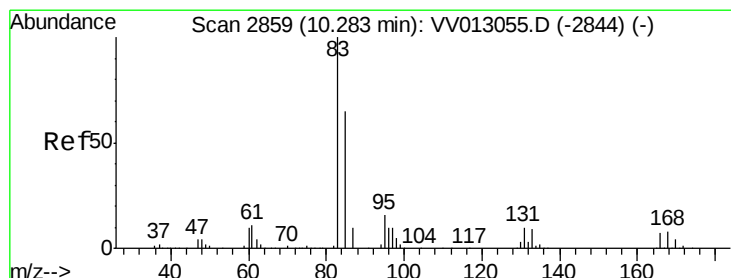
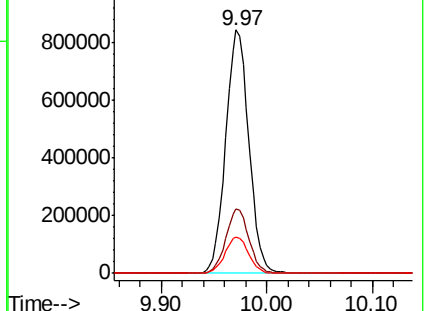
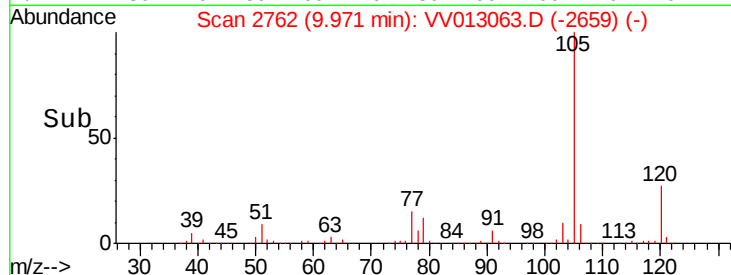
77 15.1 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.667 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

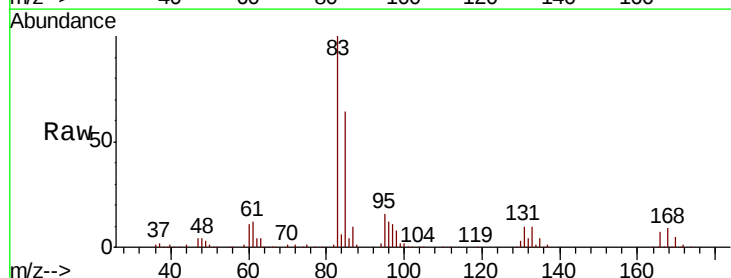
Tgt Ion: 83 Resp: 284247

Ion Ratio Lower Upper

83 100

85 64.2 45.4 84.2

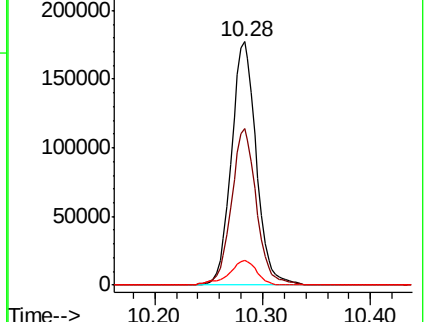
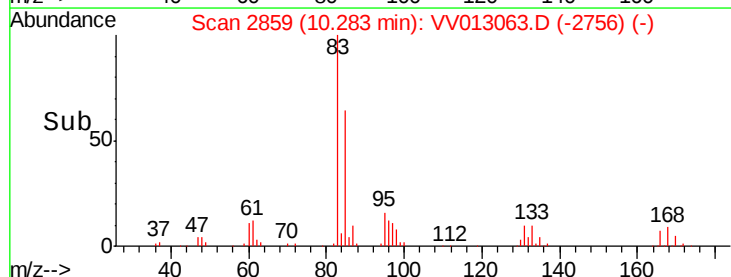
131 10.1 8.2 12.2

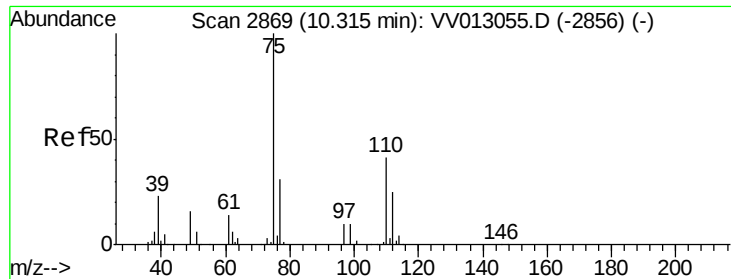


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

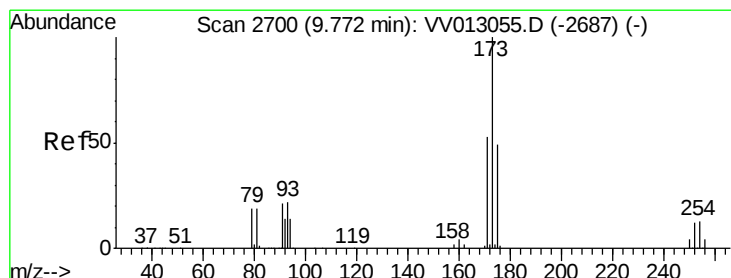
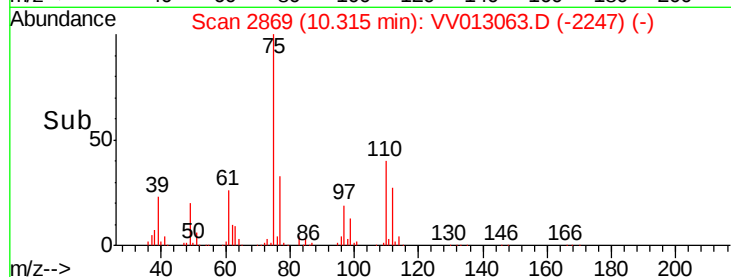
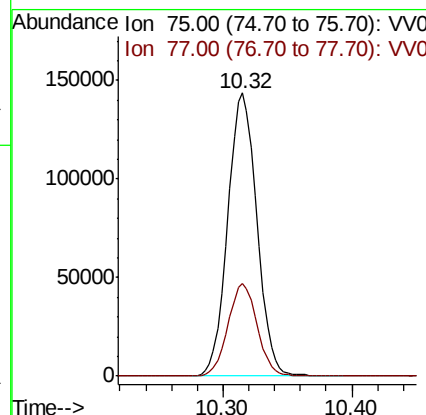
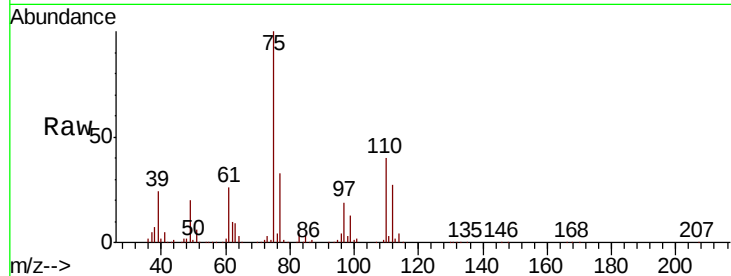




#59
 1,2,3-Trichloropropane
 Concen: 25.602 ug/L
 RT: 10.32 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

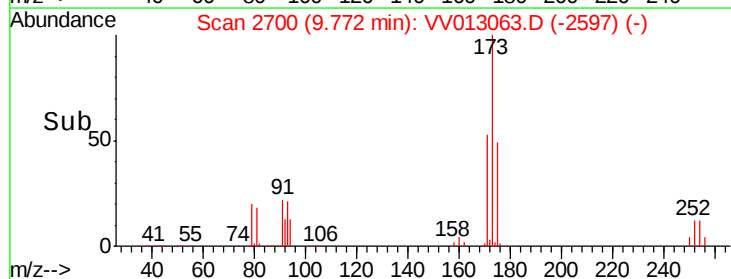
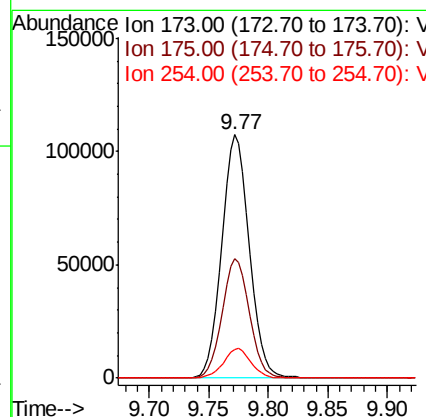
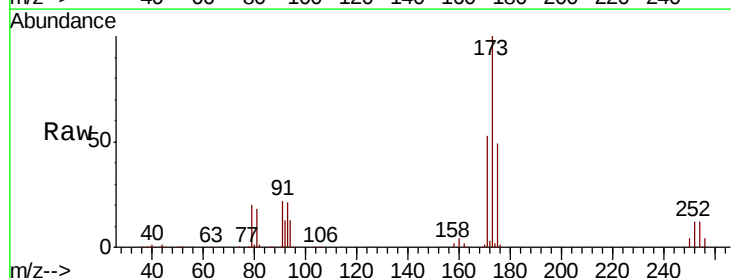
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

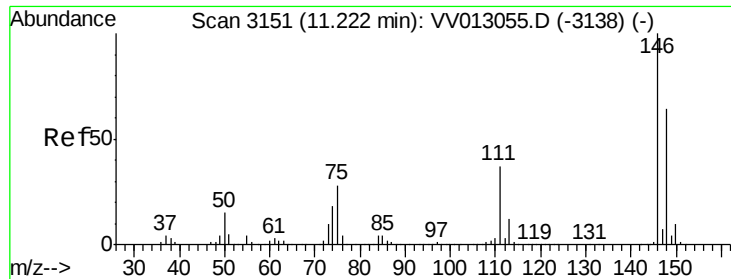
Tot Ion: 75 Resp: 225240
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.4 38.0



#62
 Bromoform
 Concen: 26.020 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 173 Resp: 172308
 Ion Ratio Lower Upper
 173 100
 175 48.7 39.5 59.3
 254 12.1 9.1 13.7

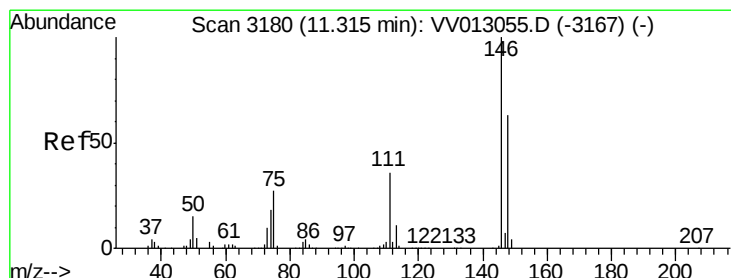
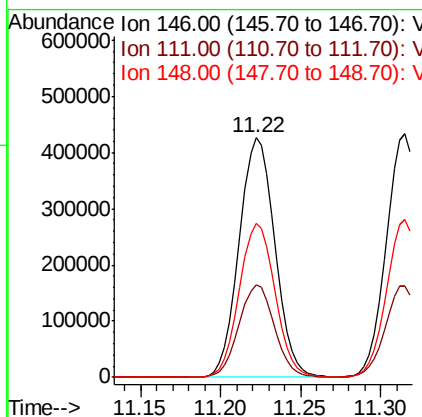
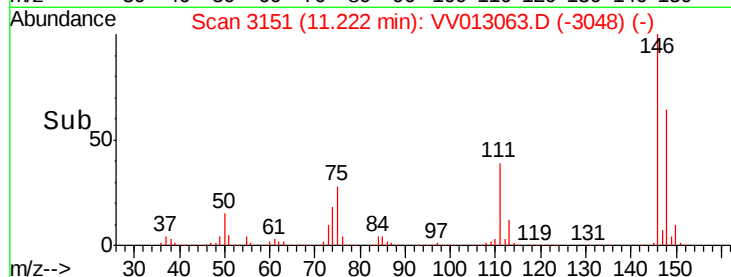
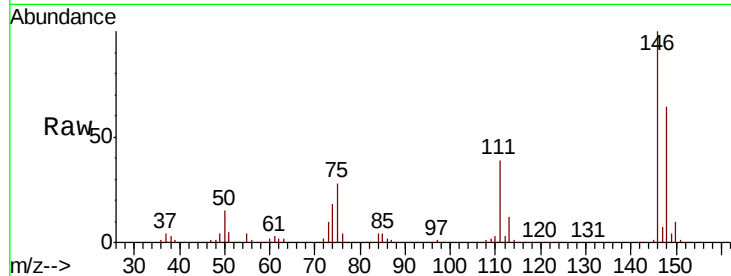




#63
 1,3-Dichlorobenzene
 Concen: 27.087 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

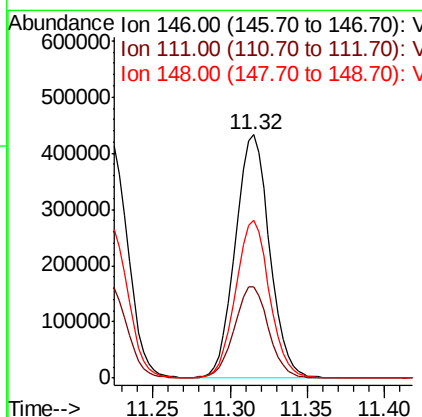
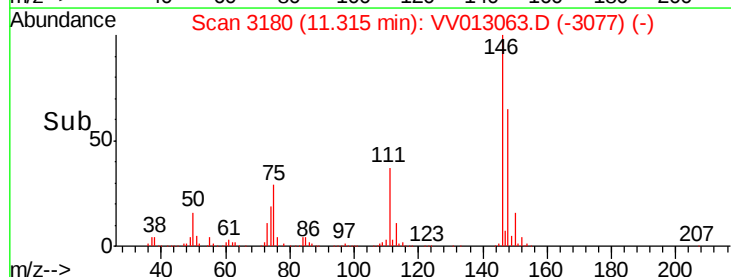
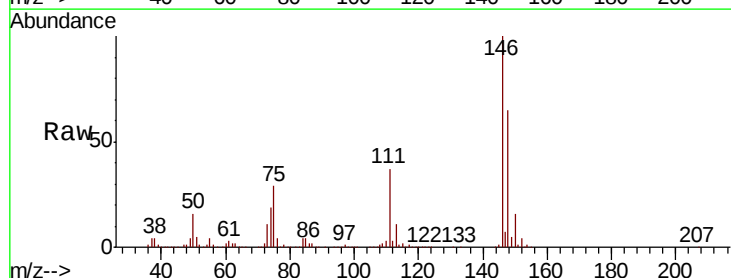
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

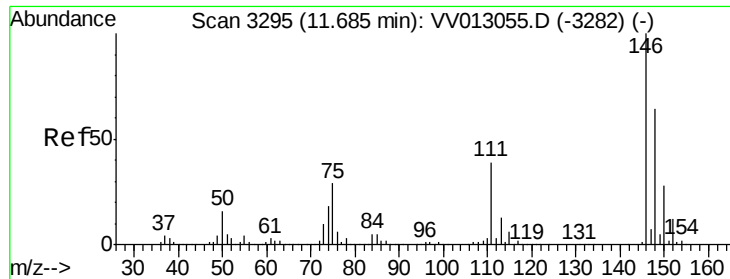
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	26.7	49.7
148	64.2	43.9	81.5



#64
 1,4-Dichlorobenzene
 Concen: 26.326 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	25.5	47.3
148	64.8	45.1	83.9

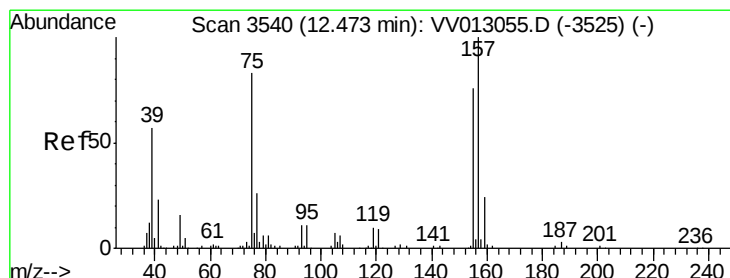
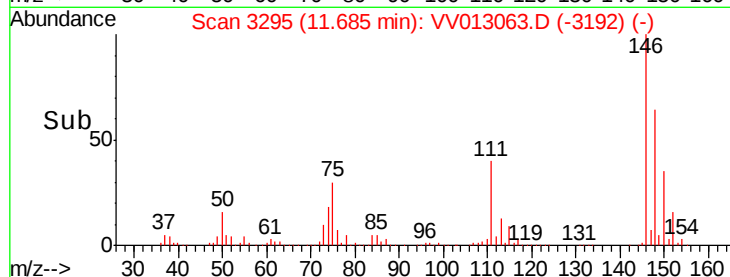
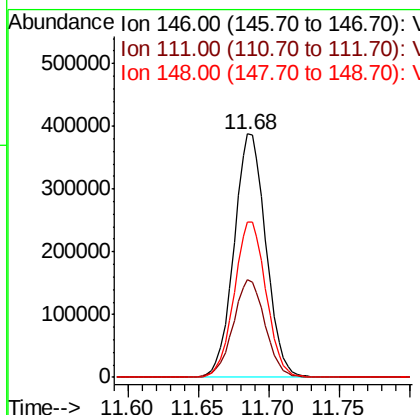
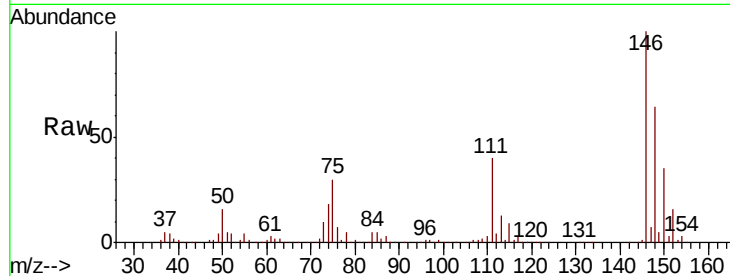




#65
 1,2-Dichlorobenzene
 Concen: 26.759 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

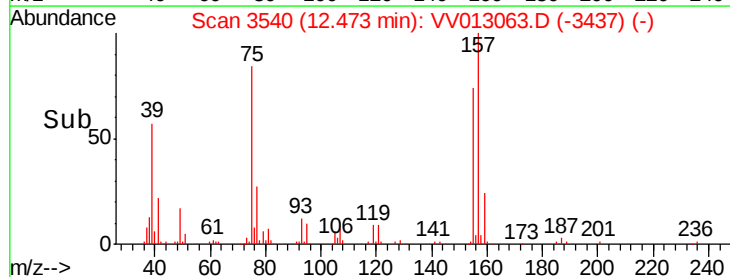
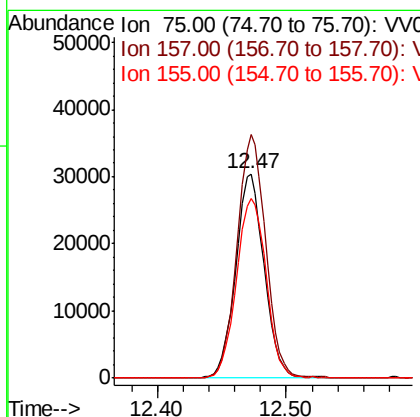
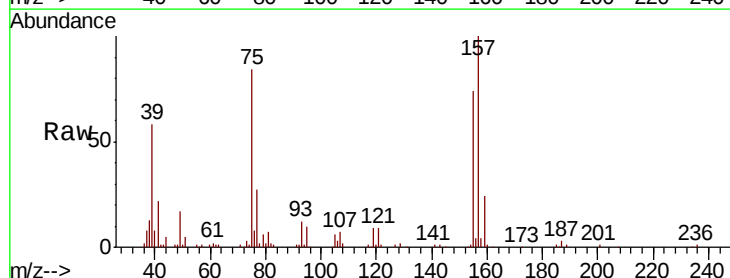
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

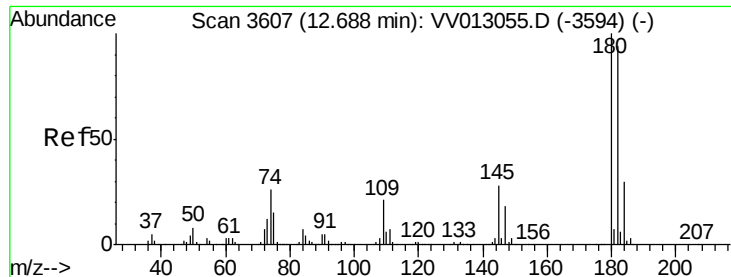
Tot Ion:146 Resp: 613101
 Ion Ratio Lower Upper
 146 100
 111 40.0 31.9 47.9
 148 64.0 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.913 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion: 75 Resp: 46544
 Ion Ratio Lower Upper
 75 100
 157 119.4 91.7 137.5
 155 88.1 70.8 106.2

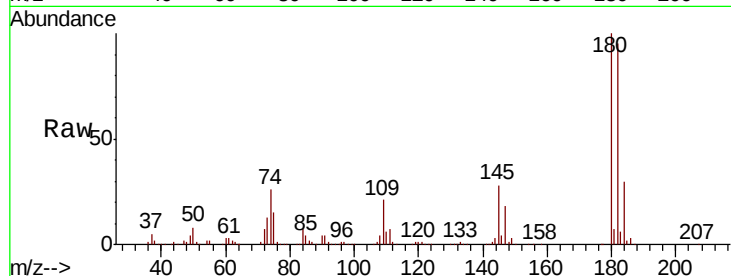




#67
 1,3,5-Trichlorobenzene
 Concen: 27.192 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02587

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.4	114.6
184	30.6	24.6	37.0
145	27.8	22.2	33.4



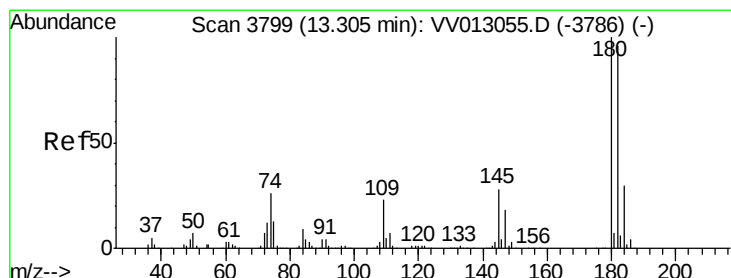
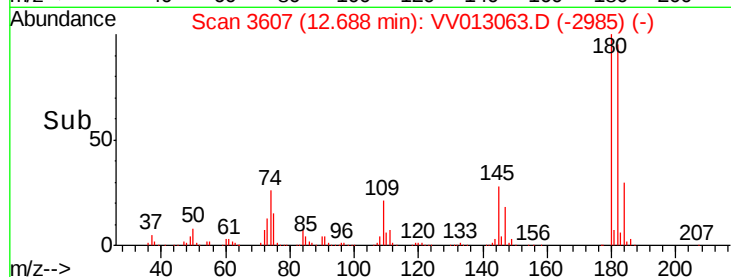
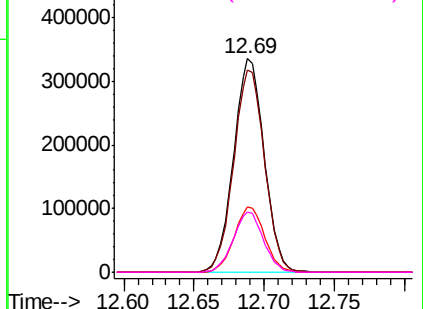
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

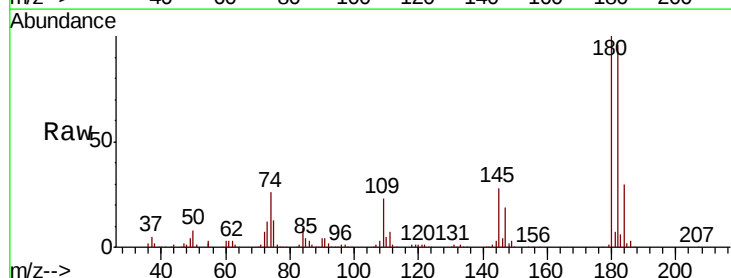
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.565 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013063.D
 Acq: 08 Oct 2019 16:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	28.1	22.6	34.0

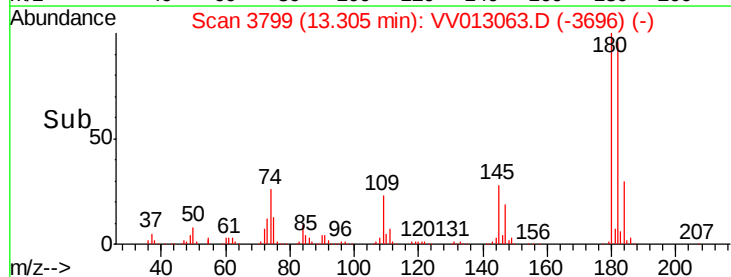
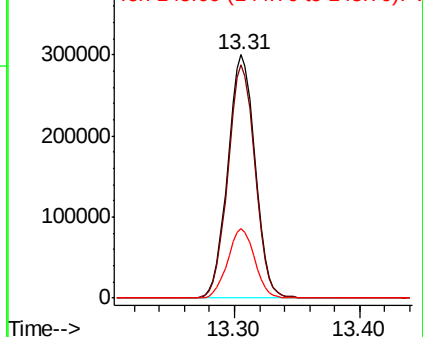


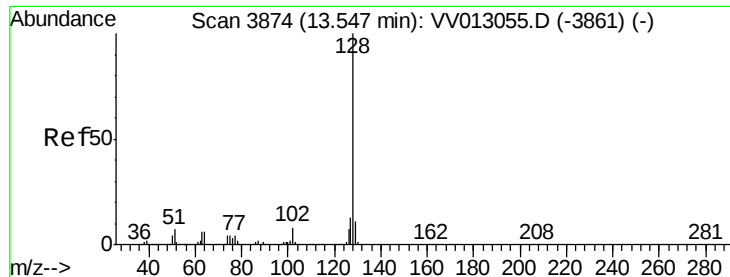
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 27.476 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

Instrument :

MSVOA_V

ClientSampleId :

VSTD02587

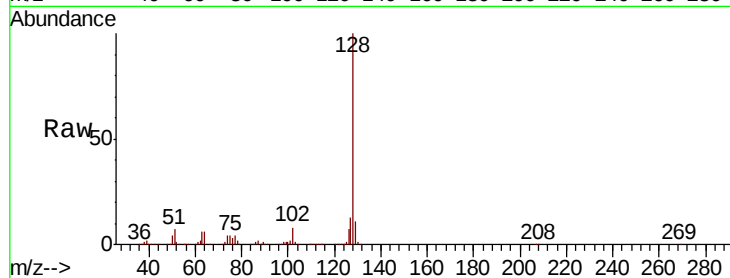
Tot Ion:128 Resp: 908043

Ion Ratio Lower Upper

128 100

129 10.7 8.7 13.1

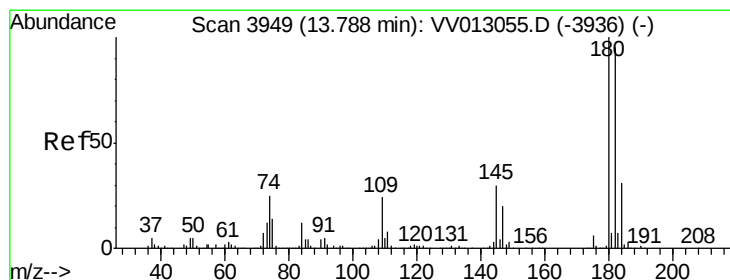
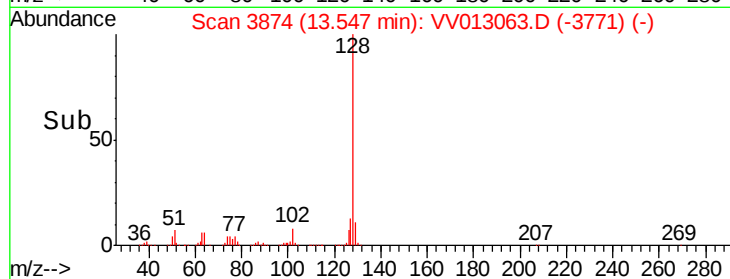
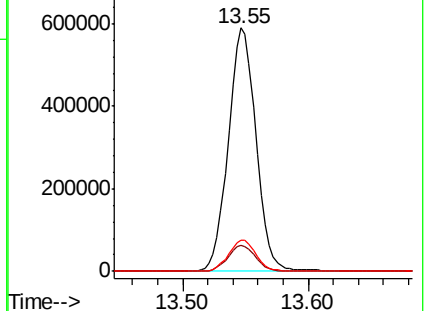
127 12.8 10.2 15.2



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: 28.428 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013063.D

Acq: 08 Oct 2019 16:35

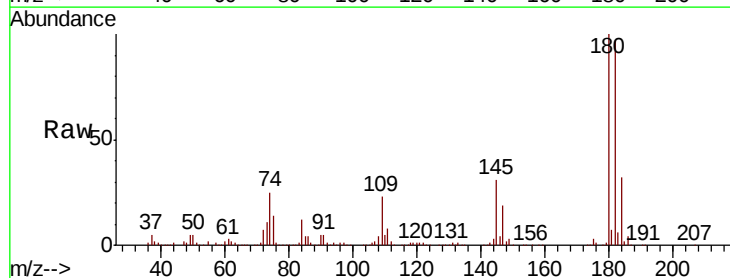
Tgt Ion:180 Resp: 449096

Ion Ratio Lower Upper

180 100

182 95.9 77.4 116.2

145 30.1 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

