

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080619\
 Data File : VU033611.D
 Acq On : 06 Aug 2019 16:09
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Quant Time: Aug 07 05:31:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 07 05:27:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	312538	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	312659	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	169946	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	81755	40.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	81.86%
7) Chloroethane-d5	1.67	69	76331	34.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	68.58%#
11) 1,1-Dichloroethene-d2	2.26	63	170347	44.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.08%
21) 2-Butanone-d5	4.14	46	161870	100.04	ug/L	-0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.04%
24) Chloroform-d	4.62	84	178049	46.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.66%
26) 1,2-Dichloroethane-d4	5.28	65	112583	46.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.90%
32) Benzene-d6	5.32	84	340274	44.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.00%
36) 1,2-Dichloropropane-d6	6.31	67	110617	45.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.40%
41) Toluene-d8	7.55	98	313480	44.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.12%
43) trans-1,3-Dichloropropene-	7.83	79	54974	45.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.32%
47) 2-Hexanone-d5	8.29	63	118720	99.20	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	99.20%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	185653	49.57	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.14%
64) 1,2-Dichlorobenzene-d4	11.84	152	138620	45.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.84%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	137463	51.434	ug/L 100
3) Chloromethane	1.32	50	144271	49.808	ug/L 99
5) Vinyl chloride	1.40	62	155963	49.212	ug/L 99
6) Bromomethane	1.61	94	99010	39.110	ug/L 98
8) Chloroethane	1.69	64	95537	38.335	ug/L 98
9) Trichlorofluoromethane	1.87	101	210794	51.000	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	107210	51.072	ug/L 99
12) 1,1-Dichloroethene	2.27	96	100750	49.356	ug/L 97
13) Acetone	2.30	43	161235	100.042	ug/L 99
14) Carbon disulfide	2.46	76	311618	49.248	ug/L 100
15) Methyl Acetate	2.60	43	130656	49.649	ug/L 100
16) Methylene chloride	2.68	84	122912	51.611	ug/L 99
17) trans-1,2-Dichloroethene	2.96	96	109064	50.081	ug/L 99
18) Methyl tert-butyl Ether	2.98	73	339299	50.310	ug/L 99
19) 1,1-Dichloroethane	3.42	63	210057	51.244	ug/L 97
20) cis-1,2-Dichloroethene	4.20	96	125422	52.214	ug/L 100
22) 2-Butanone	4.23	43	205902	101.711	ug/L 98

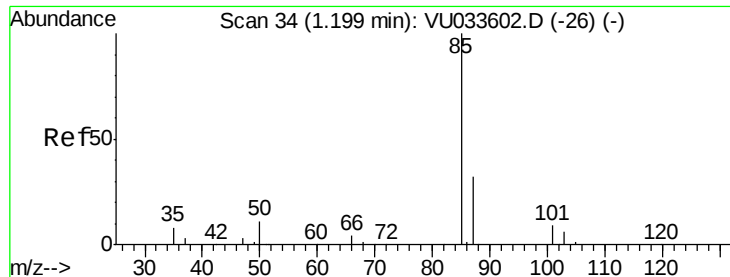
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU080619\
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 Quant Title : VOC Analysis
 QLast Update : Wed Aug 07 05:27:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	64311	51.199	ug/L	98
25) Chloroform	4.65	83	221093	52.200	ug/L	100
27) 1,2-Dichloroethane	5.38	62	170977	51.669	ug/L	99
29) Cyclohexane	4.97	56	176730	49.631	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	183668	50.218	ug/L	99
31) Carbon tetrachloride	5.11	117	162831	50.719	ug/L	100
33) Benzene	5.37	78	467844	50.265	ug/L	100
34) Trichloroethene	6.16	95	117828	49.150	ug/L	99
35) Methylcyclohexane	6.40	83	192007	50.877	ug/L	99
37) 1,2-Dichloropropane	6.41	63	127950	50.334	ug/L	100
38) Bromodichloromethane	6.74	83	163136	50.914	ug/L	100
39) cis-1,3-Dichloropropene	7.25	75	197099	50.987	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	358884	98.657	ug/L	99
42) Toluene	7.62	91	509038	51.191	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	177516	51.033	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	120982	50.866	ug/L	99
46) Tetrachloroethene	8.21	164	98786	50.225	ug/L	99
48) 2-Hexanone	8.34	43	295552	101.738	ug/L	99
49) Dibromochloromethane	8.46	129	135559	50.712	ug/L	97
50) 1,2-Dibromoethane	8.57	107	130690	50.168	ug/L	97
51) Chlorobenzene	9.10	112	323633	49.843	ug/L	100
52) Ethylbenzene	9.23	91	548143	50.842	ug/L	99
53) m,p-Xylene	9.36	106	212334	51.716	ug/L	100
54) o-xylene	9.76	106	206778	51.416	ug/L	96
55) Styrene	9.77	104	360829	52.838	ug/L	98
56) Isopropylbenzene	10.15	105	540272	52.074	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	214982	50.548	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	168414	50.584	ug/L	100
61) Bromoform	9.94	173	105659	49.937	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	264850	49.673	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	265543	48.750	ug/L	100
65) 1,2-Dichlorobenzene	11.86	146	264937	49.821	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	46970	46.868	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	197516	48.115	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	166716	47.608	ug/L	99
69) Naphthalene	13.73	128	491865	48.331	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	177668	47.695	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 51.434 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

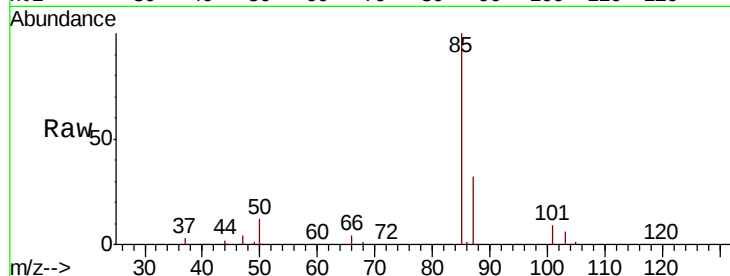
VSTD05050

Tgt Ion: 85 Resp: 137463

Ion Ratio Lower Upper

85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU033611.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU033611.D (-1) (-)

1.20

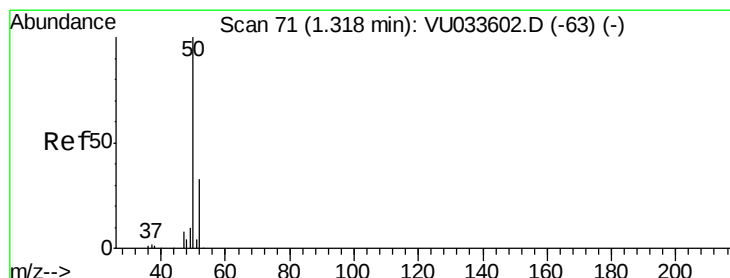
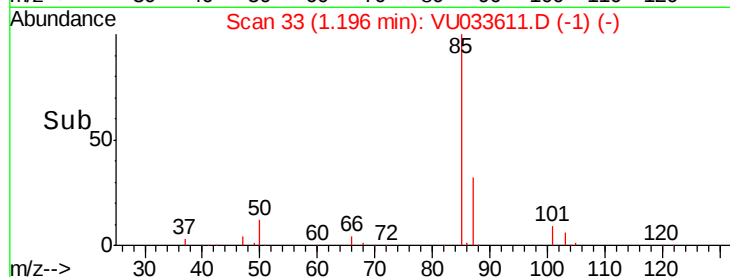
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.808 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033611.D

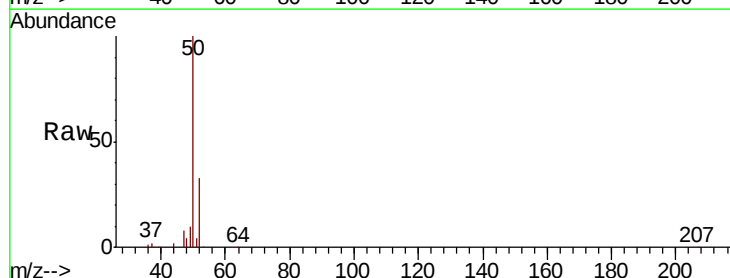
Acq: 06 Aug 2019 16:09

Tgt Ion: 50 Resp: 144271

Ion Ratio Lower Upper

50 100

52 33.4 23.6 43.8



Abundance Ion 50.00 (49.70 to 50.70): VU033611.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU033611.D (-1) (-)

1.32

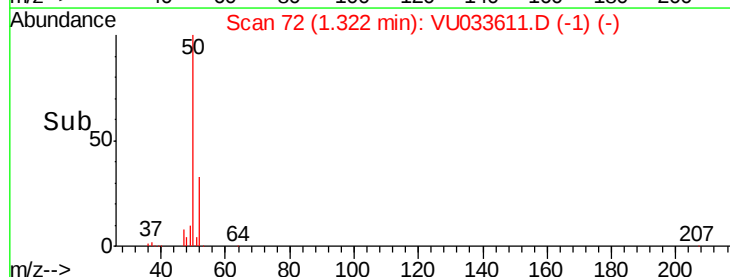
150000

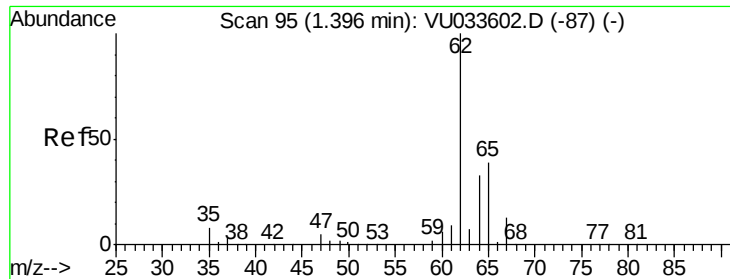
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.212 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

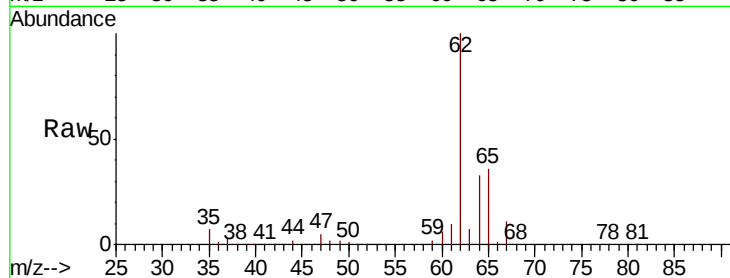
VSTD05050

Tgt Ion: 62 Resp: 155963

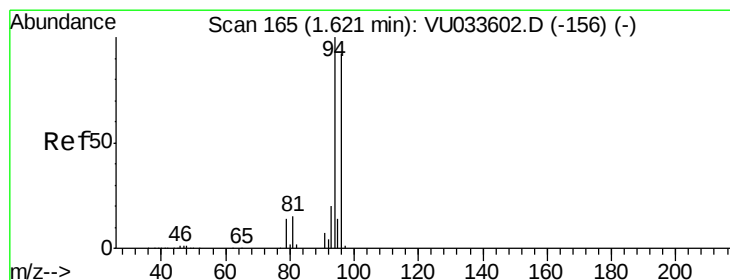
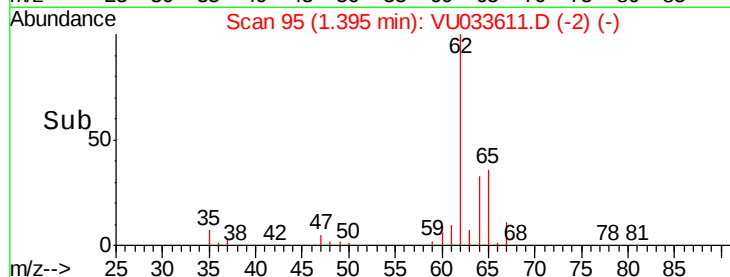
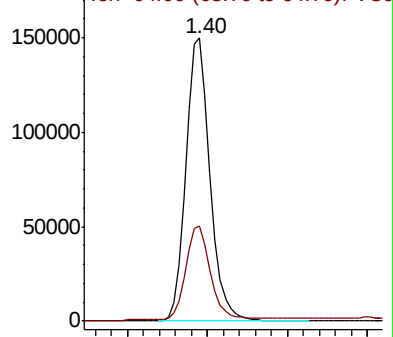
Ion Ratio Lower Upper

62 100

64 33.4 23.8 44.2



Abundance Ion 62.00 (61.70 to 62.70): VU033611.D (-2) (-)



#6

Bromomethane

Concen: 39.110 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033611.D

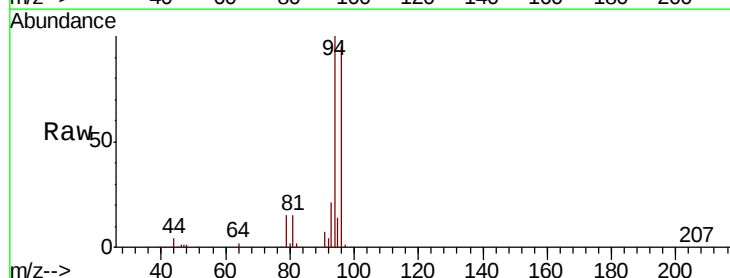
Acq: 06 Aug 2019 16:09

Tgt Ion: 94 Resp: 99010

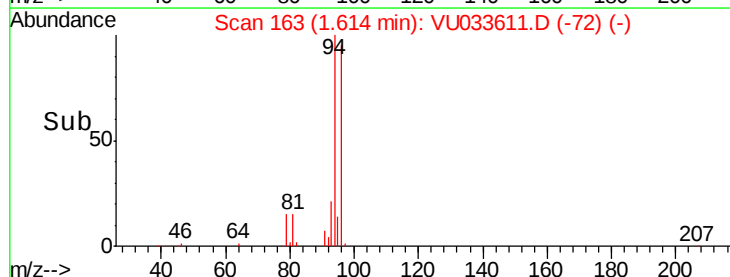
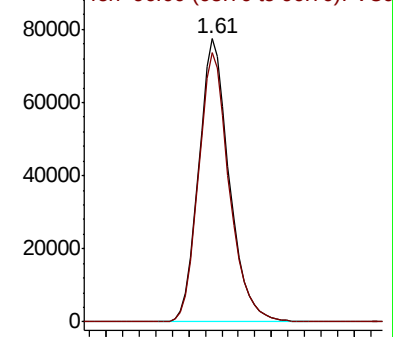
Ion Ratio Lower Upper

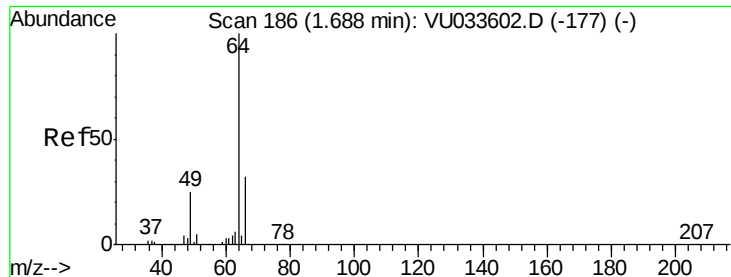
94 100

96 95.1 65.3 121.3



Abundance Ion 94.00 (93.70 to 94.70): VU033611.D (-72) (-)





#8

Chloroethane

Concen: 38.335 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

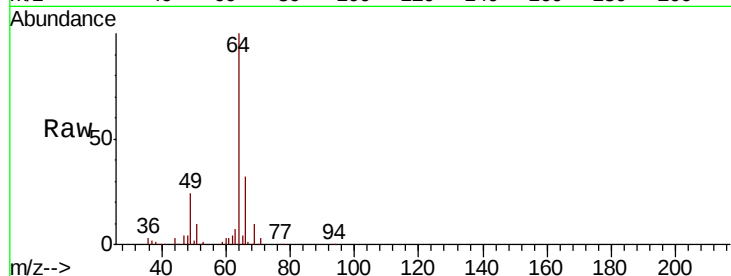
VSTD05050

Tgt Ion: 64 Resp: 95537

Ion Ratio Lower Upper

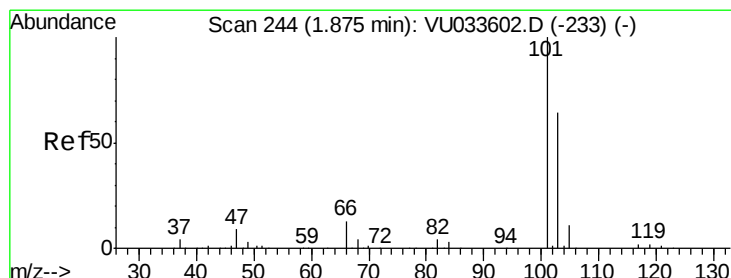
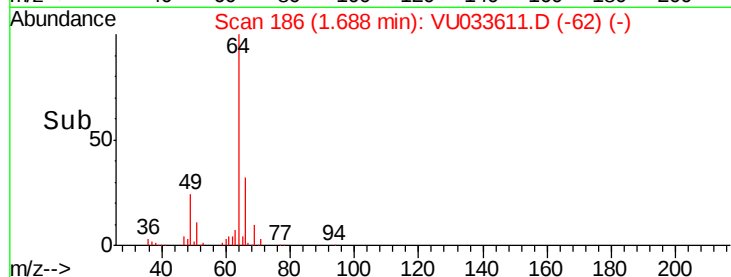
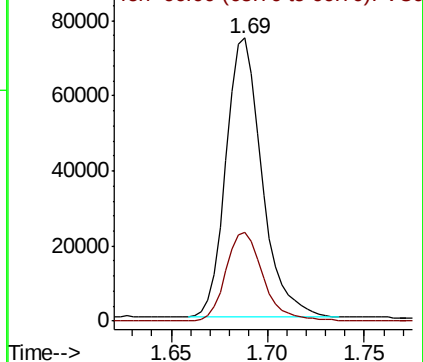
64 100

66 31.5 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VU033611.D (-120) (-)

Ion 66.00 (65.70 to 66.70): VU033611.D (-120) (-)



#9

Trichlorofluoromethane

Concen: 51.000 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033611.D

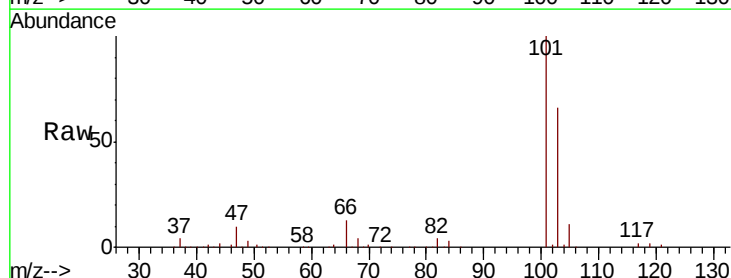
Acq: 06 Aug 2019 16:09

Tgt Ion: 101 Resp: 210794

Ion Ratio Lower Upper

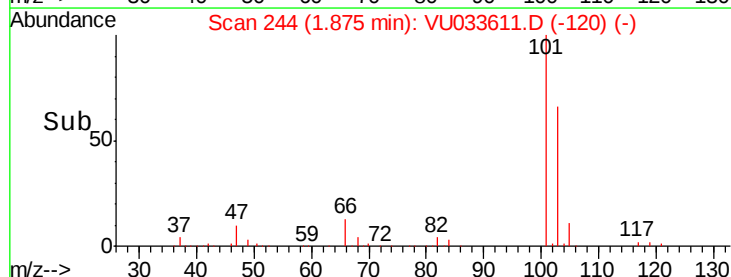
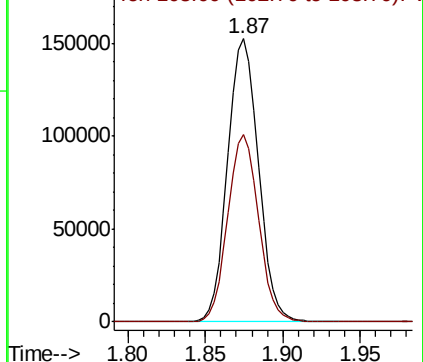
101 100

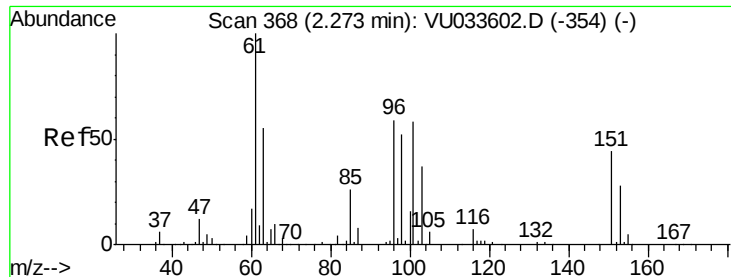
103 66.0 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU033611.D (-120) (-)

Ion 103.00 (102.70 to 103.70): VU033611.D (-120) (-)





#10

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

Concen: 51.072 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

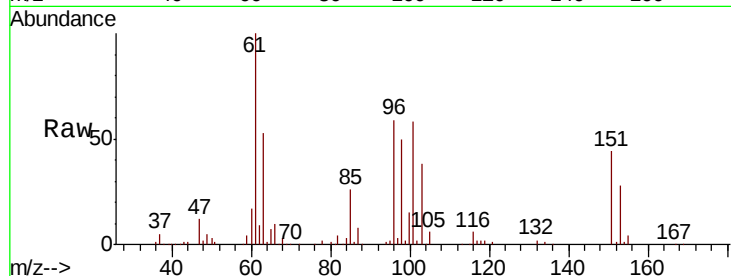
Tgt Ion: 101 Resp: 107210

Ion Ratio Lower Upper

101 100

85 45.0 34.3 51.5

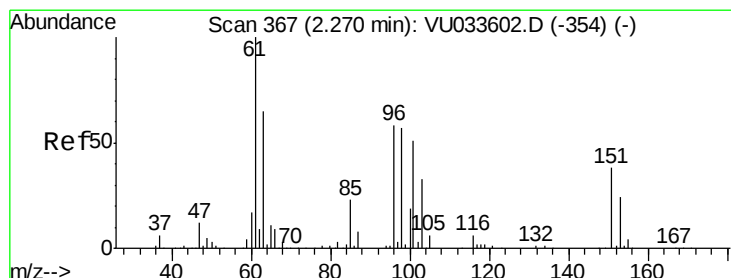
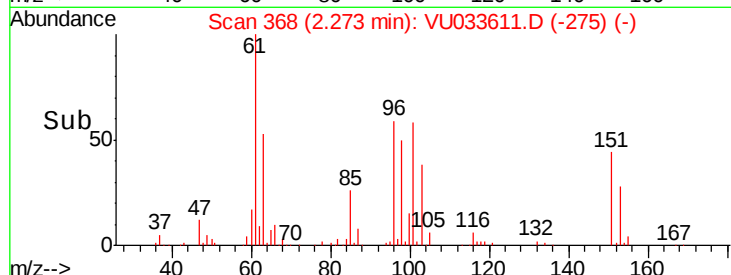
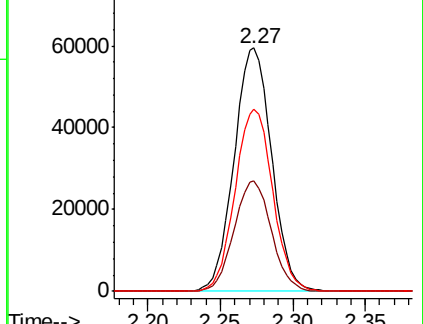
151 74.9 60.2 90.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 49.356 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

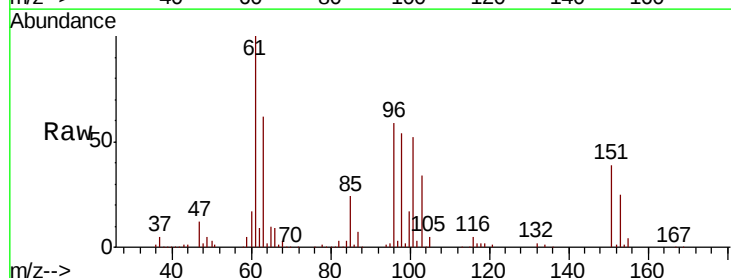
Tgt Ion: 96 Resp: 100750

Ion Ratio Lower Upper

96 100

61 170.5 119.1 221.3

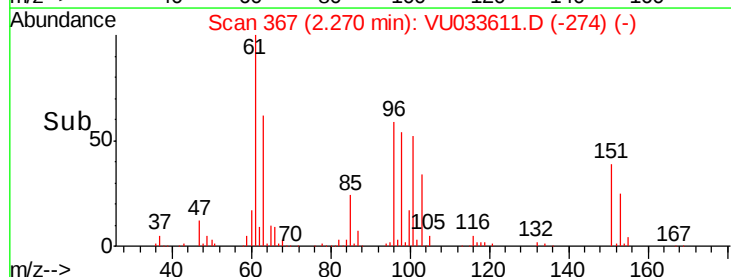
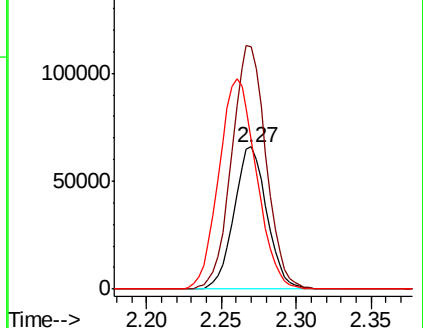
63 105.0 77.9 144.7

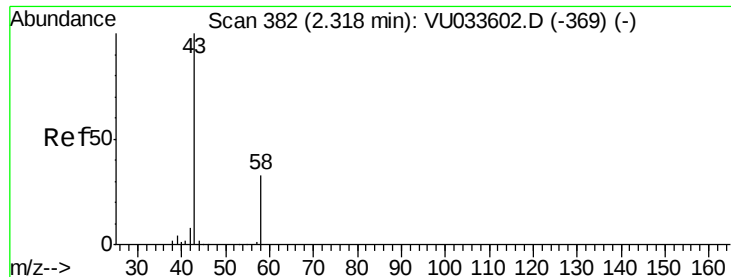


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.042 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.02 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

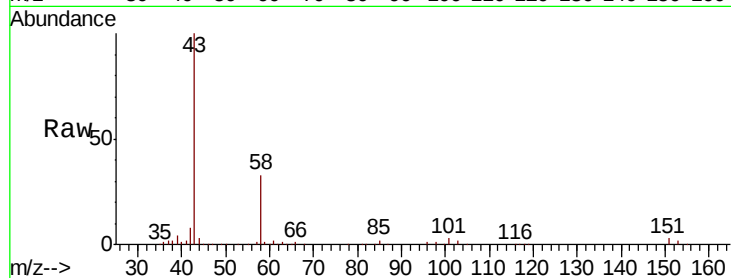
VSTD05050

Tgt Ion: 43 Resp: 161235

Ion Ratio Lower Upper

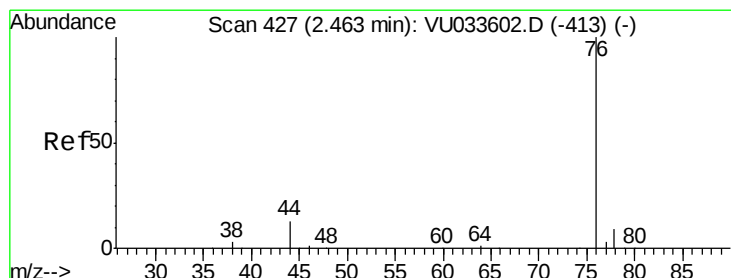
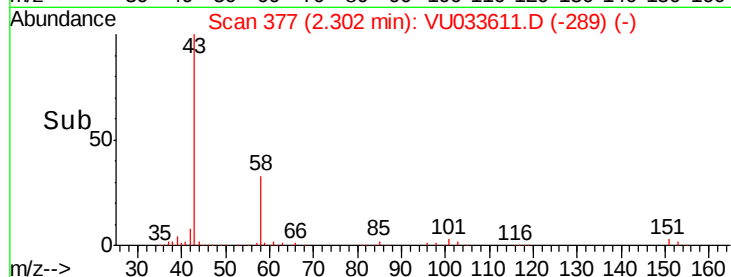
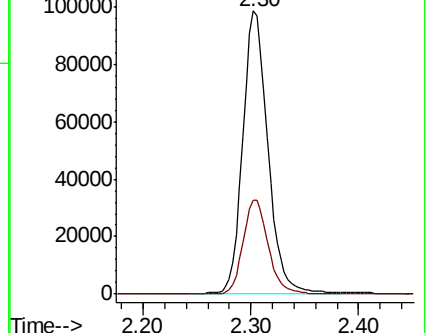
43 100

58 33.2 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033611.D (-377) (-)

Ion 58.00 (57.70 to 58.70): VU033611.D (-377) (-)



#14

Carbon disulfide

Concen: 49.248 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033611.D

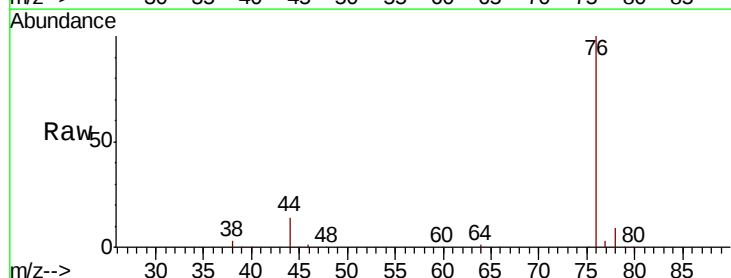
Acq: 06 Aug 2019 16:09

Tgt Ion: 76 Resp: 311618

Ion Ratio Lower Upper

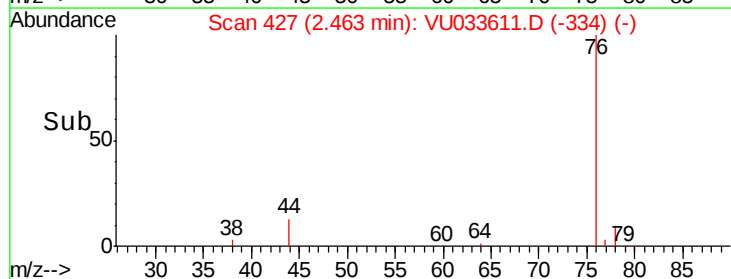
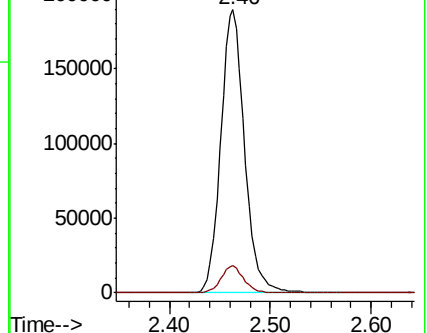
76 100

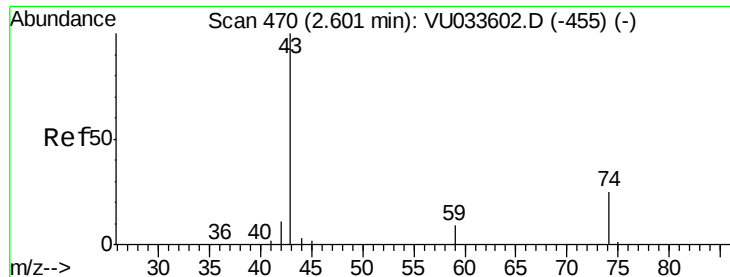
78 9.5 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033611.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033611.D (-427) (-)





#15

Methyl Acetate

Concen: 49.649 ug/L

RT: 2.60 min Scan# 469

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

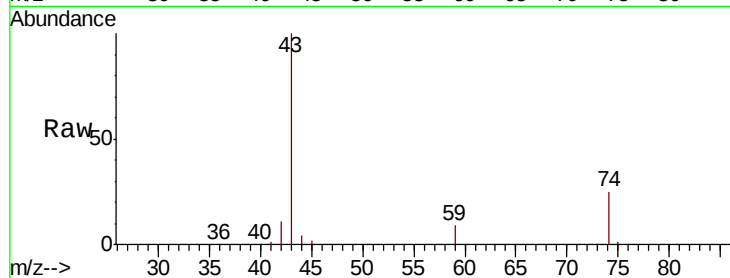
VSTD05050

Tgt Ion: 43 Resp: 130656

Ion Ratio Lower Upper

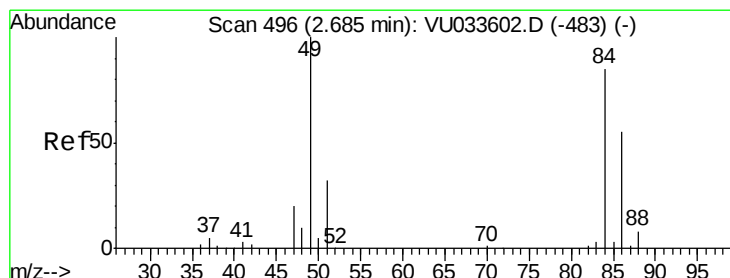
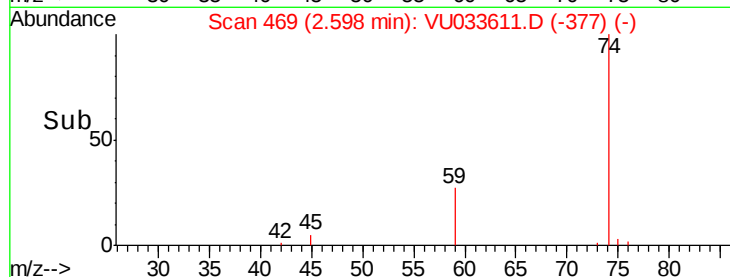
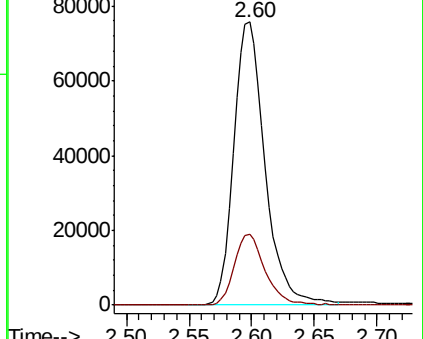
43 100

74 24.6 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VU033611.D (-377) (-)

Ion 74.00 (73.70 to 74.70): VU033611.D (-377) (-)



#16

Methylene chloride

Concen: 51.611 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

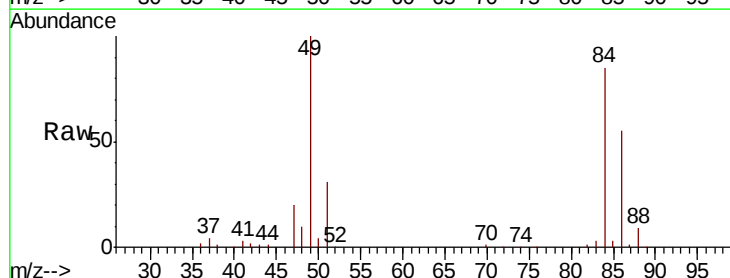
Tgt Ion: 84 Resp: 122912

Ion Ratio Lower Upper

84 100

86 64.5 44.9 83.5

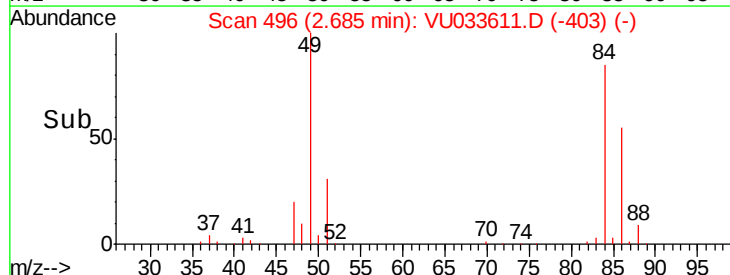
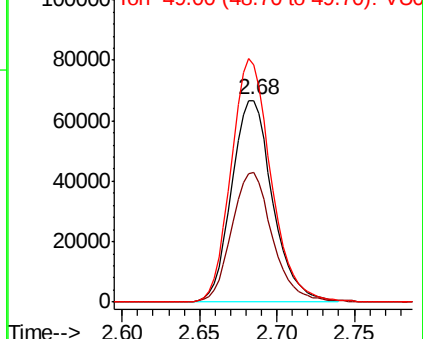
49 118.0 83.4 155.0

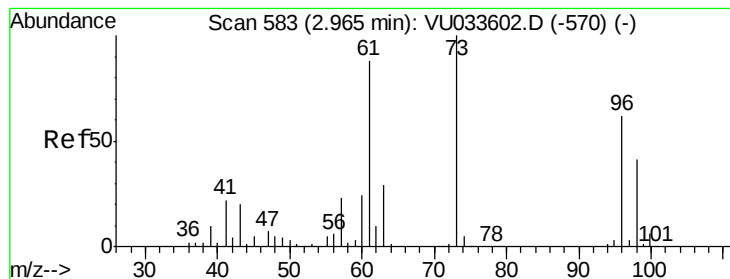


Abundance Ion 84.00 (83.70 to 84.70): VU033611.D (-403) (-)

Ion 86.00 (85.70 to 86.70): VU033611.D (-403) (-)

Ion 49.00 (48.70 to 49.70): VU033611.D (-403) (-)





#17

trans-1,2-Dichloroethene

Concen: 50.081 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampled :

VSTD05050

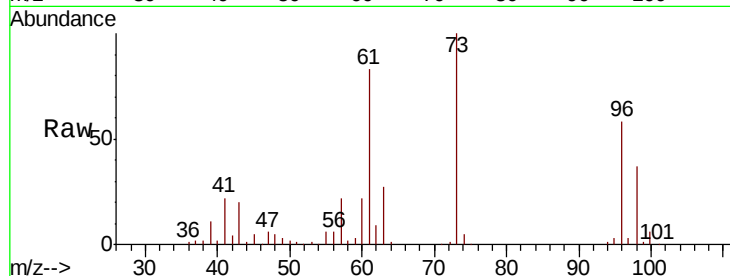
Tgt Ion: 96 Resp: 109064

Ion Ratio Lower Upper

96 100

61 143.1 98.8 183.4

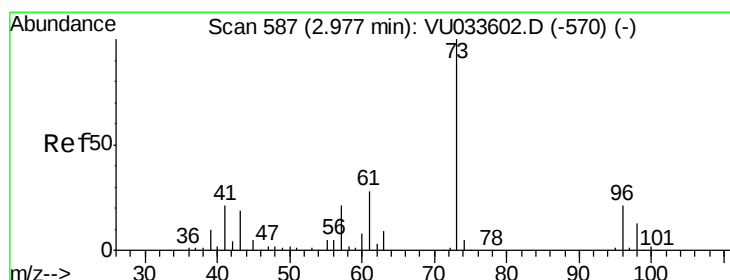
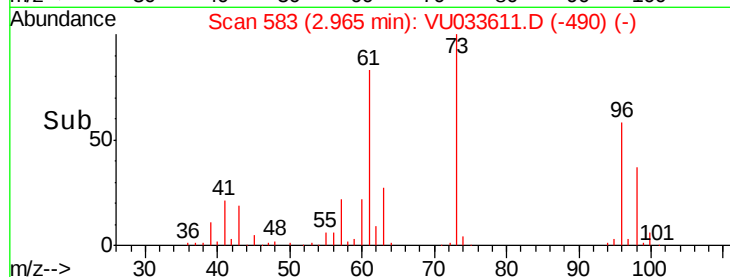
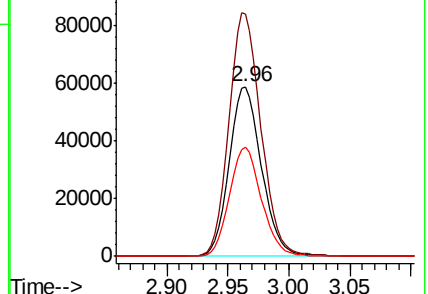
98 64.6 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU033611.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033611.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033611.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 50.310 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

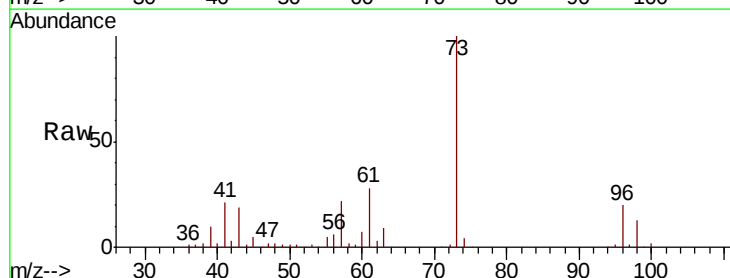
Tgt Ion: 73 Resp: 339299

Ion Ratio Lower Upper

73 100

43 19.3 15.8 23.6

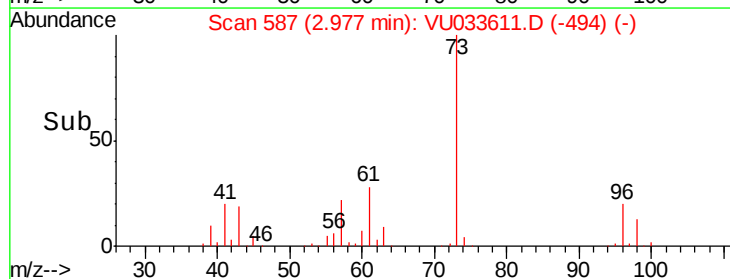
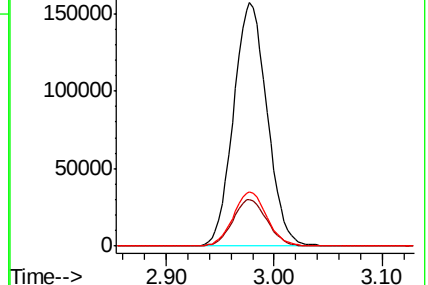
57 22.2 17.5 26.3

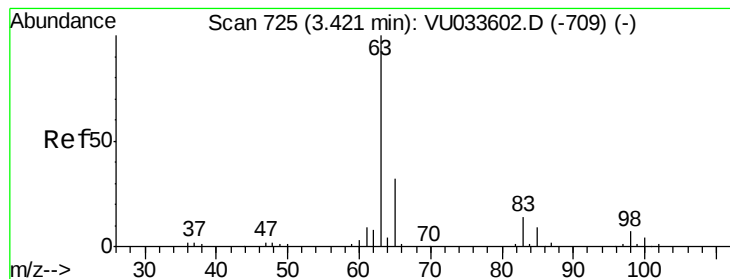


Abundance Ion 73.00 (72.70 to 73.70): VU033611.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033611.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033611.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 51.244 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

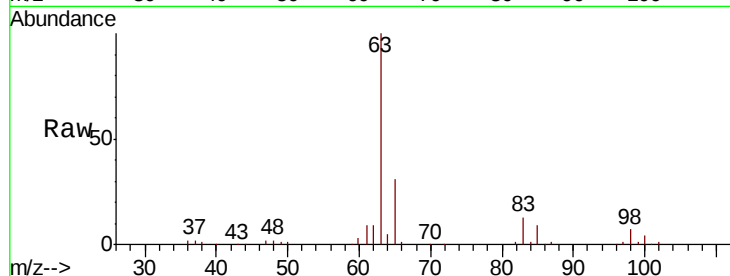
Tgt Ion: 63 Resp: 210057

Ion Ratio Lower Upper

63 100

65 30.8 22.9 42.5

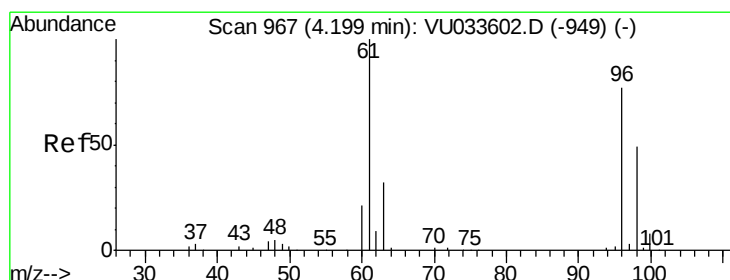
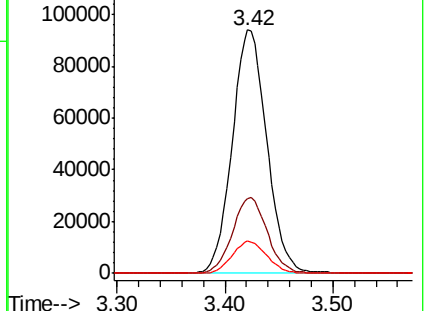
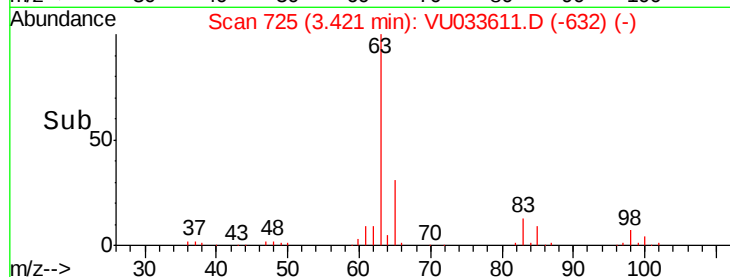
83 13.1 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU033611.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033611.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033611.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.214 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

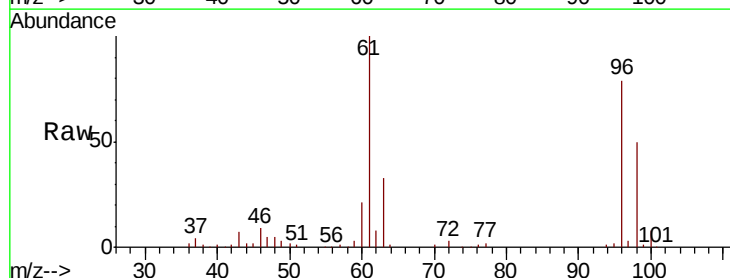
Tgt Ion: 96 Resp: 125422

Ion Ratio Lower Upper

96 100

61 126.4 88.2 163.8

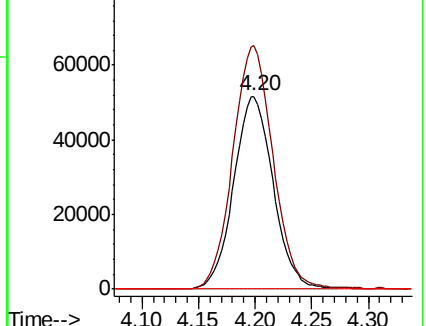
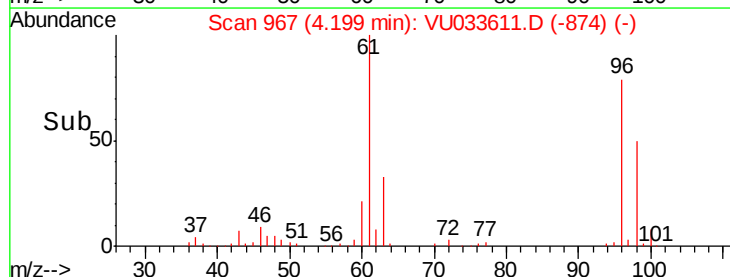
68 0.0 0.0 0.0

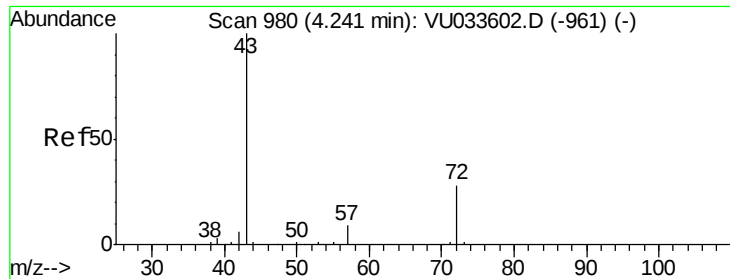


Abundance Ion 96.00 (95.70 to 96.70): VU033611.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033611.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033611.D (-874) (-)





#22

2-Butanone

Concen: 101.711 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

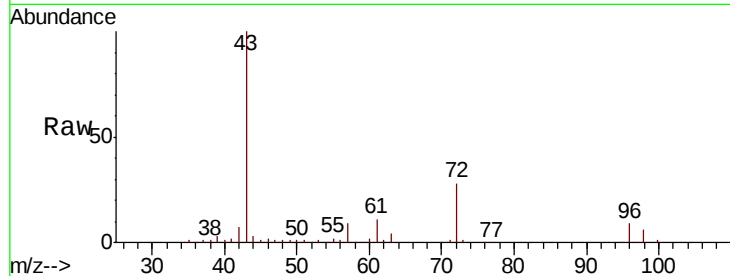
VSTD05050

Tgt Ion: 43 Resp: 205902

Ion Ratio Lower Upper

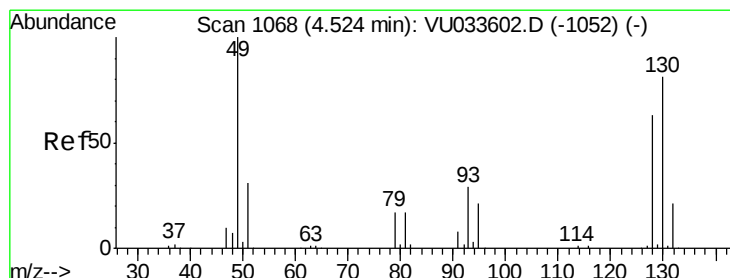
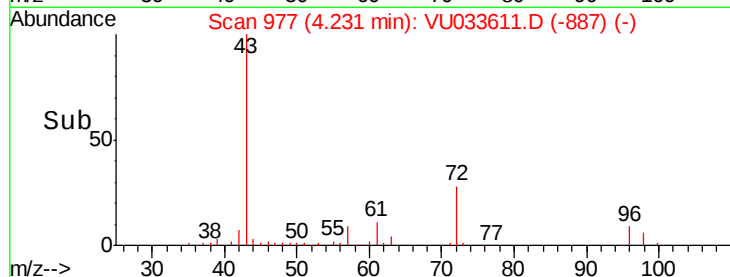
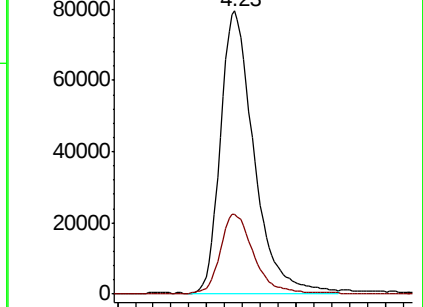
43 100

72 28.5 13.8 41.4



Abundance Ion 43.00 (42.70 to 43.70): VU033611.D (-887) (-)

Ion 72.00 (71.70 to 72.70): VU033611.D (-887) (-)



#23

Bromochloromethane

Concen: 51.199 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Tgt Ion: 128 Resp: 64311

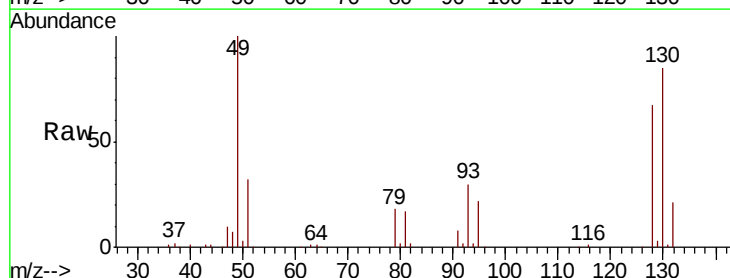
Ion Ratio Lower Upper

128 100

49 150.0 108.1 200.9

130 127.6 89.0 165.4

51 48.1 38.8 58.2

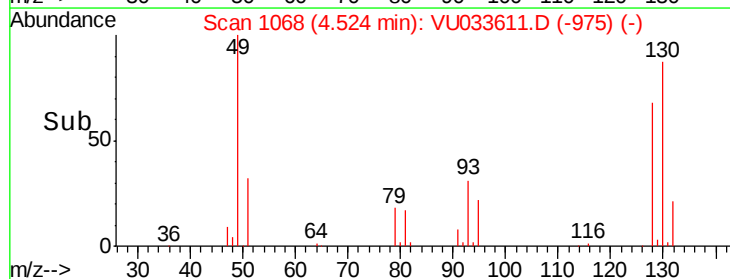
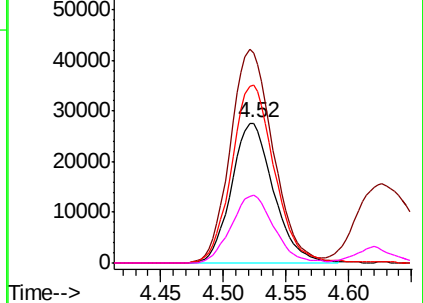


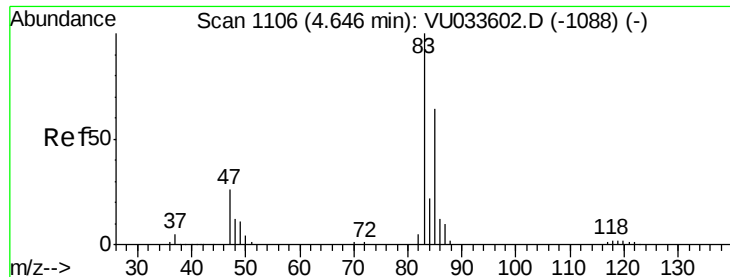
Abundance Ion 128.00 (127.70 to 128.70): VU033611.D (-975) (-)

Ion 49.00 (48.70 to 49.70): VU033611.D (-975) (-)

Ion 130.00 (129.70 to 130.70): VU033611.D (-975) (-)

Ion 51.00 (50.70 to 51.70): VU033611.D (-975) (-)





#25

Chloroform

Concen: 52.200 ug/L

RT: 4.65 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

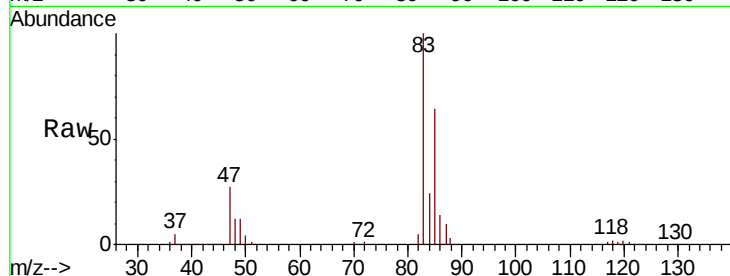
VSTD05050

Tgt Ion: 83 Resp: 221093

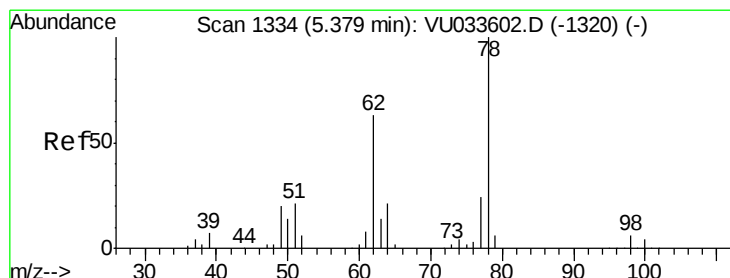
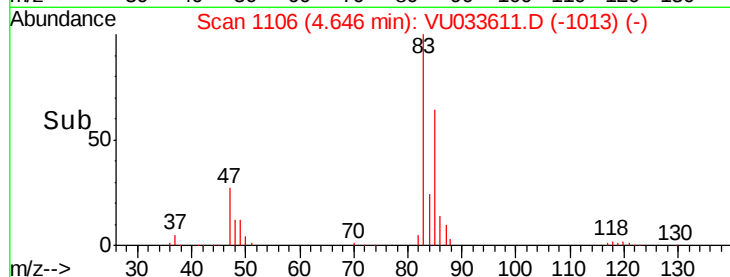
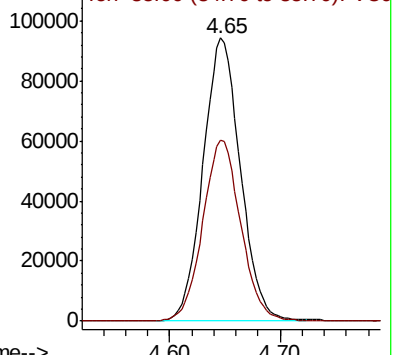
Ion Ratio Lower Upper

83 100

85 64.2 44.9 83.3



Abundance Ion 83.00 (82.70 to 83.70): VU033611.D (-1013) (-)



#27

1,2-Dichloroethane

Concen: 51.669 ug/L

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VU033611.D

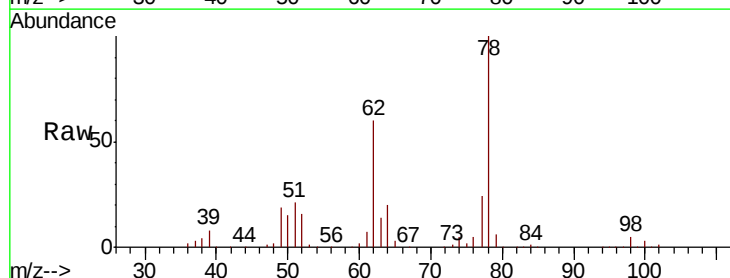
Acq: 06 Aug 2019 16:09

Tgt Ion: 62 Resp: 170977

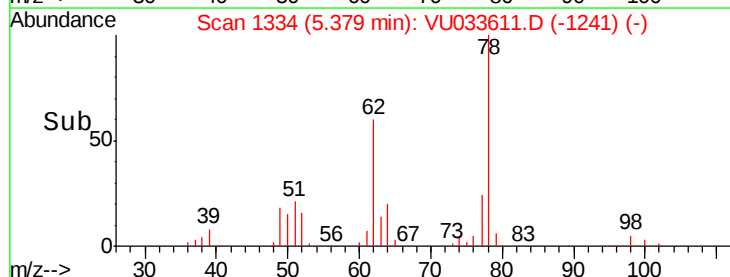
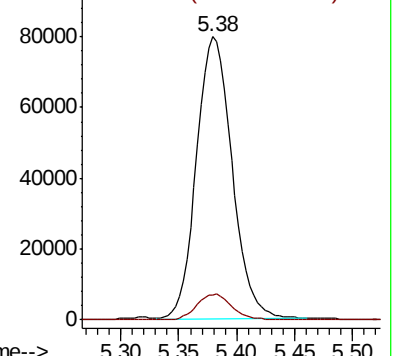
Ion Ratio Lower Upper

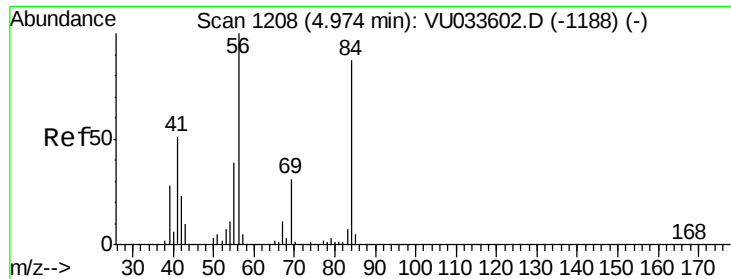
62 100

98 9.0 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VU033611.D (-1241) (-)

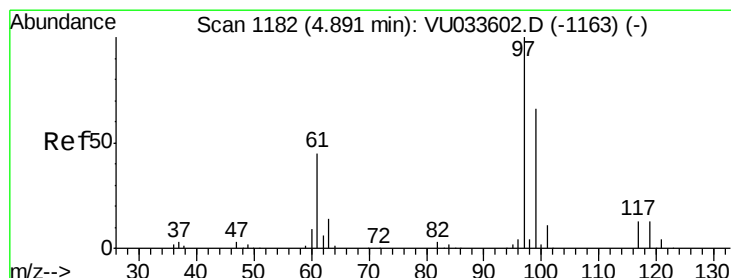
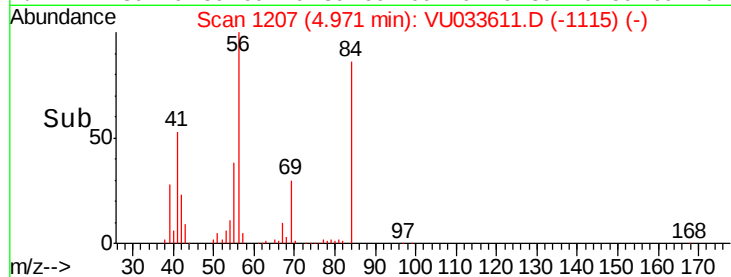
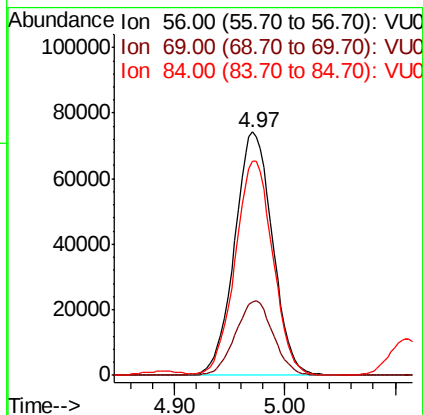
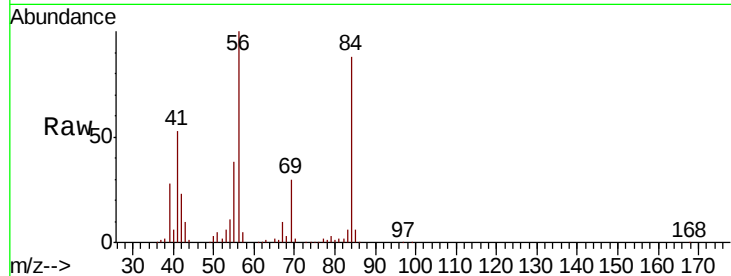




#29
Cyclohexane
Concen: 49.631 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

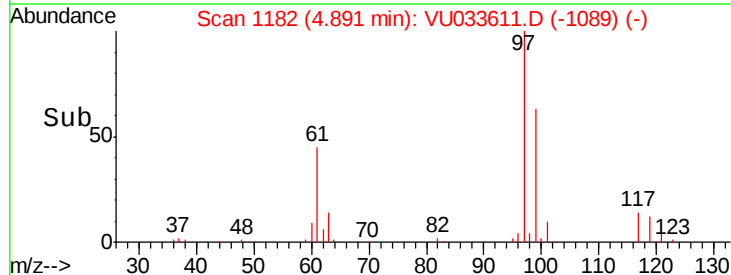
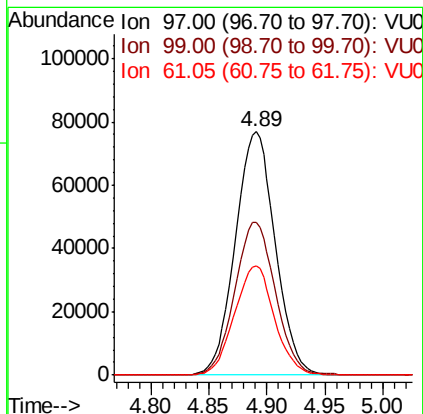
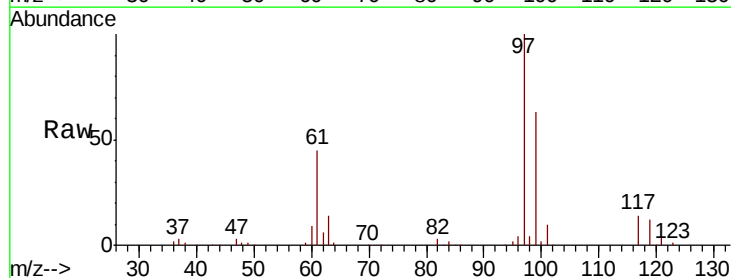
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

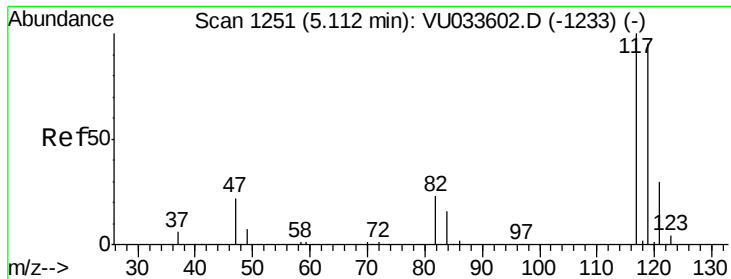
Tgt Ion: 56 Resp: 176730
Ion Ratio Lower Upper
56 100
69 30.5 24.7 37.1
84 87.7 69.8 104.8



#30
1,1,1-Trichloroethane
Concen: 50.218 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

Tgt Ion: 97 Resp: 183668
Ion Ratio Lower Upper
97 100
99 64.0 51.8 77.6
61 44.9 36.2 54.2





#31

Carbon tetrachloride

Concen: 50.719 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

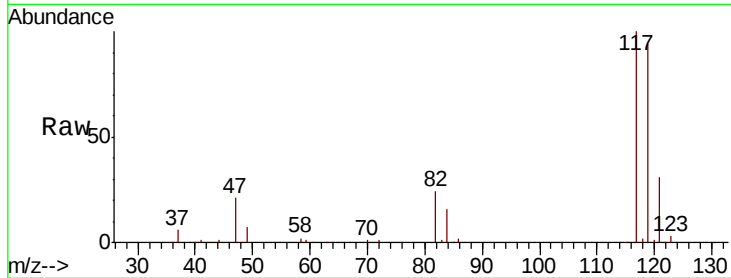
VSTD05050

Tgt Ion:117 Resp: 162831

Ion Ratio Lower Upper

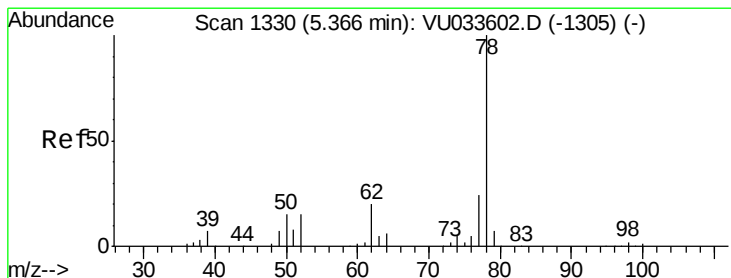
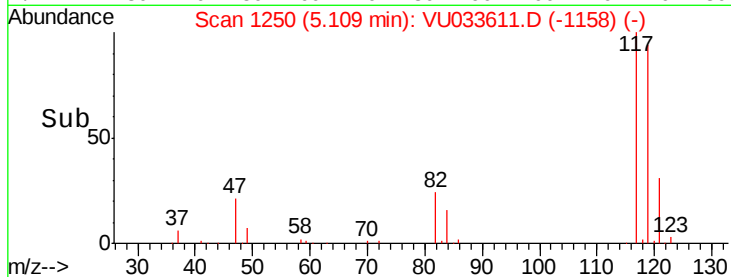
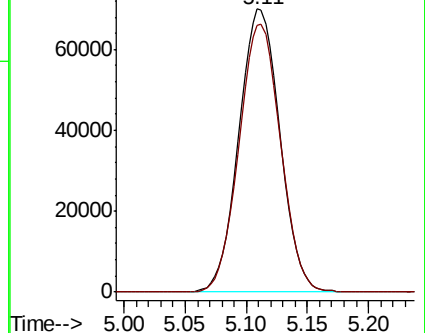
117 100

119 95.9 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.265 ug/L

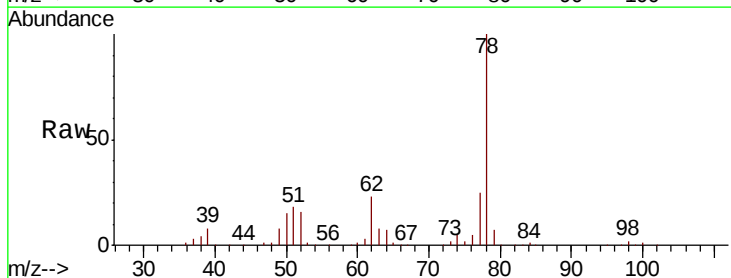
RT: 5.37 min Scan# 1330

Delta R.T. -0.00 min

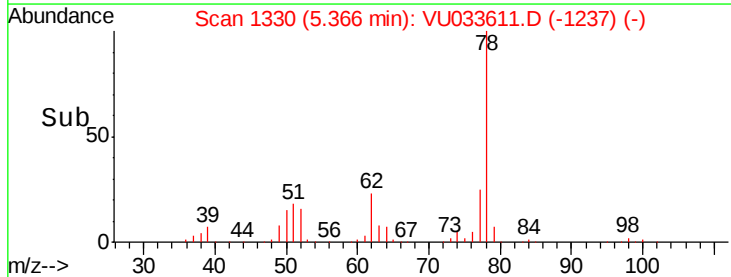
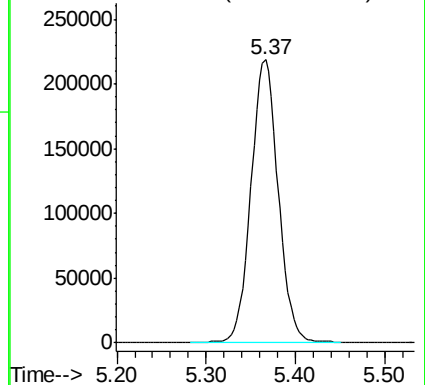
Lab File: VU033611.D

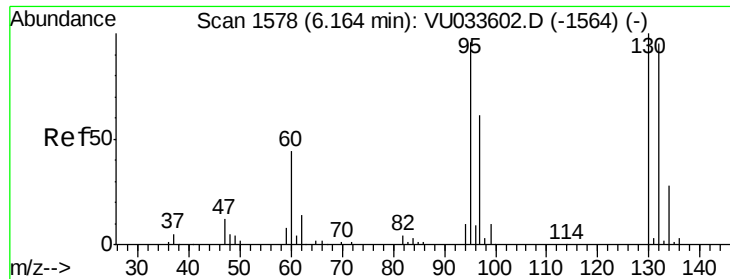
Acq: 06 Aug 2019 16:09

Tgt Ion: 78 Resp: 467844



Abundance Ion 78.00 (77.70 to 78.70): VU0

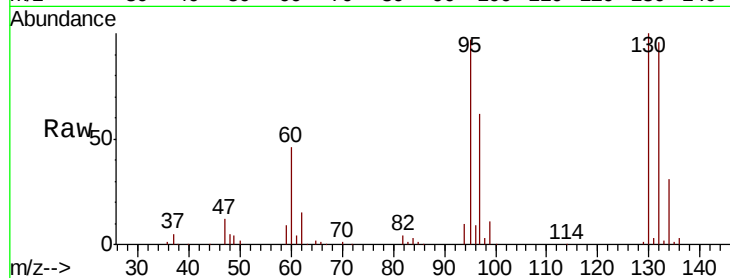




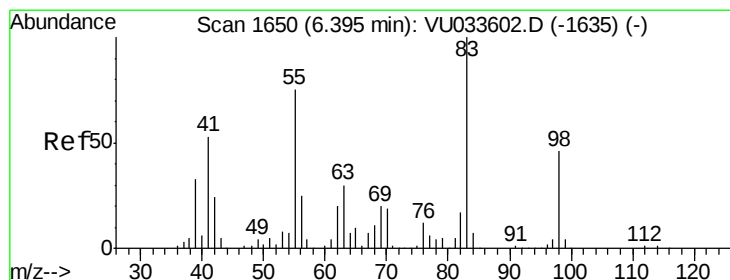
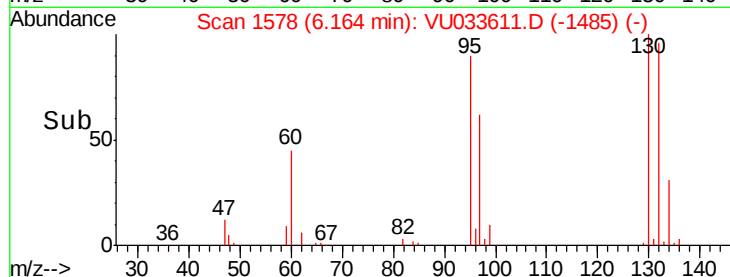
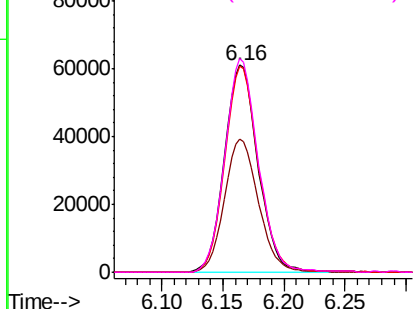
#34
 Trichloroethene
 Concen: 49.150 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion: 95 Resp: 117828
 Ion Ratio Lower Upper
 95 100
 97 64.1 43.8 81.4
 132 99.3 68.6 127.4
 130 103.2 72.2 134.2

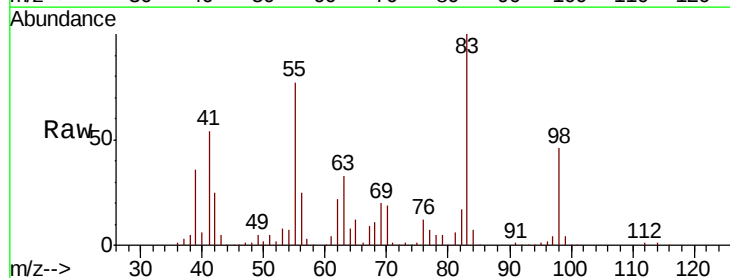


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

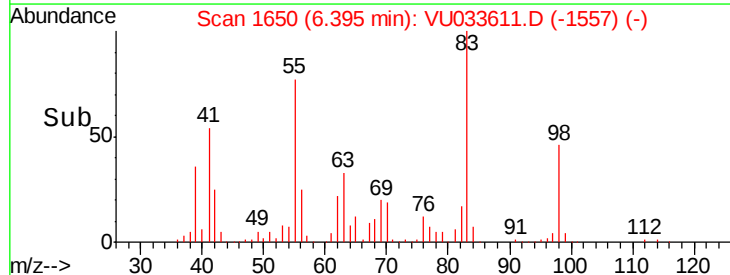
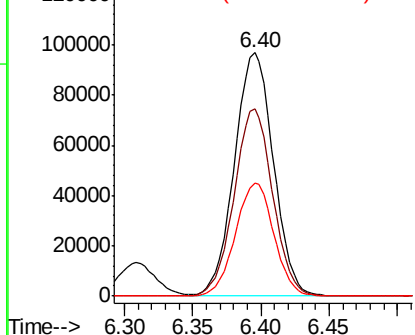


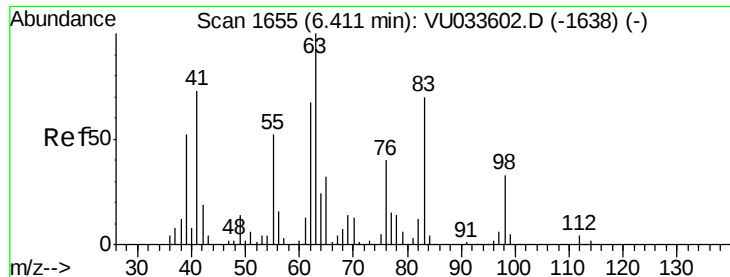
#35
 Methylcyclohexane
 Concen: 50.877 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Tgt Ion: 83 Resp: 192007
 Ion Ratio Lower Upper
 83 100
 55 76.2 60.1 90.1
 98 46.1 36.8 55.2



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

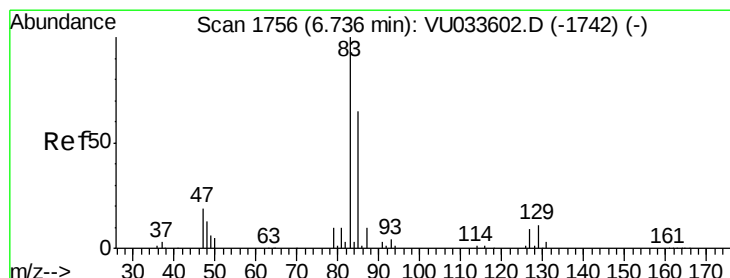
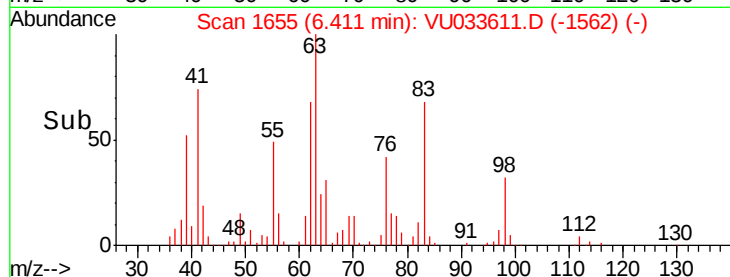
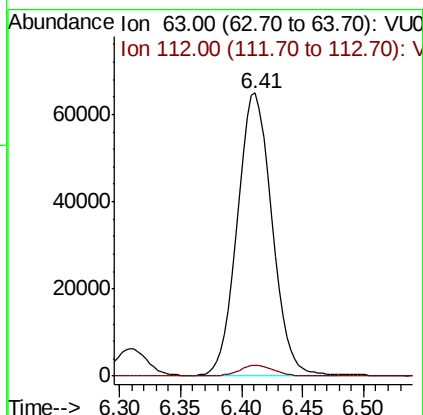
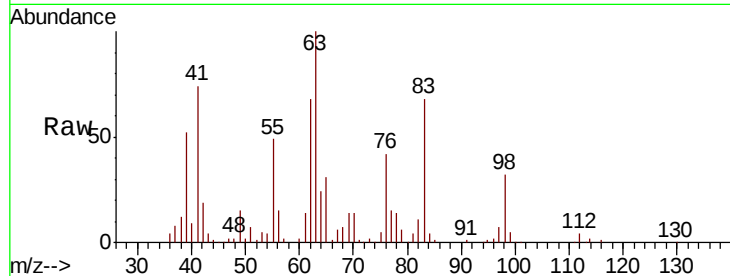




#37
 1,2-Dichloropropane
 Concen: 50.334 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

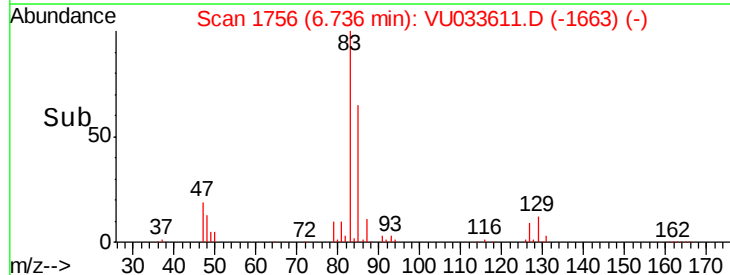
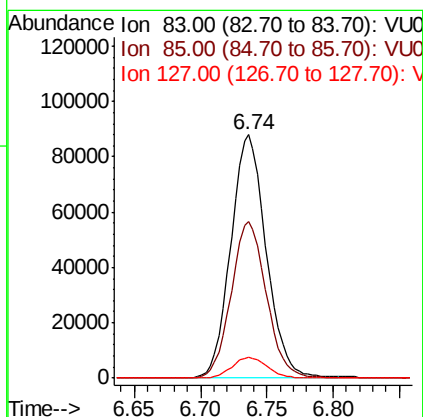
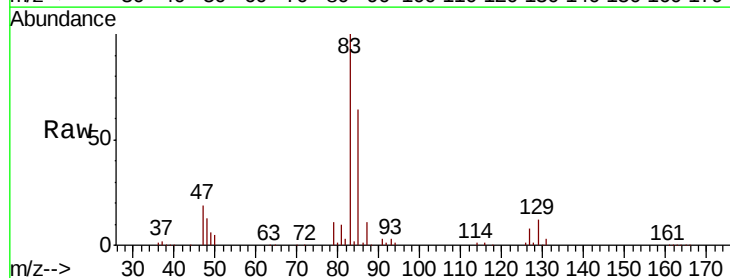
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

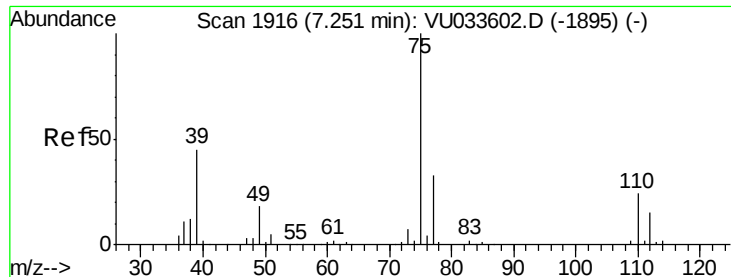
Tgt Ion: 63 Resp: 127950
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.6



#38
 Bromodichloromethane
 Concen: 50.914 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Tgt Ion: 83 Resp: 163136
 Ion Ratio Lower Upper
 83 100
 85 64.3 44.9 83.5
 127 8.5 7.0 10.4

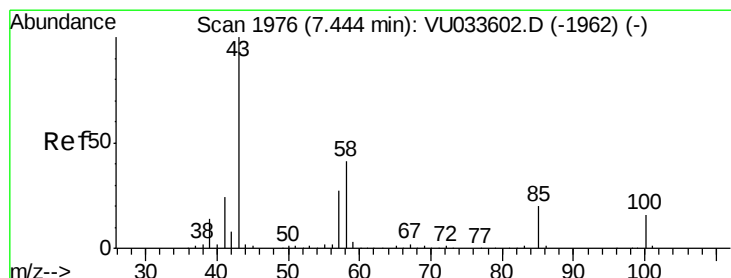
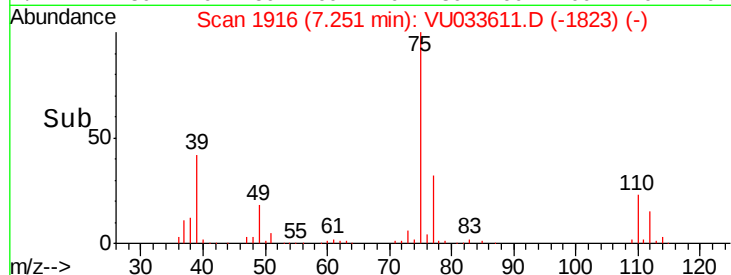
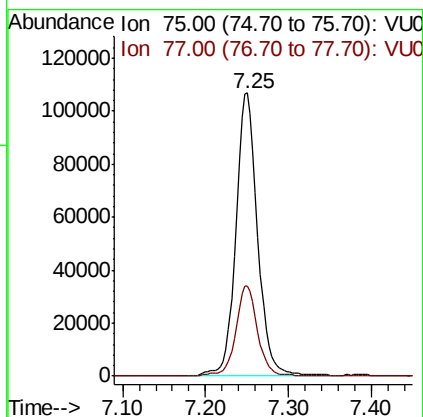
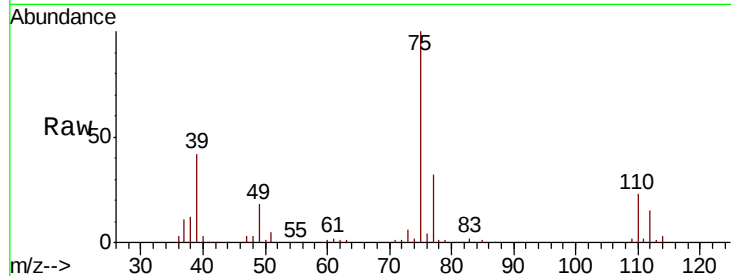




#39
 cis-1,3-Dichloropropene
 Concen: 50.987 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

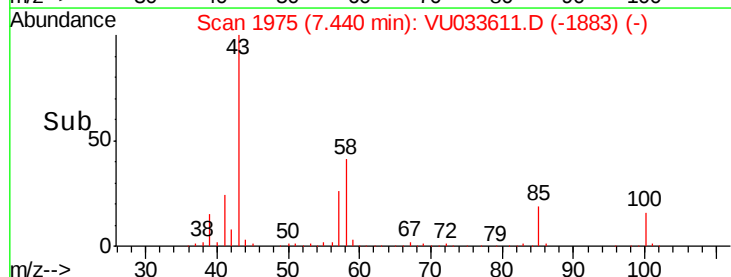
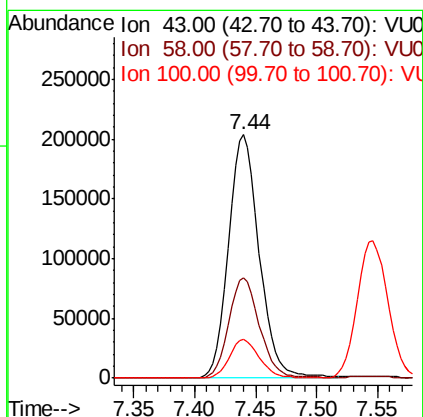
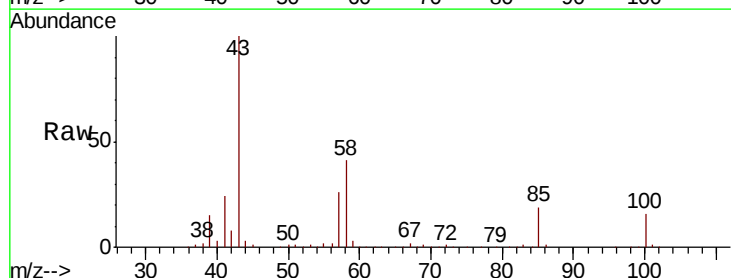
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

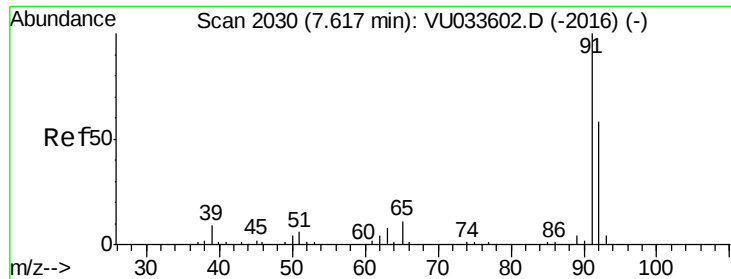
Tgt Ion: 75 Resp: 197099
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 98.657 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Tgt Ion: 43 Resp: 358884
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.5 48.7
 100 15.5 12.6 18.8





#42

Toluene

Concen: 51.191 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

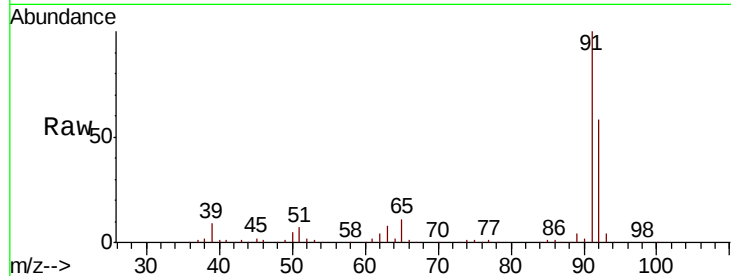
VSTD05050

Tgt Ion: 91 Resp: 509038

Ion Ratio Lower Upper

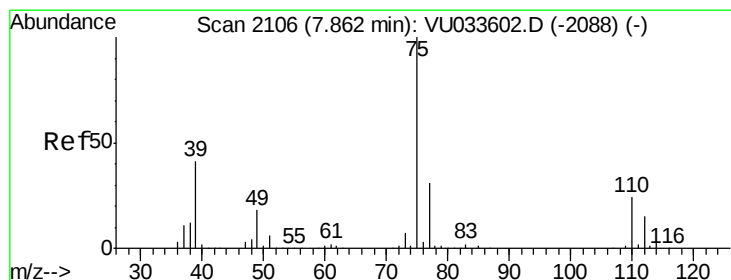
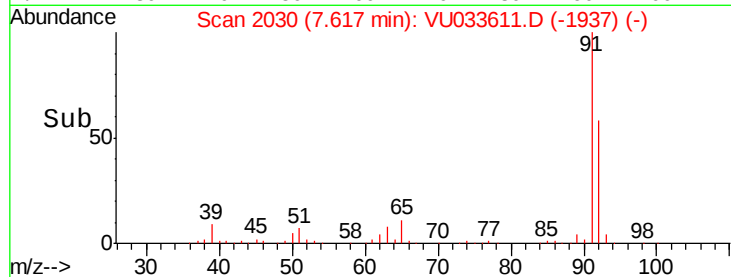
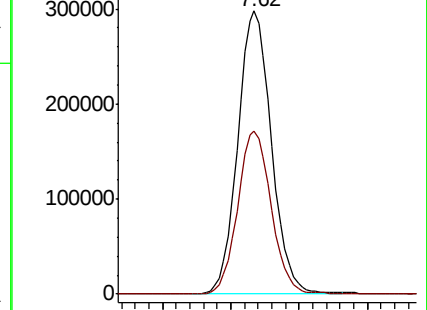
91 100

92 57.8 40.0 74.2



Abundance Ion 91.00 (90.70 to 91.70): VU033611.D (-1937) (-)

Ion 92.00 (91.70 to 92.70): VU033611.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 51.033 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033611.D

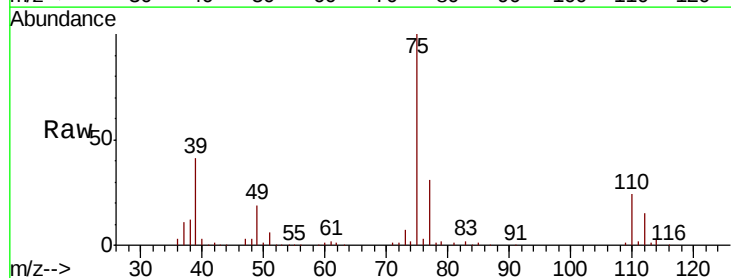
Acq: 06 Aug 2019 16:09

Tgt Ion: 75 Resp: 177516

Ion Ratio Lower Upper

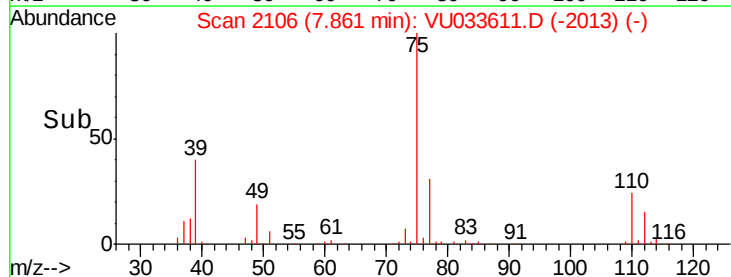
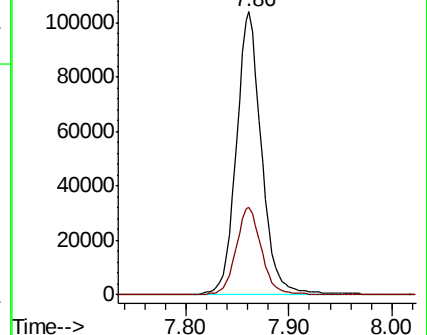
75 100

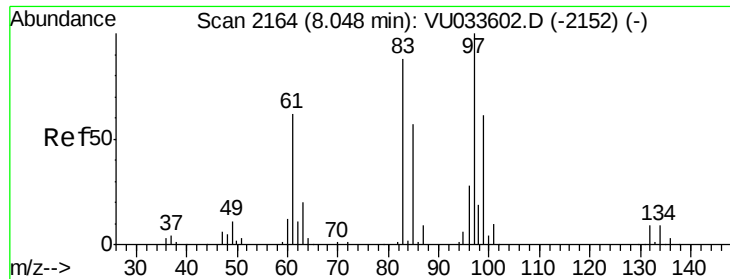
77 30.9 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU033611.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033611.D (-2013) (-)

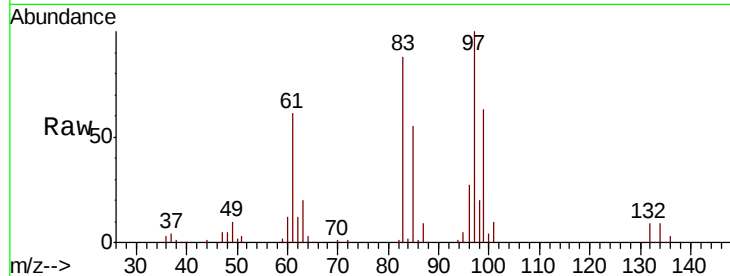




#45
 1,1,2-Trichloroethane
 Concen: 50.866 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	97	Resp:	120982
Ion	Ratio	Lower	Upper
97	100		
99	62.6	42.8	79.6
83	87.5	61.3	113.9
85	55.0	39.1	72.5



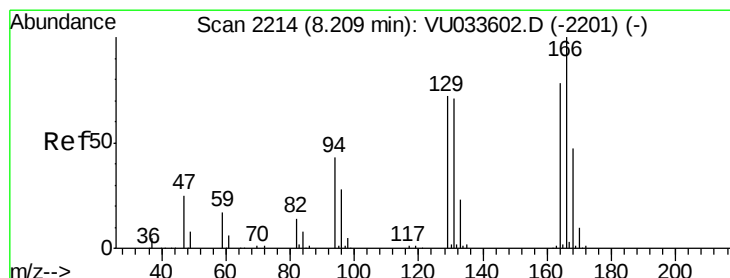
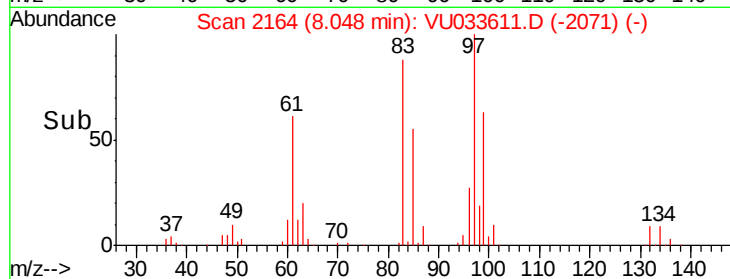
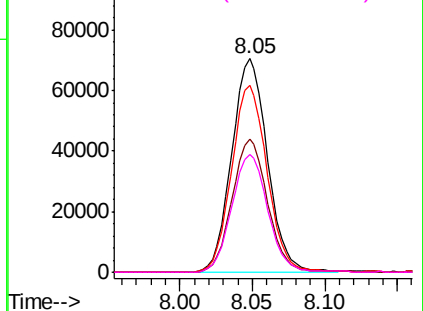
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

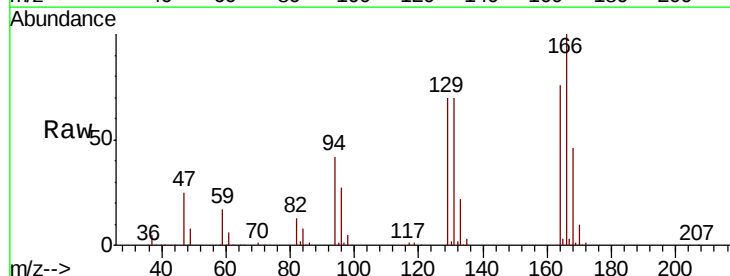
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 50.225 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Tgt Ion:	164	Resp:	98786
Ion	Ratio	Lower	Upper
164	100		
129	91.4	64.1	119.1
131	91.3	62.9	116.7
166	131.3	90.5	168.1



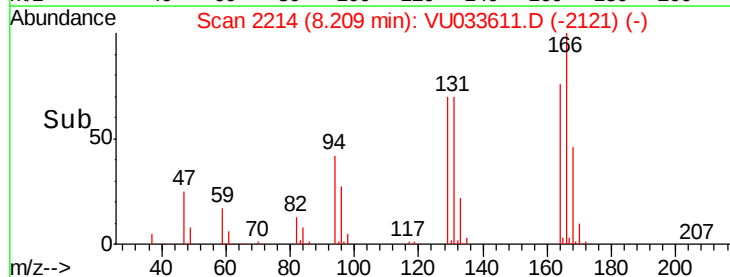
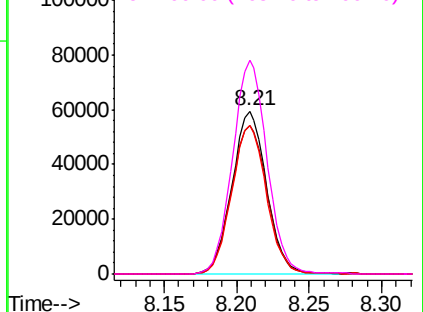
Abundance

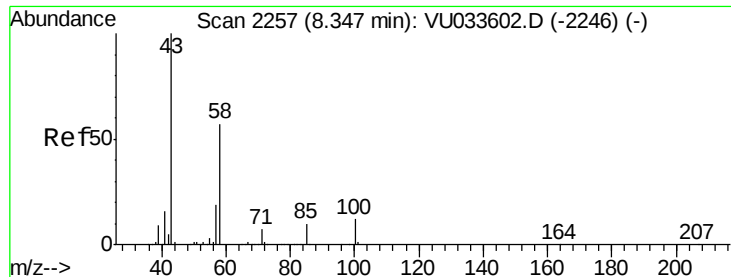
Ion 164.00 (163.70 to 164.70): V

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

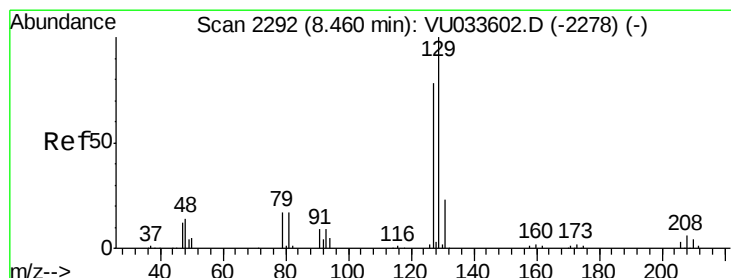
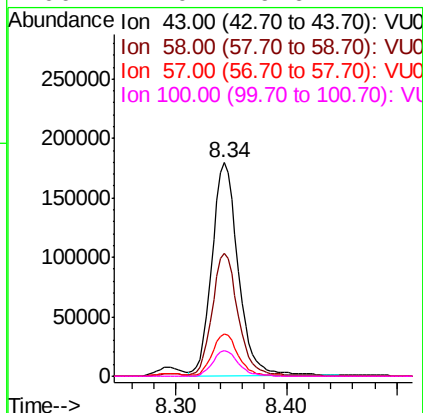
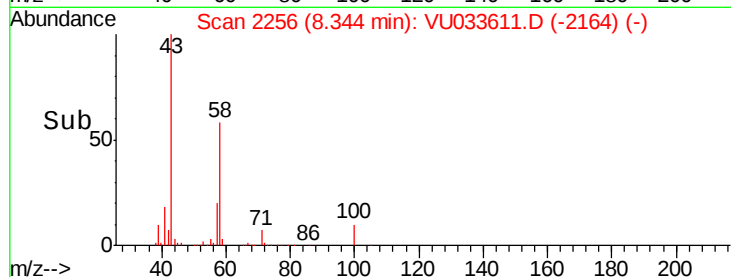
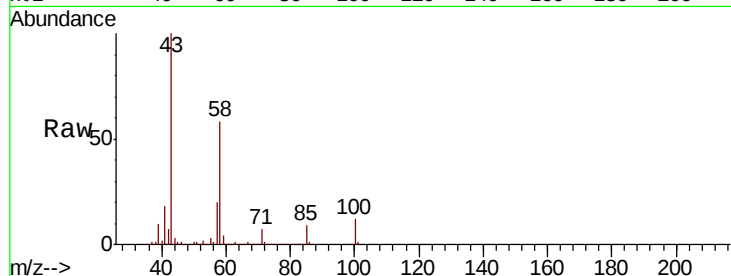




#48
2-Hexanone
Concen: 101.738 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

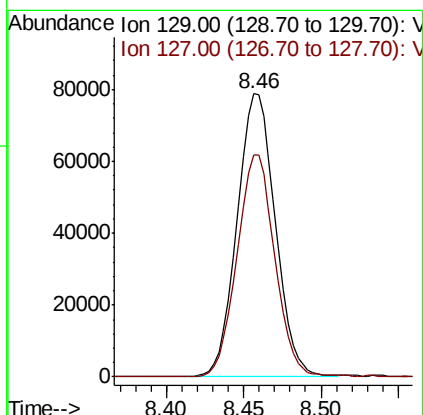
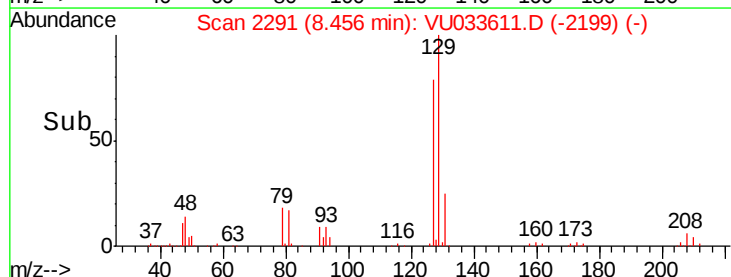
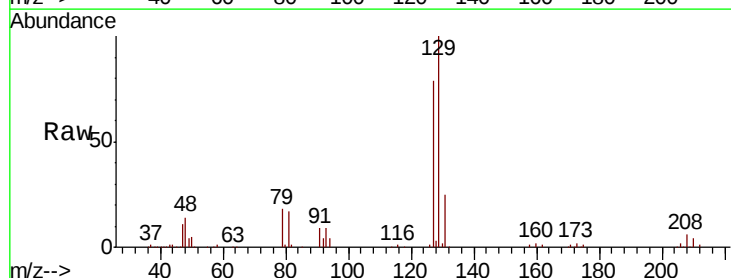
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

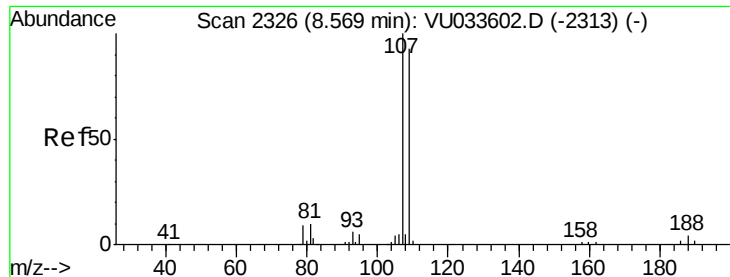
Tgt Ion:	43	Resp:	295552
Ion	Ratio	Lower	Upper
43	100		
58	57.0	45.2	67.8
57	19.5	15.4	23.2
100	12.0	9.6	14.4



#49
Dibromochloromethane
Concen: 50.712 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

Tgt Ion:	129	Resp:	135559
Ion	Ratio	Lower	Upper
129	100		
127	78.5	53.4	99.2

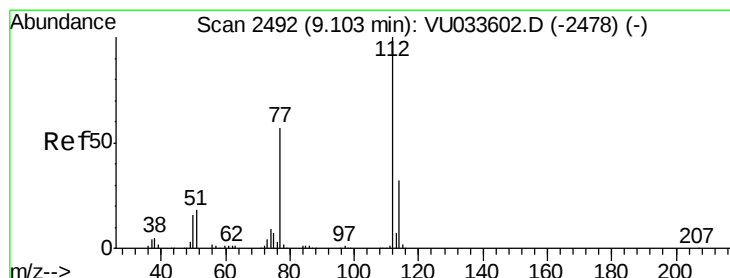
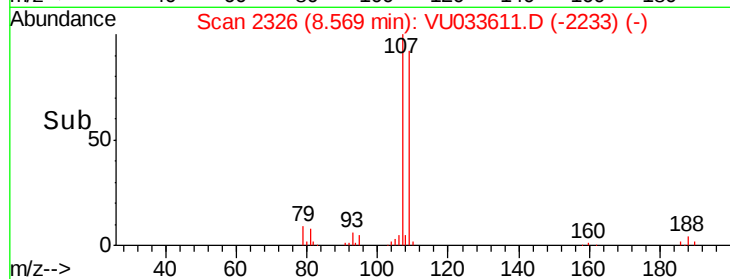
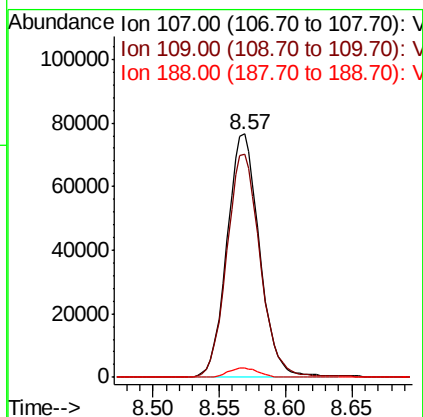
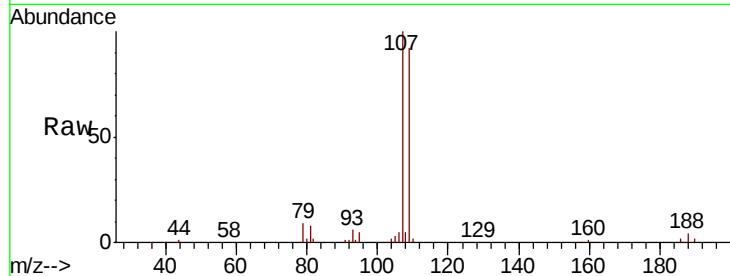




#50
1,2-Dibromoethane
Concen: 50.168 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

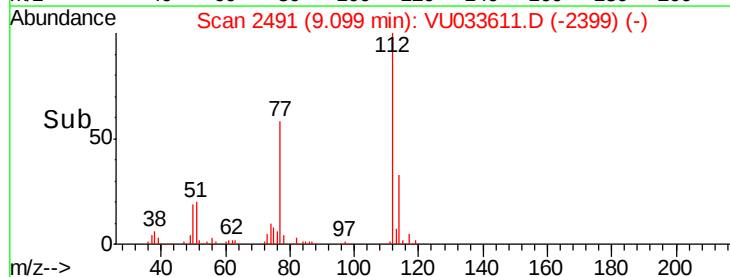
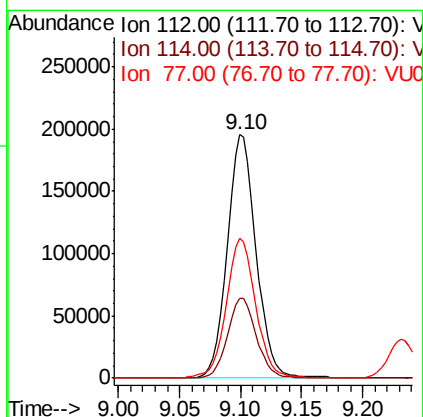
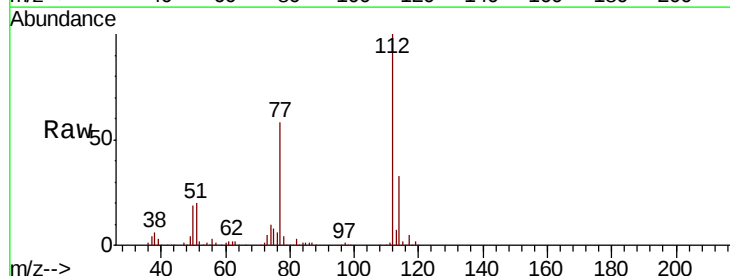
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

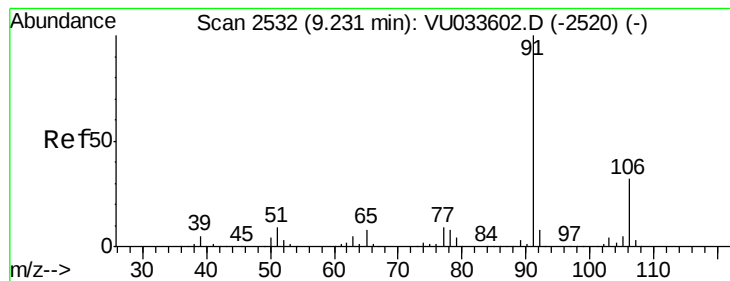
Tgt Ion:107 Resp: 130690
Ion Ratio Lower Upper
107 100
109 91.8 66.5 123.5
188 3.6 3.0 4.6



#51
Chlorobenzene
Concen: 49.843 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

Tgt Ion:112 Resp: 323633
Ion Ratio Lower Upper
112 100
114 32.7 22.5 41.9
77 57.6 46.1 69.1





#52

Ethylbenzene

Concen: 50.842 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

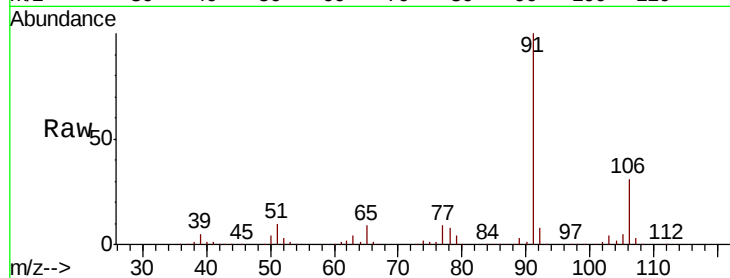
VSTD05050

Tgt Ion: 91 Resp: 548143

Ion Ratio Lower Upper

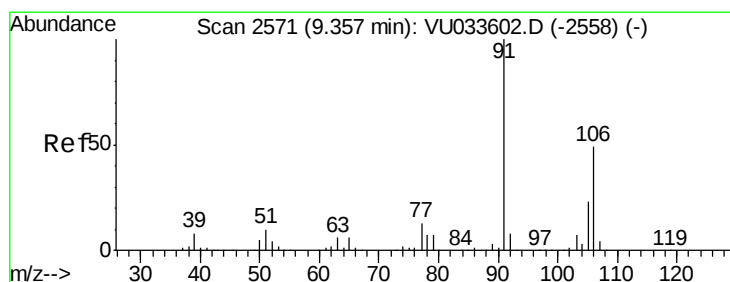
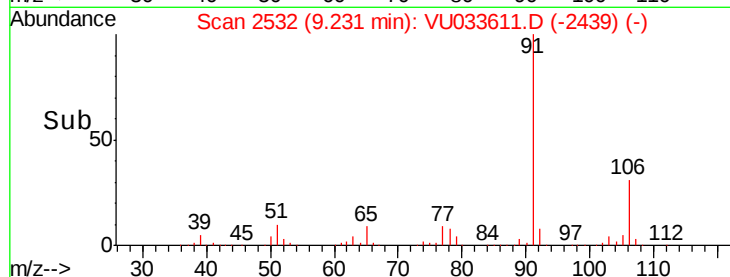
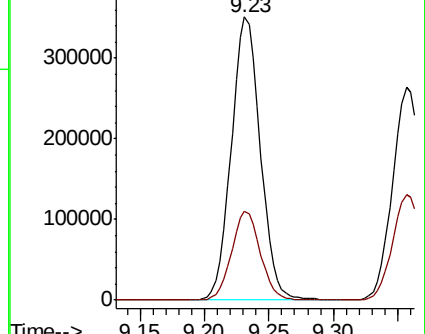
91 100

106 31.5 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VU033602.D (-2520) (-)

Ion 106.00 (105.70 to 106.70): VU033602.D (-2520) (-)



#53

m,p-Xylene

Concen: 51.716 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033611.D

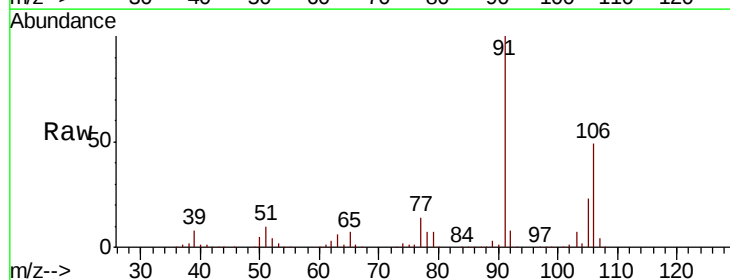
Acq: 06 Aug 2019 16:09

Tgt Ion: 106 Resp: 212334

Ion Ratio Lower Upper

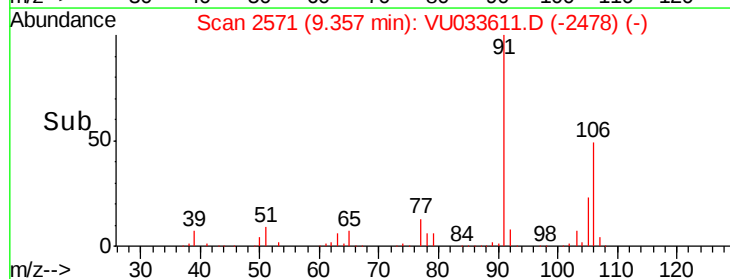
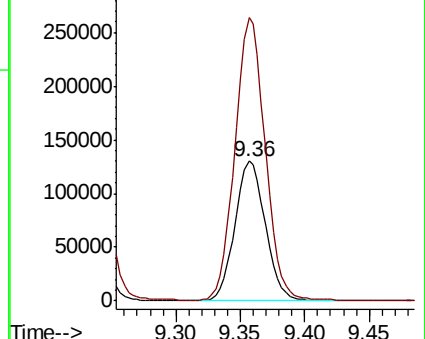
106 100

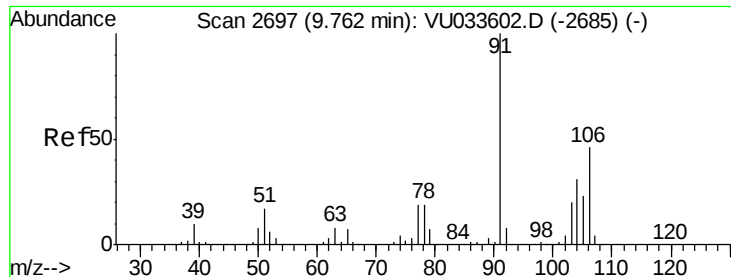
91 202.4 141.3 262.5



Abundance Ion 106.00 (105.70 to 106.70): VU033602.D (-2558) (-)

Ion 91.00 (90.70 to 91.70): VU033602.D (-2558) (-)





#54

o-xylene

Concen: 51.416 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

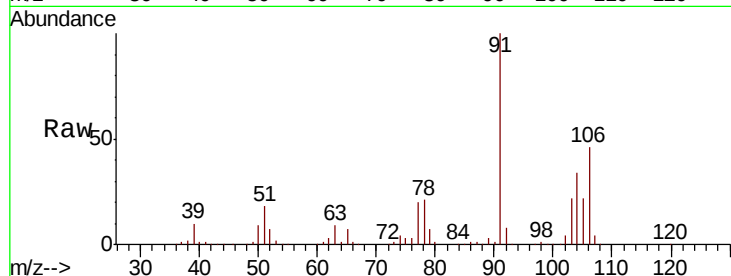
VSTD05050

Tgt Ion:106 Resp: 206778

Ion Ratio Lower Upper

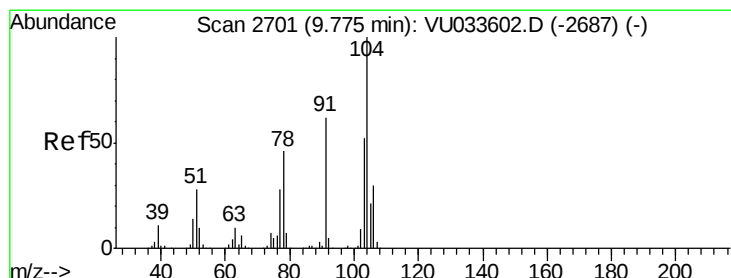
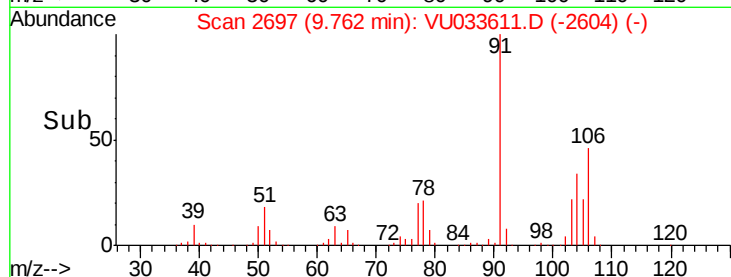
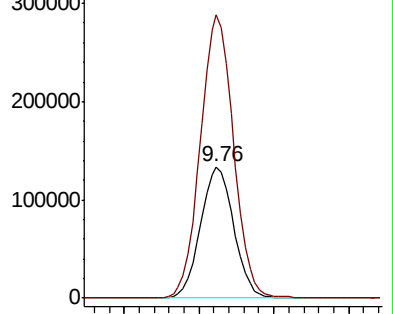
106 100

91 215.5 146.6 272.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.838 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033611.D

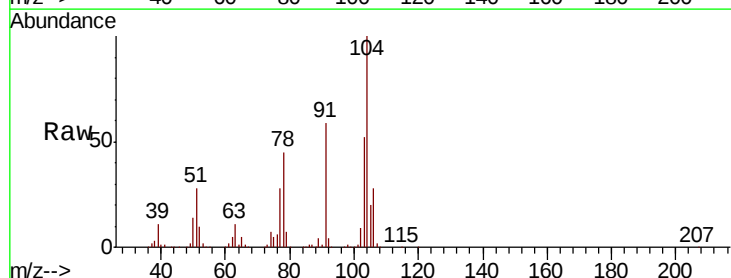
Acq: 06 Aug 2019 16:09

Tgt Ion:104 Resp: 360829

Ion Ratio Lower Upper

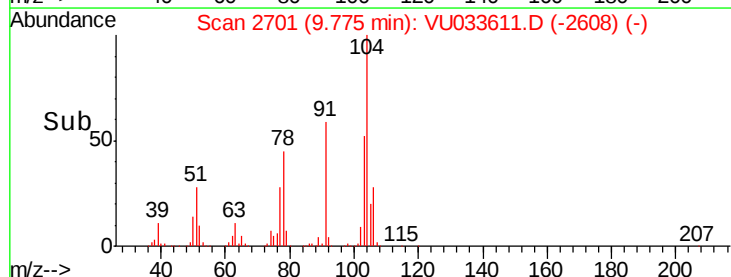
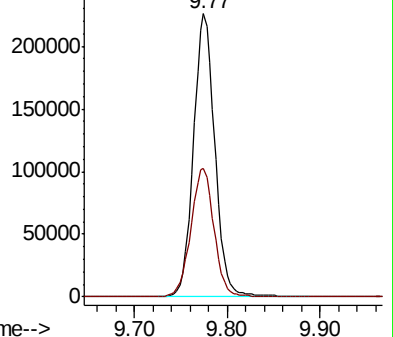
104 100

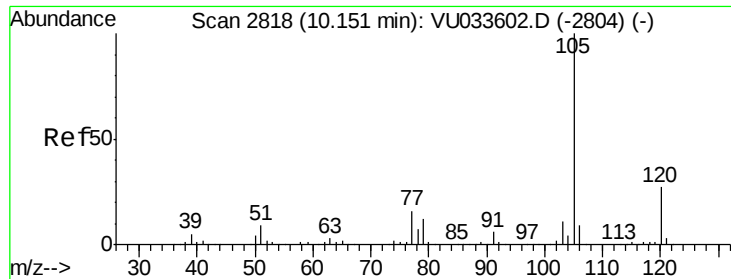
78 45.4 32.9 61.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.074 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

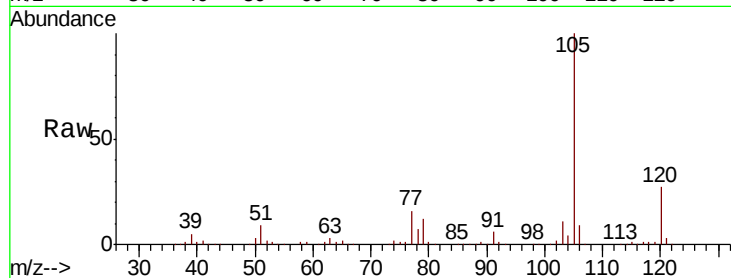
Tgt Ion: 105 Resp: 540272

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.2

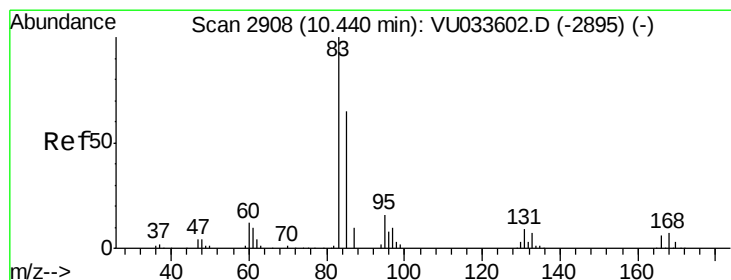
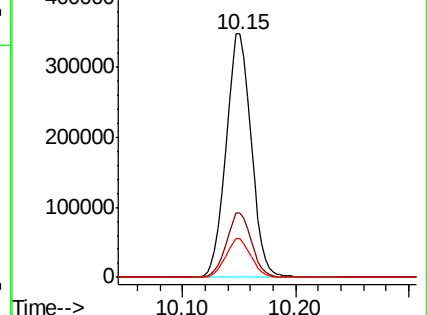
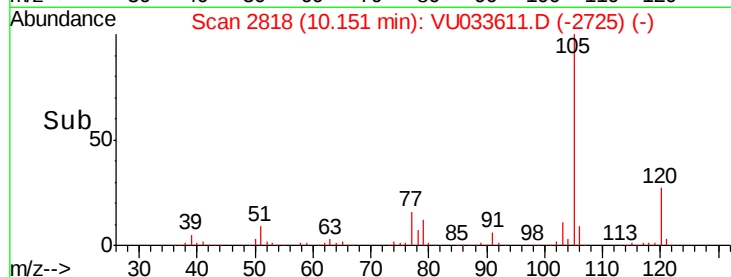
77 15.9 12.6 18.8



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: 50.548 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

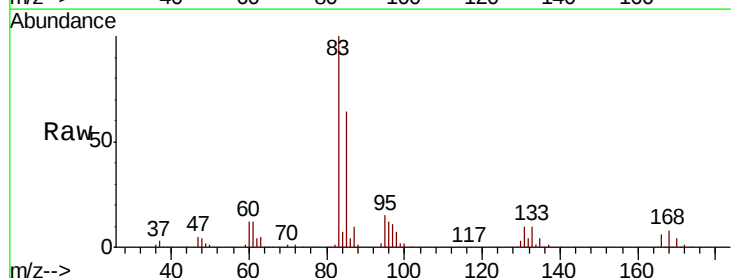
Tgt Ion: 83 Resp: 214982

Ion Ratio Lower Upper

83 100

85 64.2 44.3 82.3

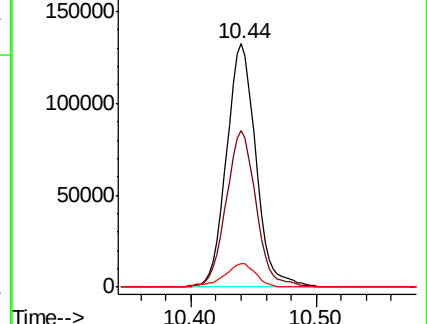
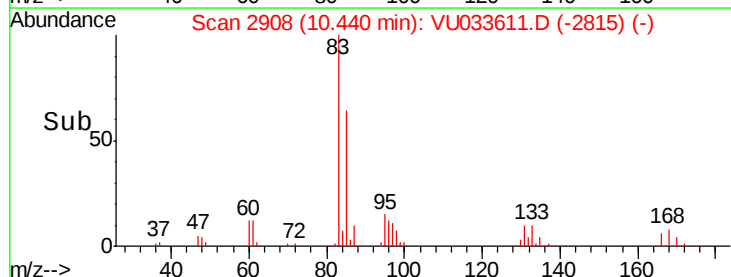
131 9.8 7.8 11.6

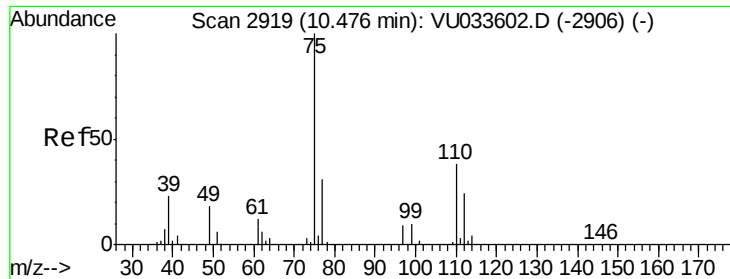


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.584 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

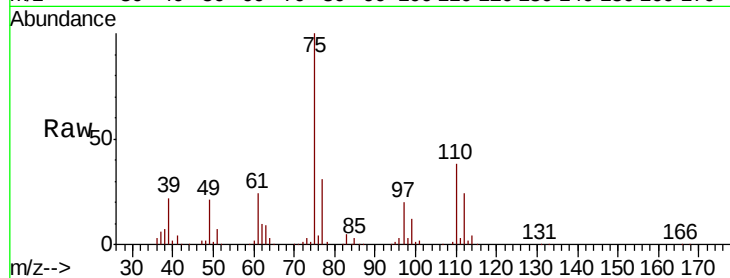
VSTD05050

Tgt Ion: 75 Resp: 168414

Ion Ratio Lower Upper

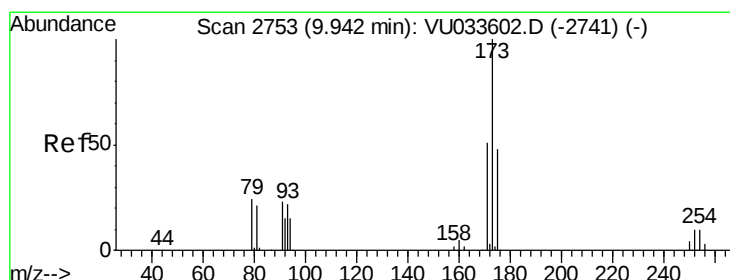
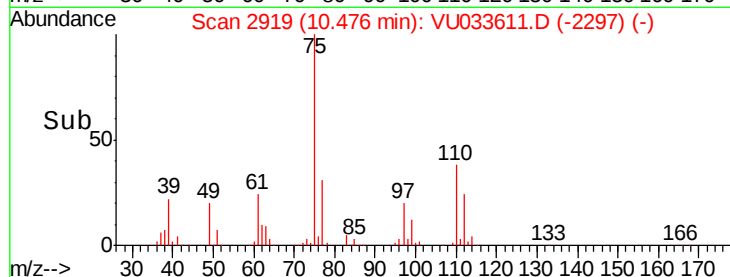
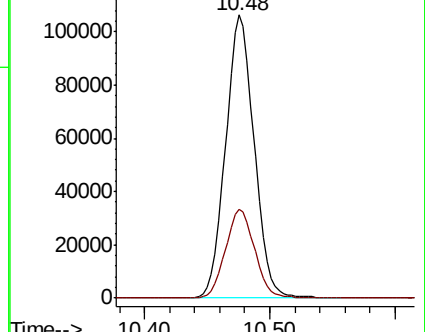
75 100

77 32.0 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU033611.D (-2297) (-)

Ion 77.00 (76.70 to 77.70): VU033611.D (-2297) (-)



#61

Bromoform

Concen: 49.937 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

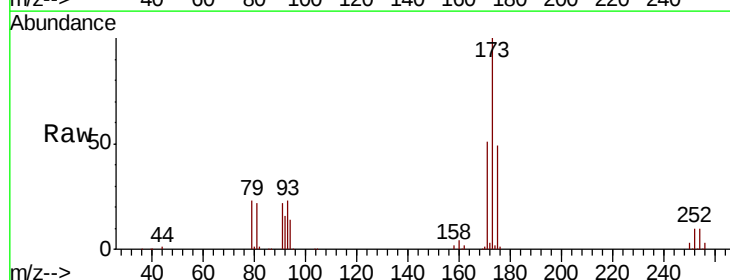
Tgt Ion: 173 Resp: 105659

Ion Ratio Lower Upper

173 100

175 48.8 39.4 59.0

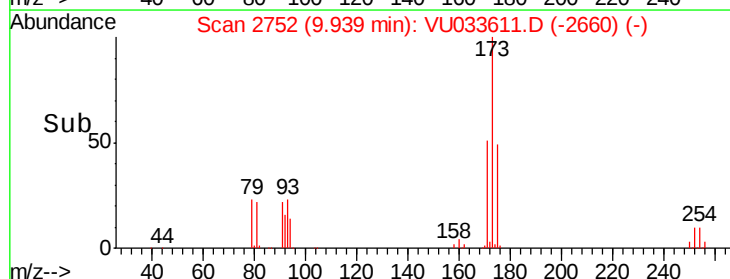
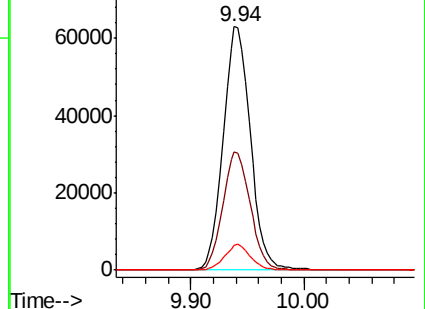
254 9.9 7.2 10.8

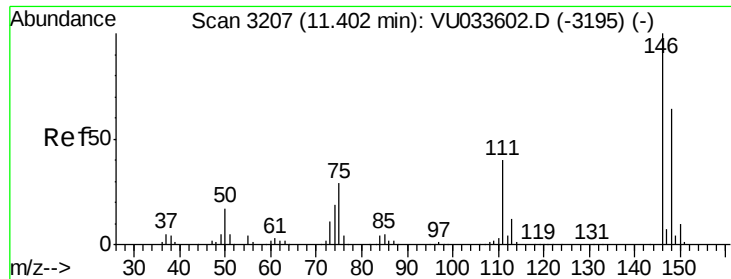


Abundance Ion 173.00 (172.70 to 173.70): VU033611.D (-2660) (-)

Ion 175.00 (174.70 to 175.70): VU033611.D (-2660) (-)

Ion 254.00 (253.70 to 254.70): VU033611.D (-2660) (-)





#62

1,3-Dichlorobenzene

Concen: 49.673 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

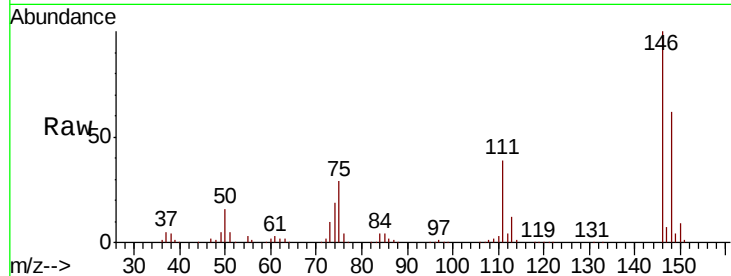
Tgt Ion:146 Resp: 264850

Ion Ratio Lower Upper

146 100

111 39.0 27.5 51.1

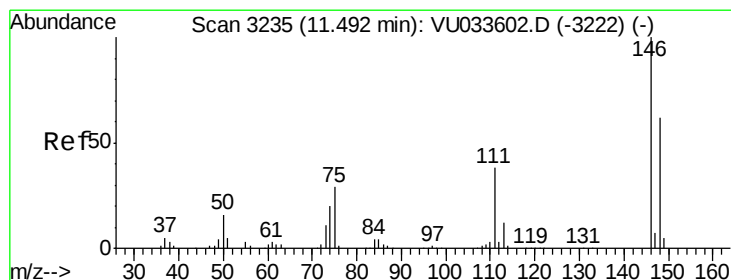
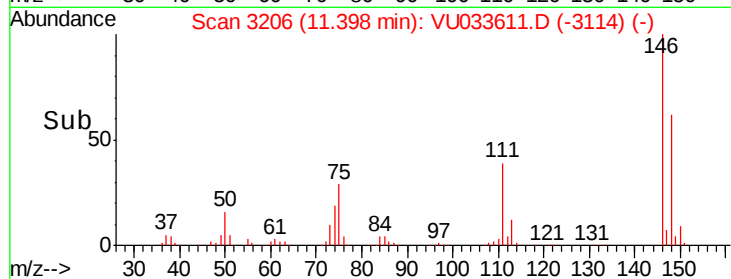
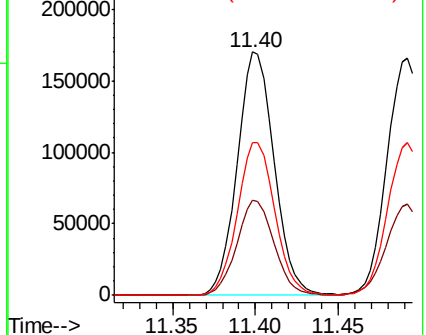
148 62.5 44.5 82.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 48.750 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

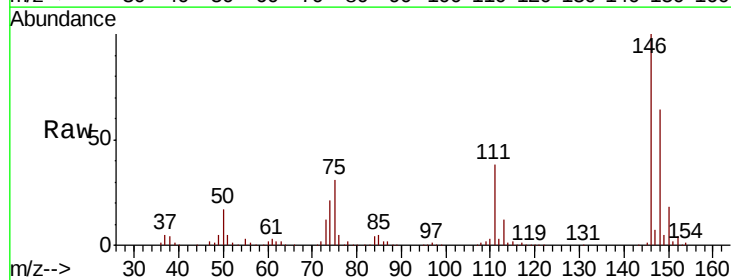
Tgt Ion:146 Resp: 265543

Ion Ratio Lower Upper

146 100

111 38.2 26.9 49.9

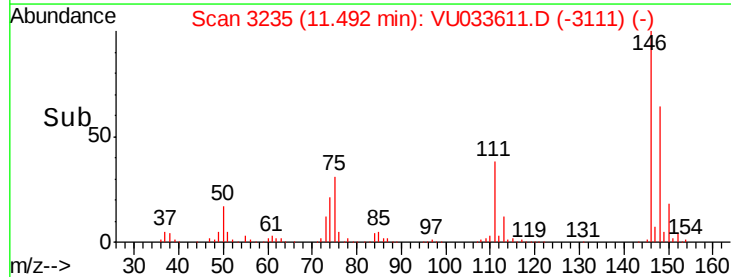
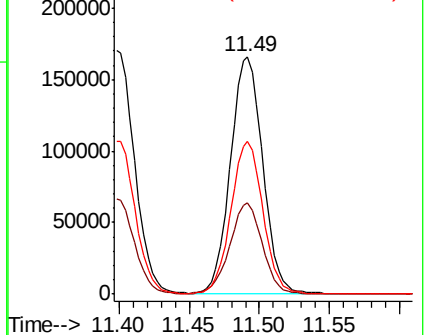
148 64.3 44.9 83.3

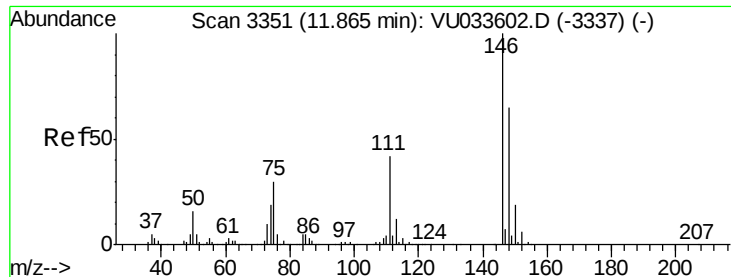


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 49.821 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

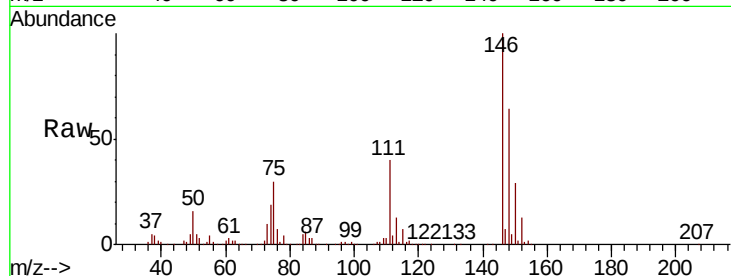
Tgt Ion:146 Resp: 264937

Ion Ratio Lower Upper

146 100

111 40.4 33.0 49.6

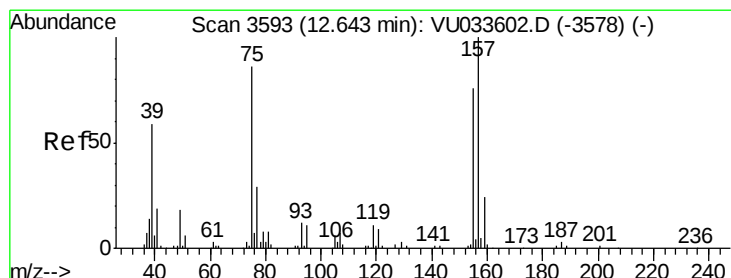
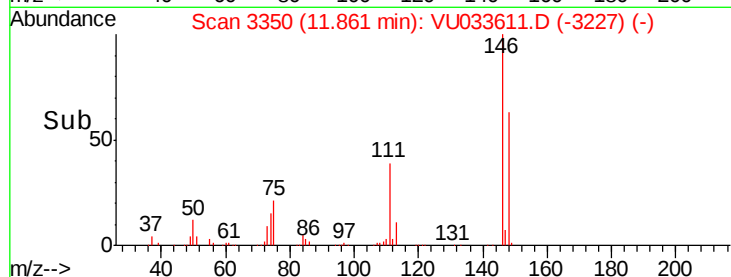
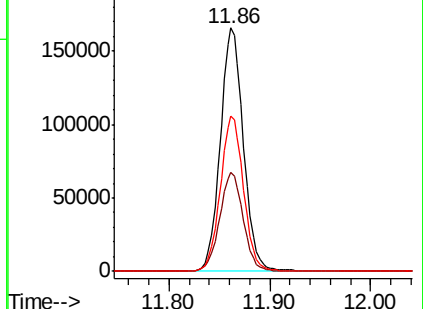
148 63.6 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): 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: 46.868 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033611.D

Acq: 06 Aug 2019 16:09

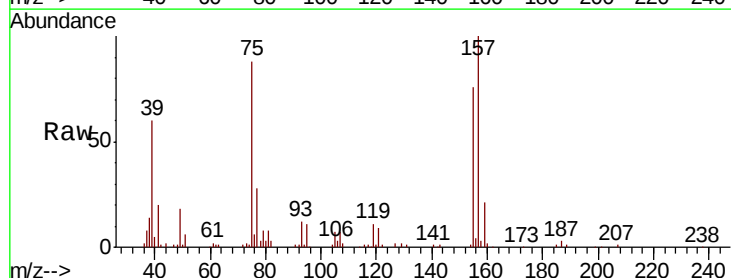
Tgt Ion: 75 Resp: 46970

Ion Ratio Lower Upper

75 100

155 87.1 69.0 103.6

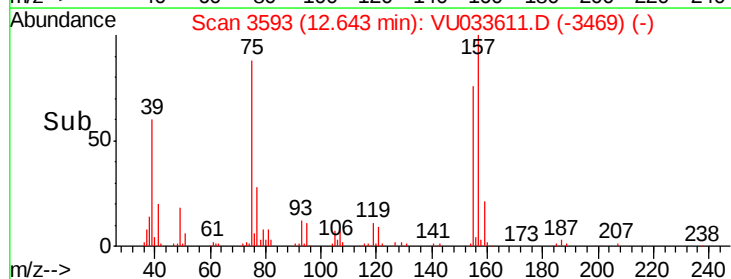
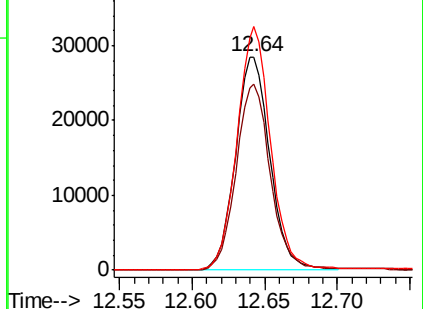
157 114.0 87.8 131.8

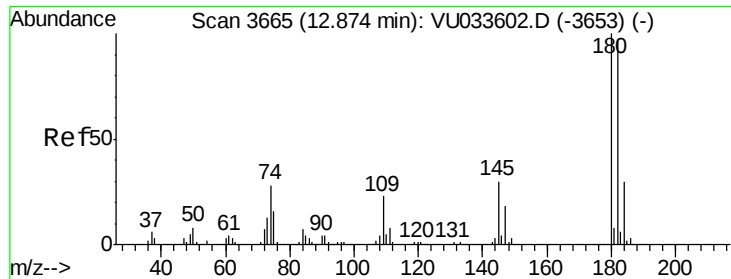


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

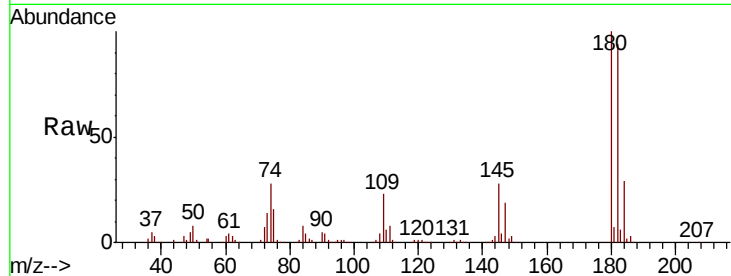




#67
 1,3,5-Trichlorobenzene
 Concen: 48.115 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	180	Resp:	197516
Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.2	114.2
184	30.4	24.2	36.4
145	28.7	23.0	34.4



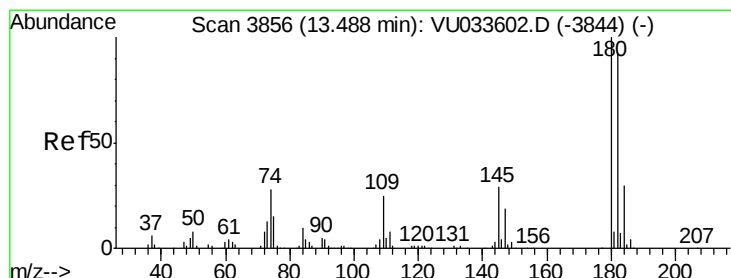
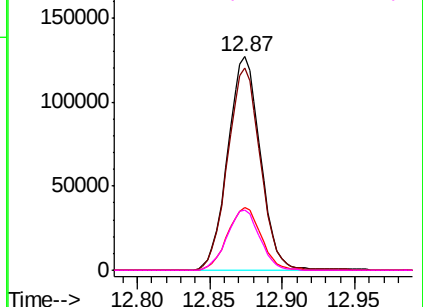
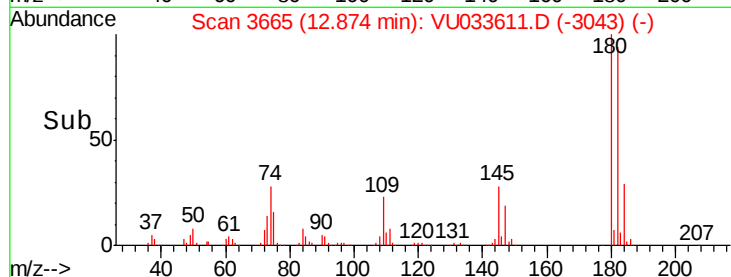
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

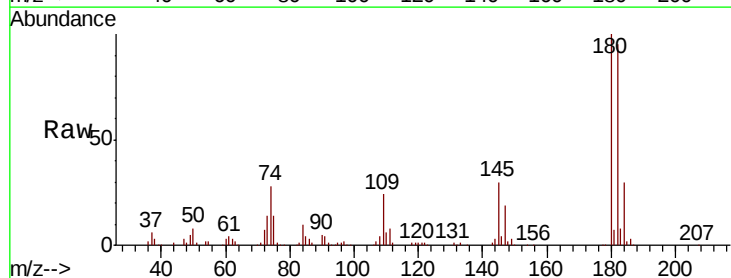
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.608 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033611.D
 Acq: 06 Aug 2019 16:09

Tgt Ion:	180	Resp:	166716
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.7	115.1
145	29.3	23.5	35.3

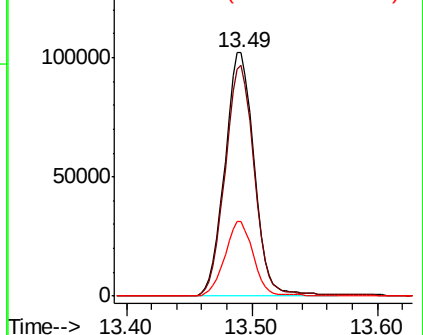
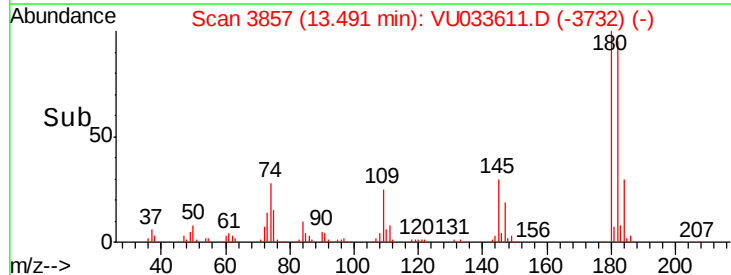


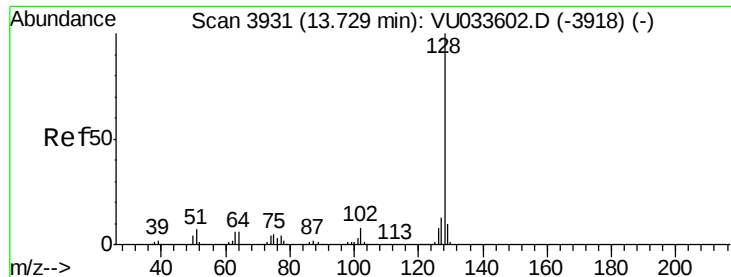
Abundance

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

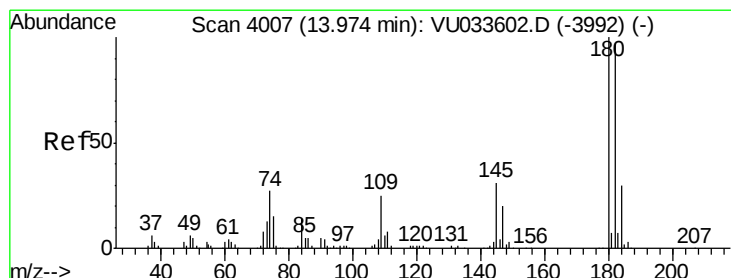
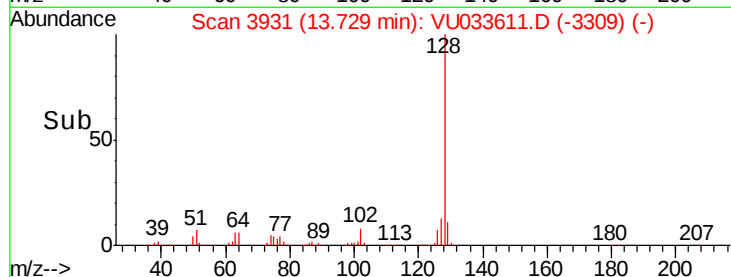
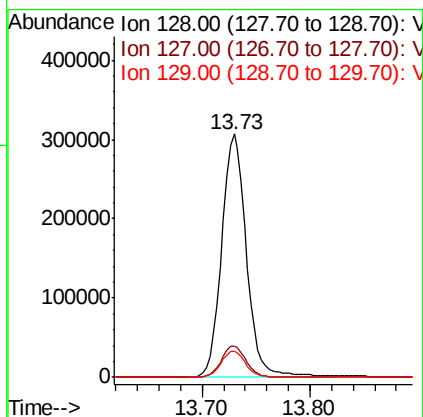
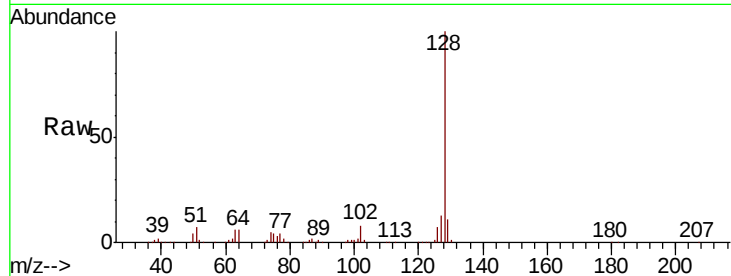




#69
Naphthalene
Concen: 48.331 ug/L
RT: 13.73 min Scan# 3931
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion:128 Resp: 491865
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8



#70
1,2,3-Trichlorobenzene
Concen: 47.695 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. -0.00 min
Lab File: VU033611.D
Acq: 06 Aug 2019 16:09

Tgt Ion:180 Resp: 177668
Ion Ratio Lower Upper
180 100
182 95.8 77.4 116.2
145 31.0 24.5 36.7

