

Data File : VU033717.D
Acq On : 10 Aug 2019 05:27
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 35 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

Quant Time: Aug 10 08:32:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080919WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Aug 10 04:26:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	328294	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	324508	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	172434	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	134359	55.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	111.20%
7) Chloroethane-d5	1.67	69	105723	43.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.30%
11) 1,1-Dichloroethene-d2	2.26	63	224944	55.36	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	110.72%
21) 2-Butanone-d5	4.15	46	185524	123.83	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	123.83%
24) Chloroform-d	4.62	84	204963	57.09	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	114.18%
26) 1,2-Dichloroethane-d4	5.28	65	126355	56.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	112.56%
32) Benzene-d6	5.32	84	419389	54.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.52%
36) 1,2-Dichloropropane-d6	6.31	67	131911	56.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	112.26%
41) Toluene-d8	7.55	98	393595	54.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	109.28%
43) trans-1,3-Dichloropropene-	7.83	79	60992	51.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.78%
47) 2-Hexanone-d5	8.29	63	143068	117.53	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	117.53%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	196977	56.66	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	113.32%
64) 1,2-Dichlorobenzene-d4	11.84	152	156321	53.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.72%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	116936	48.827 ug/L	99
3) Chloromethane	1.32	50	128668	51.871 ug/L	99
5) Vinyl chloride	1.39	62	140862	50.970 ug/L	98
6) Bromomethane	1.61	94	68176	30.407 ug/L	98
8) Chloroethane	1.69	64	89036	42.320 ug/L	99
9) Trichlorofluoromethane	1.87	101	188607	50.330 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	96440	49.072 ug/L	98
12) 1,1-Dichloroethene	2.27	96	96398	49.935 ug/L	96
13) Acetone	2.31	43	129412	85.911 ug/L	99
14) Carbon disulfide	2.46	76	272533	50.290 ug/L	98
15) Methyl Acetate	2.60	43	134847	53.727 ug/L	97
16) Methylene chloride	2.68	84	114524	51.127 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	102473	49.527 ug/L	96
18) Methyl tert-butyl Ether	2.98	73	337482	49.871 ug/L	99
19) 1,1-Dichloroethane	3.42	63	198522	50.844 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	117843	49.933 ug/L	97
22) 2-Butanone	4.23	43	203167	108.364 ug/L	95

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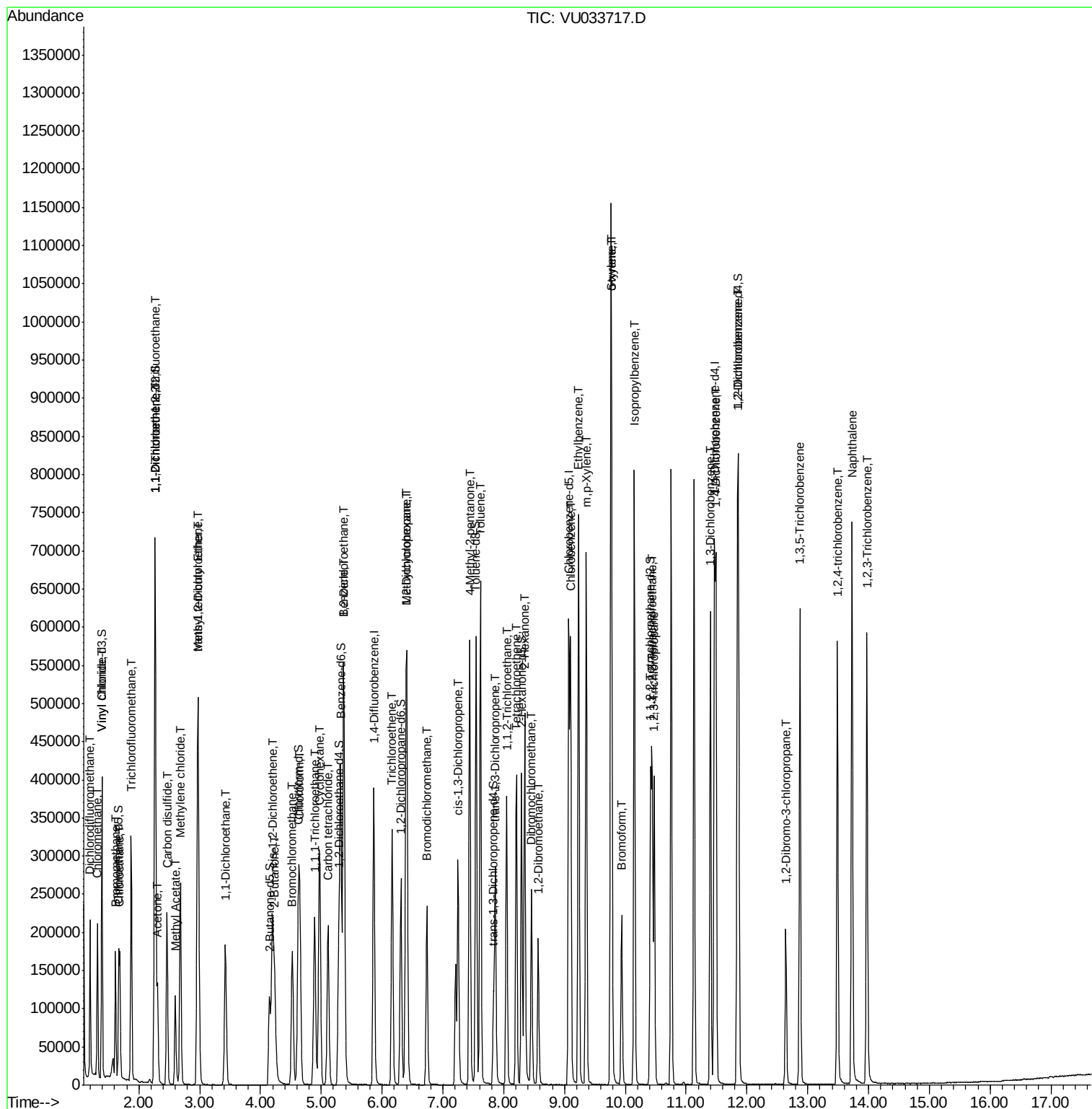
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	61864	50.946	ug/L	96
25) Chloroform	4.65	83	204876	50.301	ug/L	99
27) 1,2-Dichloroethane	5.38	62	162570	52.407	ug/L	100
29) Cyclohexane	4.97	56	166816	48.714	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	171829	48.796	ug/L	99
31) Carbon tetrachloride	5.11	117	152825	48.372	ug/L	98
33) Benzene	5.37	78	439713	48.690	ug/L	100
34) Trichloroethene	6.16	95	113175	47.496	ug/L	97
35) Methylcyclohexane	6.40	83	171423	47.261	ug/L	98
37) 1,2-Dichloropropane	6.41	63	122001	50.620	ug/L	99
38) Bromodichloromethane	6.74	83	152624	49.284	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	178945	46.721	ug/L	98
40) 4-Methyl-2-pentanone	7.44	43	375106	104.651	ug/L	98
42) Toluene	7.62	91	482911	49.429	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	161544	47.346	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	115157	48.877	ug/L	99
46) Tetrachloroethene	8.21	164	90326	45.985	ug/L	96
48) 2-Hexanone	8.34	43	295911	104.847	ug/L	98
49) Dibromochloromethane	8.46	129	129284	48.972	ug/L	99
50) 1,2-Dibromoethane	8.57	107	127693	49.019	ug/L	98
51) Chlorobenzene	9.10	112	308510	48.039	ug/L	99
52) Ethylbenzene	9.23	91	517669	48.437	ug/L	100
53) m,p-Xylene	9.36	106	194966	47.790	ug/L	97
54) o-xylene	9.76	106	195424	48.465	ug/L	99
55) Styrene	9.77	104	337179	49.831	ug/L	98
56) Isopropylbenzene	10.15	105	509123	48.113	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	206658	49.930	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	161691	49.626	ug/L	100
61) Bromoform	9.94	173	100856	48.724	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	254582	48.499	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	256027	48.153	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	261654	50.421	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	50882	51.898	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	199864	47.846	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	182018	48.163	ug/L	99
69) Naphthalene	13.73	128	595352	52.595	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	192854	49.362	ug/L	99

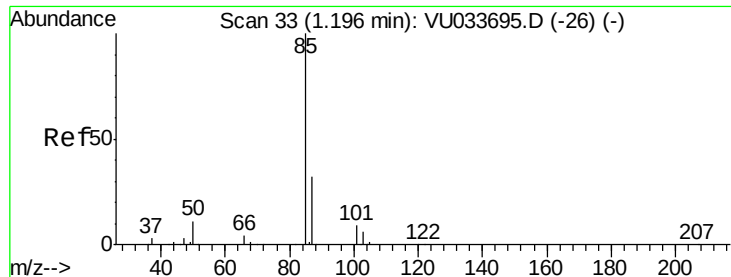
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.827 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

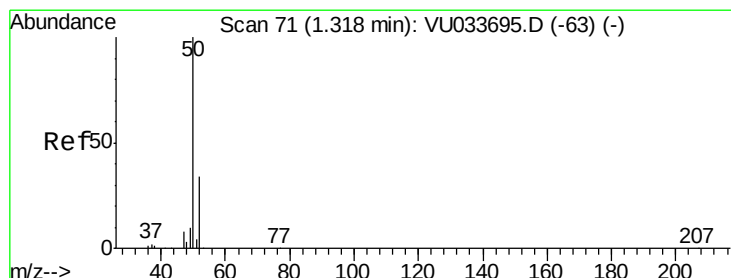
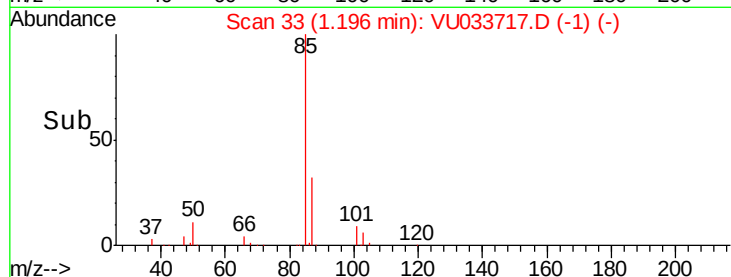
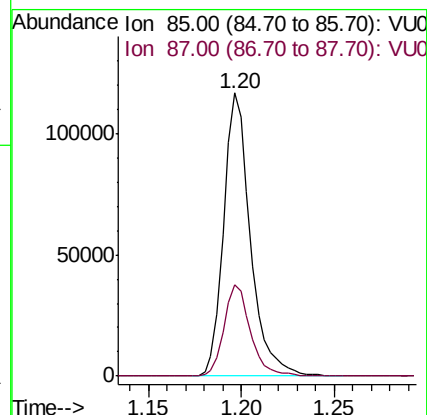
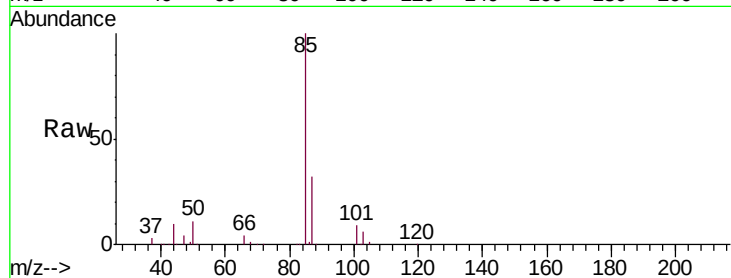
VSTD05057

Tgt Ion: 85 Resp: 116936

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.2



#3

Chloromethane

Concen: 51.871 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033717.D

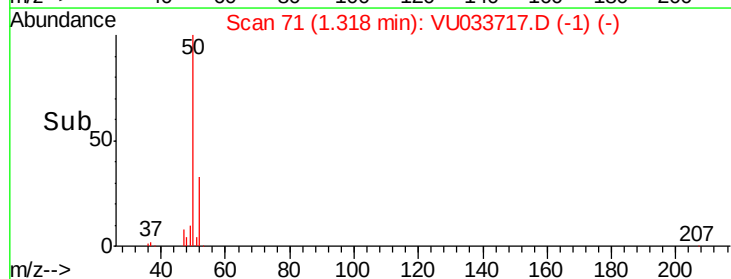
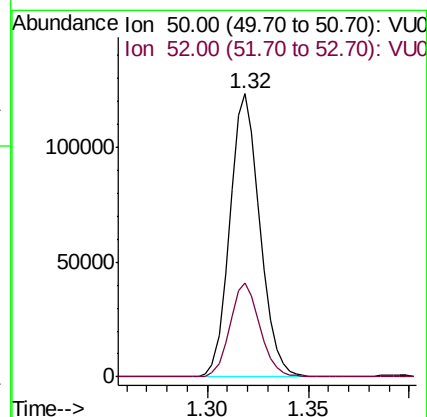
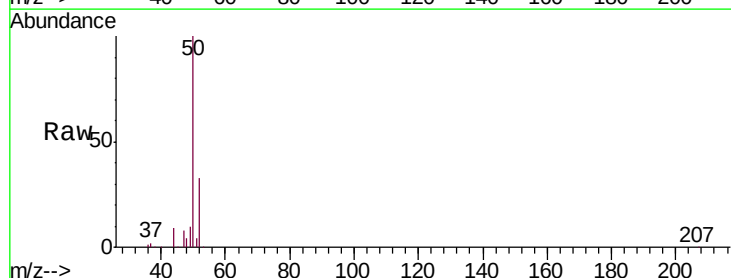
Acq: 10 Aug 2019 05:27

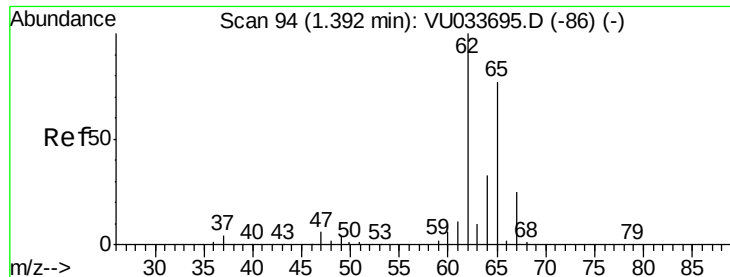
Tgt Ion: 50 Resp: 128668

Ion Ratio Lower Upper

50 100

52 33.2 23.0 42.8





#5

Vinyl chloride

Concen: 50.970 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

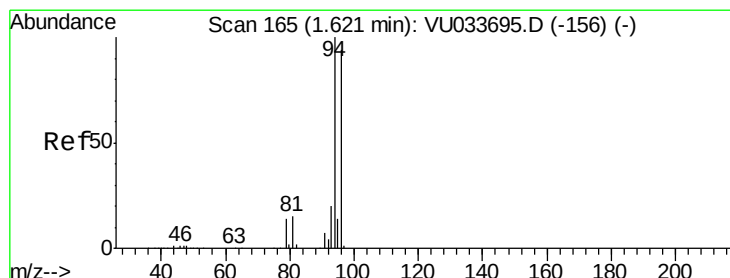
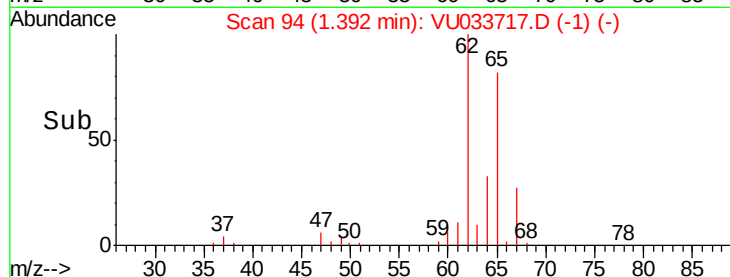
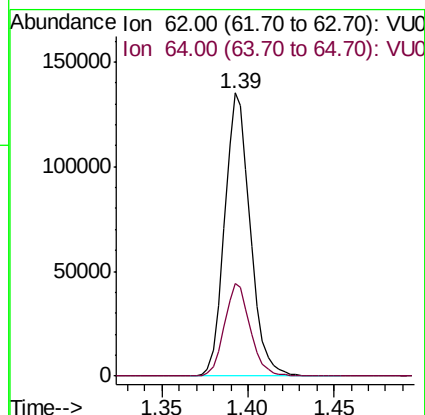
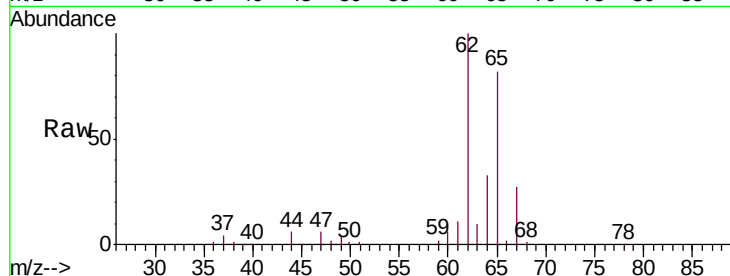
VSTD05057

Tgt Ion: 62 Resp: 140862

Ion Ratio Lower Upper

62 100

64 32.7 23.7 43.9



#6

Bromomethane

Concen: 30.407 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033717.D

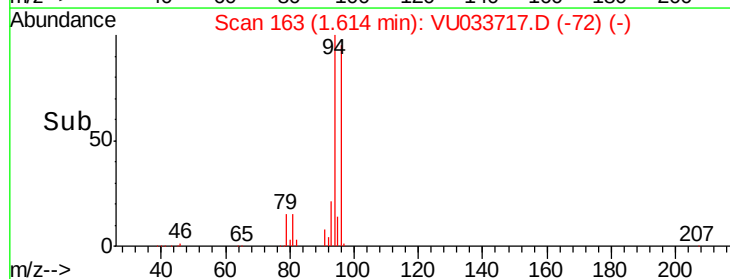
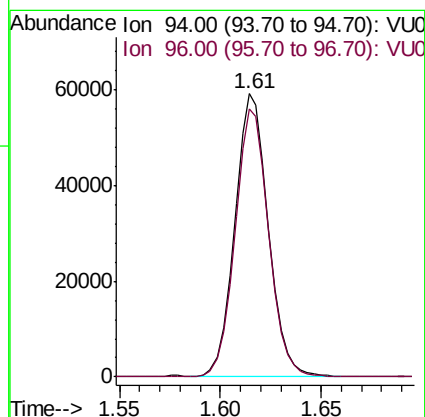
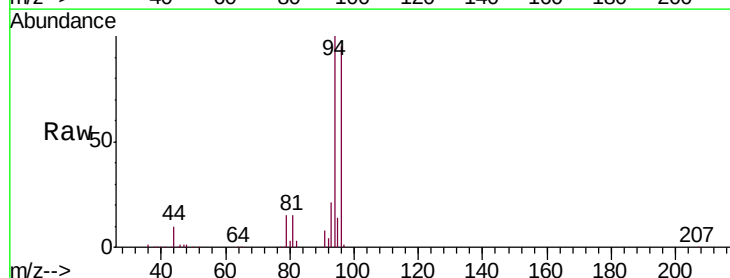
Acq: 10 Aug 2019 05:27

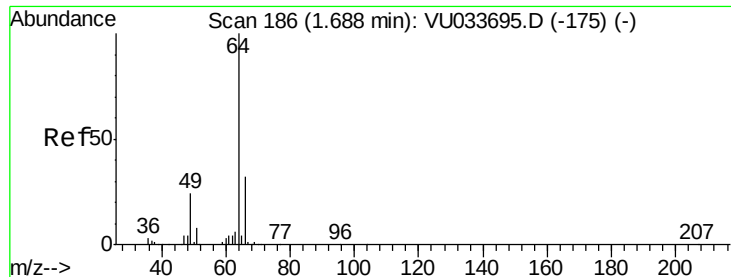
Tgt Ion: 94 Resp: 68176

Ion Ratio Lower Upper

94 100

96 94.6 65.0 120.6





#8

Chloroethane

Concen: 42.320 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

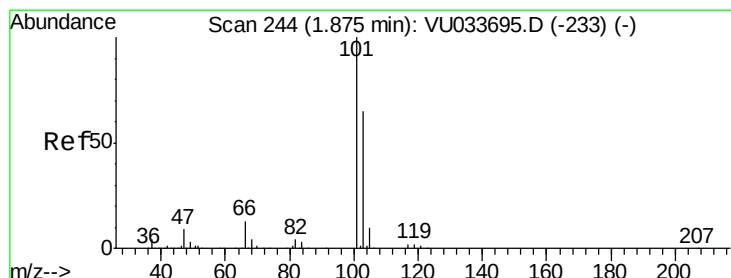
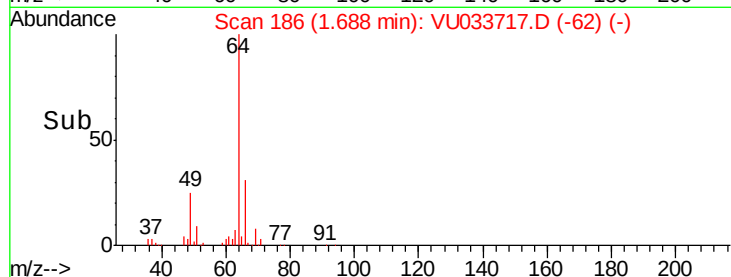
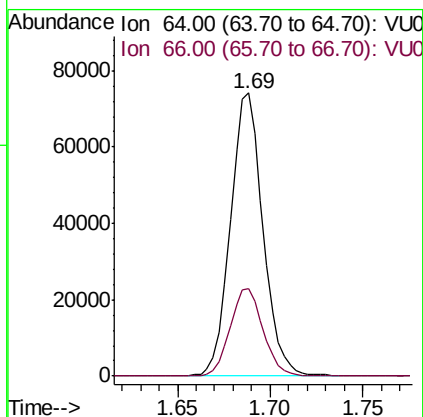
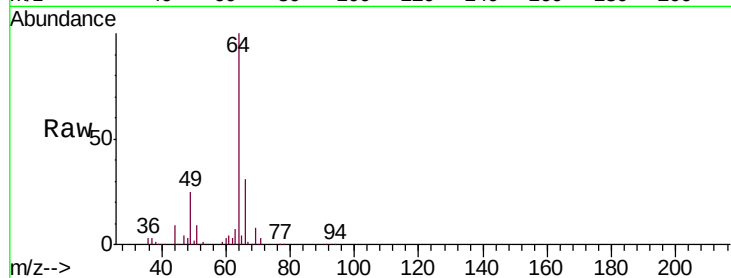
VSTD05057

Tgt Ion: 64 Resp: 89036

Ion Ratio Lower Upper

64 100

66 31.1 22.0 41.0



#9

Trichlorofluoromethane

Concen: 50.330 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033717.D

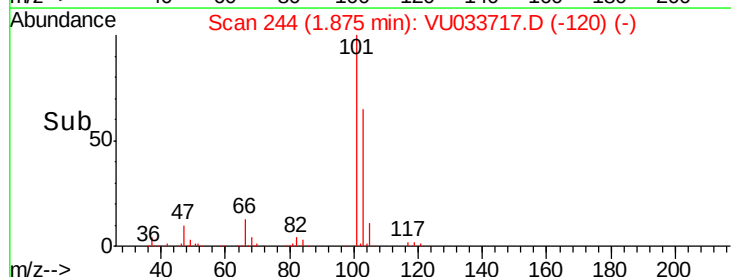
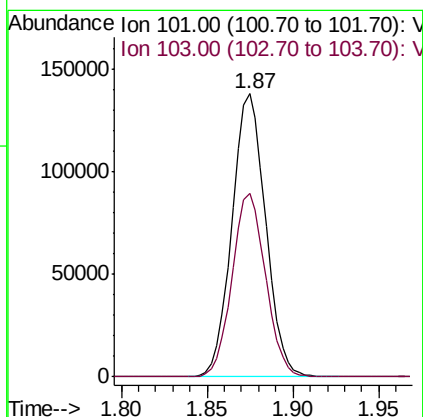
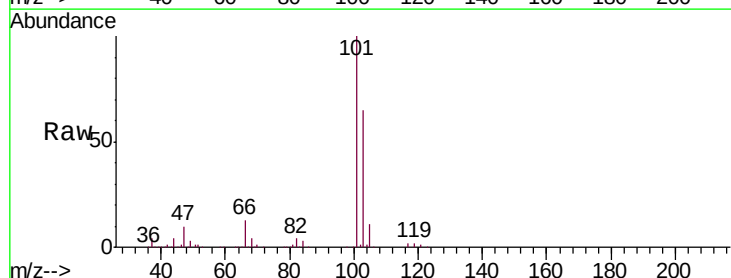
Acq: 10 Aug 2019 05:27

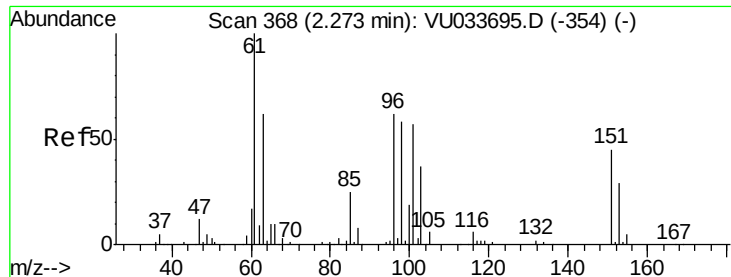
Tgt Ion: 101 Resp: 188607

Ion Ratio Lower Upper

101 100

103 64.5 51.0 76.6





#10

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

Concen: 49.072 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

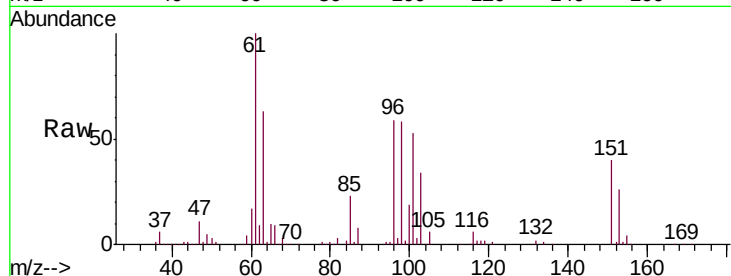
Tgt Ion: 101 Resp: 96440

Ion Ratio Lower Upper

101 100

85 43.2 34.5 51.7

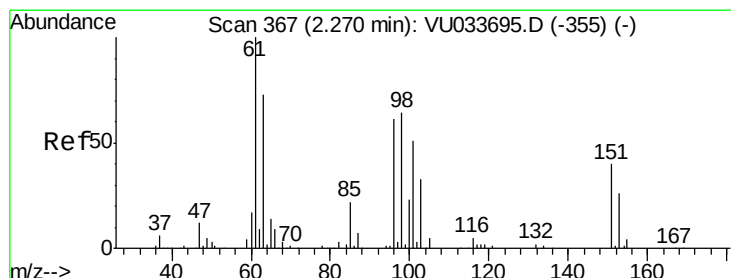
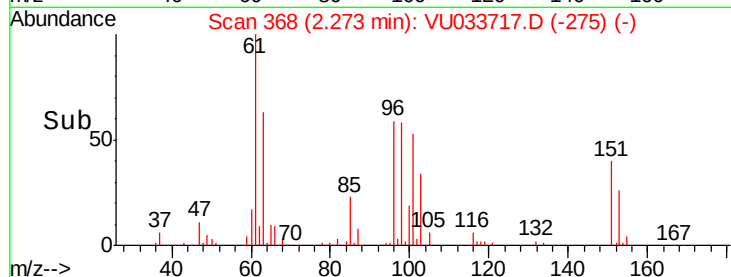
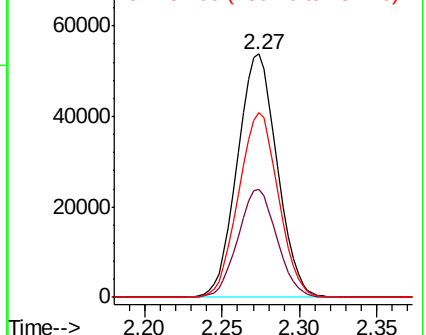
151 75.8 63.0 94.4



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: 49.935 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

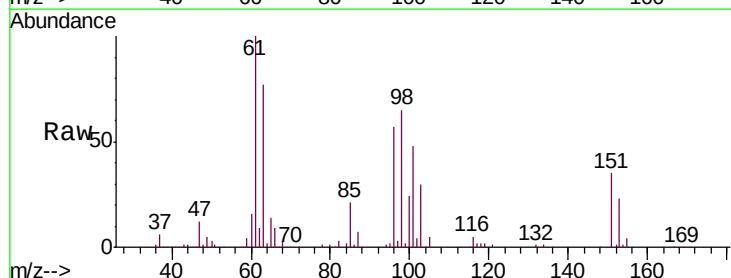
Tgt Ion: 96 Resp: 96398

Ion Ratio Lower Upper

96 100

61 174.4 118.2 219.6

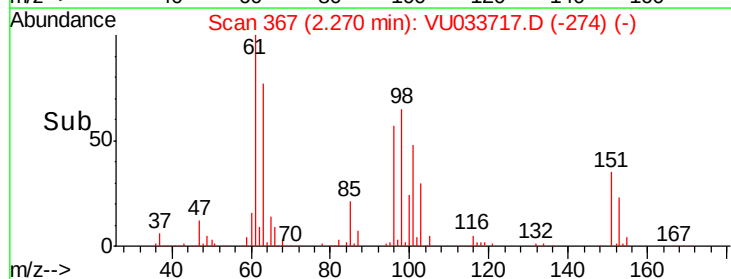
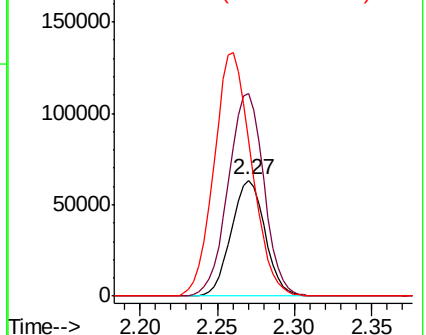
63 133.5 90.7 168.5

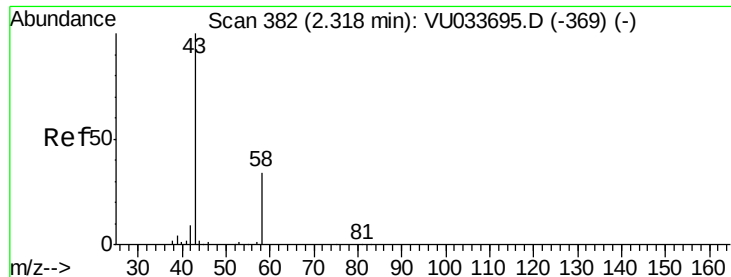


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 85.911 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

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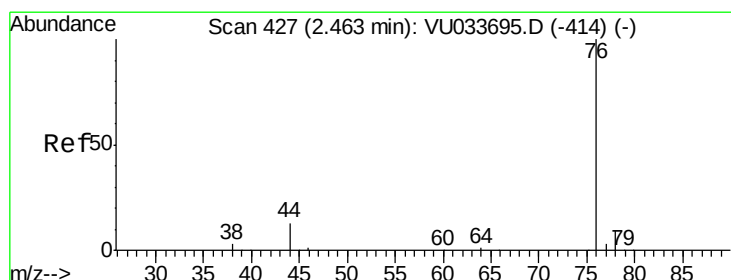
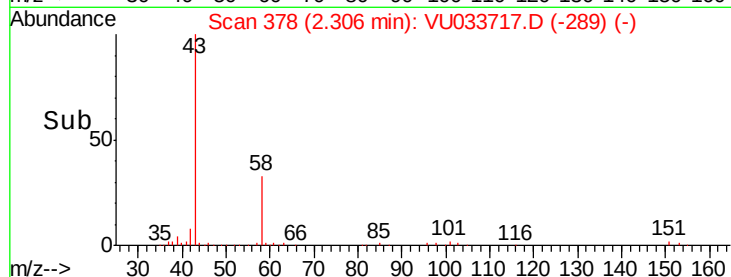
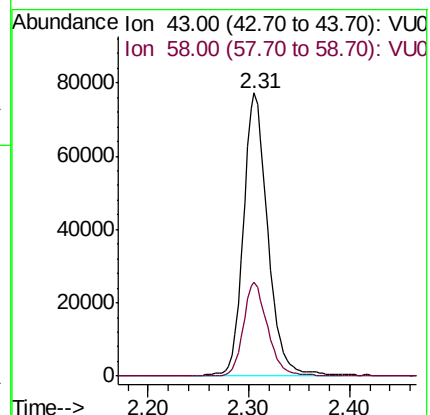
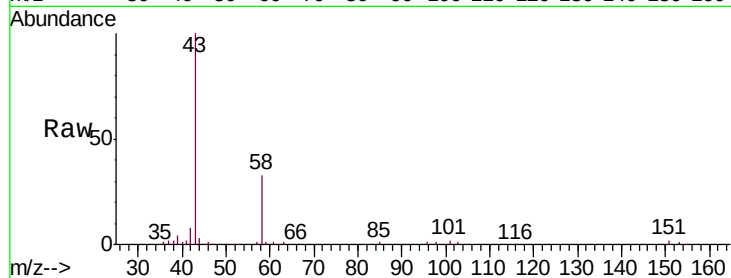
VSTD05057

Tgt Ion: 43 Resp: 129412

Ion Ratio Lower Upper

43 100

58 33.2 0.0 65.6



#14

Carbon disulfide

Concen: 50.290 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033717.D

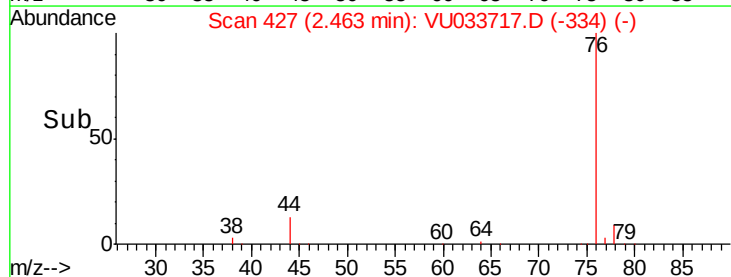
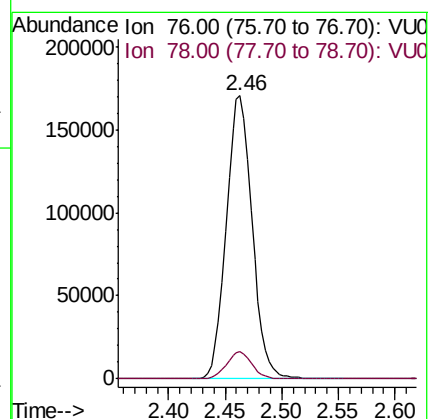
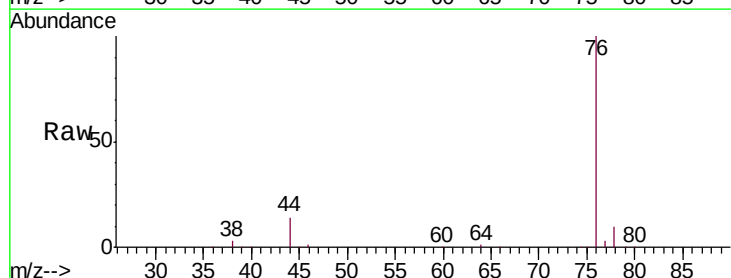
Acq: 10 Aug 2019 05:27

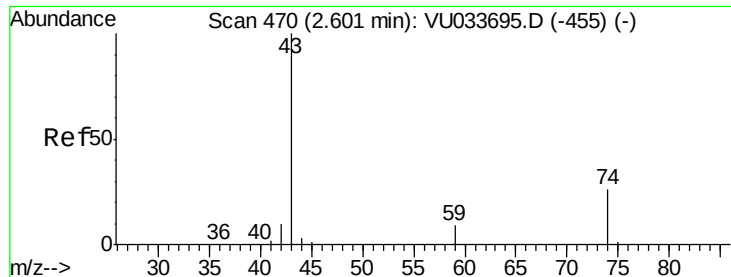
Tgt Ion: 76 Resp: 272533

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7

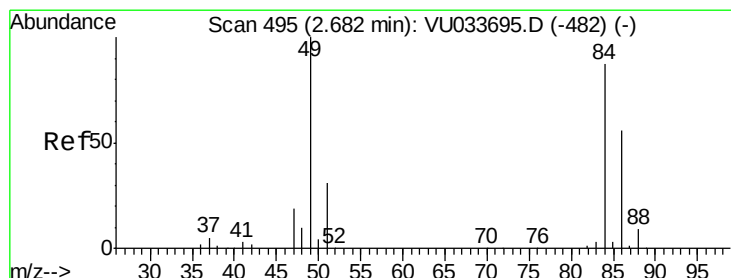
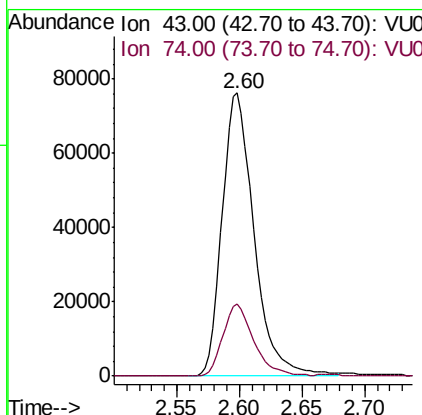
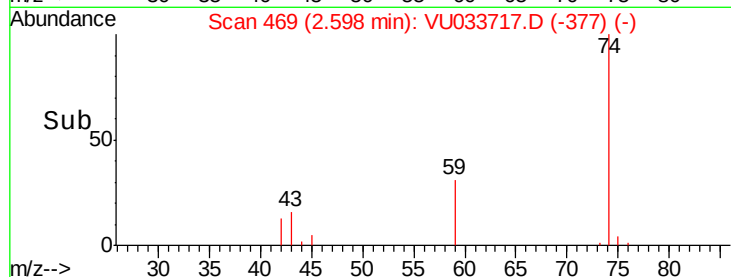
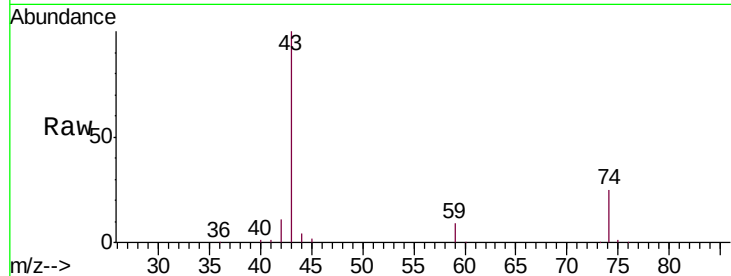




#15
Methyl Acetate
Concen: 53.727 ug/L
RT: 2.60 min Scan# 469
Delta R.T. -0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

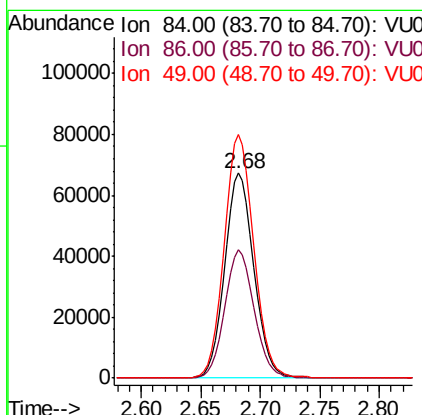
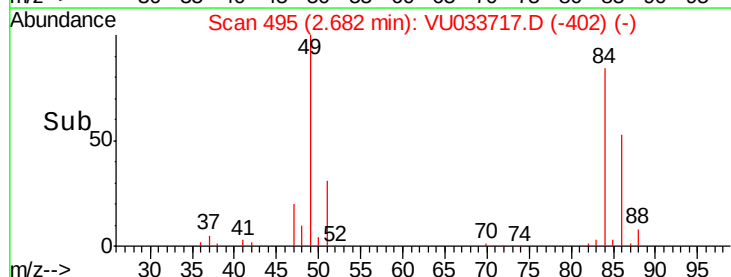
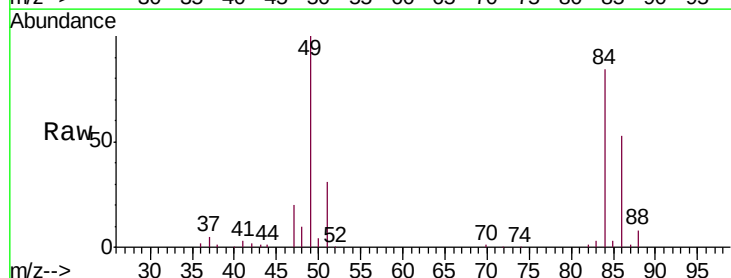
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

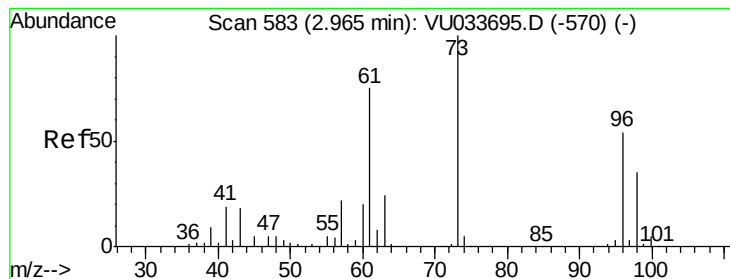
Tgt Ion: 43 Resp: 134847
Ion Ratio Lower Upper
43 100
74 24.5 20.8 31.2



#16
Methylene chloride
Concen: 51.127 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion: 84 Resp: 114524
Ion Ratio Lower Upper
84 100
86 62.4 44.3 82.3
49 118.7 82.3 152.9





#17

trans-1,2-Dichloroethene

Concen: 49.527 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

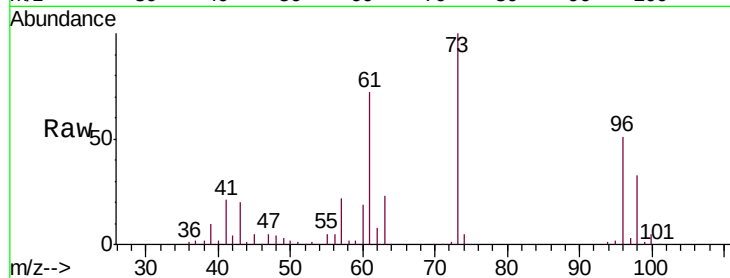
Tgt Ion: 96 Resp: 102473

Ion Ratio Lower Upper

96 100

61 141.5 95.6 177.6

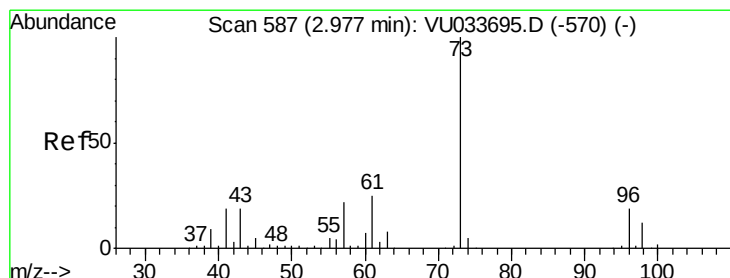
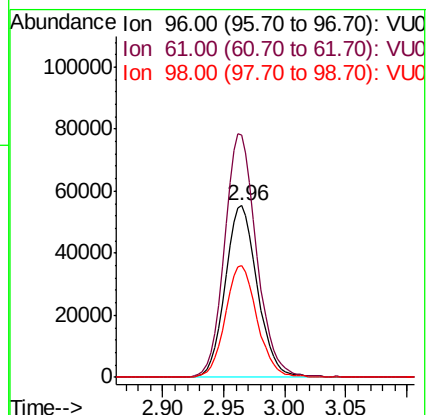
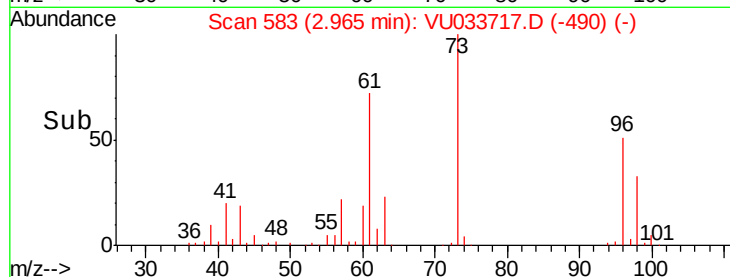
98 65.4 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU033717.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033717.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033717.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 49.871 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

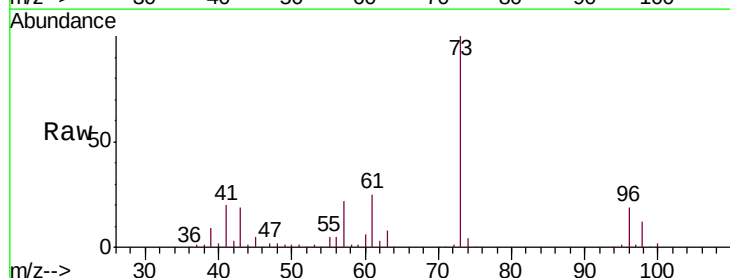
Tgt Ion: 73 Resp: 337482

Ion Ratio Lower Upper

73 100

43 19.3 15.1 22.7

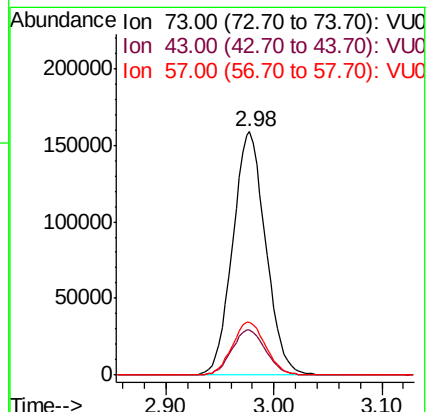
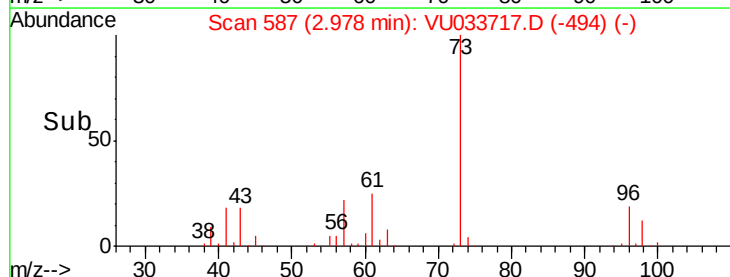
57 22.1 17.4 26.0

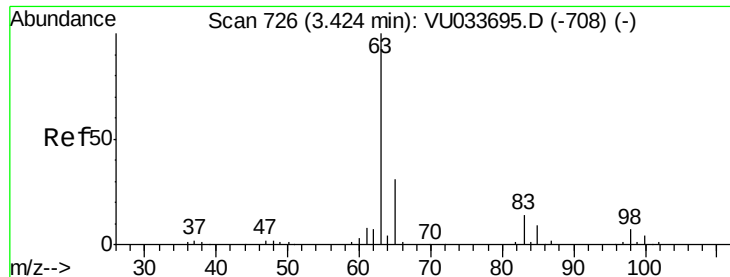


Abundance Ion 73.00 (72.70 to 73.70): VU033717.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033717.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033717.D (-494) (-)

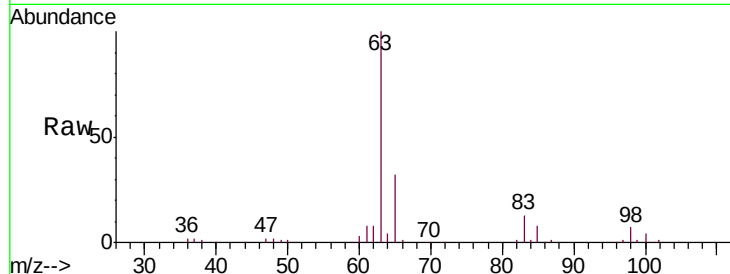




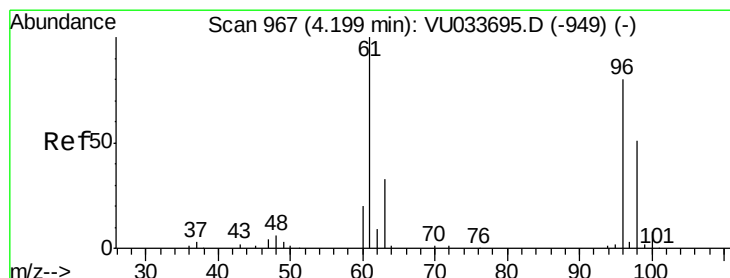
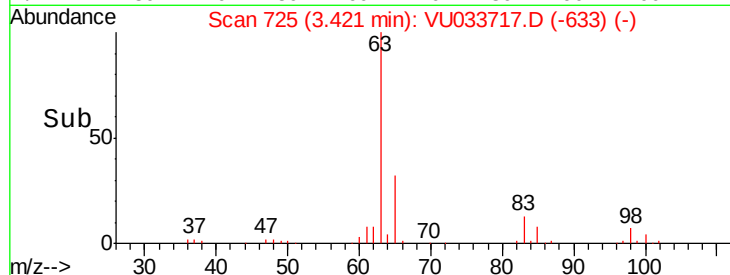
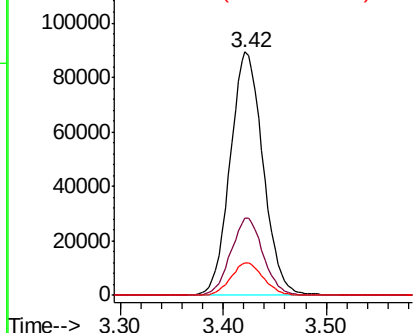
#19
 1,1-Dichloroethane
 Concen: 50.844 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion: 63 Resp: 198522
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.3 41.3
 83 13.1 9.7 18.1

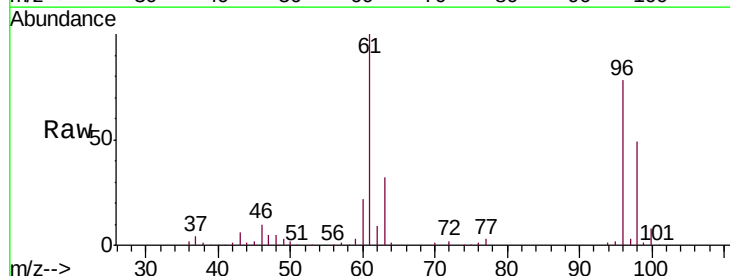


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

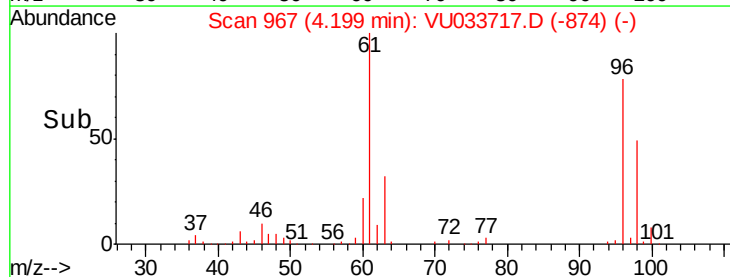
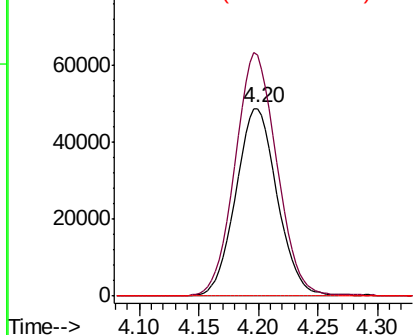


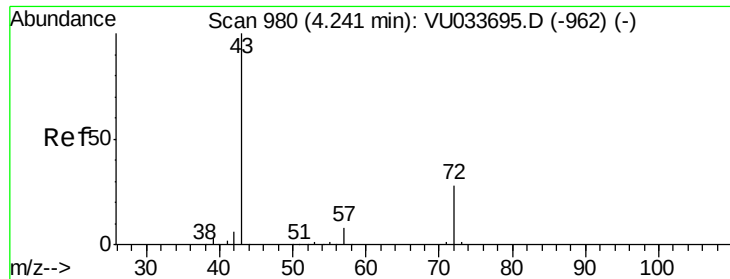
#20
 cis-1,2-Dichloroethene
 Concen: 49.933 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion: 96 Resp: 117843
 Ion Ratio Lower Upper
 96 100
 61 128.1 87.0 161.6
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 108.364 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

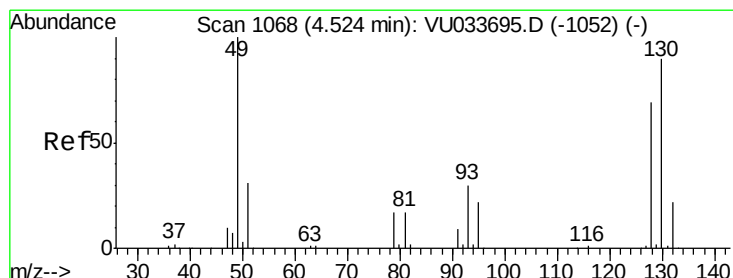
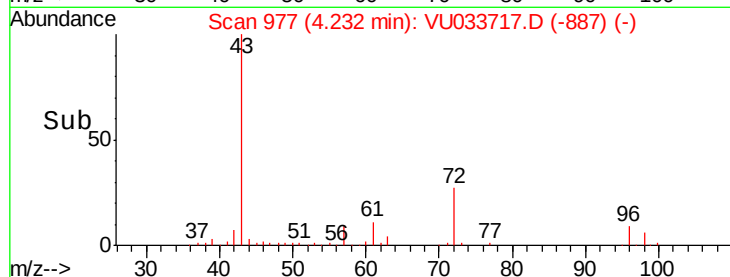
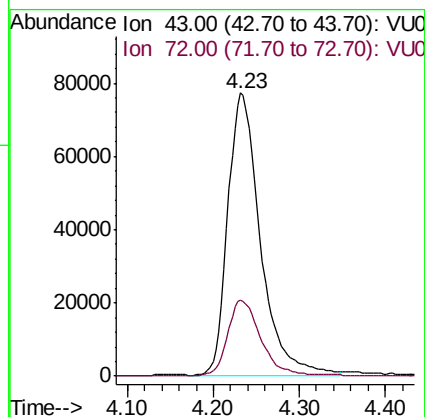
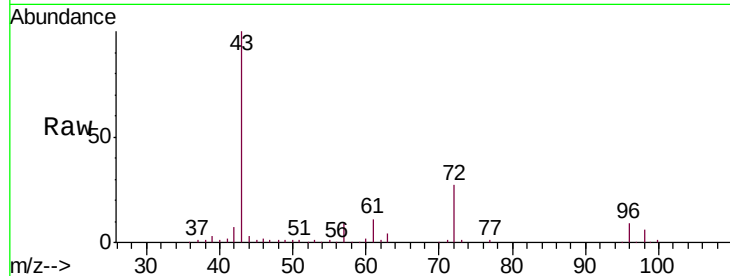
VSTD05057

Tgt Ion: 43 Resp: 203167

Ion Ratio Lower Upper

43 100

72 27.4 15.2 45.6



#23

Bromochloromethane

Concen: 50.946 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Tgt Ion: 128 Resp: 61864

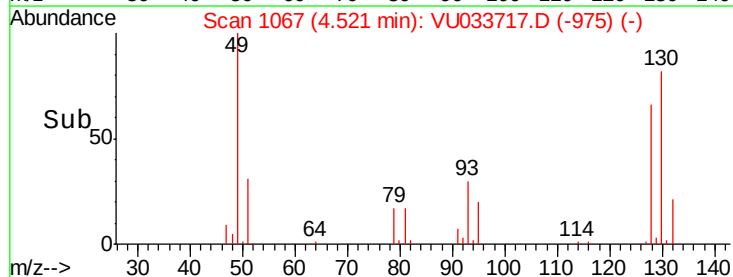
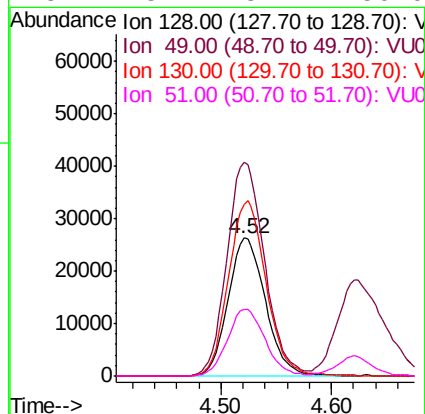
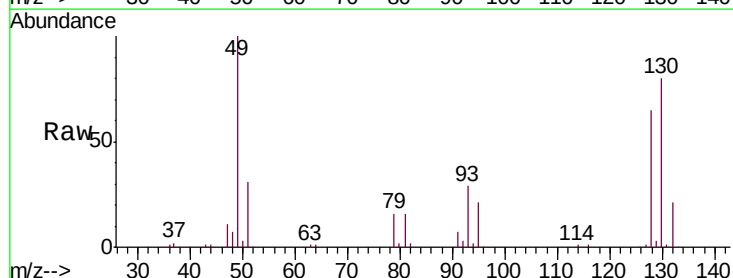
Ion Ratio Lower Upper

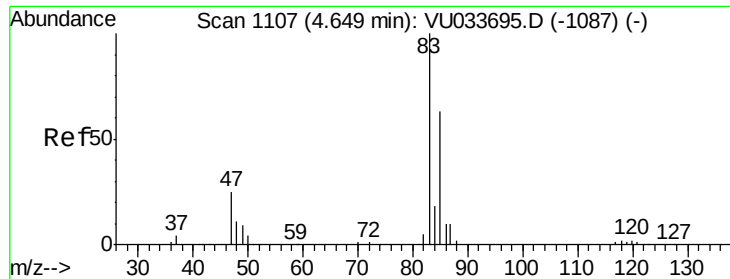
128 100

49 155.0 104.7 194.4

130 124.8 89.6 166.4

51 48.7 37.4 56.0

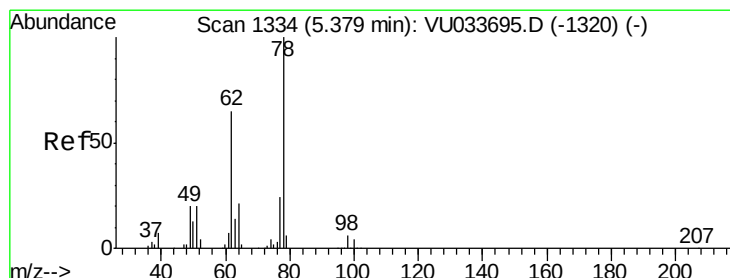
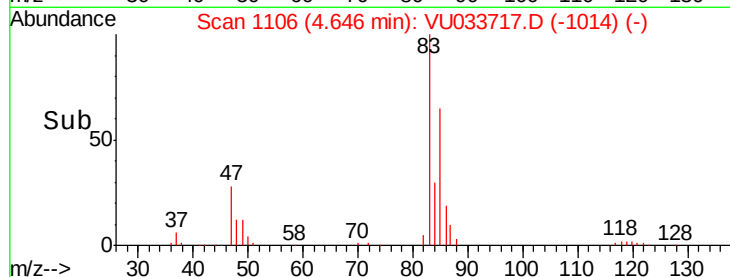
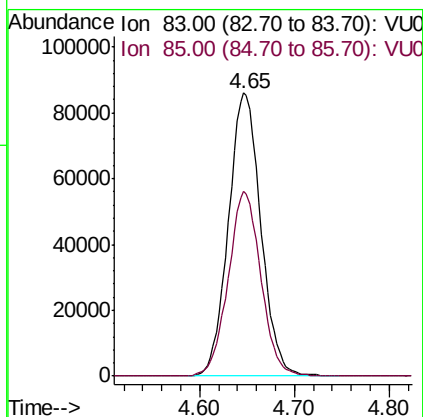
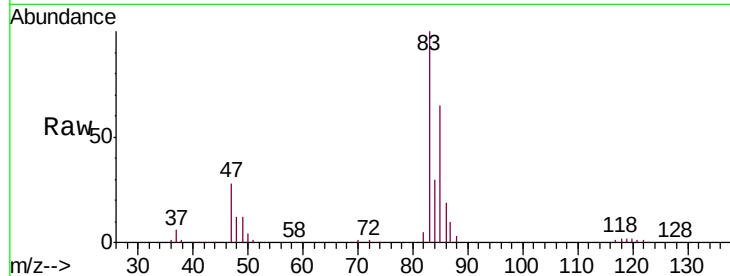




#25
Chloroform
Concen: 50.301 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

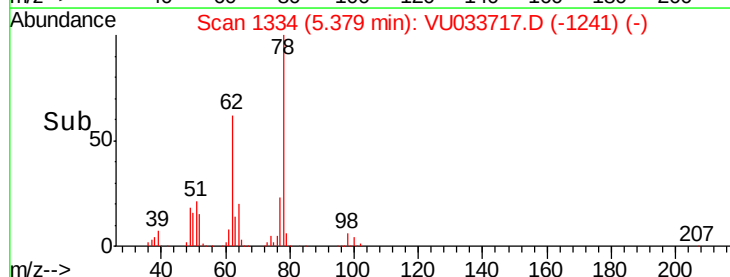
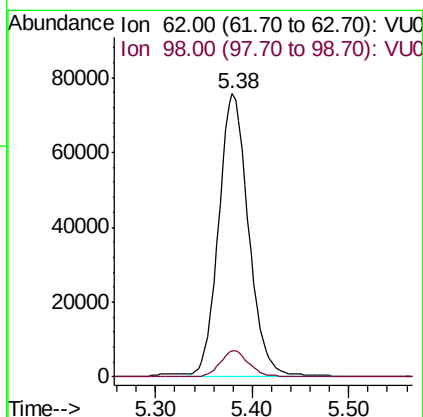
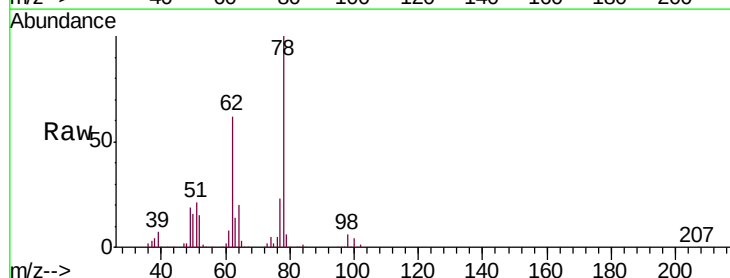
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

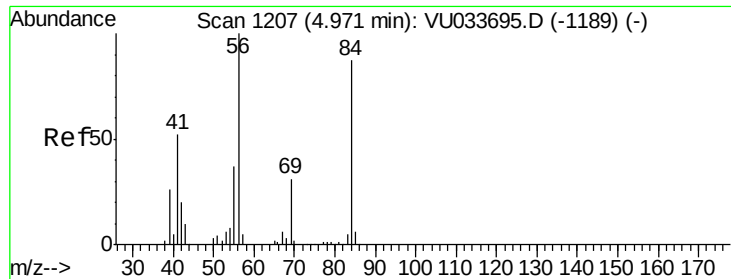
Tgt Ion: 83 Resp: 204876
Ion Ratio Lower Upper
83 100
85 65.1 45.9 85.3



#27
1,2-Dichloroethane
Concen: 52.407 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion: 62 Resp: 162570
Ion Ratio Lower Upper
62 100
98 9.3 7.4 11.2

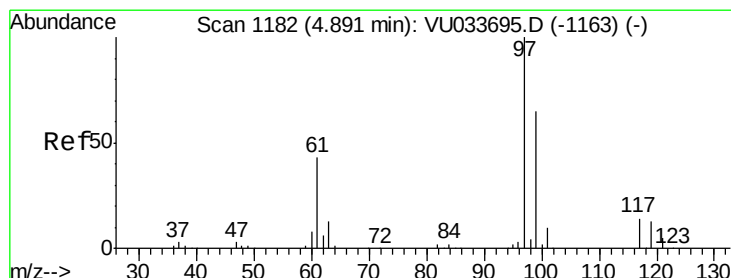
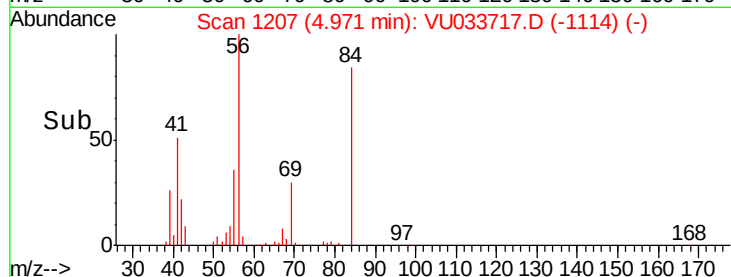
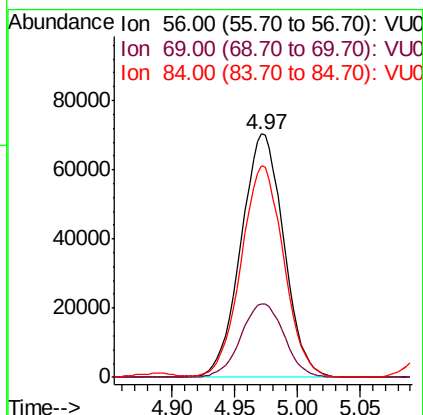
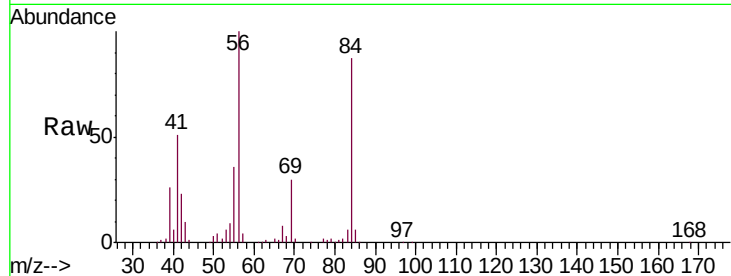




#29
Cyclohexane
Concen: 48.714 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

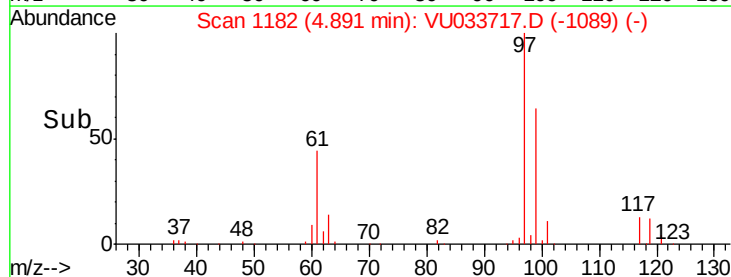
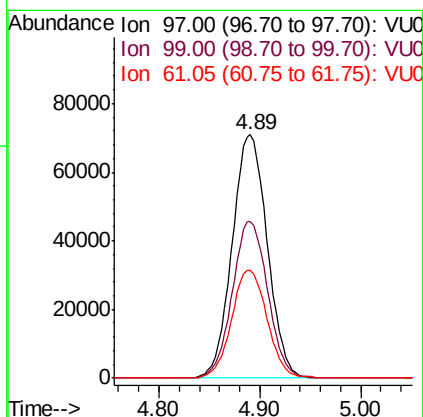
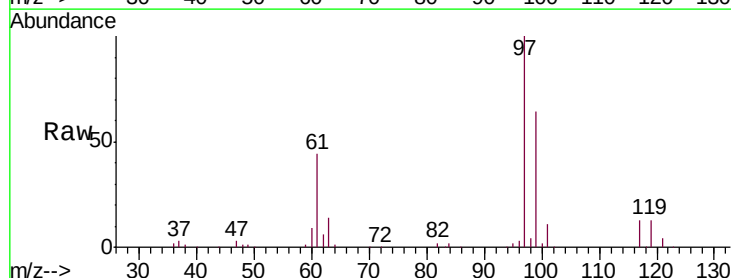
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

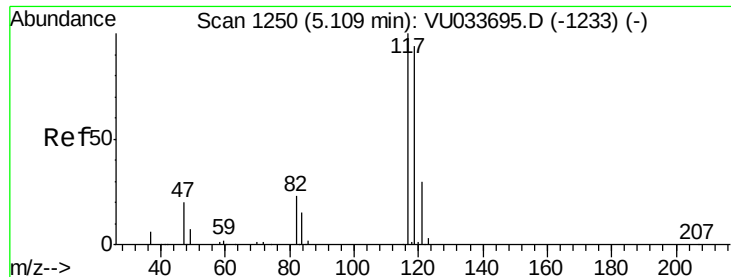
Tgt Ion: 56 Resp: 166816
Ion Ratio Lower Upper
56 100
69 30.6 25.3 37.9
84 86.3 71.8 107.8



#30
1,1,1-Trichloroethane
Concen: 48.796 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion: 97 Resp: 171829
Ion Ratio Lower Upper
97 100
99 64.7 52.0 78.0
61 44.8 35.0 52.4





#31

Carbon tetrachloride

Concen: 48.372 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

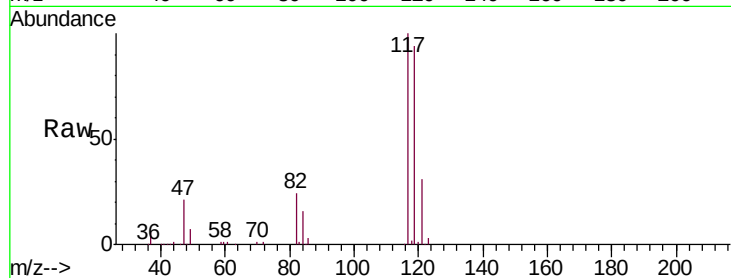
VSTD05057

Tgt Ion:117 Resp: 152825

Ion Ratio Lower Upper

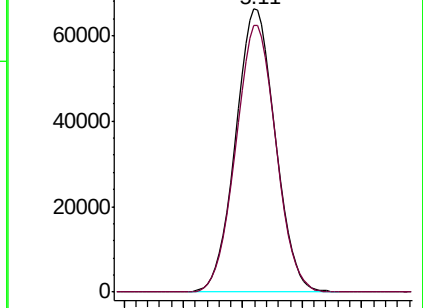
117 100

119 95.4 78.2 117.4

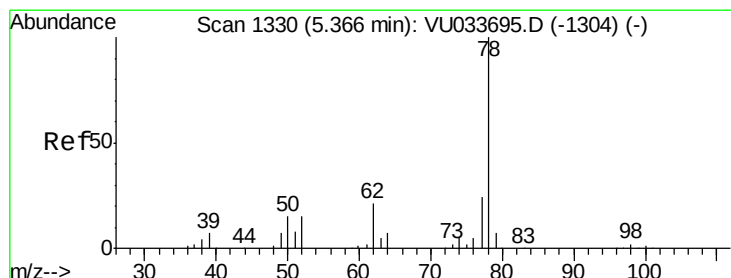
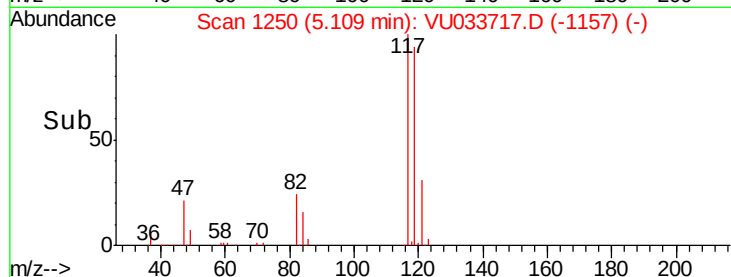


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 48.690 ug/L

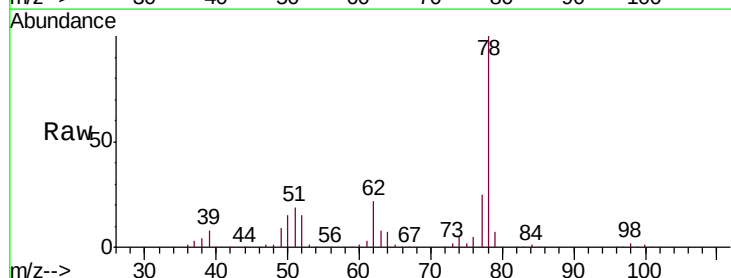
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

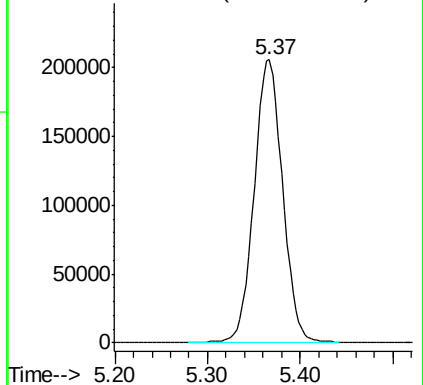
Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

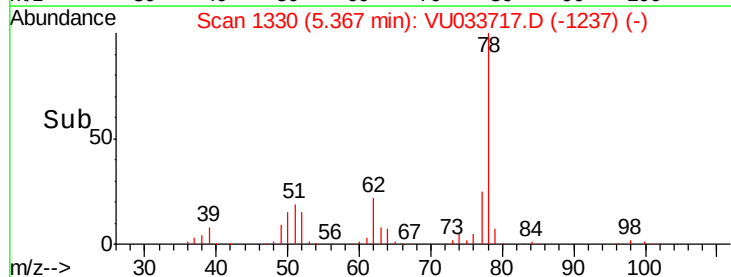
Tgt Ion: 78 Resp: 439713

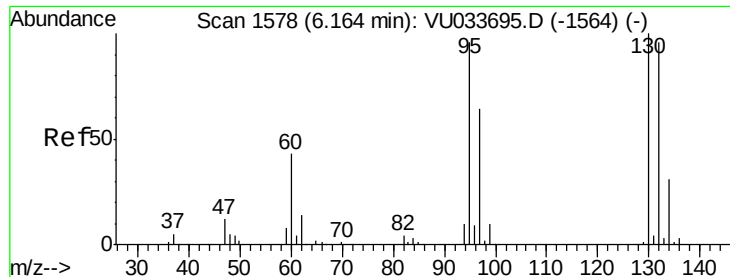


Abundance Ion 78.00 (77.70 to 78.70): VU0



Time--> 5.20 5.30 5.40





#34

Trichloroethene

Concen: 47.496 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 95 Resp: 113175

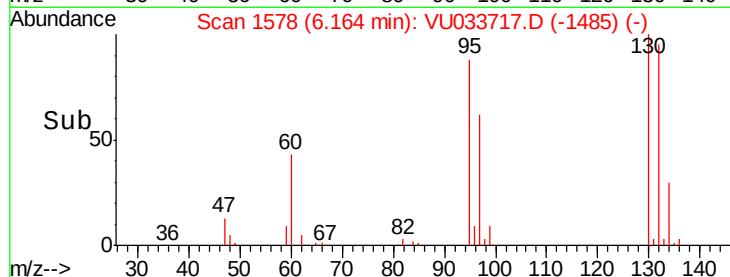
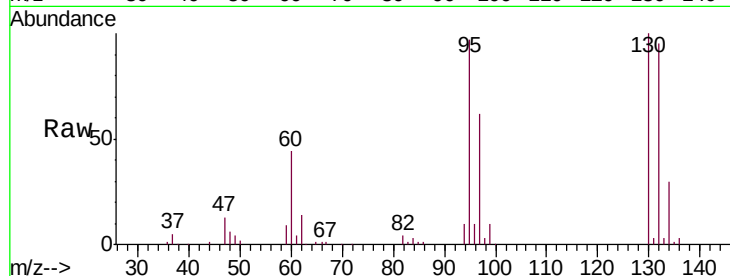
Ion Ratio Lower Upper

95 100

97 64.3 45.6 84.8

132 98.5 72.0 133.8

130 103.5 74.3 138.1

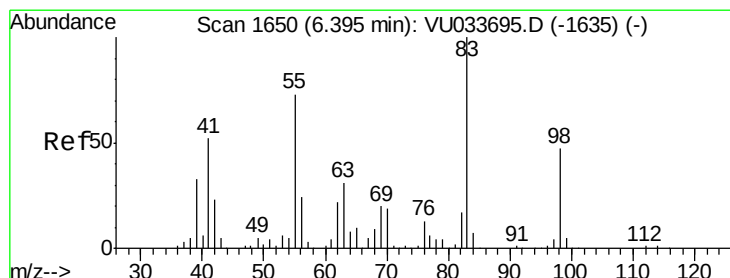
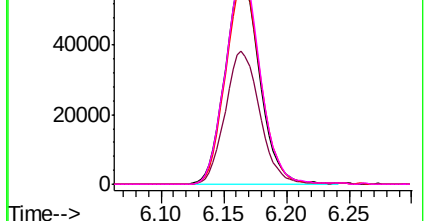


Abundance Ion 95.00 (94.70 to 95.70): VU033717.D (-1485) (-)

Ion 97.00 (96.70 to 97.70): VU033717.D (-1485) (-)

Ion 132.00 (131.70 to 132.70): VU033717.D (-1485) (-)

Ion 130.00 (129.70 to 130.70): VU033717.D (-1485) (-)



#35

Methylcyclohexane

Concen: 47.261 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

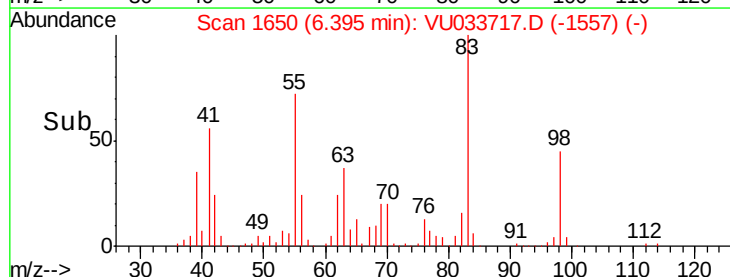
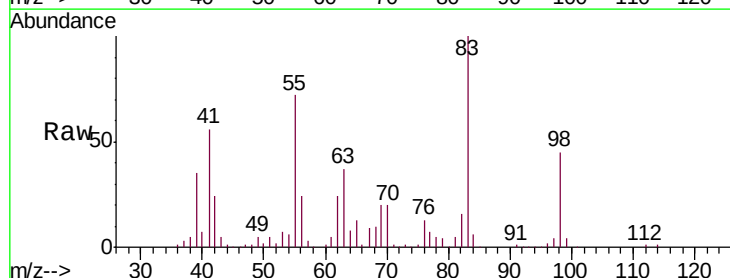
Tgt Ion: 83 Resp: 171423

Ion Ratio Lower Upper

83 100

55 73.8 58.1 87.1

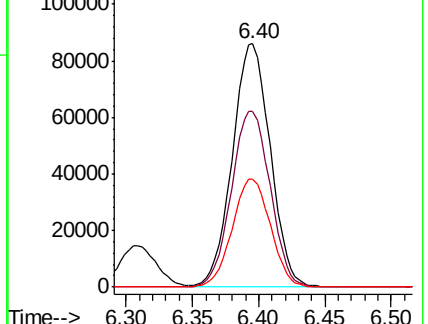
98 44.8 36.8 55.2

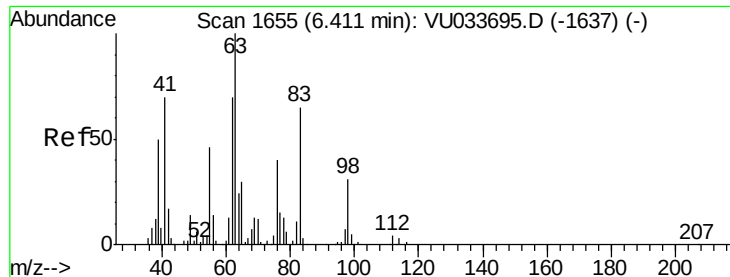


Abundance Ion 83.00 (82.70 to 83.70): VU033717.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033717.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033717.D (-1557) (-)

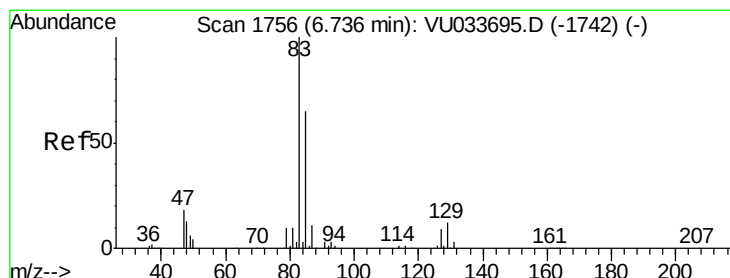
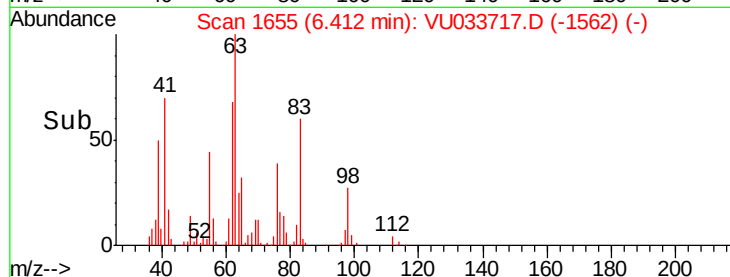
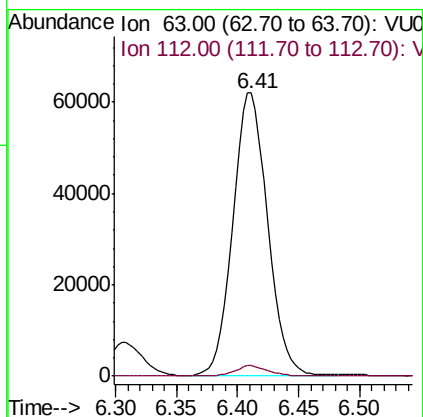
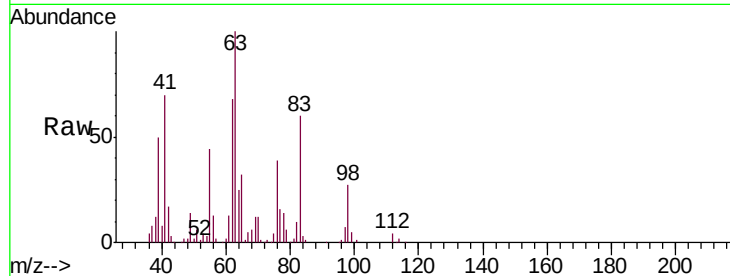




#37
 1,2-Dichloropropane
 Concen: 50.620 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

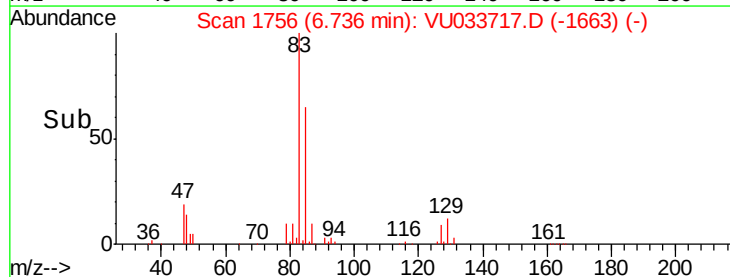
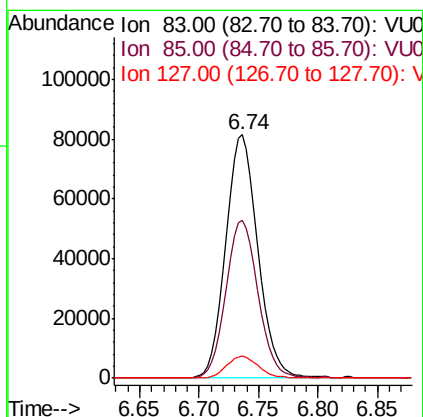
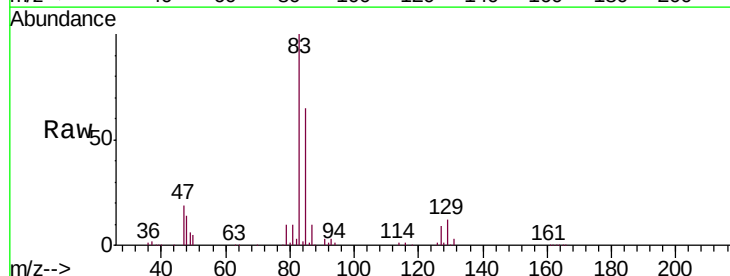
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

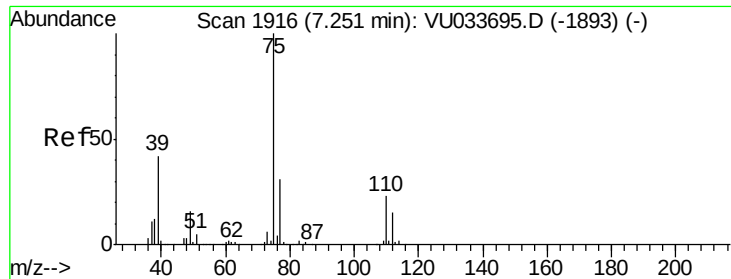
Tgt Ion: 63 Resp: 122001
 Ion Ratio Lower Upper
 63 100
 112 3.5 3.1 4.7



#38
 Bromodichloromethane
 Concen: 49.284 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion: 83 Resp: 152624
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.2 82.0
 127 9.1 6.8 10.2

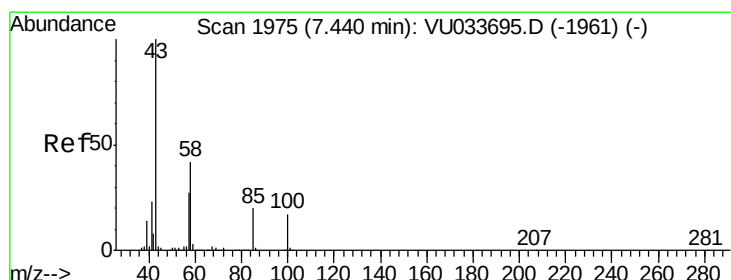
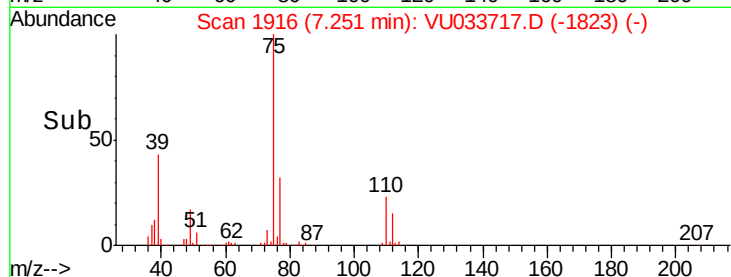
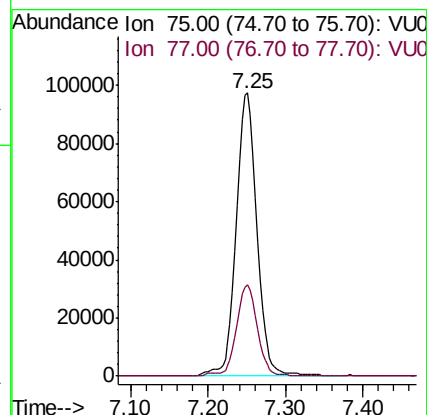
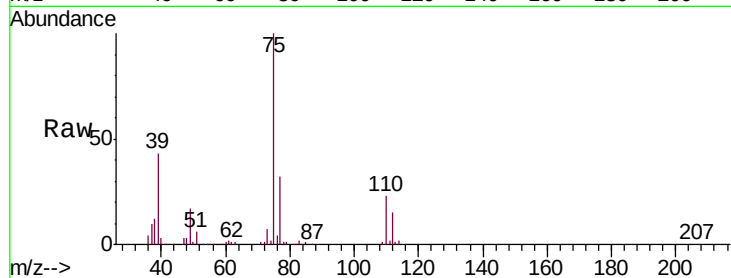




#39
 cis-1,3-Dichloropropene
 Concen: 46.721 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

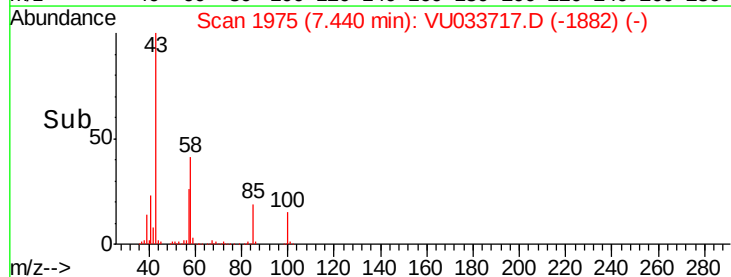
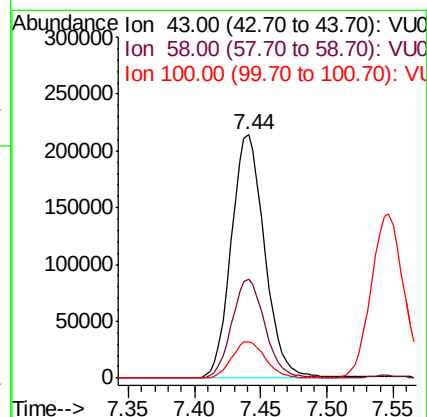
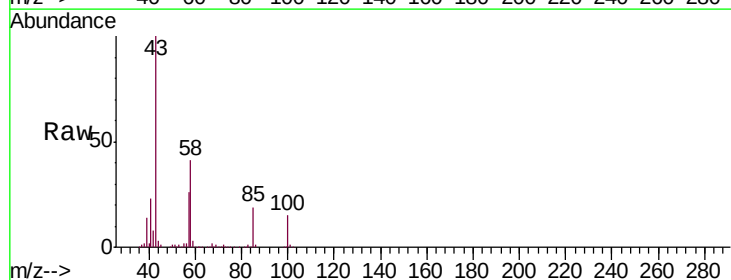
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05057

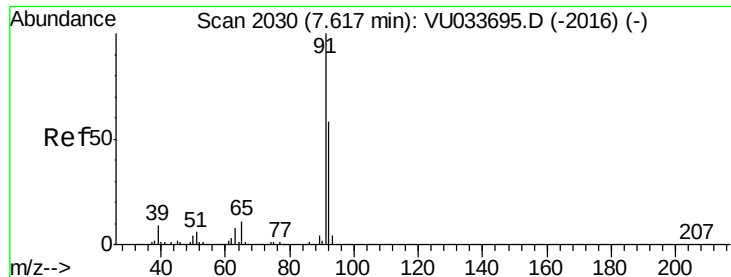
Tgt Ion: 75 Resp: 178945
 Ion Ratio Lower Upper
 75 100
 77 32.2 21.7 40.3



#40
 4-Methyl-2-pentanone
 Concen: 104.651 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion: 43 Resp: 375106
 Ion Ratio Lower Upper
 43 100
 58 40.4 33.4 50.0
 100 15.1 13.2 19.8





#42

Toluene

Concen: 49.429 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

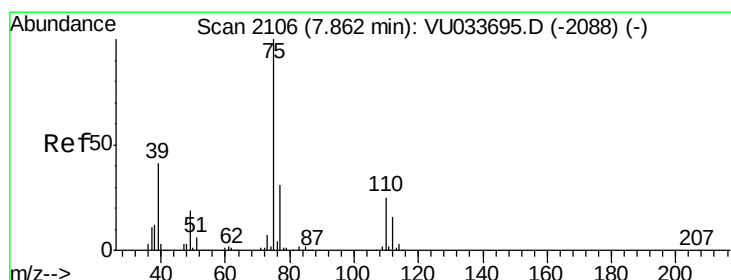
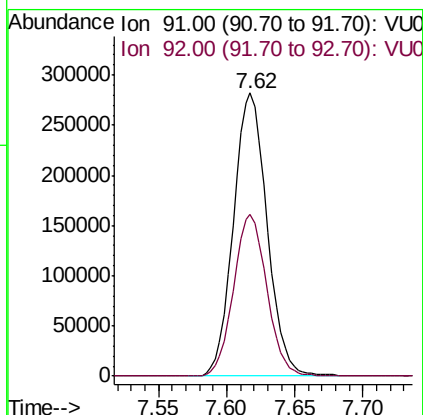
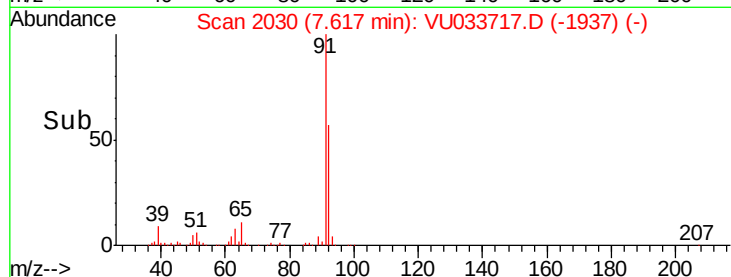
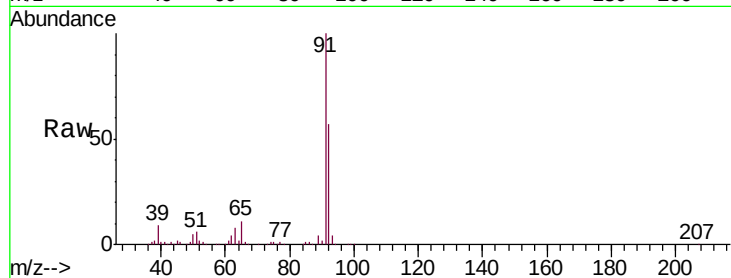
VSTD05057

Tgt Ion: 91 Resp: 482911

Ion Ratio Lower Upper

91 100

92 57.1 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 47.346 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033717.D

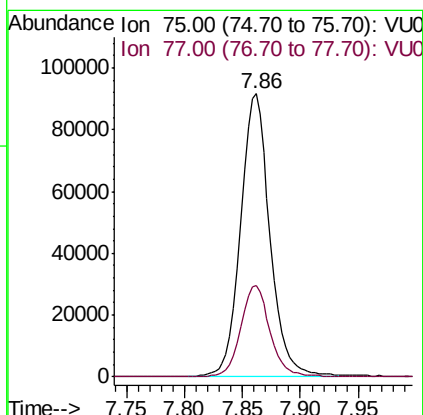
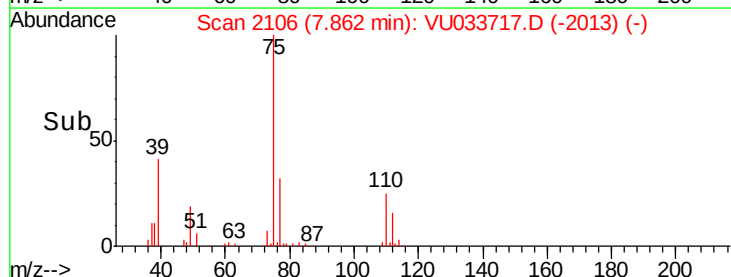
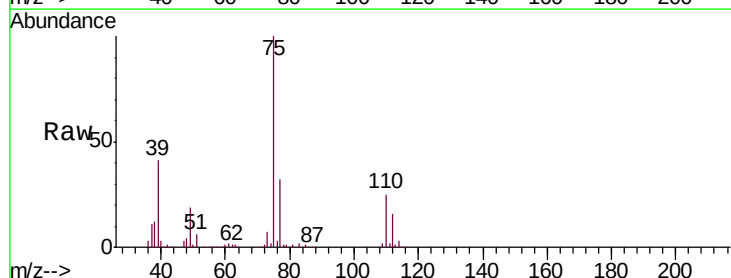
Acq: 10 Aug 2019 05:27

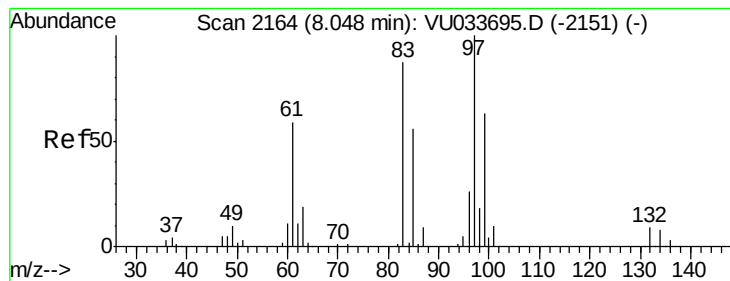
Tgt Ion: 75 Resp: 161544

Ion Ratio Lower Upper

75 100

77 32.3 22.4 41.6





#45

1,1,2-Trichloroethane

Concen: 48.877 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

Tgt Ion: 97 Resp: 115157

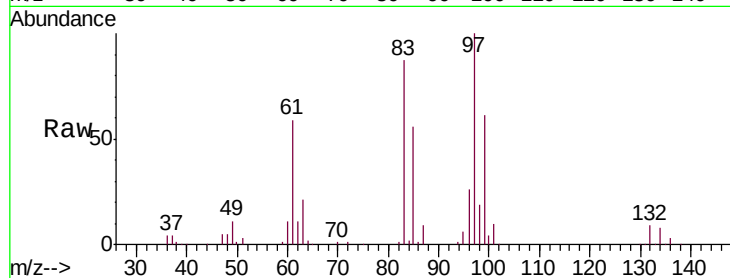
Ion Ratio Lower Upper

97 100

99 61.1 43.3 80.5

83 86.8 60.5 112.5

85 56.5 38.9 72.3

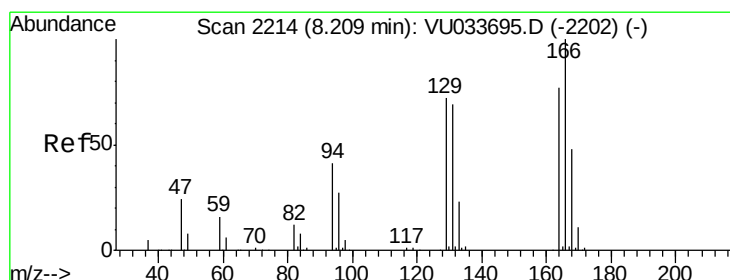
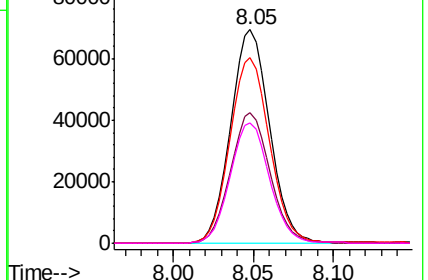
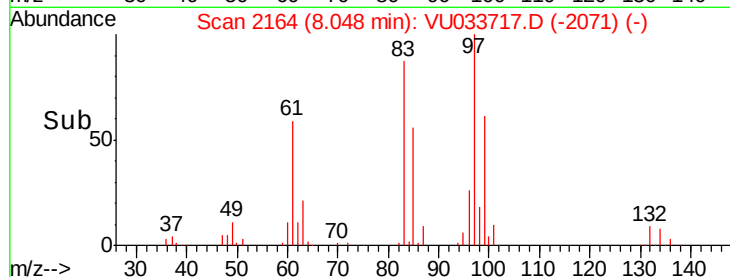


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 45.985 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Tgt Ion: 164 Resp: 90326

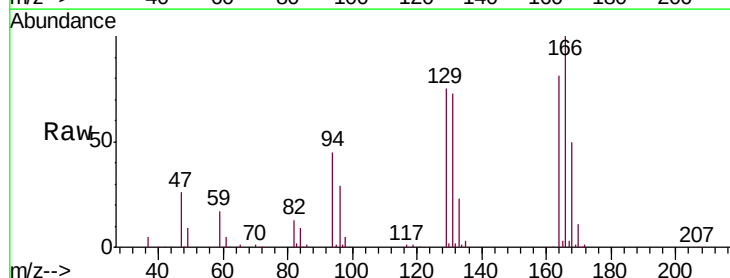
Ion Ratio Lower Upper

164 100

129 92.6 65.5 121.7

131 90.0 63.6 118.0

166 123.2 92.7 172.3

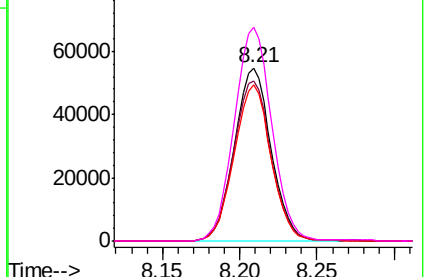
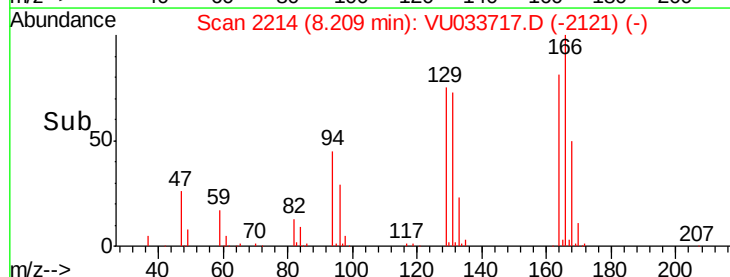


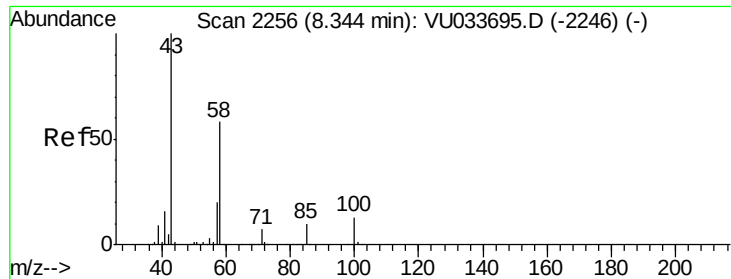
Abundance Ion 164.00 (163.70 to 164.70): V

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

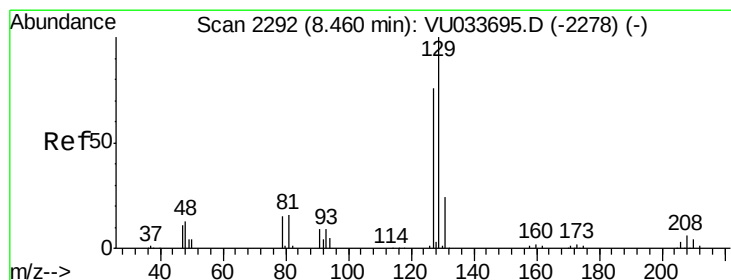
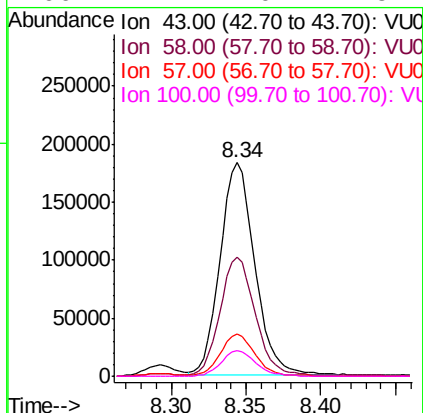
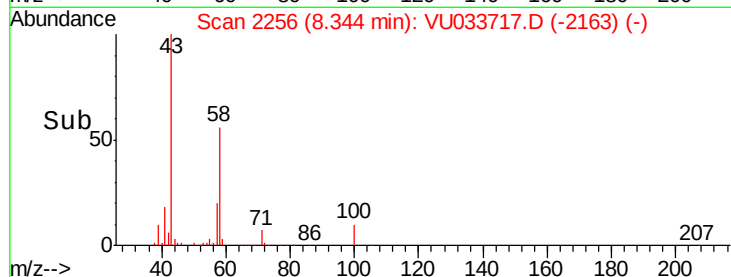
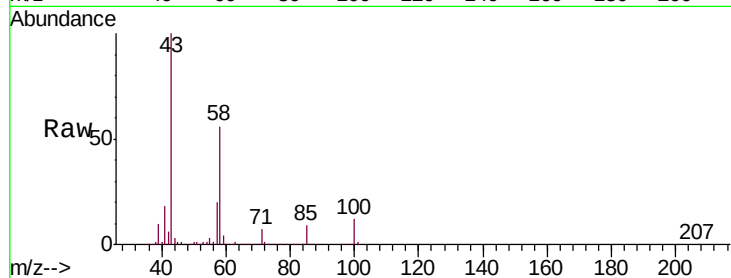




#48
2-Hexanone
Concen: 104.847 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

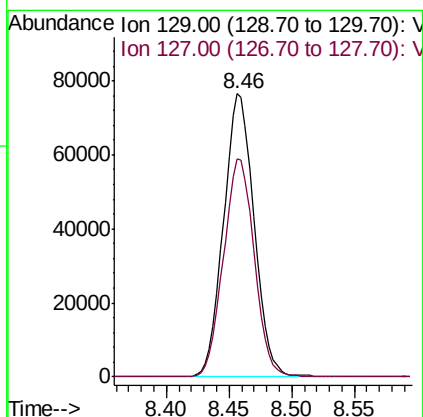
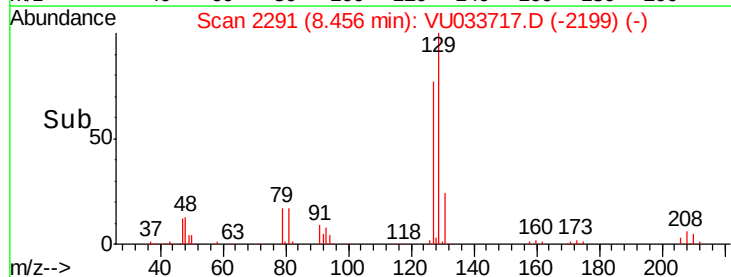
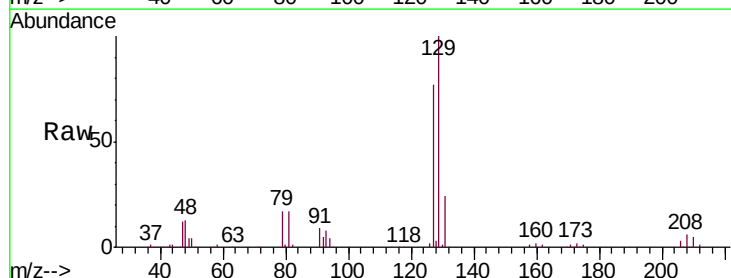
Instrument :
MSVOA_U
ClientSampled :
VSTD05057

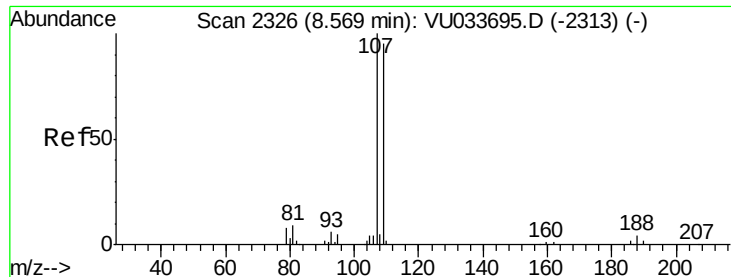
Tgt Ion:	43	Resp:	295911
Ion	Ratio	Lower	Upper
43	100		
58	56.8	46.6	70.0
57	19.8	16.2	24.4
100	12.2	10.1	15.1



#49
Dibromochloromethane
Concen: 48.972 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion:	129	Resp:	129284
Ion	Ratio	Lower	Upper
129	100		
127	77.0	53.3	98.9

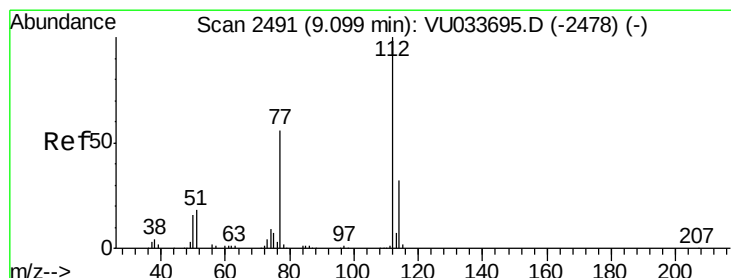
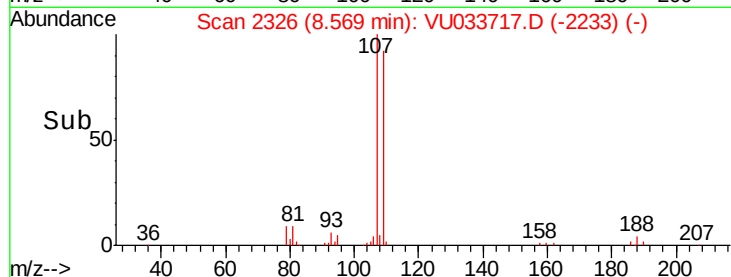
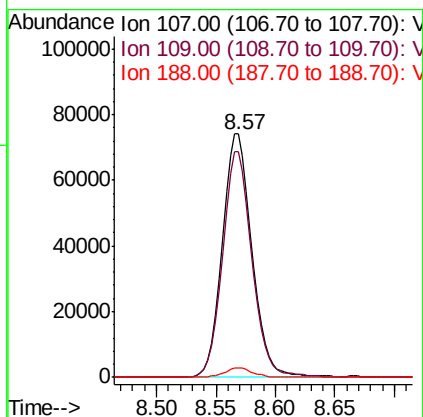
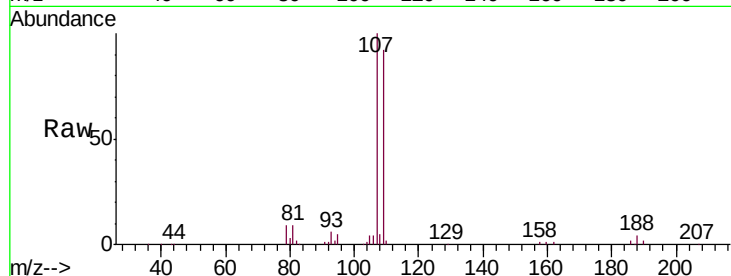




#50
1,2-Dibromoethane
Concen: 49.019 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

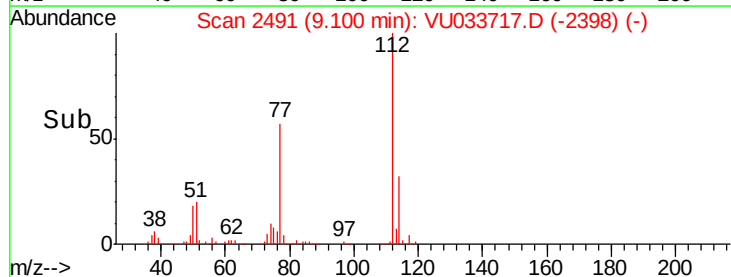
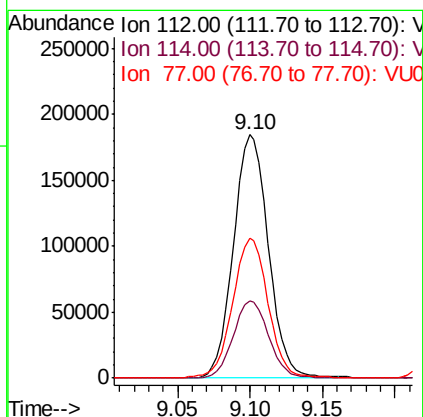
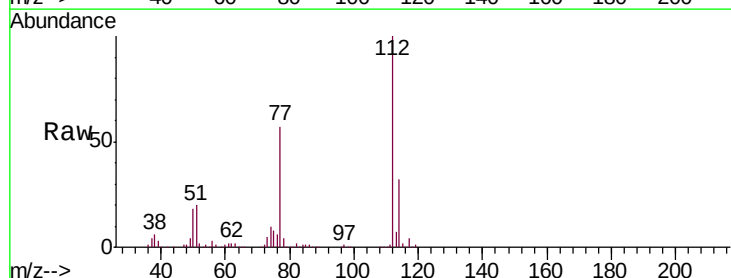
Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

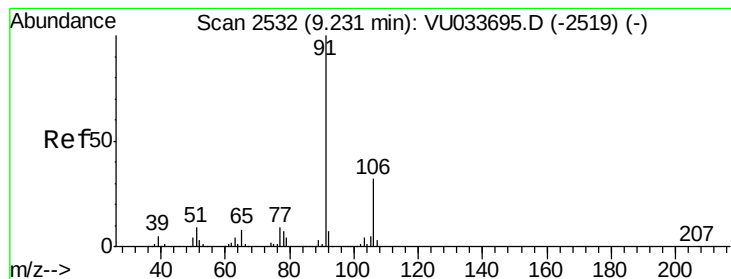
Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.5	66.4	123.4
188	3.9	3.2	4.8



#51
Chlorobenzene
Concen: 48.039 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.9
77	57.4	45.3	67.9





#52

Ethylbenzene

Concen: 48.437 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

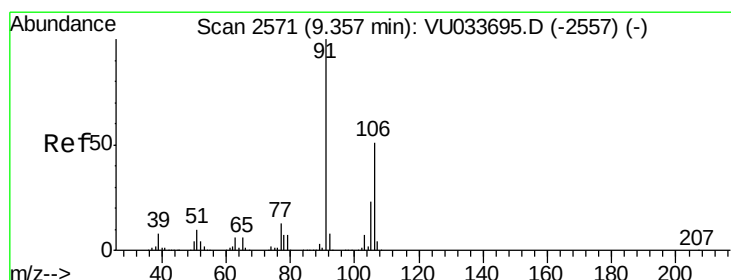
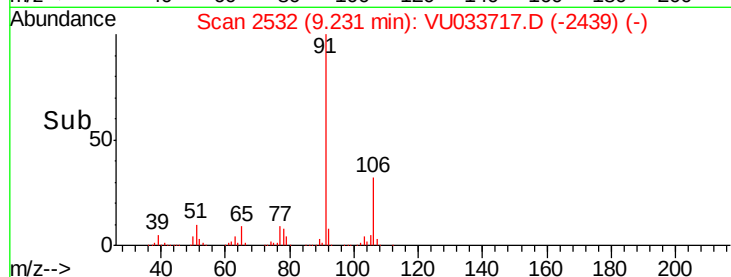
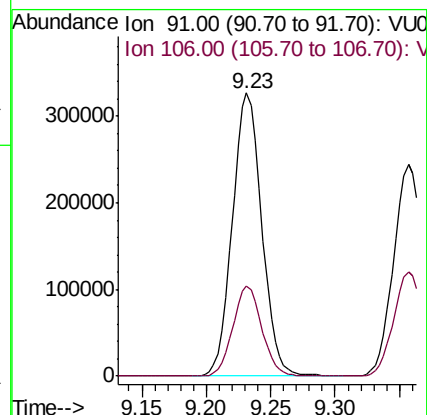
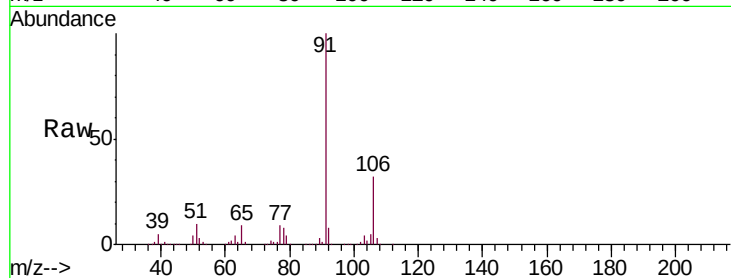
VSTD05057

Tgt Ion: 91 Resp: 517669

Ion Ratio Lower Upper

91 100

106 31.8 22.5 41.7



#53

m,p-Xylene

Concen: 47.790 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033717.D

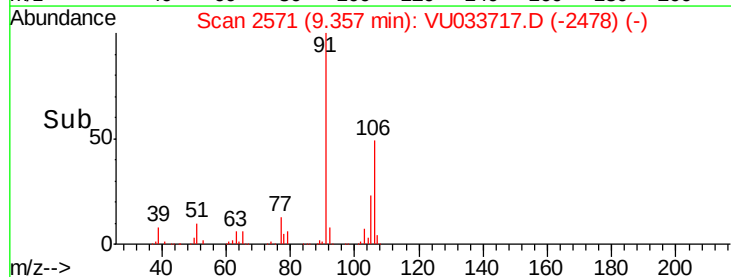
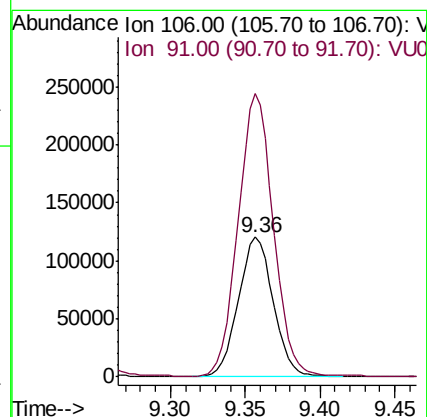
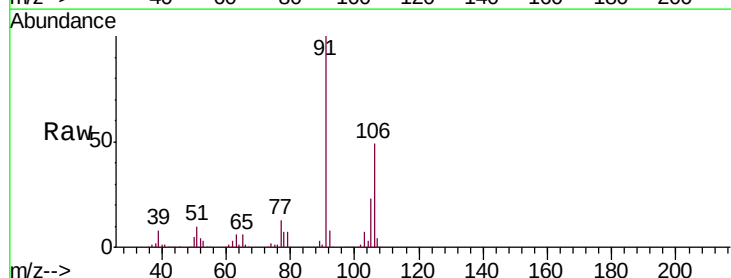
Acq: 10 Aug 2019 05:27

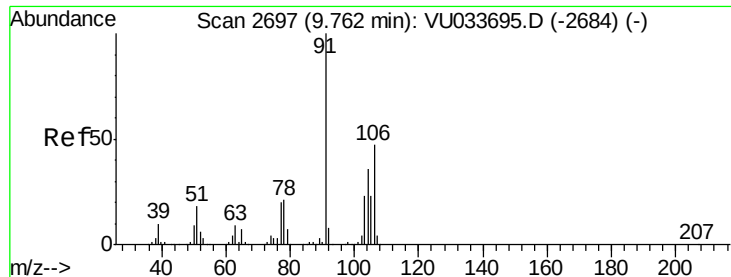
Tgt Ion: 106 Resp: 194966

Ion Ratio Lower Upper

106 100

91 202.9 138.8 257.8





#54

o-xylene

Concen: 48.465 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

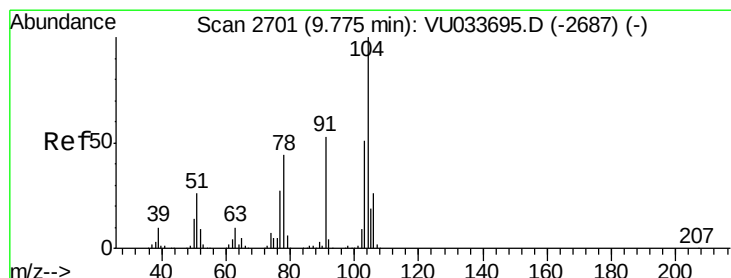
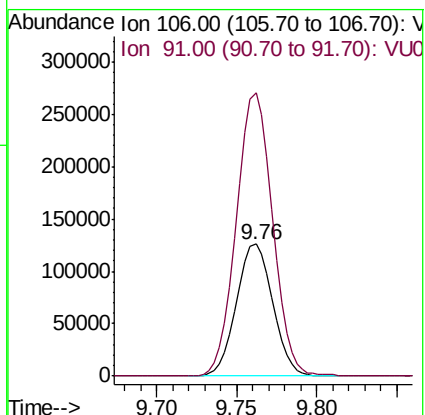
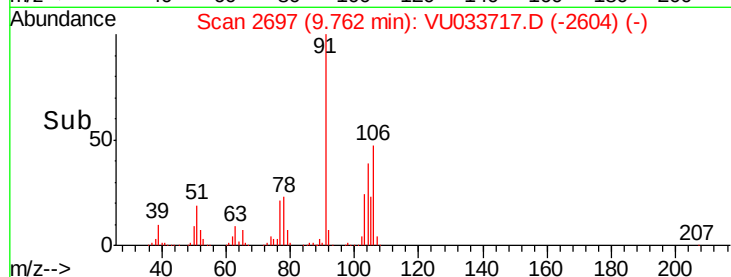
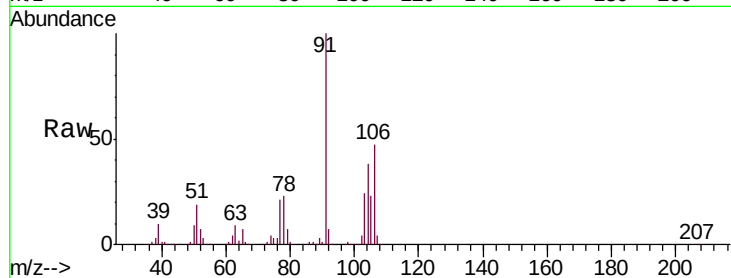
VSTD05057

Tgt Ion:106 Resp: 195424

Ion Ratio Lower Upper

106 100

91 214.0 150.9 280.3



#55

Styrene

Concen: 49.831 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033717.D

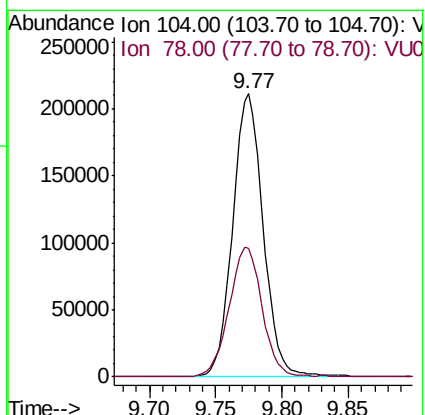
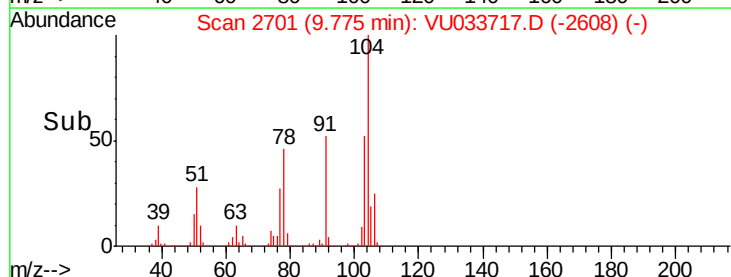
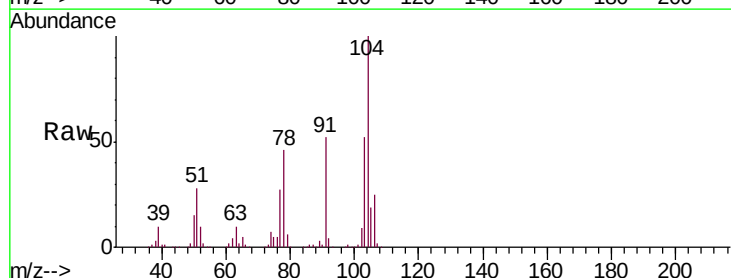
Acq: 10 Aug 2019 05:27

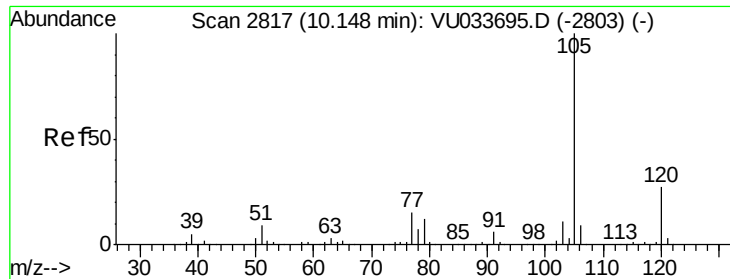
Tgt Ion:104 Resp: 337179

Ion Ratio Lower Upper

104 100

78 45.6 31.0 57.6





#56

Isopropylbenzene

Concen: 48.113 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

VSTD05057

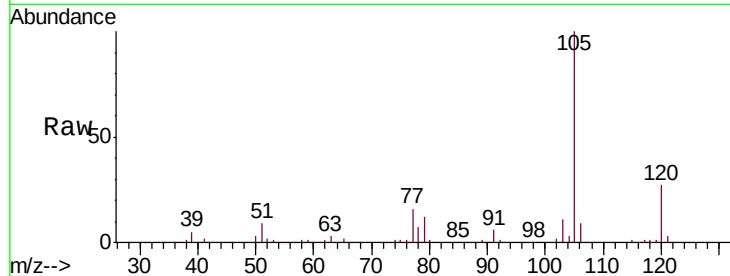
Tgt Ion: 105 Resp: 509123

Ion Ratio Lower Upper

105 100

120 26.8 21.6 32.4

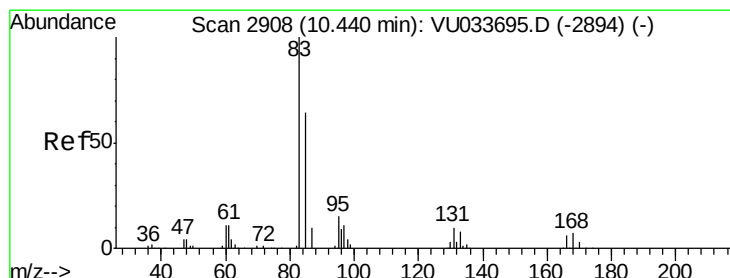
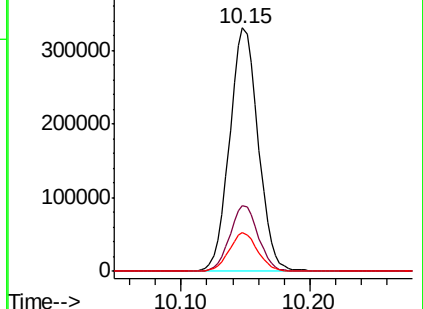
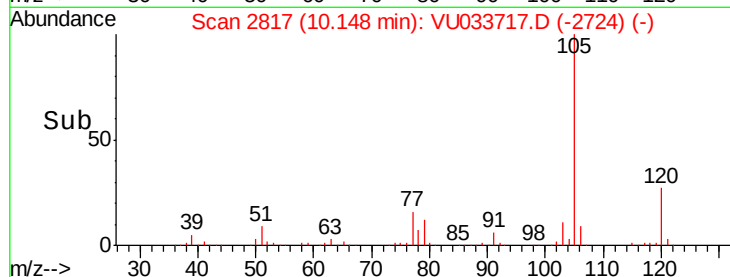
77 15.8 12.3 18.5



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: 49.930 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

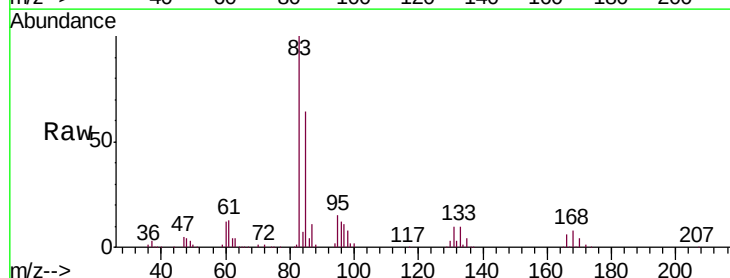
Tgt Ion: 83 Resp: 206658

Ion Ratio Lower Upper

83 100

85 63.9 45.8 85.0

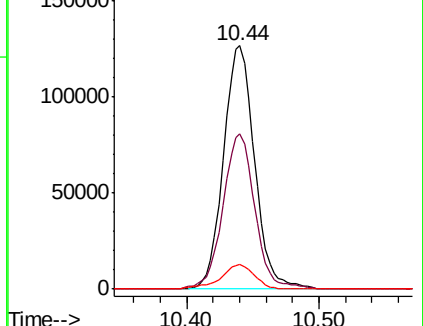
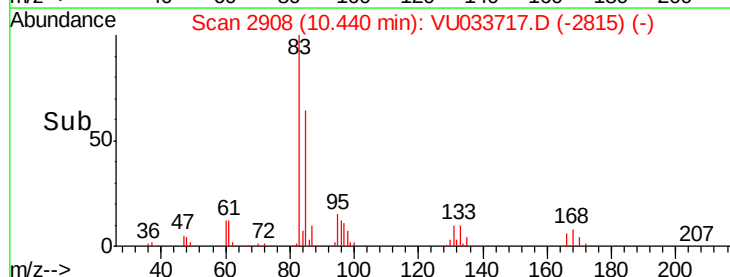
131 9.9 8.1 12.1

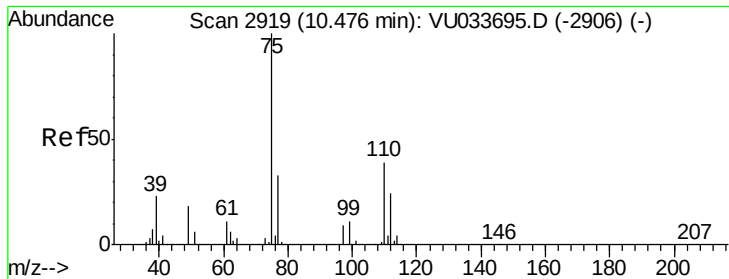


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.626 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

Instrument :

MSVOA_U

ClientSampleId :

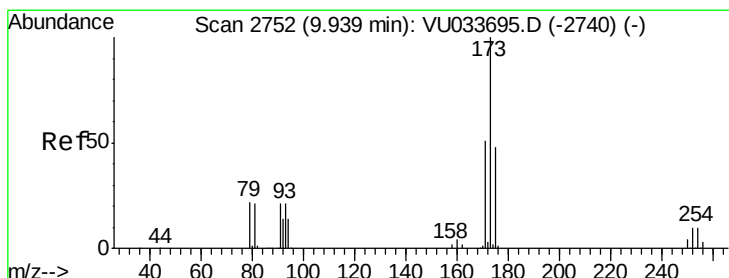
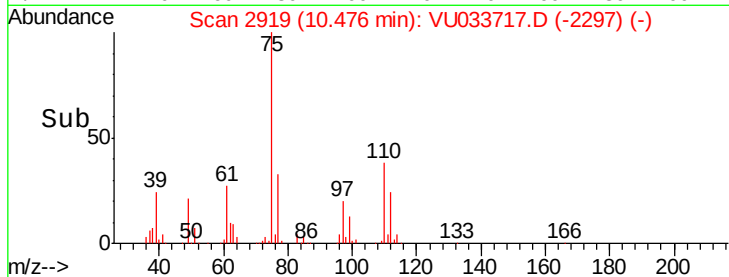
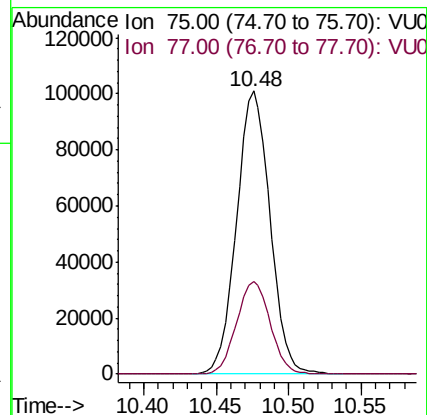
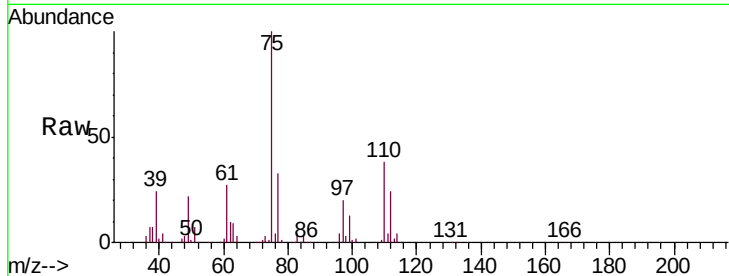
VSTD05057

Tgt Ion: 75 Resp: 161691

Ion Ratio Lower Upper

75 100

77 33.0 26.4 39.6



#61

Bromoform

Concen: 48.724 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033717.D

Acq: 10 Aug 2019 05:27

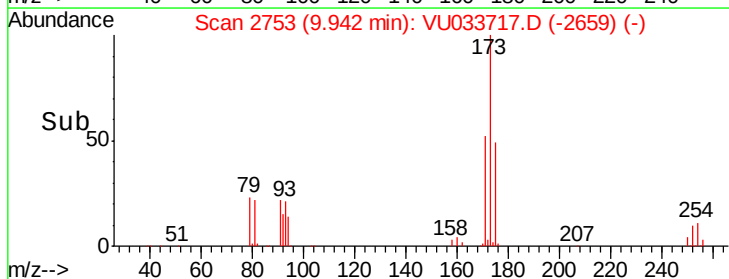
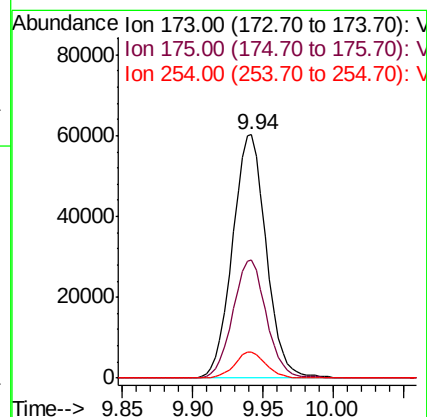
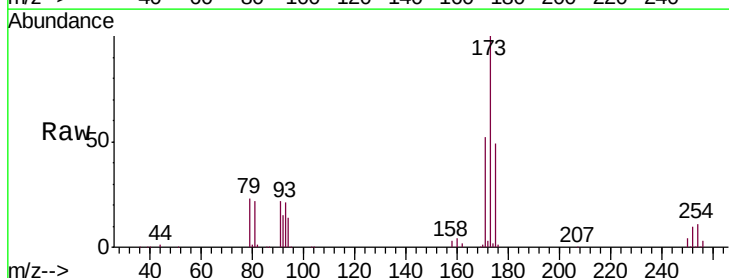
Tgt Ion: 173 Resp: 100856

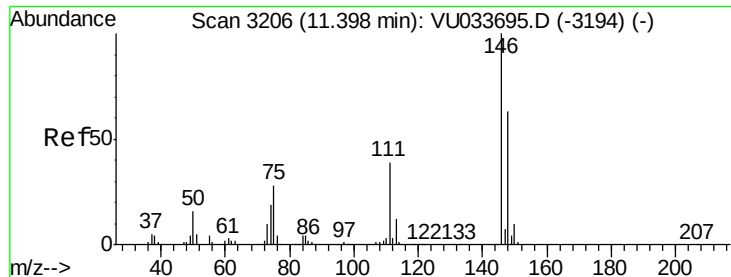
Ion Ratio Lower Upper

173 100

175 48.4 39.8 59.8

254 10.0 8.4 12.6

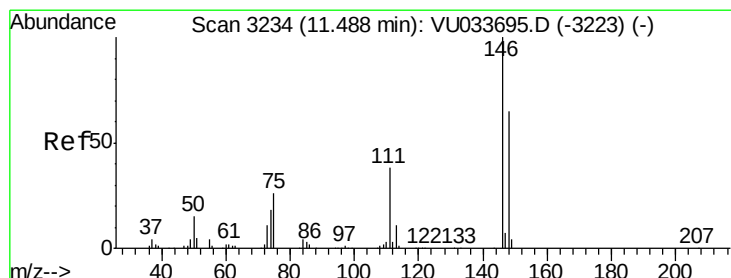
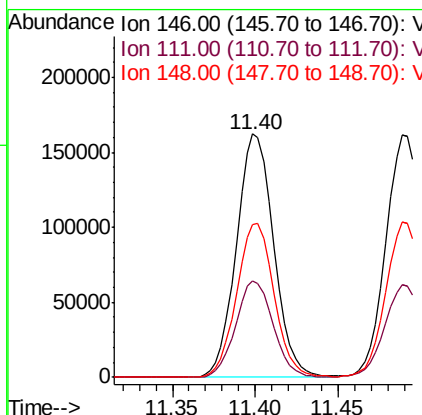
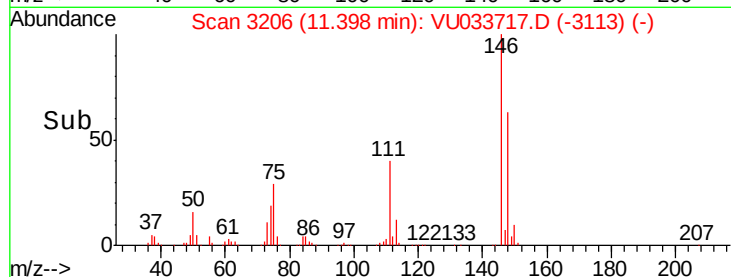
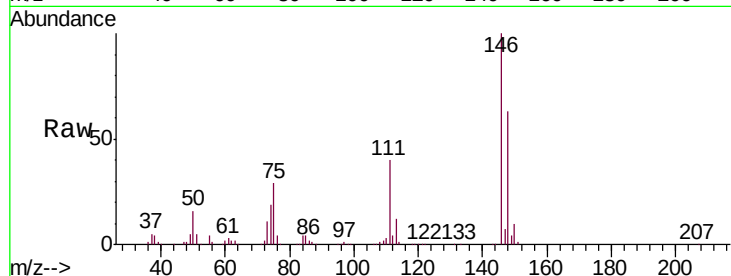




#62
 1,3-Dichlorobenzene
 Concen: 48.499 ug/L
 RT: 11.40 min Scan# 3206
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

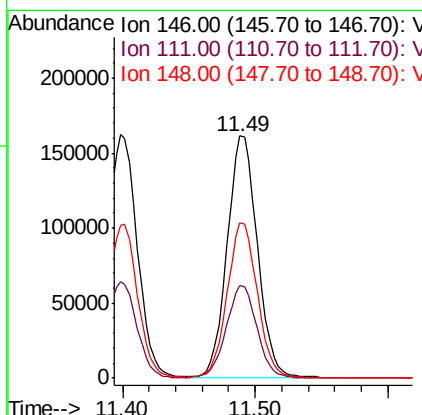
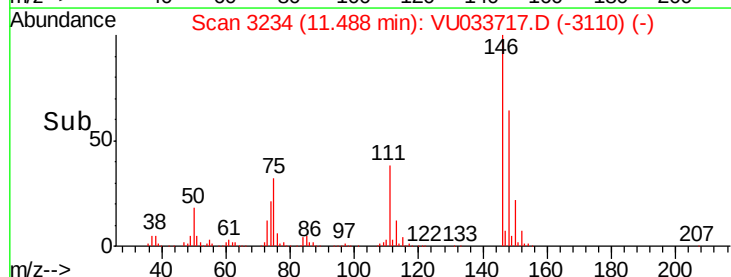
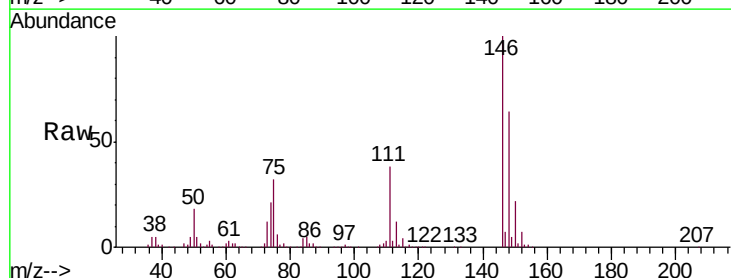
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

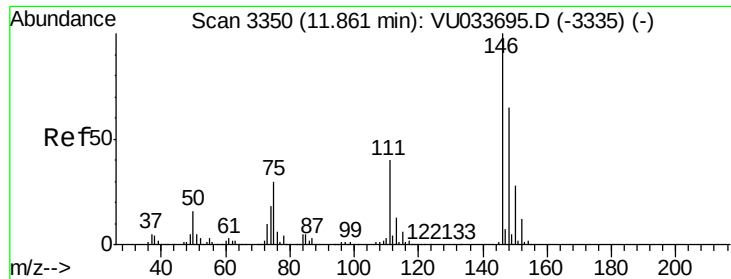
Tgt Ion:146 Resp: 254582
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.0 50.2
 148 63.0 44.7 82.9



#63
 1,4-Dichlorobenzene
 Concen: 48.153 ug/L
 RT: 11.49 min Scan# 3234
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion:146 Resp: 256027
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.0 48.4
 148 64.1 45.3 84.1

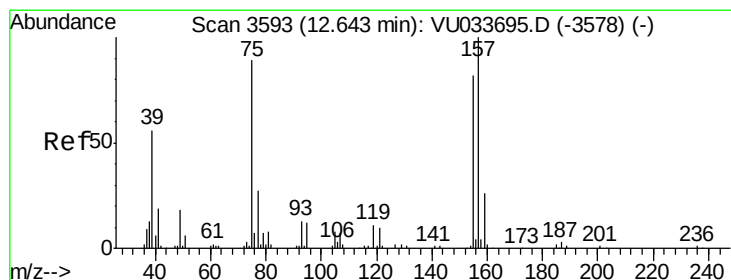
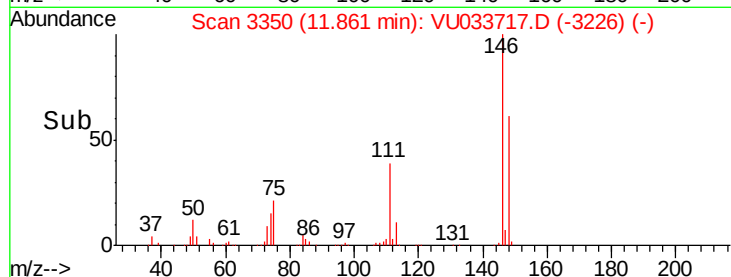
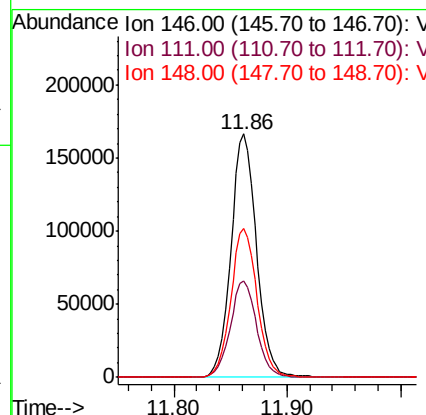
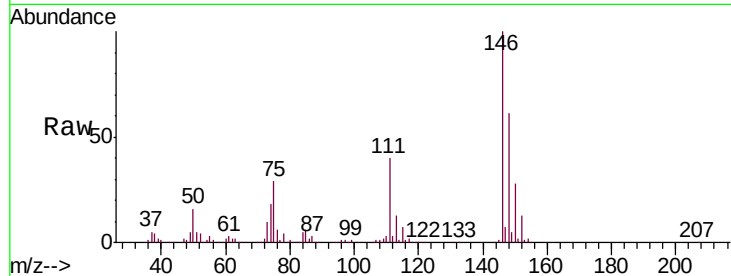




#65
 1,2-Dichlorobenzene
 Concen: 50.421 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

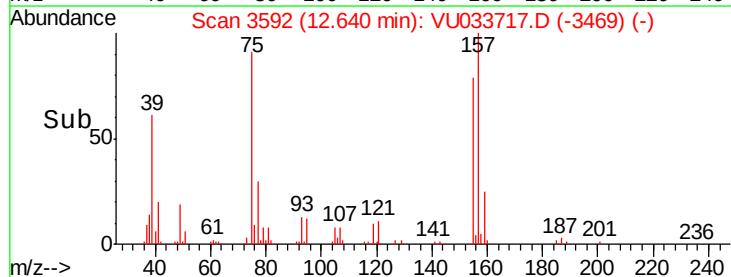
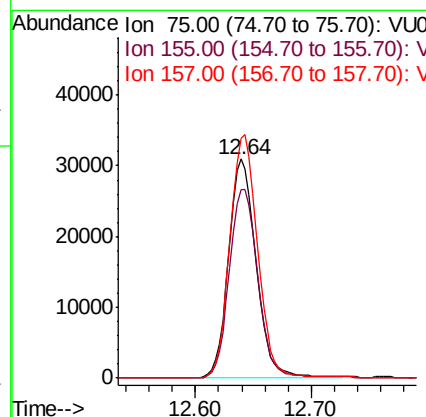
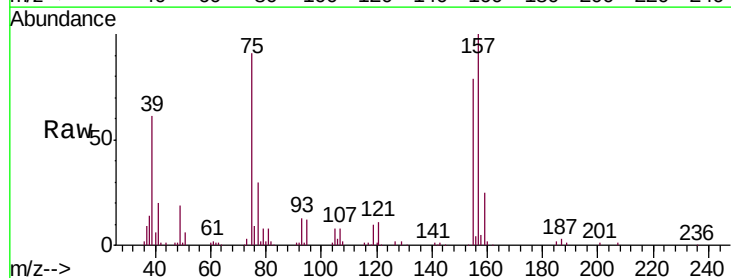
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

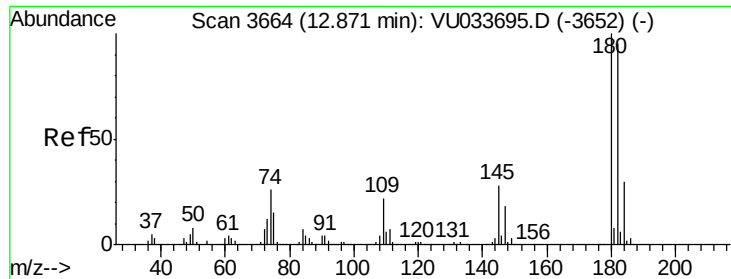
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	32.2	48.2
148	61.2	50.3	75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.898 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.4	72.7	109.1
157	109.5	88.6	132.8

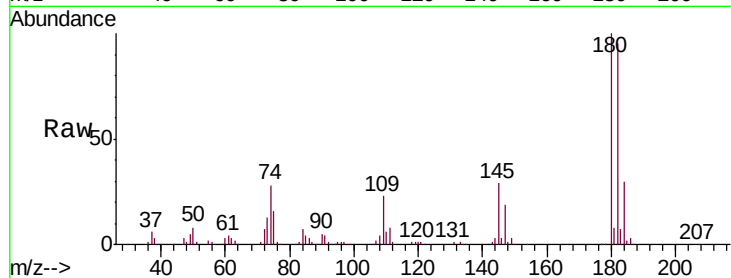




#67
 1,3,5-Trichlorobenzene
 Concen: 47.846 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05057

Tgt Ion:	180	Resp:	199864
Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.5	114.7
184	30.3	24.2	36.2
145	28.4	22.3	33.5



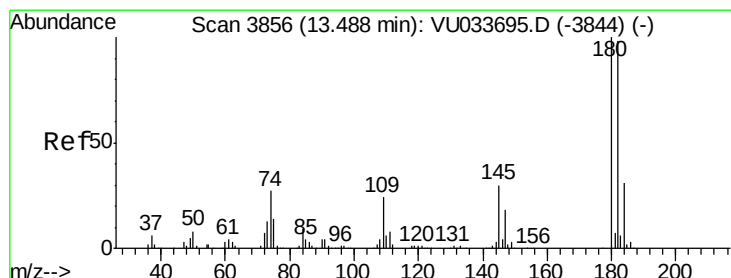
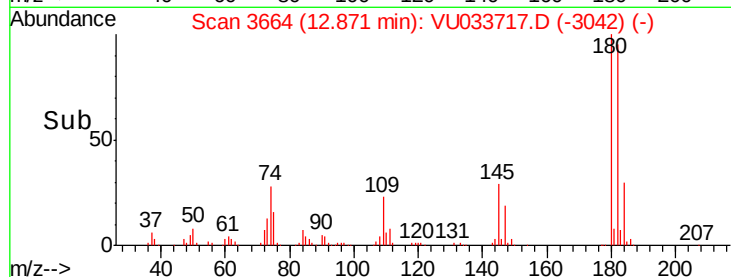
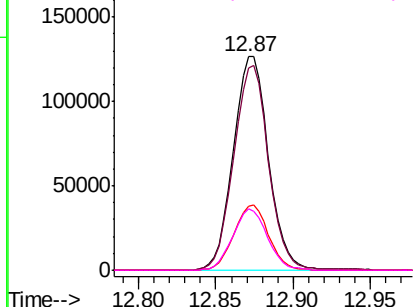
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

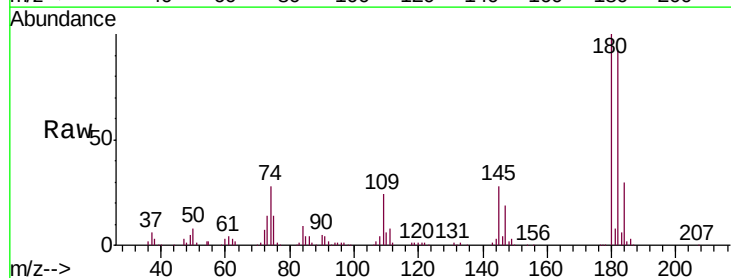
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.163 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033717.D
 Acq: 10 Aug 2019 05:27

Tgt Ion:	180	Resp:	182018
Ion	Ratio	Lower	Upper
180	100		
182	97.1	78.2	117.4
145	29.3	23.5	35.3

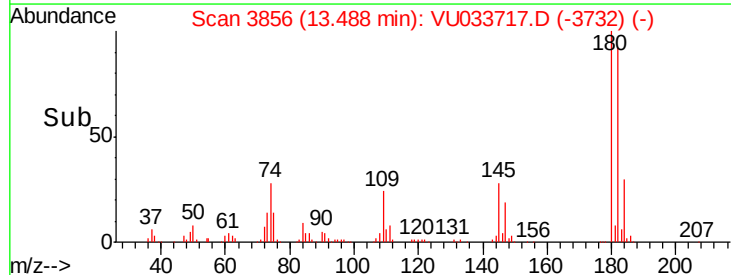
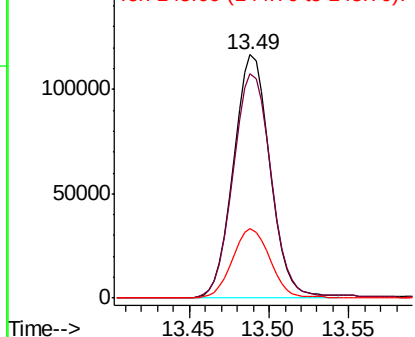


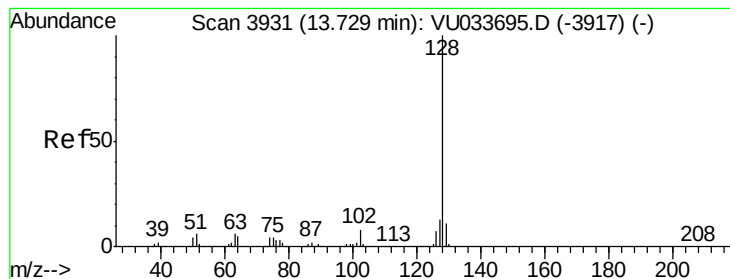
Abundance

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

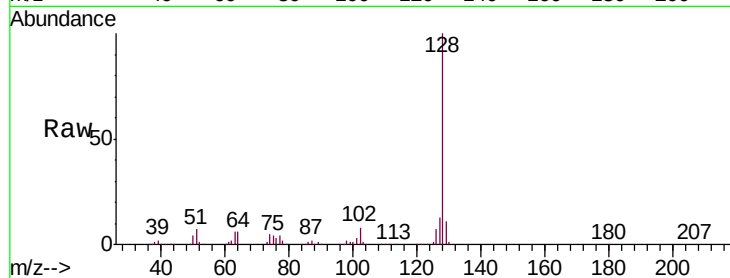




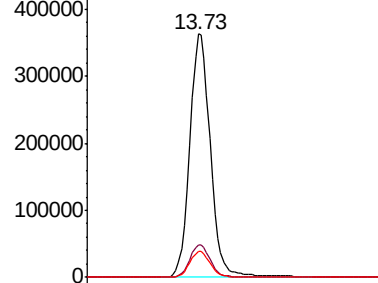
#69
Naphthalene
Concen: 52.595 ug/L
RT: 13.73 min Scan# 3930
Delta R.T. -0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Instrument :
MSVOA_U
ClientSampleId :
VSTD05057

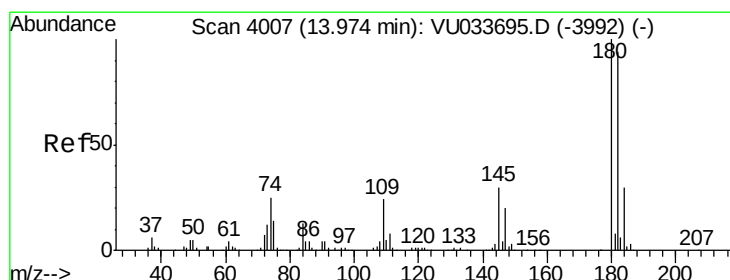
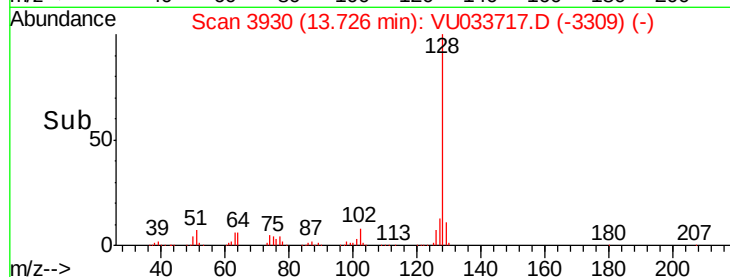
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	8.6	13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

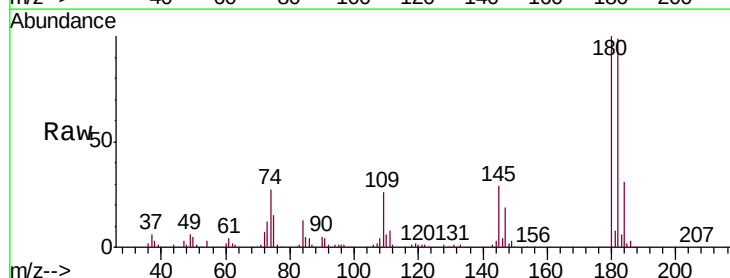


Time--> 13.60 13.70 13.80 13.90

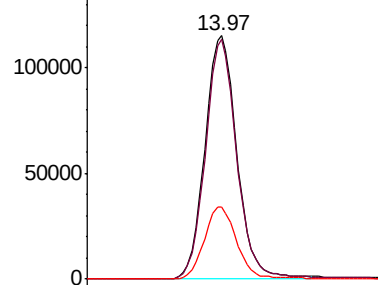


#70
1,2,3-Trichlorobenzene
Concen: 49.362 ug/L
RT: 13.97 min Scan# 4007
Delta R.T. 0.00 min
Lab File: VU033717.D
Acq: 10 Aug 2019 05:27

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	78.5	117.7
145	30.2	24.6	37.0



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



Time--> 13.90 14.00

