

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU060319\
 Data File : VU032419.D
 Acq On : 04 Jun 2019 01:57
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Quant Time: Jun 04 09:01:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR060319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 04 08:55:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	97838	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	95044	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	46016	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	41586	4.53	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.60%
7) Chloroethane-d5	1.67	69	34590	3.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.40%
11) 1,1-Dichloroethene-d2	2.27	63	103908	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.80%
20) 2-Butanone-d5	4.18	46	103445	48.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.82%
24) Chloroform-d	4.64	84	68327	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.30	65	37244	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.33	84	128411	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.40%
36) 1,2-Dichloropropane-d6	6.32	67	42045	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.60%
41) Toluene-d8	7.56	98	120724	4.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.40%
43) trans-1,3-Dichloropropene-	7.85	79	17927	4.35	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.00%
46) 2-Hexanone-d5	8.31	63	87479	48.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.18%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	35583	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	43373	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	79456	4.791	ug/L 100
3) Chloromethane	1.33	50	81048	4.674	ug/L 98
5) Vinyl chloride	1.40	62	90506	4.967	ug/L 100
6) Bromomethane	1.61	94	53081	3.927	ug/L 95
8) Chloroethane	1.69	64	57343	3.596	ug/L 100
9) Trichlorofluoromethane	1.88	101	128100	4.730	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	70568	4.894	ug/L 99
12) 1,1-Dichloroethene	2.28	96	70278	5.225	ug/L 97
13) Acetone	2.32	43	160007	44.818	ug/L 98
14) Carbon disulfide	2.47	76	221975	4.952	ug/L 99
15) Methyl Acetate	2.61	43	40053	4.680	ug/L 99
16) Methylene chloride	2.69	84	78493	5.019	ug/L 99
17) Methyl tert-butyl Ether	3.00	73	218484	5.096	ug/L 99
18) trans-1,2-Dichloroethene	2.97	96	75976	5.133	ug/L 98
19) 1,1-Dichloroethane	3.43	63	127304	5.076	ug/L 99
21) 2-Butanone	4.27	43	217183	47.783	ug/L 98
22) cis-1,2-Dichloroethene	4.22	96	72789	5.042	ug/L 99

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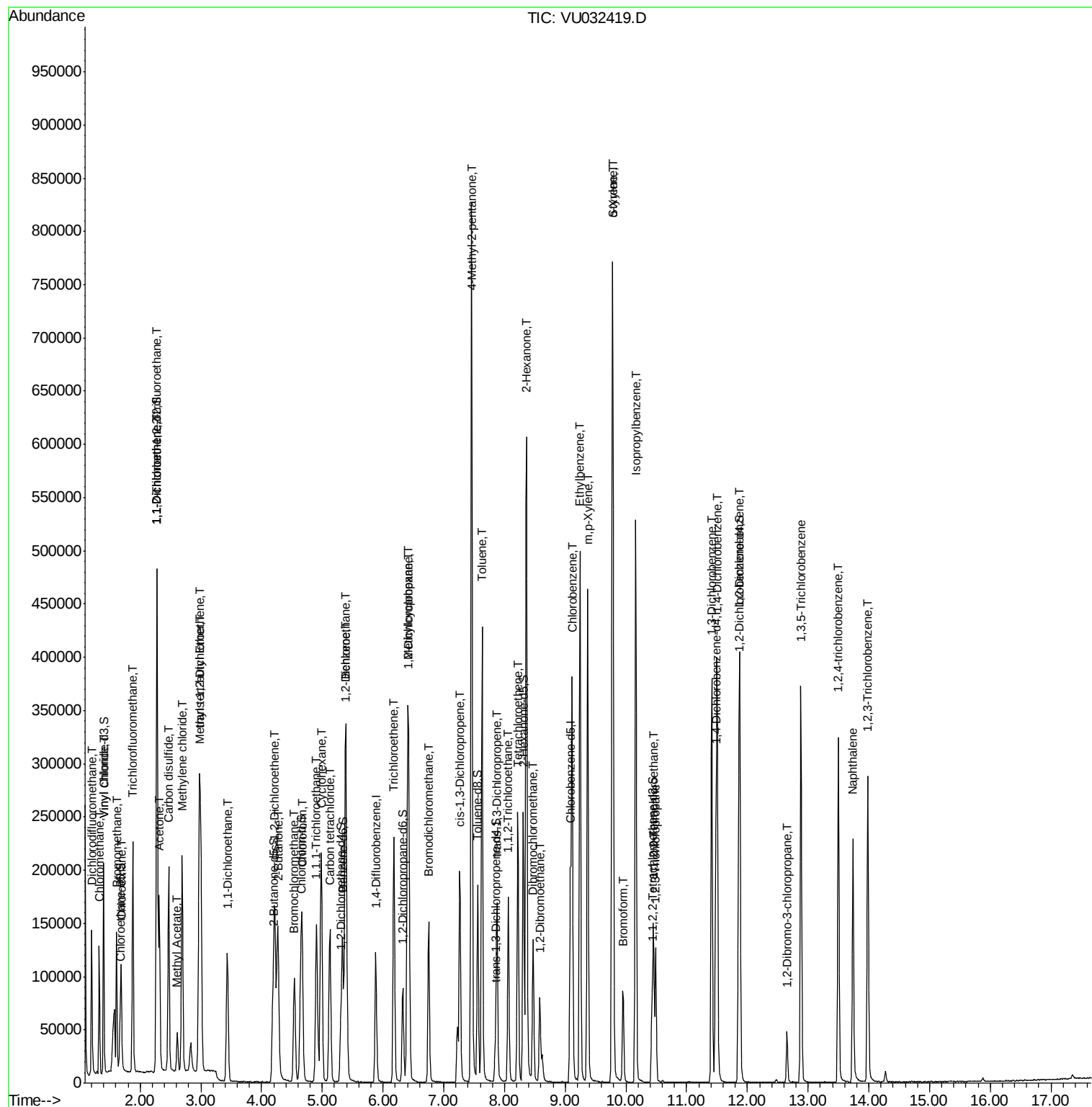
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	30600	5.219	ug/L	99
25) Chloroform	4.67	83	131364	5.118	ug/L	98
27) 1,2-Dichloroethane	5.40	62	90067	5.038	ug/L	99
29) 1,1,1-Trichloroethane	4.90	97	114113	4.936	ug/L	100
30) Cyclohexane	4.98	56	119753	4.769	ug/L	98
31) Carbon tetrachloride	5.13	117	101874	5.000	ug/L	97
33) Benzene	5.38	78	281289	5.068	ug/L	100
34) Trichloroethene	6.18	95	79271	5.266	ug/L	100
35) Methylcyclohexane	6.41	83	116485	4.639	ug/L	98
37) 1,2-Dichloropropane	6.43	63	76190	5.043	ug/L	100
38) Bromodichloromethane	6.75	83	99565	5.011	ug/L	97
39) cis-1,3-Dichloropropene	7.26	75	114328	4.789	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	554174	48.671	ug/L	100
42) Toluene	7.63	91	302699	5.061	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	92528	4.745	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	51799	4.980	ug/L	96
47) Tetrachloroethene	8.22	164	52371	4.977	ug/L	98
48) 2-Hexanone	8.36	43	393508	47.254	ug/L	99
49) Dibromochloromethane	8.47	129	64450	4.924	ug/L	96
50) 1,2-Dibromoethane	8.58	107	51579	4.872	ug/L	97
51) Chlorobenzene	9.11	112	187385	4.973	ug/L	100
52) Ethylbenzene	9.24	91	345430	5.032	ug/L	99
53) m,p-Xylene	9.37	106	126981	5.041	ug/L	96
54) o-Xylene	9.77	106	126650	5.084	ug/L	98
55) Styrene	9.79	104	212958	5.069	ug/L	98
56) Isopropylbenzene	10.16	105	335863	5.055	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	71010	5.006	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	50496	5.142	ug/L	97
61) Bromoform	9.95	173	36513	4.854	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	141899	4.980	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	140999	4.911	ug/L	96
65) 1,2-Dichlorobenzene	11.87	146	137171	5.036	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	13059	5.050	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	108374	4.921	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	91682	4.897	ug/L	97
69) Naphthalene	13.74	128	183507	4.986	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	86381	4.858	ug/L	98

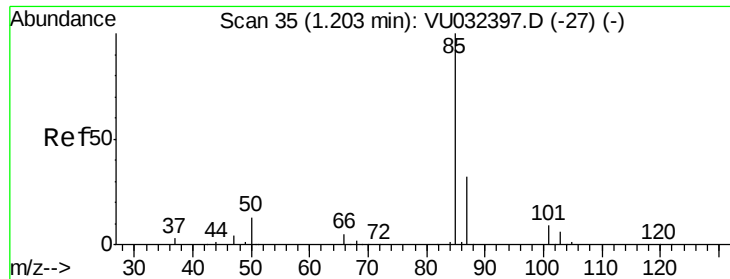
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.791 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

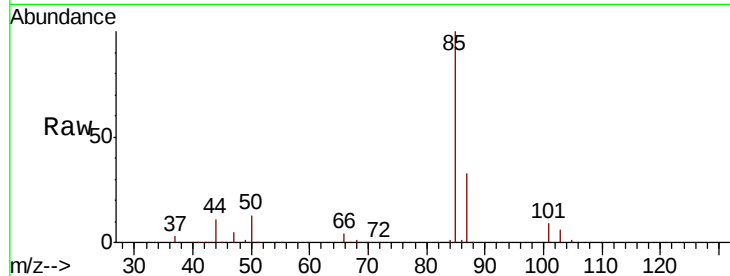
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tgt Ion: 85 Resp: 79456

Ion Ratio Lower Upper

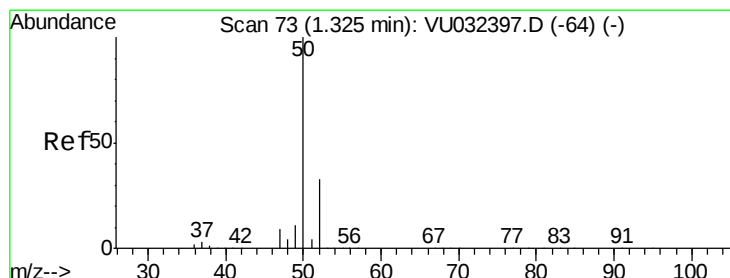
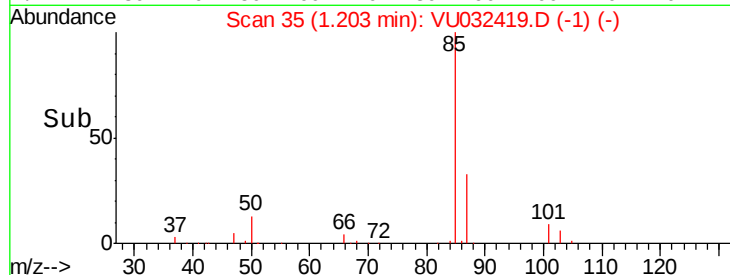
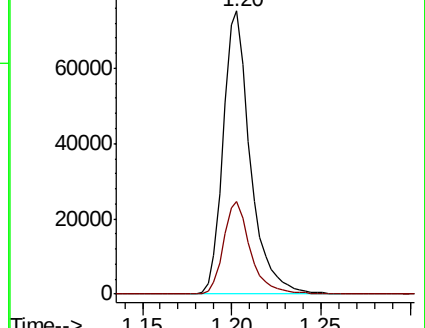
85 100

87 32.4 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032397.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032397.D (-27) (-)



#3

Chloromethane

Concen: 4.674 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032419.D

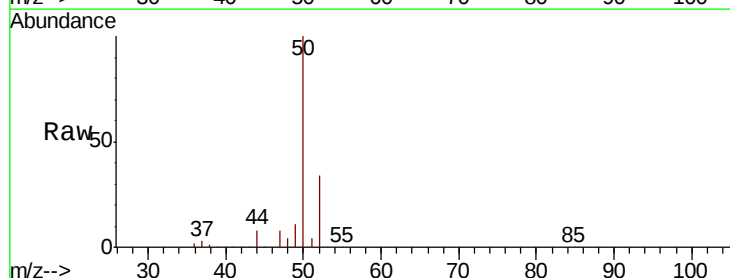
Acq: 04 Jun 2019 01:57

Tgt Ion: 50 Resp: 81048

Ion Ratio Lower Upper

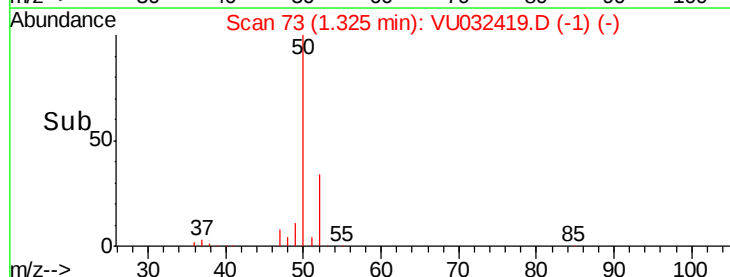
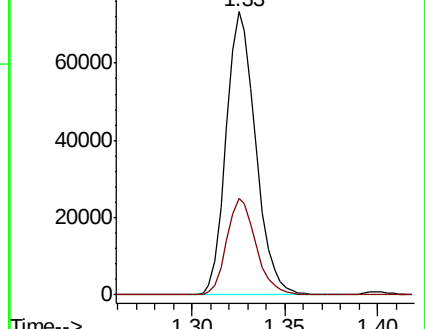
50 100

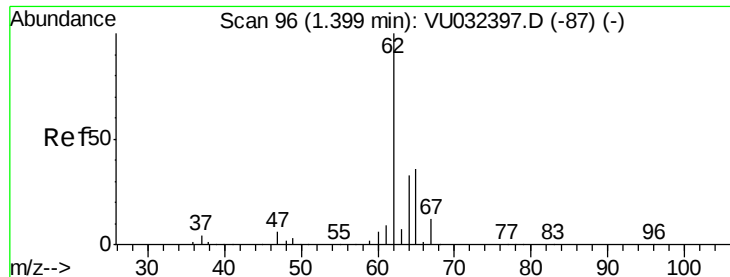
52 34.1 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU032397.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU032397.D (-64) (-)





#5

Vinyl chloride

Concen: 4.967 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

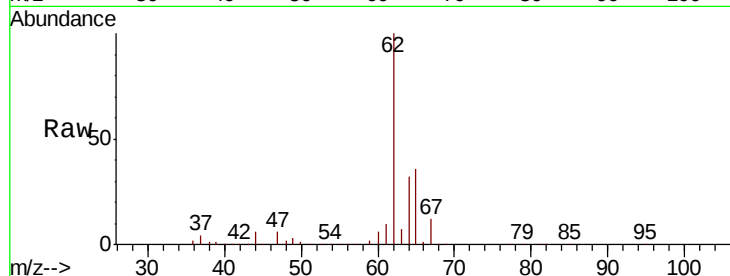
VSTD00519

Tgt Ion: 62 Resp: 90506

Ion Ratio Lower Upper

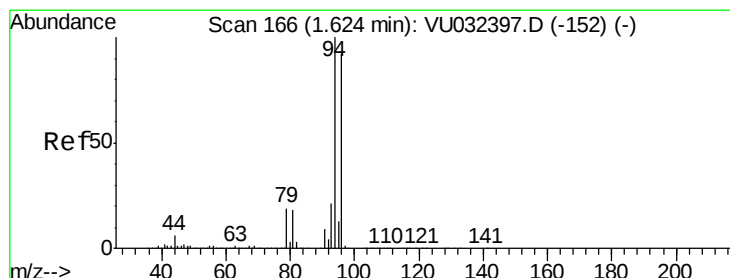
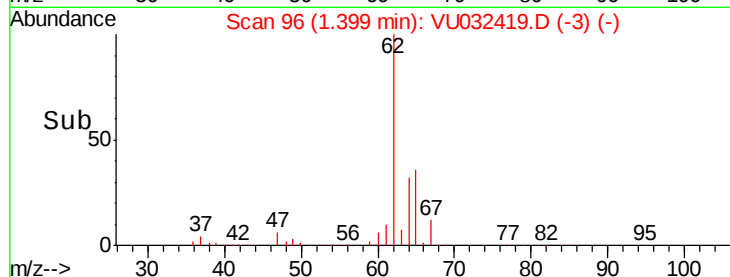
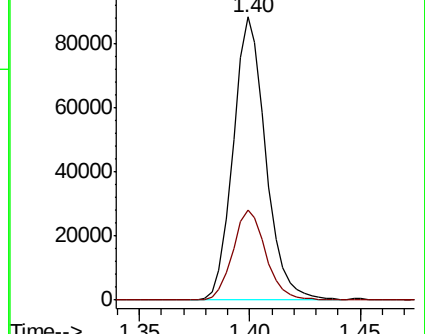
62 100

64 31.9 22.3 41.3



Abundance Ion 62.00 (61.70 to 62.70): VU032397.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU032397.D (-87) (-)



#6

Bromomethane

Concen: 3.927 ug/L

RT: 1.61 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU032419.D

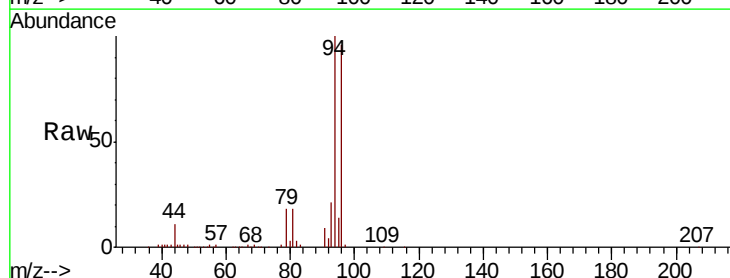
Acq: 04 Jun 2019 01:57

Tgt Ion: 94 Resp: 53081

Ion Ratio Lower Upper

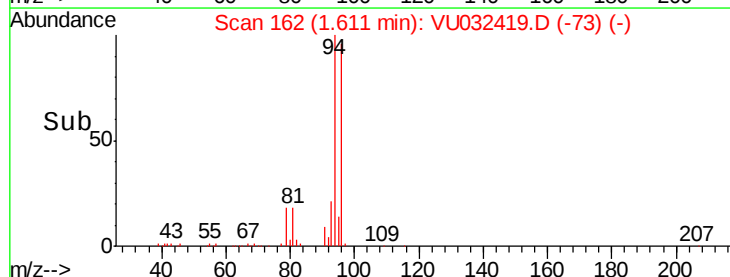
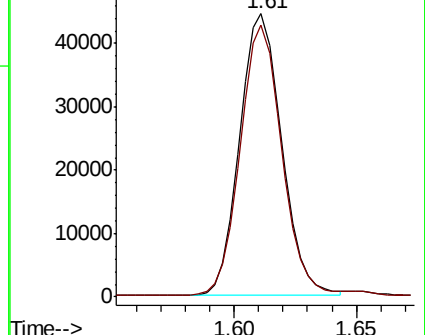
94 100

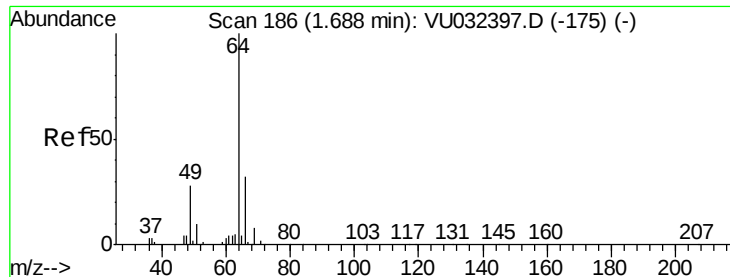
96 96.2 64.2 119.2



Abundance Ion 94.00 (93.70 to 94.70): VU032397.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU032397.D (-152) (-)





#8

Chloroethane

Concen: 3.596 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

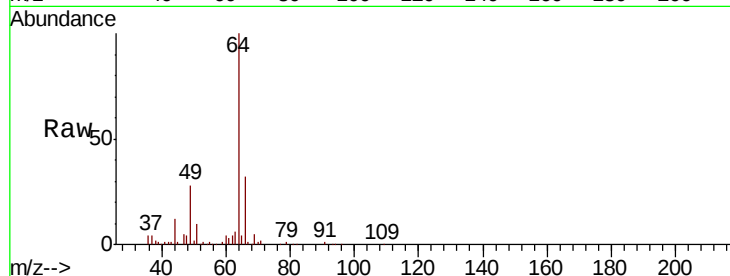
VSTD00519

Tgt Ion: 64 Resp: 57343

Ion Ratio Lower Upper

64 100

66 31.6 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU032397.D (-175) (-)

Ion 66.05 (65.75 to 66.75): VU032397.D (-175) (-)

1.69

50000

40000

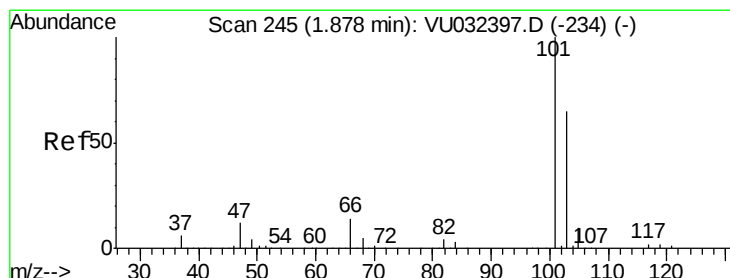
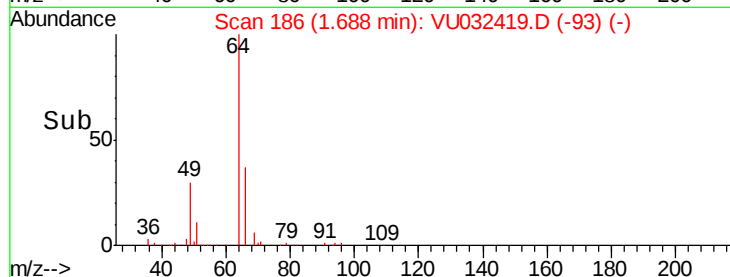
30000

20000

10000

0

Time--> 1.60 1.65 1.70 1.75 1.80



#9

Trichlorofluoromethane

Concen: 4.730 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU032419.D

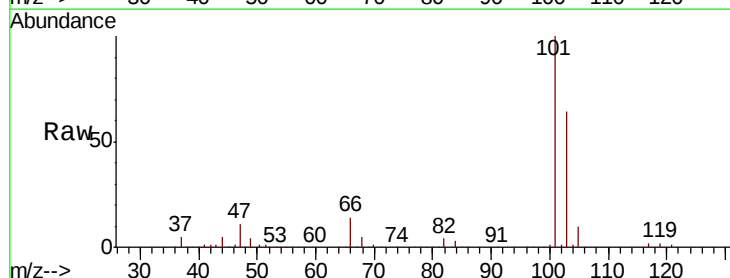
Acq: 04 Jun 2019 01:57

Tgt Ion: 101 Resp: 128100

Ion Ratio Lower Upper

101 100

103 64.9 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU032397.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU032397.D (-234) (-)

1.88

100000

80000

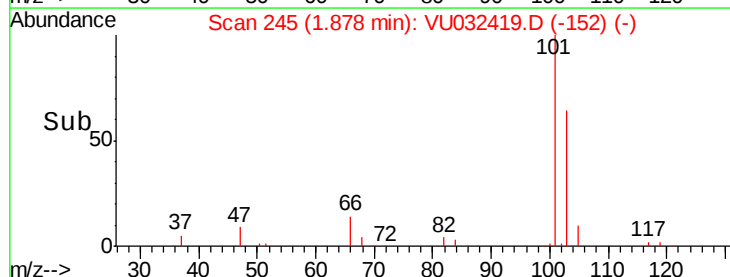
60000

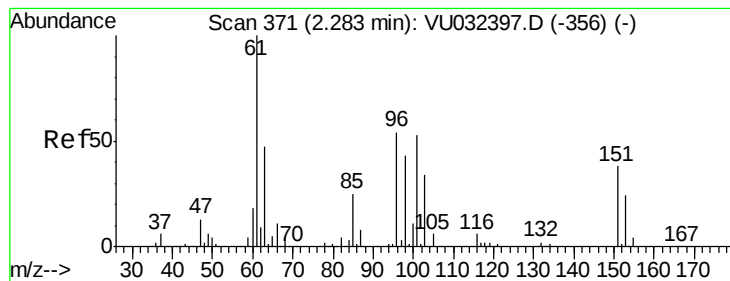
40000

20000

0

Time--> 1.80 1.85 1.90 1.95





#10

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

Concen: 4.894 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU032419.D

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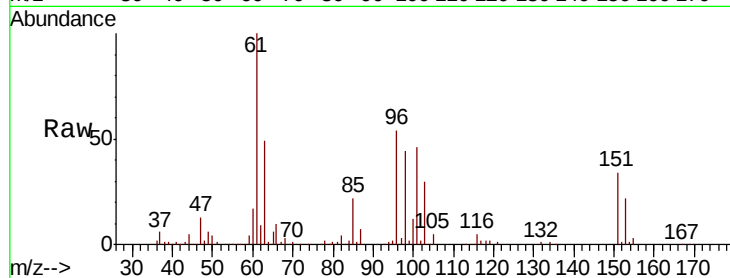
Tgt Ion:101 Resp: 70568

Ion Ratio Lower Upper

101 100

85 46.3 38.0 57.0

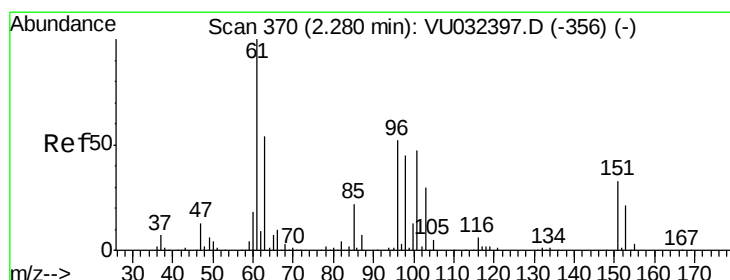
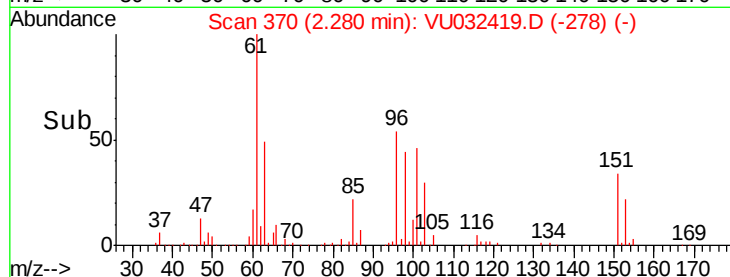
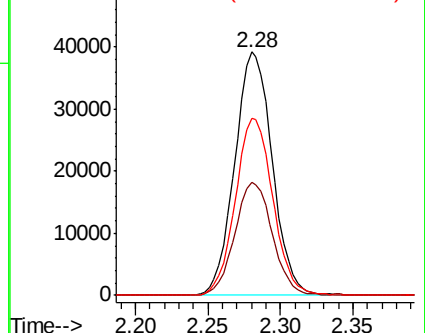
151 72.5 58.1 87.1



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: 5.225 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

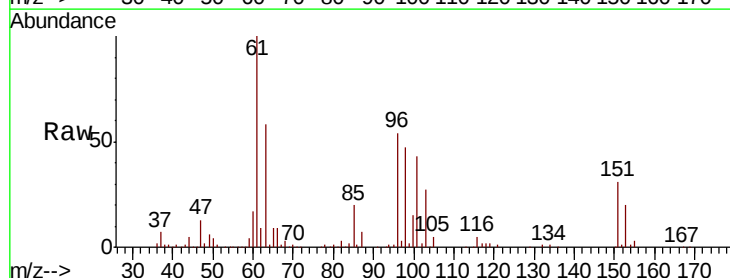
Tgt Ion: 96 Resp: 70278

Ion Ratio Lower Upper

96 100

61 186.8 133.6 248.0

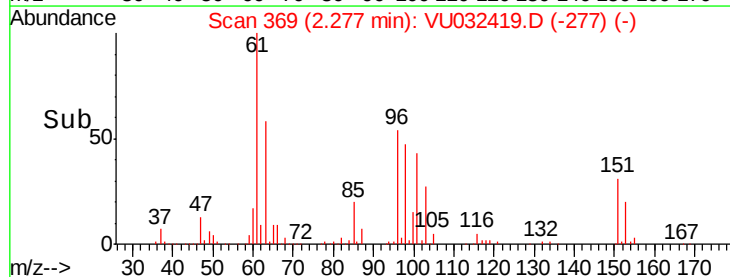
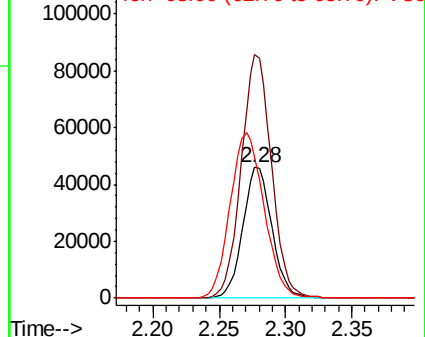
63 108.1 72.4 134.4

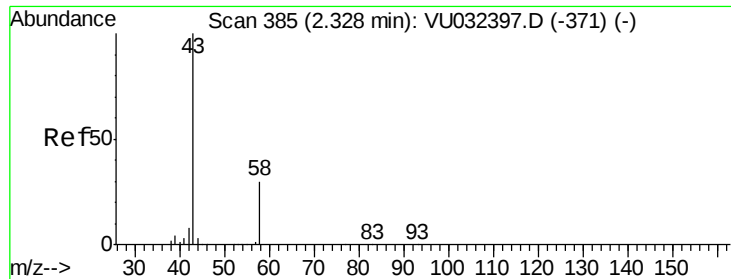


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.818 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

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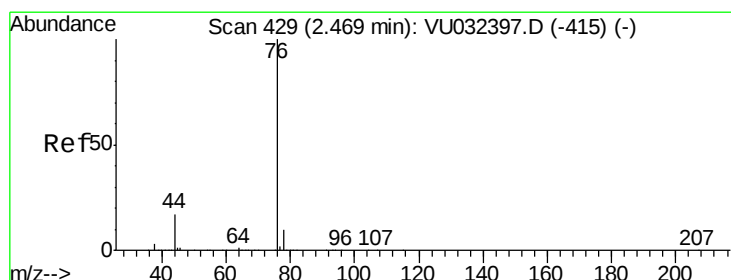
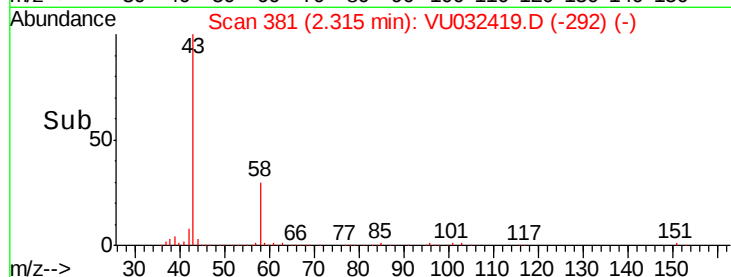
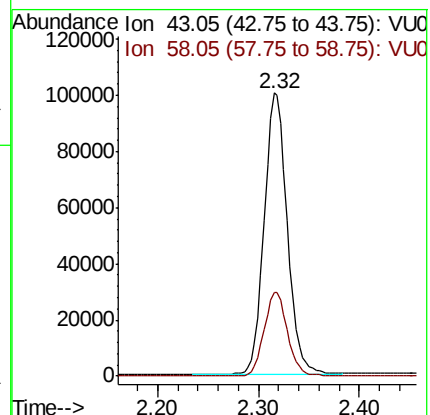
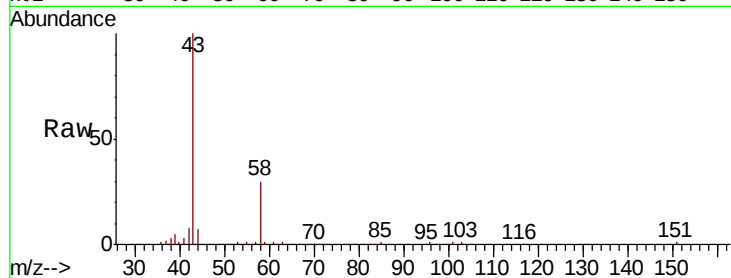
VSTD00519

Tgt Ion: 43 Resp: 160007

Ion Ratio Lower Upper

43 100

58 30.2 0.0 62.2



#14

Carbon disulfide

Concen: 4.952 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.00 min

Lab File: VU032419.D

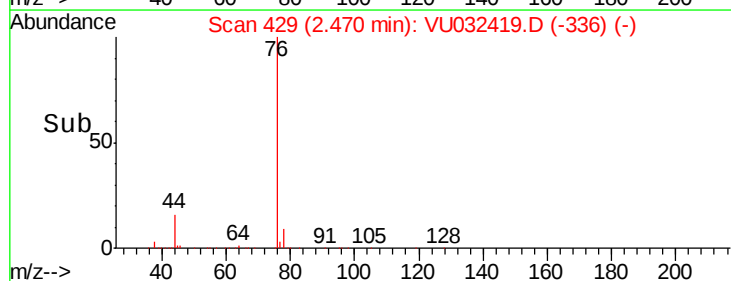
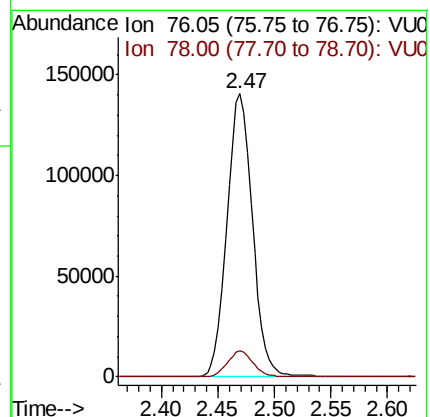
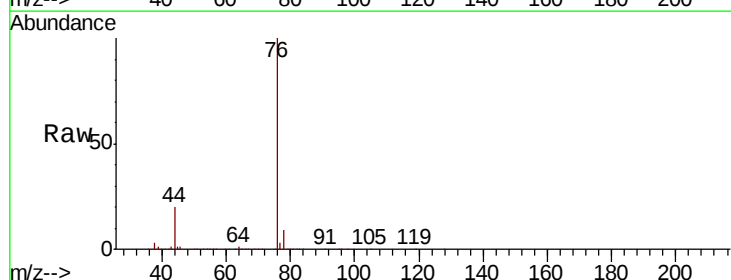
Acq: 04 Jun 2019 01:57

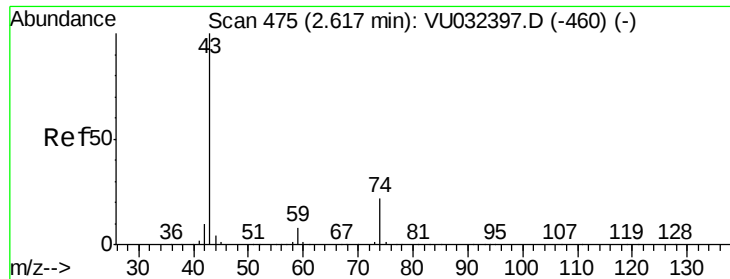
Tgt Ion: 76 Resp: 221975

Ion Ratio Lower Upper

76 100

78 9.1 7.6 11.4





#15

Methyl Acetate

Concen: 4.680 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.01 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

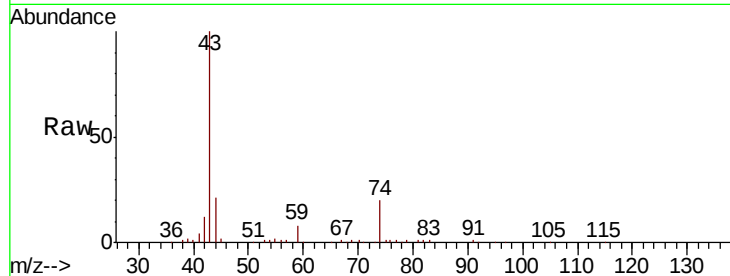
VSTD00519

Tgt Ion: 43 Resp: 40053

Ion Ratio Lower Upper

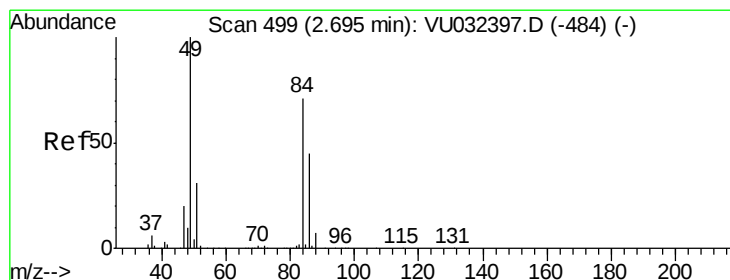
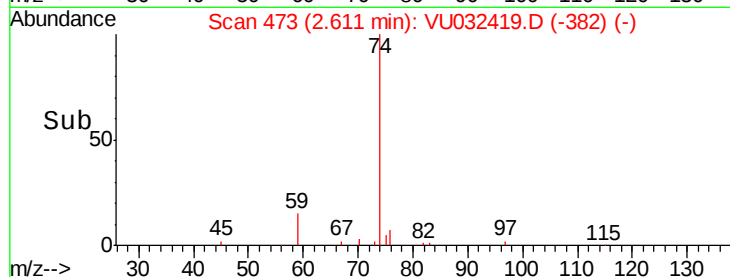
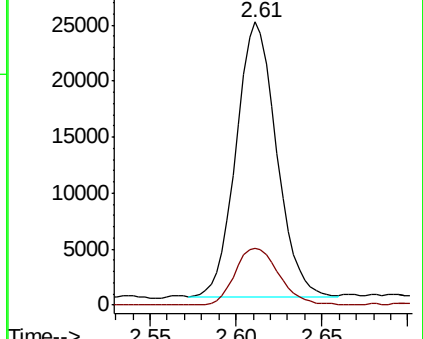
43 100

74 22.4 17.7 26.5



Abundance Ion 43.05 (42.75 to 43.75): VU032419.D (-382) (-)

Ion 74.05 (73.75 to 74.75): VU032419.D (-382) (-)



#16

Methylene chloride

Concen: 5.019 ug/L

RT: 2.69 min Scan# 498

Delta R.T. -0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

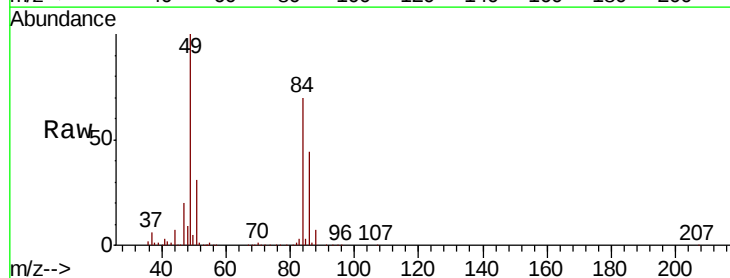
Tgt Ion: 84 Resp: 78493

Ion Ratio Lower Upper

84 100

86 63.0 43.8 81.4

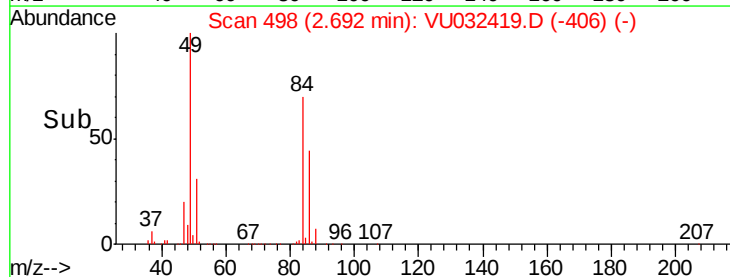
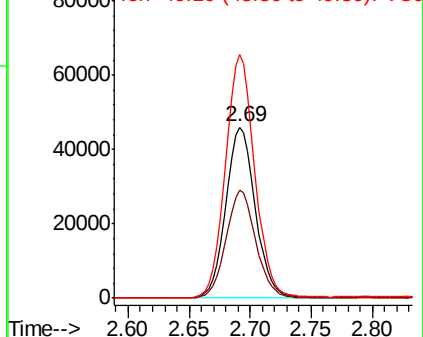
49 142.3 98.8 183.6

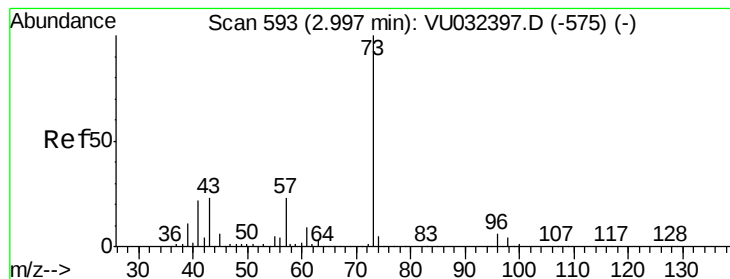


Abundance Ion 84.05 (83.75 to 84.75): VU032419.D (-406) (-)

Ion 86.00 (85.70 to 86.70): VU032419.D (-406) (-)

Ion 49.10 (48.80 to 49.80): VU032419.D (-406) (-)





#17

Methyl tert-butyl Ether

Concen: 5.096 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

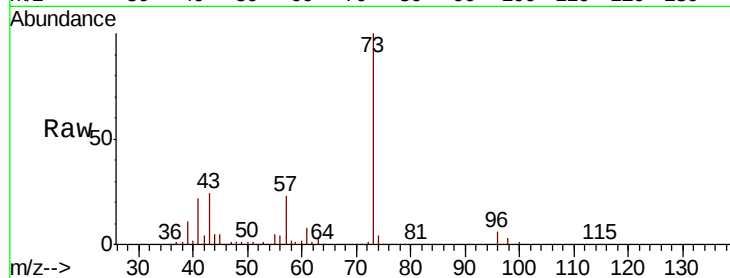
Tgt Ion: 73 Resp: 218484

Ion Ratio Lower Upper

73 100

43 23.0 19.0 28.4

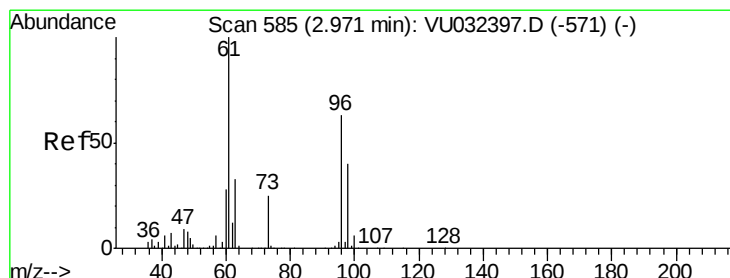
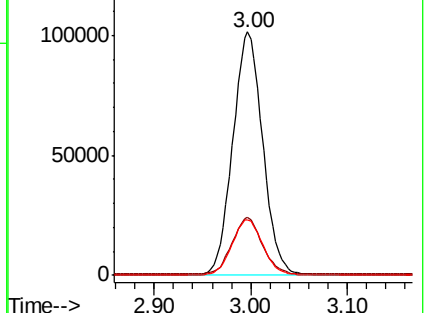
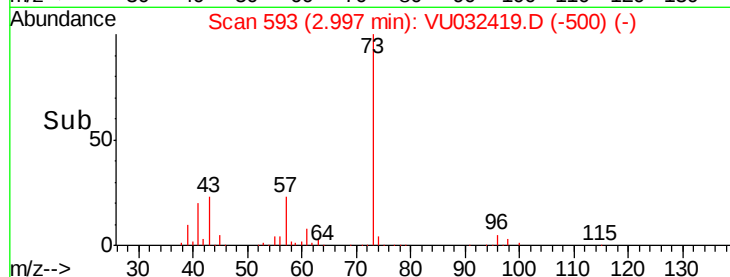
57 23.0 18.6 28.0



Abundance Ion 73.10 (72.80 to 73.80): VU032419.D (-500) (-)

Ion 43.05 (42.75 to 43.75): VU032419.D (-500) (-)

Ion 57.10 (56.80 to 57.80): VU032419.D (-500) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.133 ug/L

RT: 2.97 min Scan# 585

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

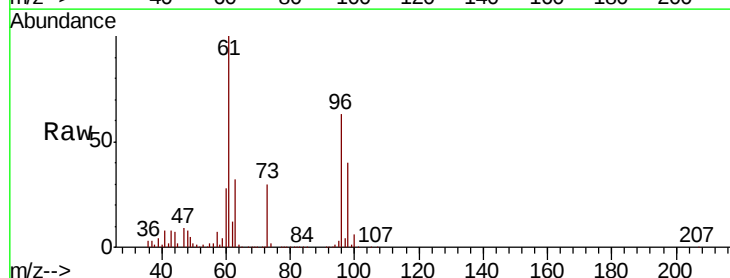
Tgt Ion: 96 Resp: 75976

Ion Ratio Lower Upper

96 100

61 158.8 109.1 202.7

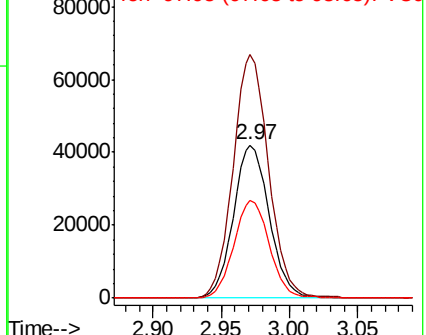
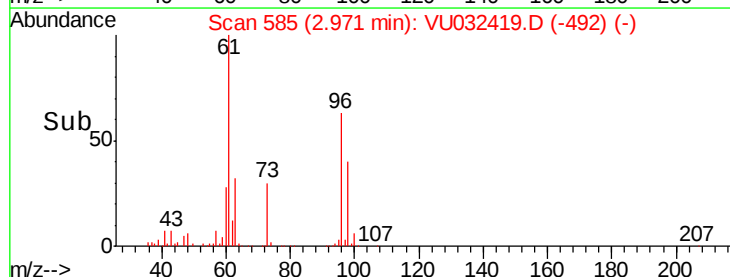
98 63.7 44.6 82.8

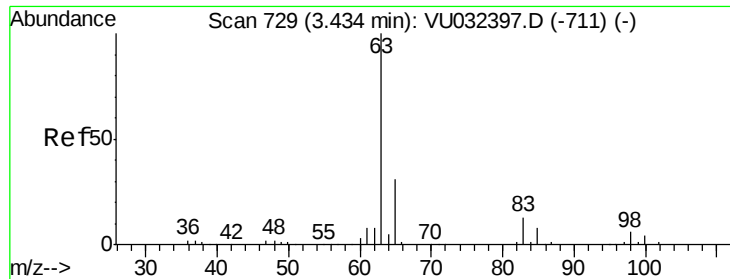


Abundance Ion 96.00 (95.70 to 96.70): VU032419.D (-492) (-)

Ion 61.05 (60.75 to 61.75): VU032419.D (-492) (-)

Ion 97.95 (97.65 to 98.65): VU032419.D (-492) (-)

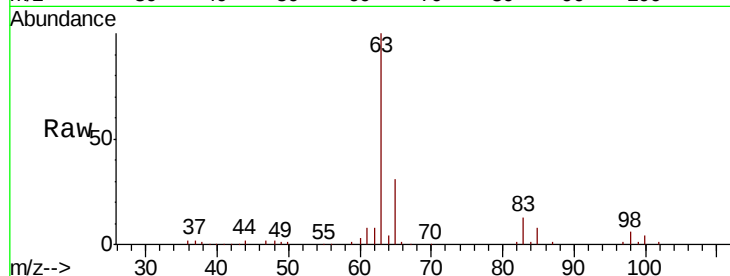




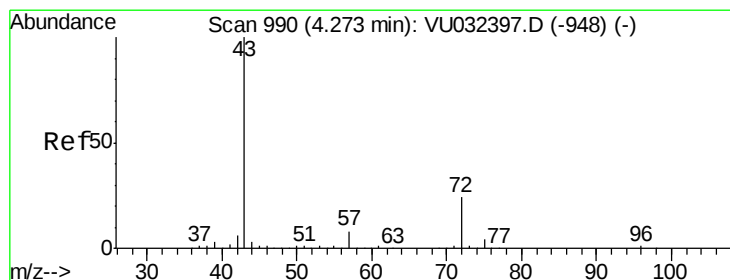
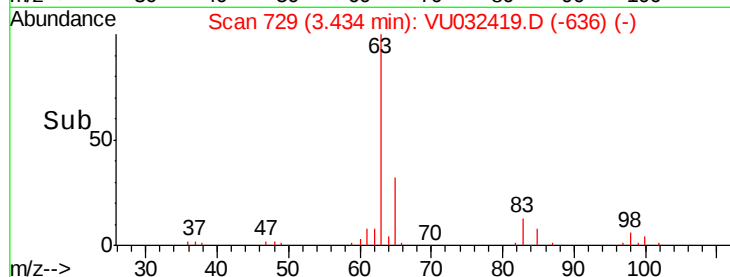
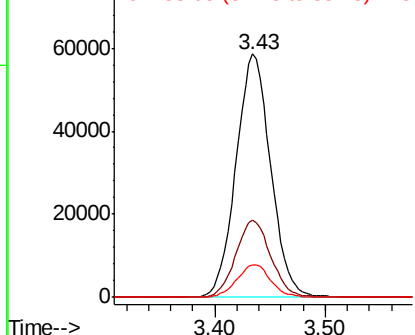
#19
 1,1-Dichloroethane
 Concen: 5.076 ug/L
 RT: 3.43 min Scan# 729
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion: 63 Resp: 127304
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.5 41.7
 83 13.3 9.0 16.8

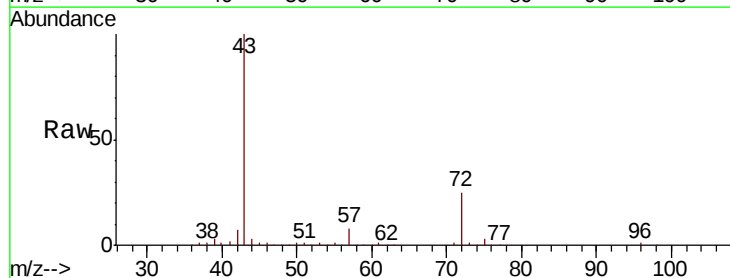


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

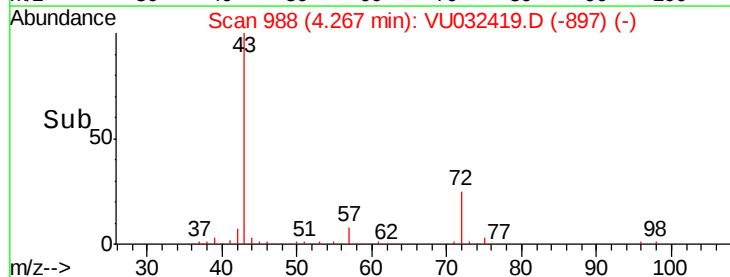
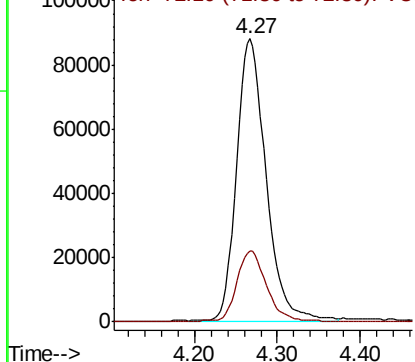


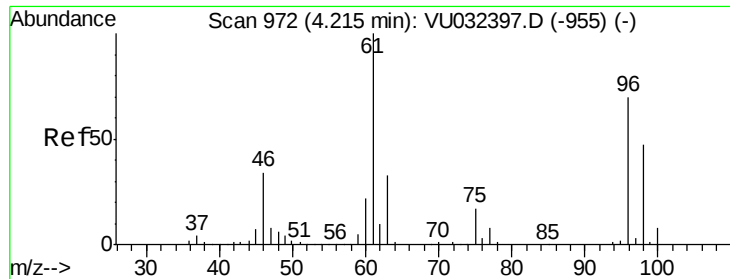
#21
 2-Butanone
 Concen: 47.783 ug/L
 RT: 4.27 min Scan# 988
 Delta R.T. -0.01 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion: 43 Resp: 217183
 Ion Ratio Lower Upper
 43 100
 72 26.0 12.4 37.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



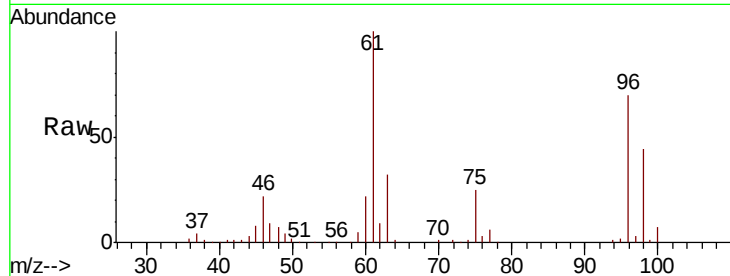


#22

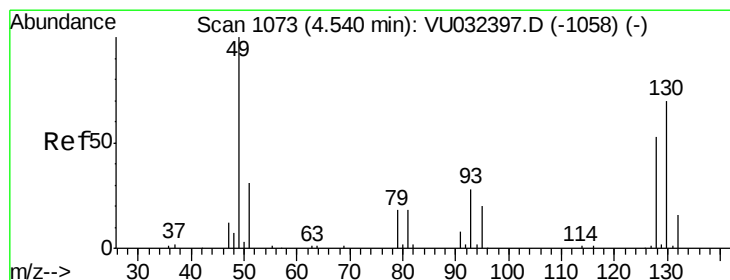
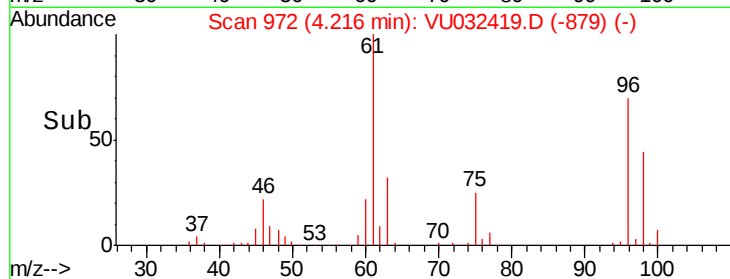
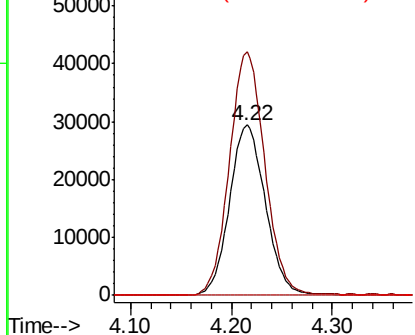
cis-1,2-Dichloroethene
 Concen: 5.042 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00519

Tgt Ion: 96 Resp: 72789
 Ion Ratio Lower Upper
 96 100
 61 142.8 99.0 183.8
 68 0.0 0.0 0.0



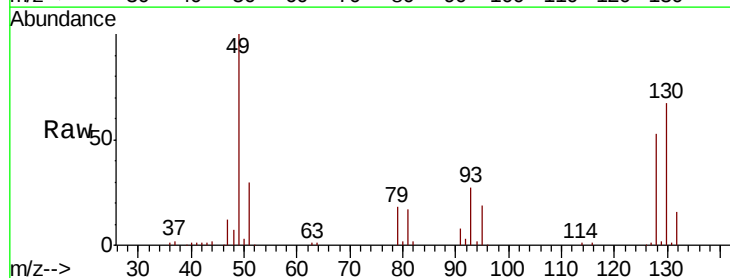
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



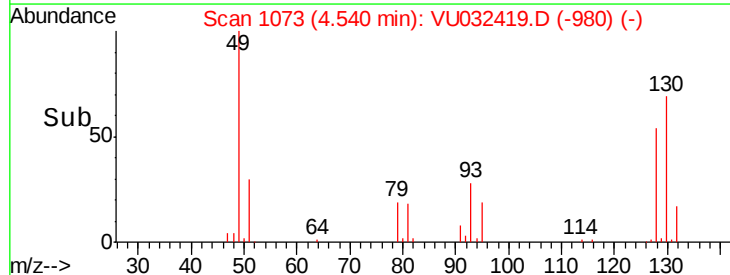
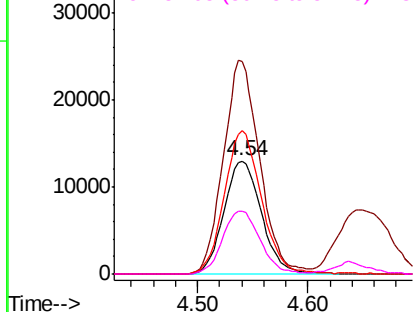
#23

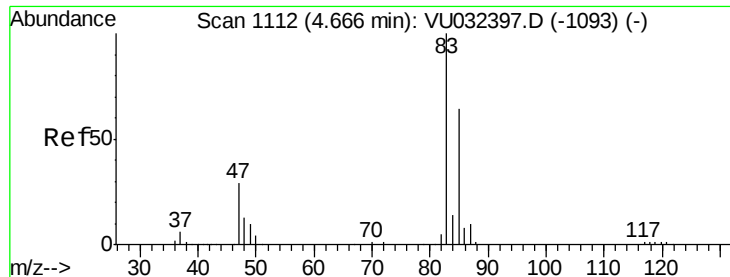
Bromochloromethane
 Concen: 5.219 ug/L
 RT: 4.54 min Scan# 1073
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion: 128 Resp: 30600
 Ion Ratio Lower Upper
 128 100
 49 188.7 131.5 244.3
 130 126.7 89.7 166.7
 51 55.9 46.5 69.7



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

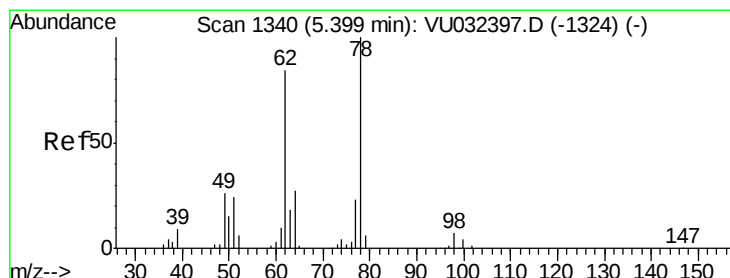
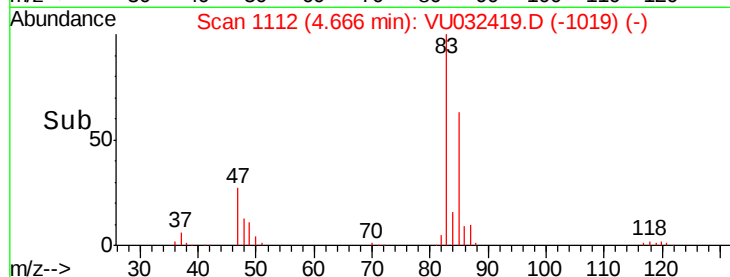
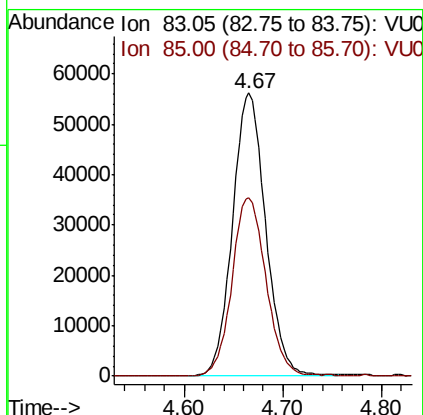
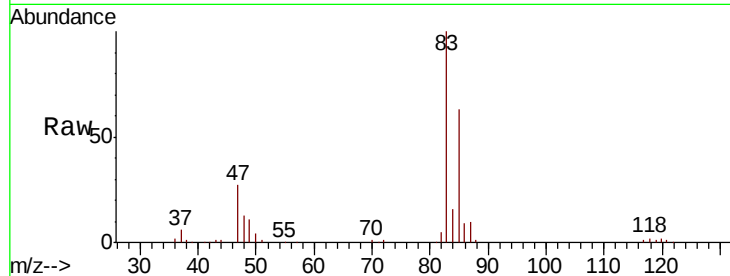




#25
Chloroform
Concen: 5.118 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

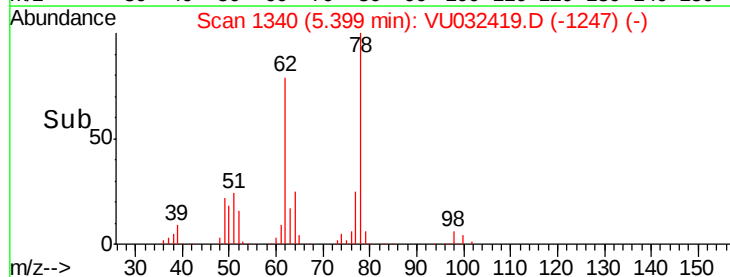
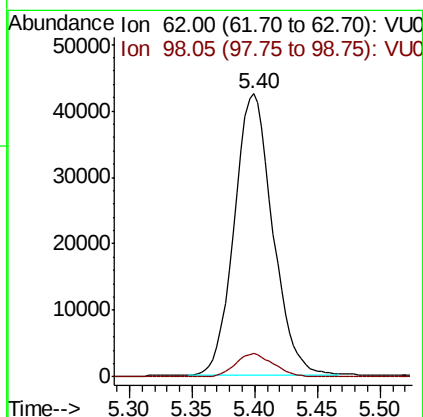
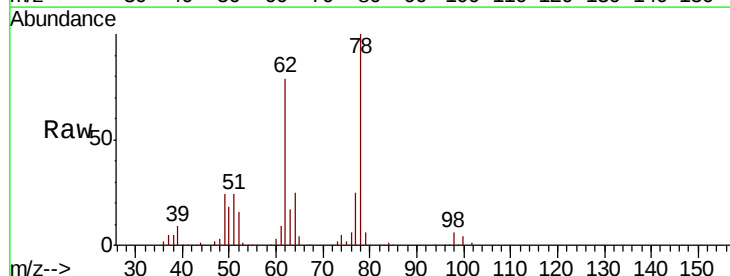
Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

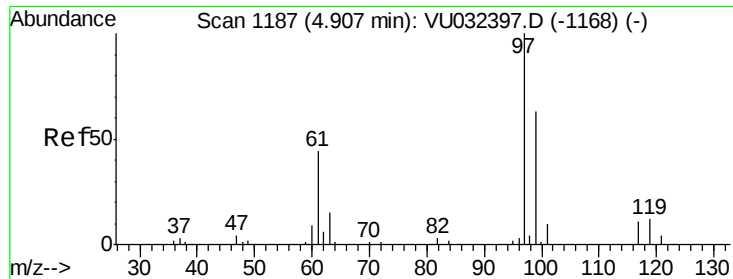
Tgt Ion: 83 Resp: 131364
Ion Ratio Lower Upper
83 100
85 63.2 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.038 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Tgt Ion: 62 Resp: 90067
Ion Ratio Lower Upper
62 100
98 8.1 6.2 9.4

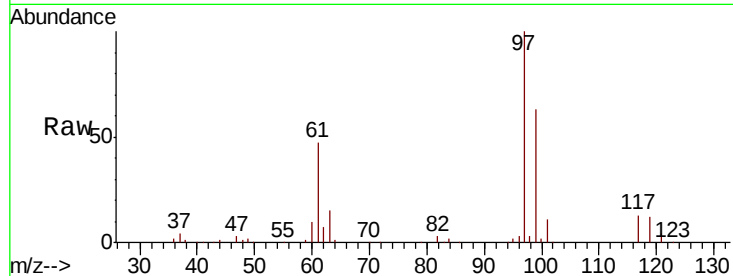




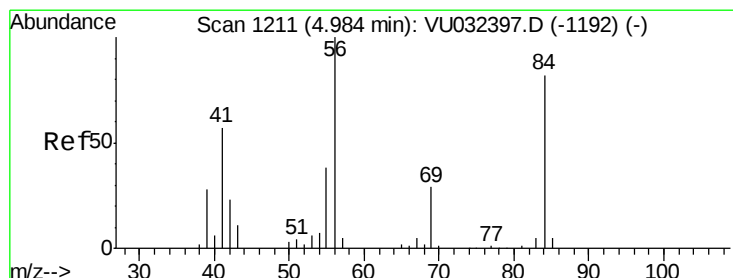
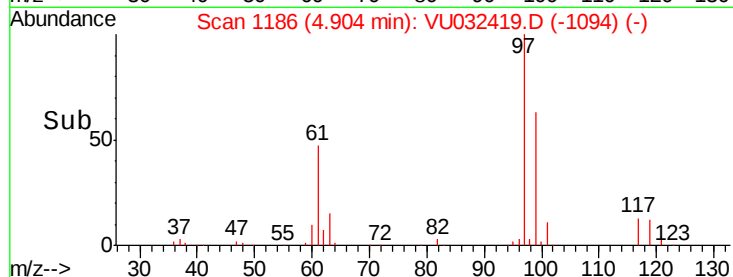
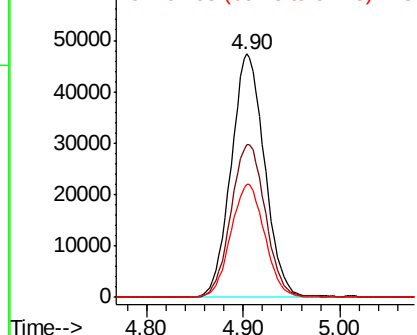
#29
1,1,1-Trichloroethane
Concen: 4.936 ug/L
RT: 4.90 min Scan# 1186
Delta R.T. -0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tgt Ion: 97 Resp: 114113
Ion Ratio Lower Upper
97 100
99 64.2 51.6 77.4
61 47.0 37.7 56.5

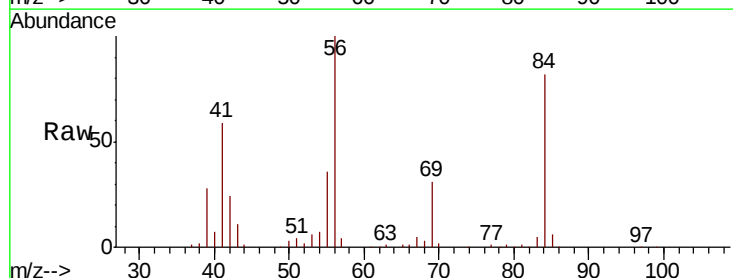


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

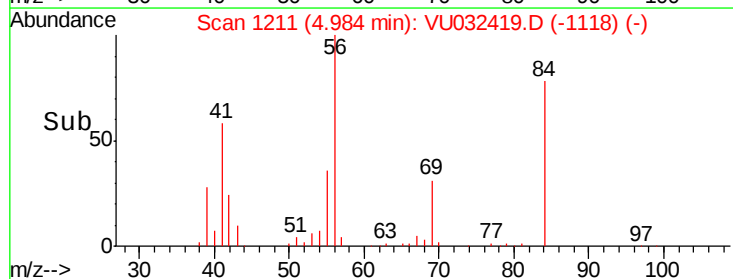
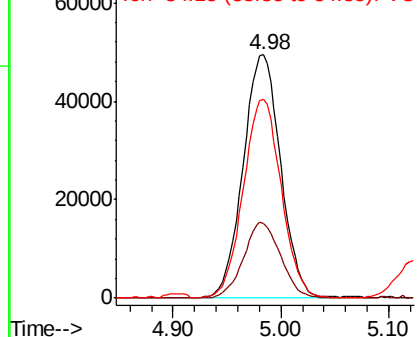


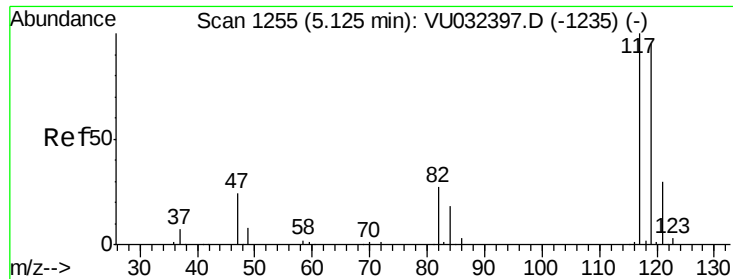
#30
Cyclohexane
Concen: 4.769 ug/L
RT: 4.98 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Tgt Ion: 56 Resp: 119753
Ion Ratio Lower Upper
56 100
69 30.7 24.2 36.4
84 82.5 64.3 96.5



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.000 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

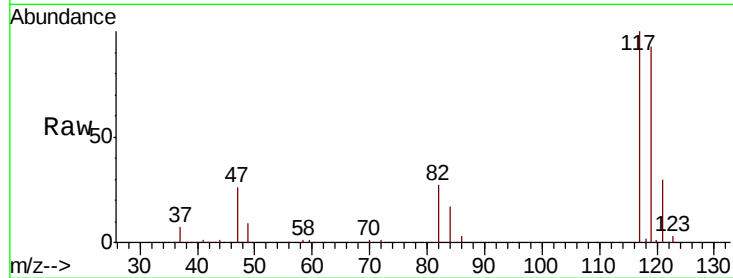
VSTD00519

Tgt Ion:117 Resp: 101874

Ion Ratio Lower Upper

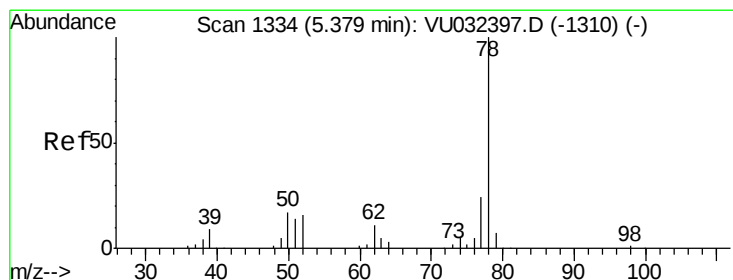
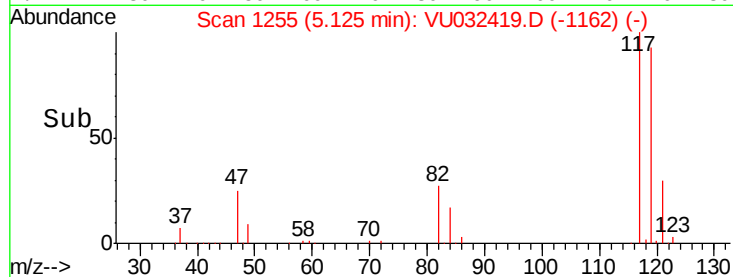
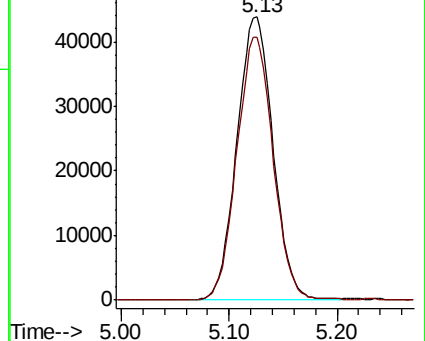
117 100

119 93.3 77.0 115.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.068 ug/L

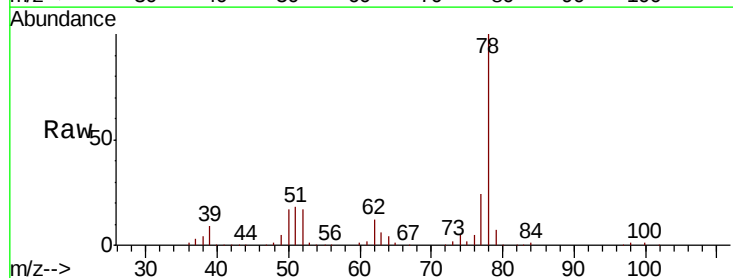
RT: 5.38 min Scan# 1334

Delta R.T. 0.00 min

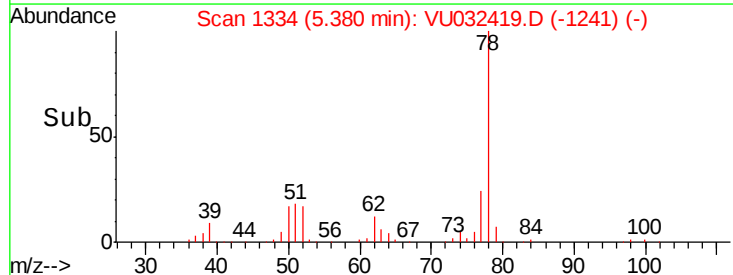
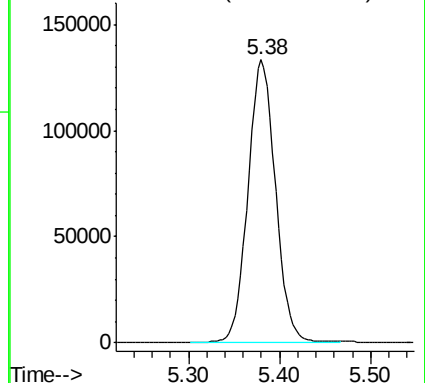
Lab File: VU032419.D

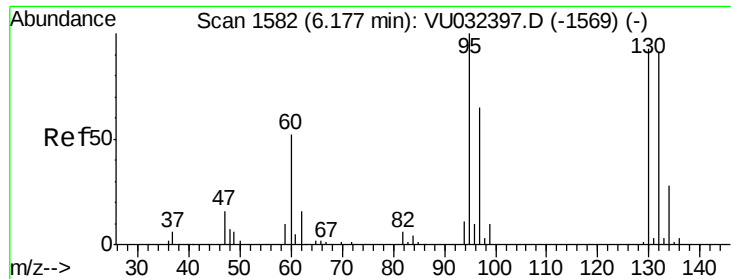
Acq: 04 Jun 2019 01:57

Tgt Ion: 78 Resp: 281289



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.266 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

Tgt Ion: 95 Resp: 79271

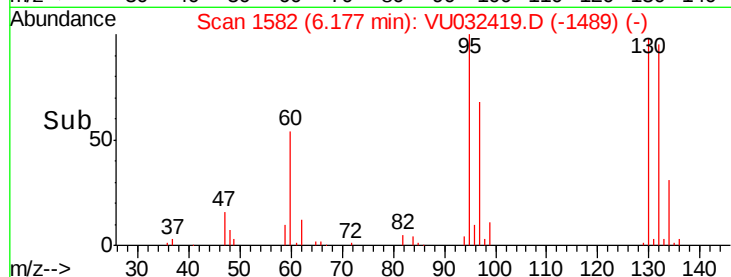
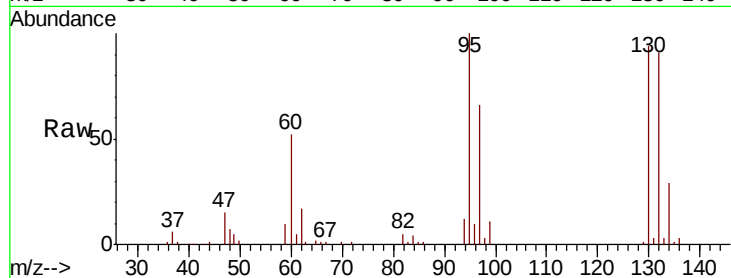
Ion Ratio Lower Upper

95 100

97 65.6 45.8 85.0

132 90.7 63.1 117.1

130 93.8 66.0 122.6



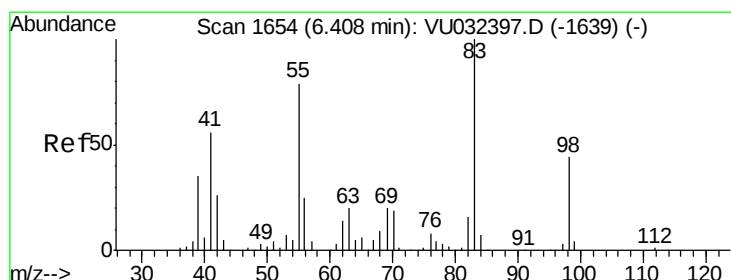
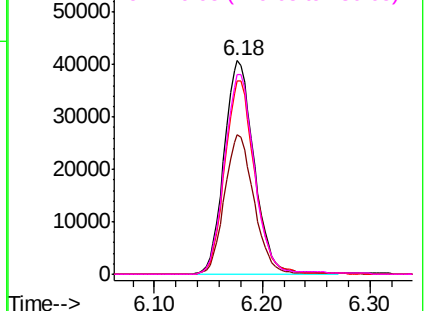
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.639 ug/L

RT: 6.41 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

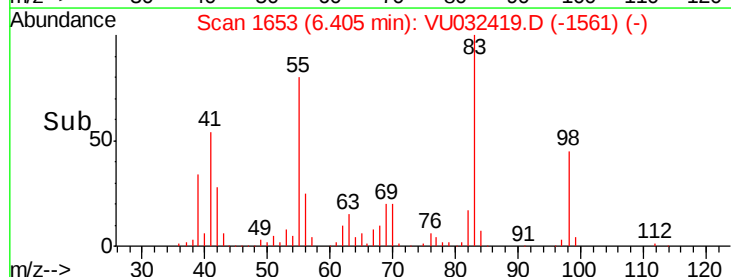
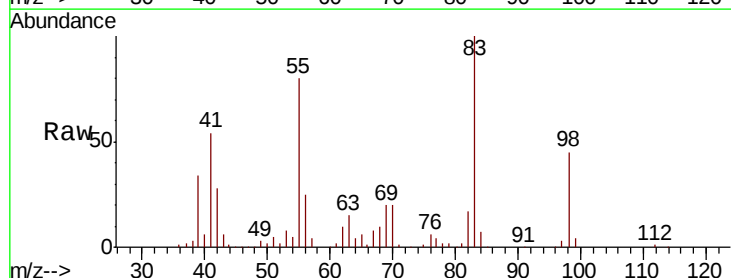
Tgt Ion: 83 Resp: 116485

Ion Ratio Lower Upper

83 100

55 82.4 64.7 97.1

98 46.2 35.9 53.9

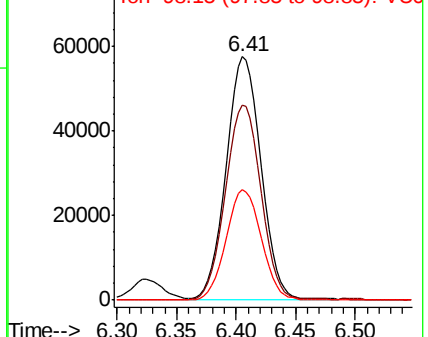


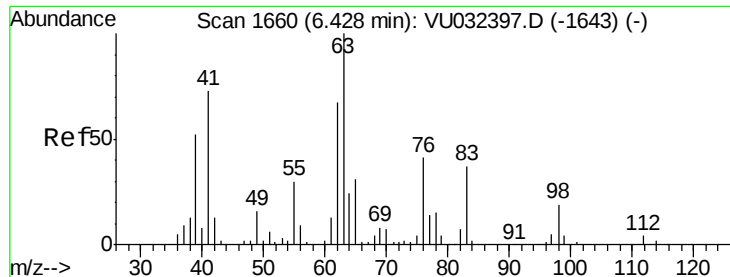
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

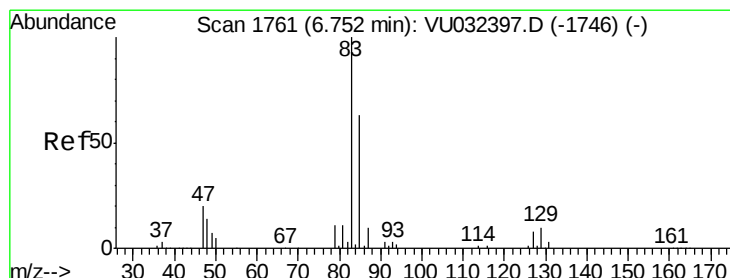
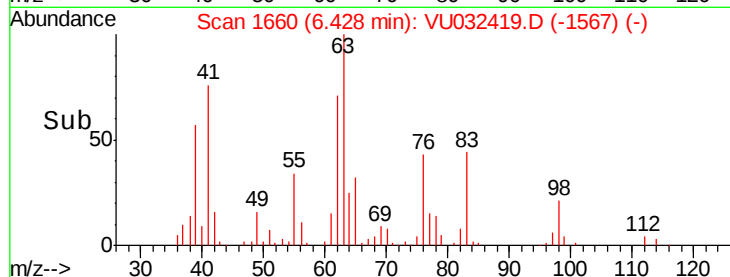
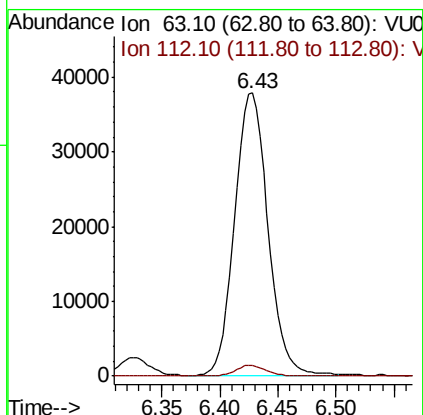
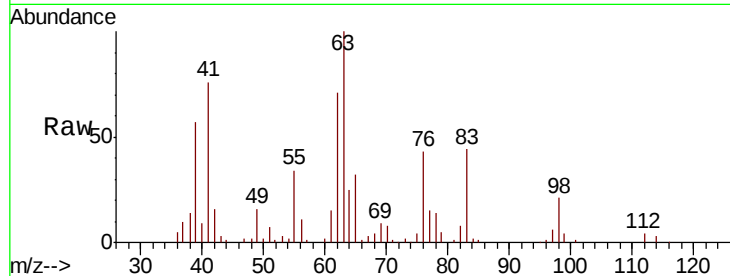




#37
 1,2-Dichloropropane
 Concen: 5.043 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

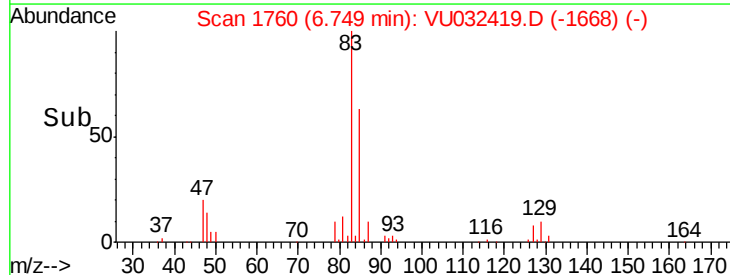
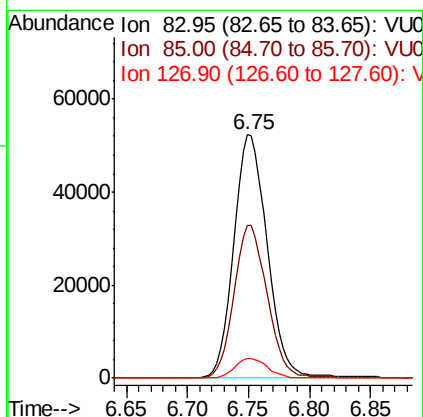
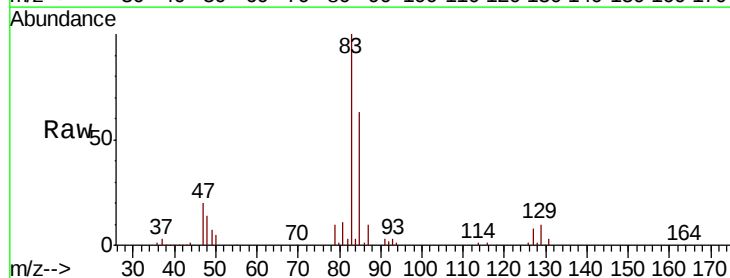
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

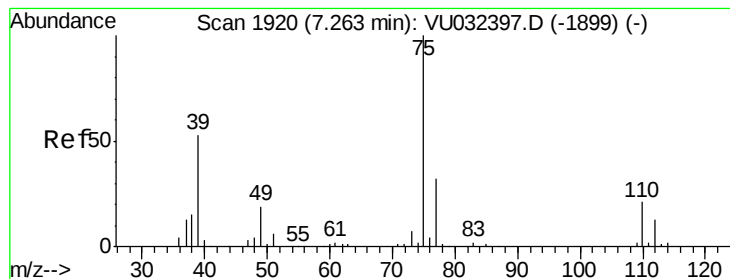
Tgt Ion: 63 Resp: 76190
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.6 4.0



#38
 Bromodichloromethane
 Concen: 5.011 ug/L
 RT: 6.75 min Scan# 1760
 Delta R.T. -0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion: 83 Resp: 99565
 Ion Ratio Lower Upper
 83 100
 85 62.5 45.4 84.4
 127 7.9 6.5 9.7



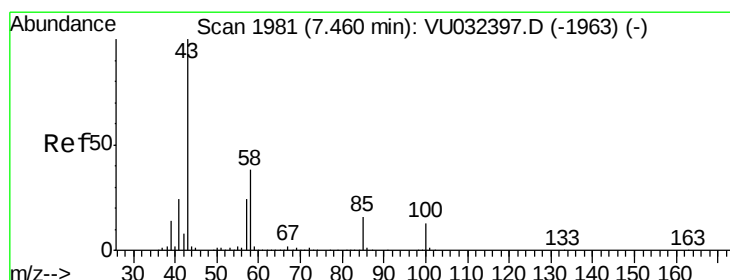
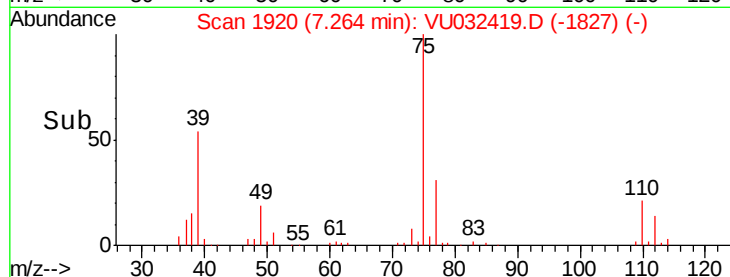
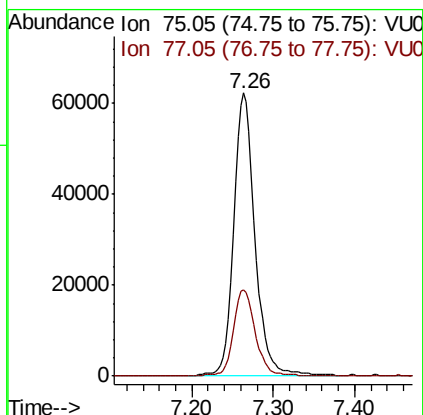
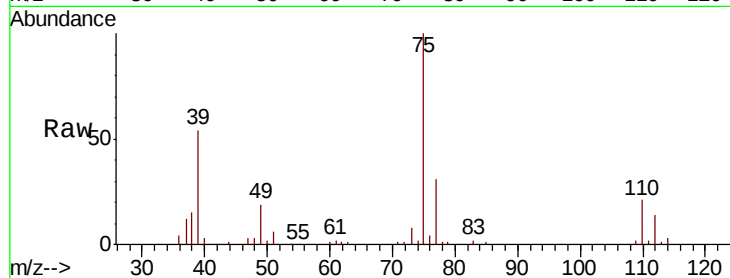


#39

cis-1,3-Dichloropropene
Concen: 4.789 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

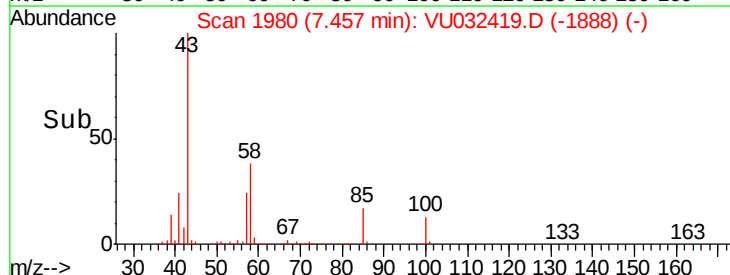
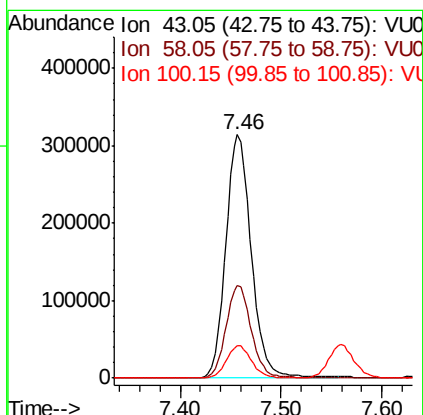
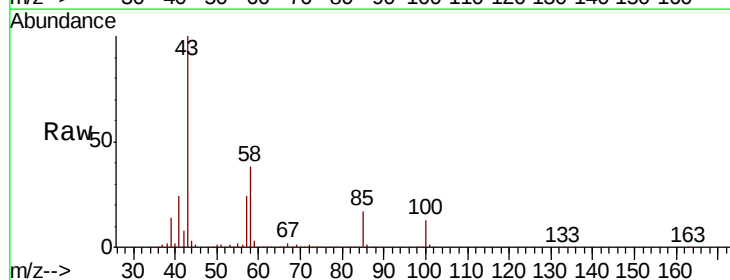
Tgt Ion: 75 Resp: 114328
Ion Ratio Lower Upper
75 100
77 30.6 21.1 39.1

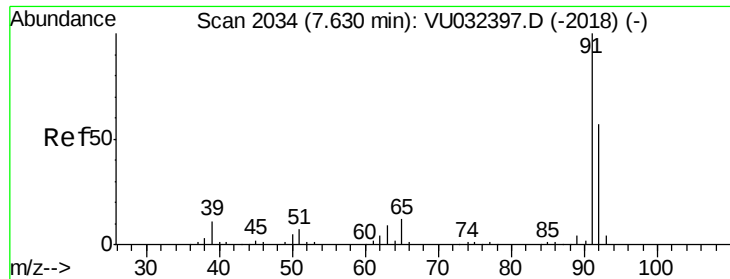


#40

4-Methyl-2-pentanone
Concen: 48.671 ug/L
RT: 7.46 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Tgt Ion: 43 Resp: 554174
Ion Ratio Lower Upper
43 100
58 37.8 30.3 45.5
100 13.2 10.3 15.5





#42

Toluene

Concen: 5.061 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

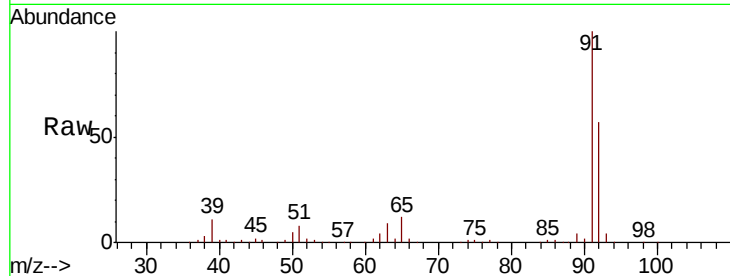
VSTD00519

Tgt Ion: 91 Resp: 302699

Ion Ratio Lower Upper

91 100

92 57.0 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU032397.D (-2018) (-)

Ion 92.15 (91.85 to 92.85): VU032397.D (-2018) (-)

7.63

200000

150000

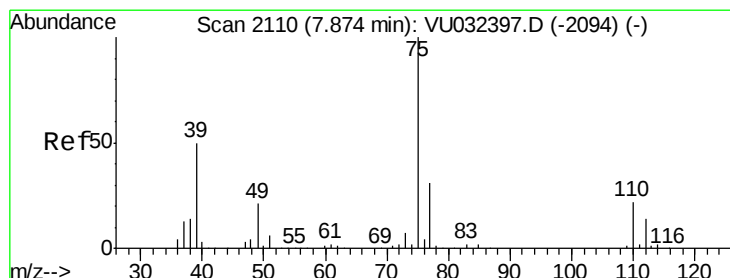
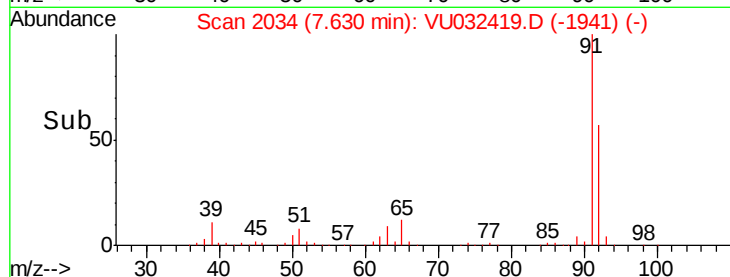
100000

50000

0

7.60 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.745 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU032419.D

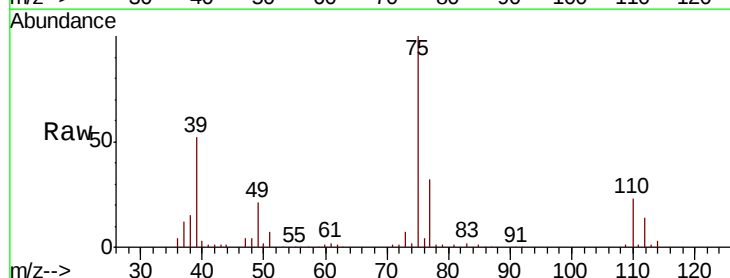
Acq: 04 Jun 2019 01:57

Tgt Ion: 75 Resp: 92528

Ion Ratio Lower Upper

75 100

77 31.9 22.0 40.8



Abundance Ion 75.05 (74.75 to 75.75): VU032397.D (-2094) (-)

Ion 77.05 (76.75 to 77.75): VU032397.D (-2094) (-)

7.87

60000

50000

40000

30000

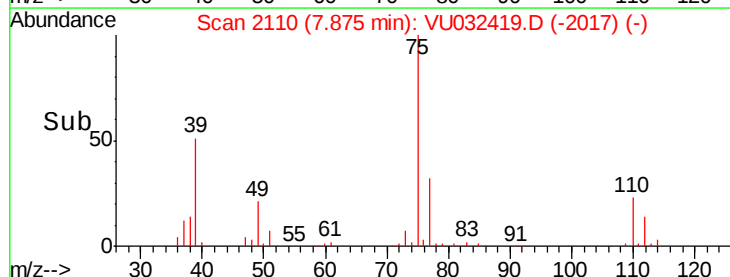
20000

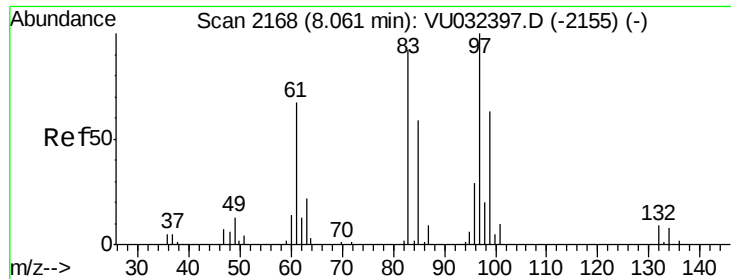
10000

0

7.80 7.90 8.00

Time-->

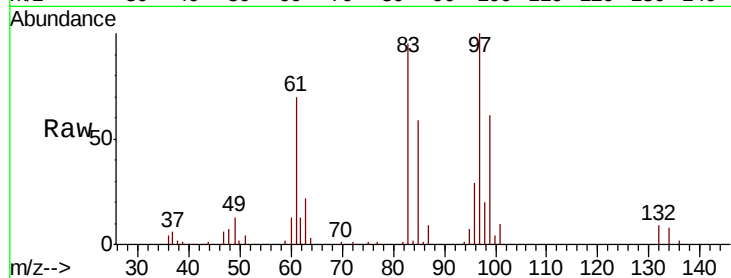




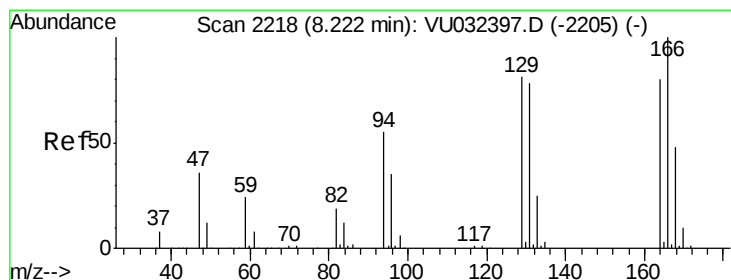
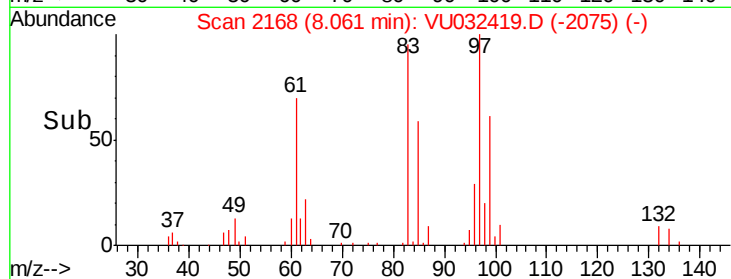
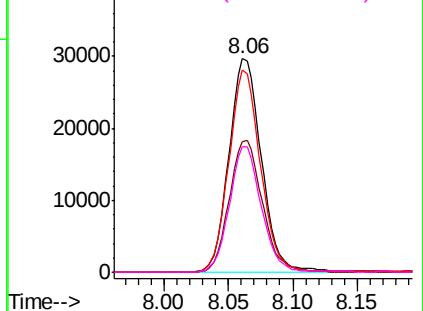
#45
 1,1,2-Trichloroethane
 Concen: 4.980 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion:	97	Resp:	51799
Ion	Ratio	Lower	Upper
97	100		
99	61.1	42.2	78.4
83	94.6	61.9	114.9
85	58.8	39.7	73.7

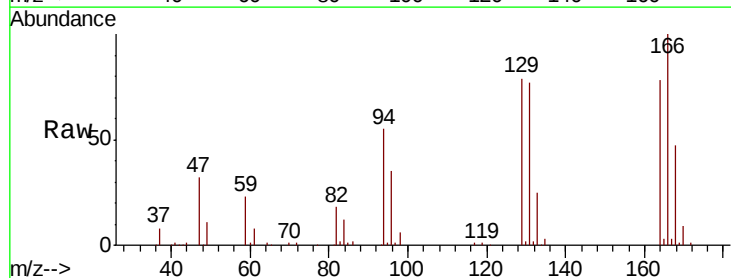


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

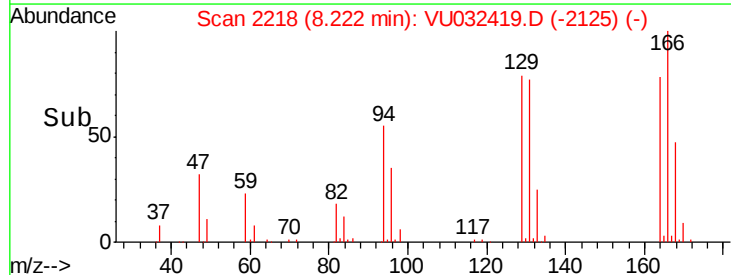
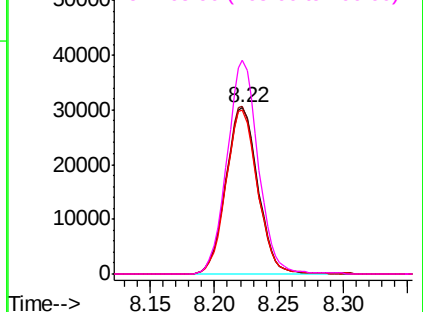


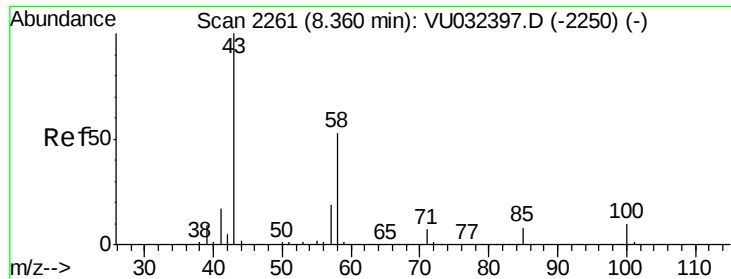
#47
 Tetrachloroethene
 Concen: 4.977 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion:	164	Resp:	52371
Ion	Ratio	Lower	Upper
164	100		
129	100.9	72.1	133.9
131	98.8	71.9	133.5
166	128.6	89.0	165.4



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V





#48

2-Hexanone

Concen: 47.254 ug/L

RT: 8.36 min Scan# 2261

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

Tgt Ion: 43 Resp: 393508

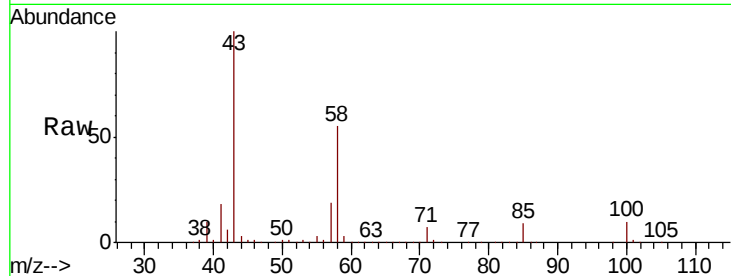
Ion Ratio Lower Upper

43 100

58 52.7 41.3 61.9

57 18.7 14.5 21.7

100 10.1 8.2 12.2

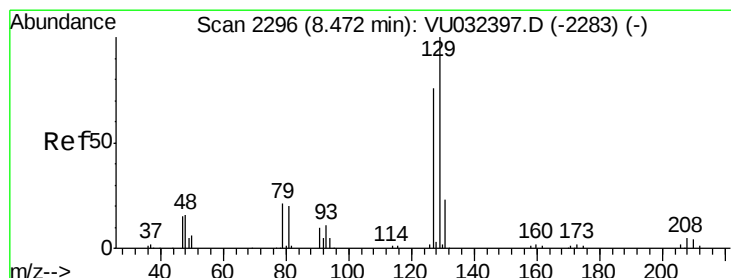
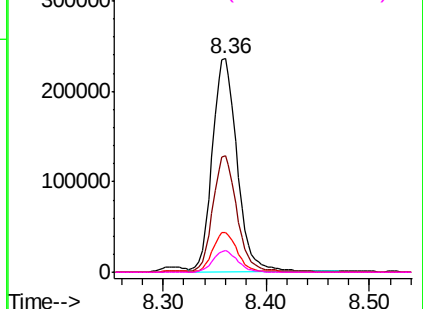
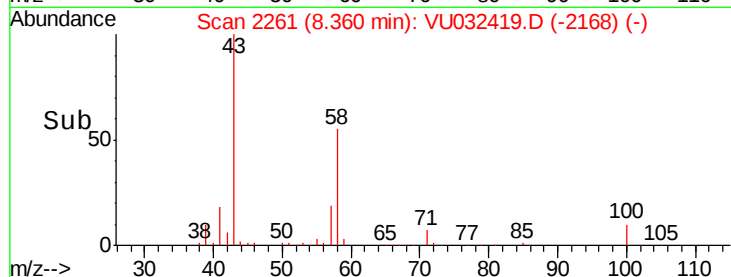


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0



#49

Dibromochloromethane

Concen: 4.924 ug/L

RT: 8.47 min Scan# 2296

Delta R.T. 0.00 min

Lab File: VU032419.D

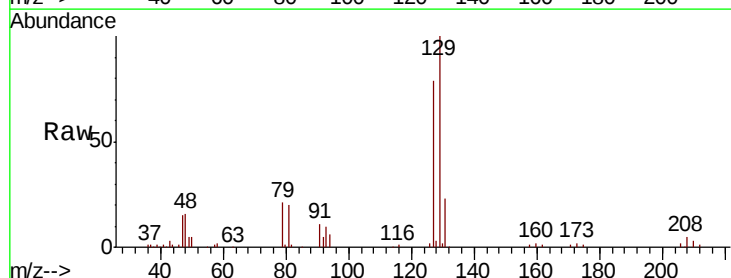
Acq: 04 Jun 2019 01:57

Tgt Ion: 129 Resp: 64450

Ion Ratio Lower Upper

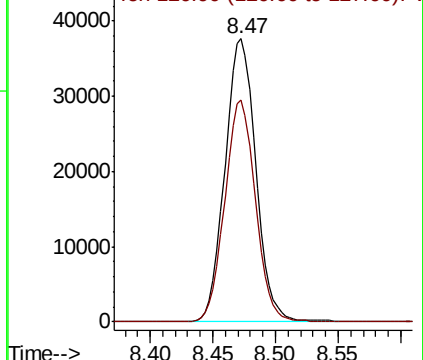
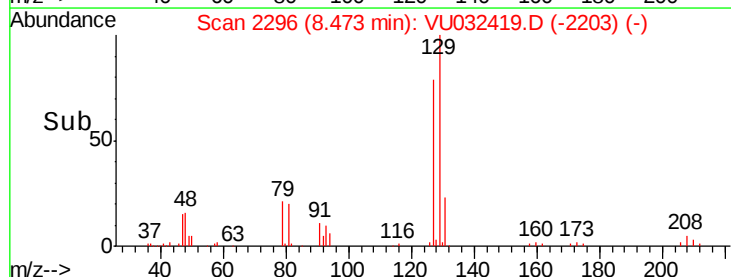
129 100

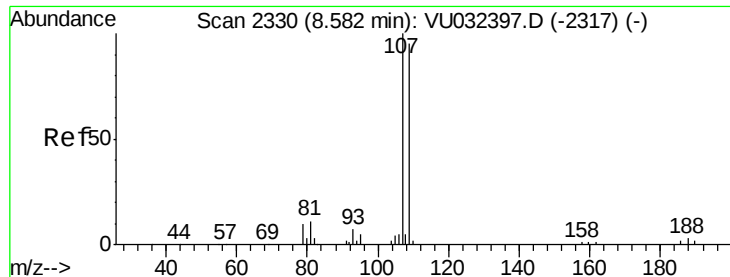
127 78.5 52.6 97.8



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

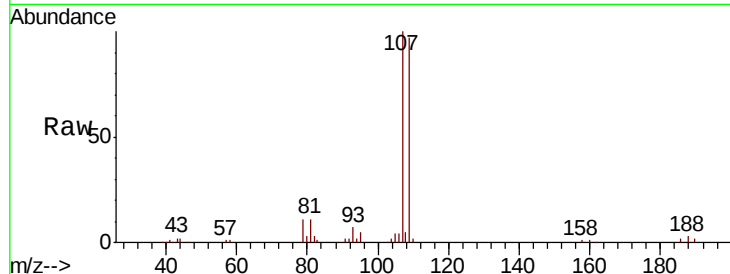




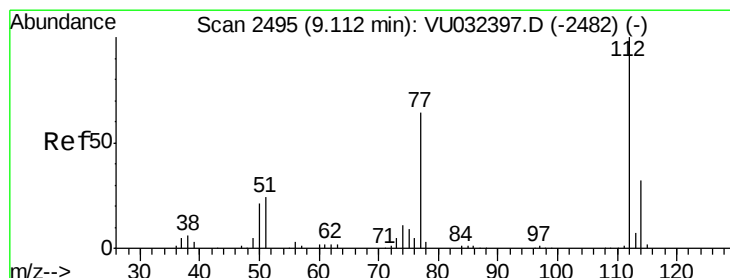
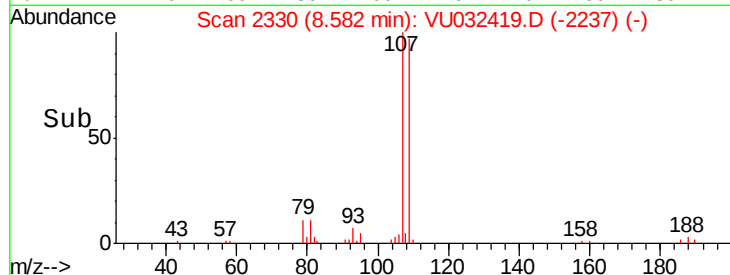
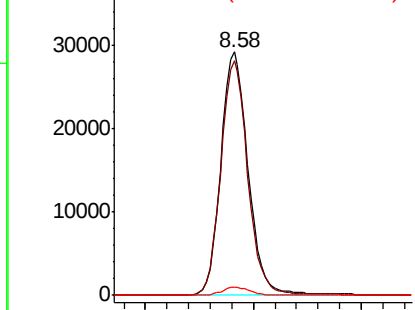
#50
 1,2-Dibromoethane
 Concen: 4.872 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion:	107	Resp:	51579
Ion	Ratio	Lower	Upper
107	100		
109	96.6	65.3	121.3
188	3.3	2.6	3.8

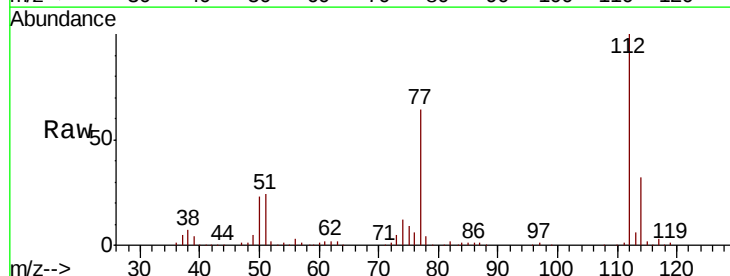


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

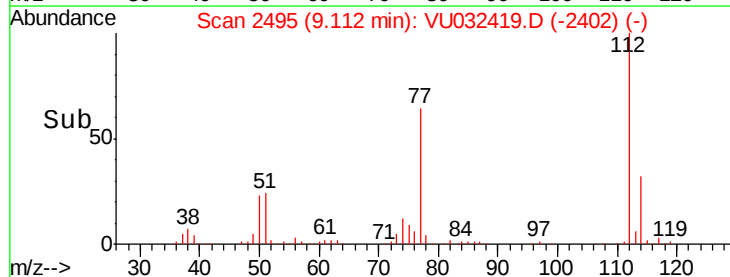
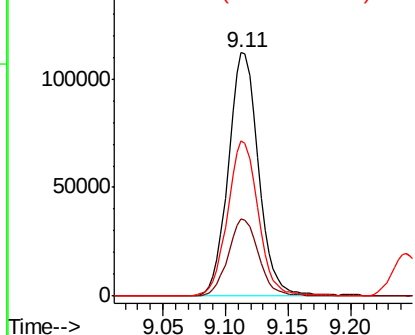


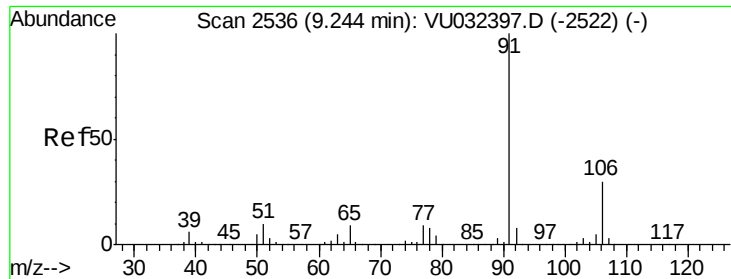
#51
 Chlorobenzene
 Concen: 4.973 ug/L
 RT: 9.11 min Scan# 2495
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion:	112	Resp:	187385
Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.1	41.1
77	63.7	51.0	76.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 5.032 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

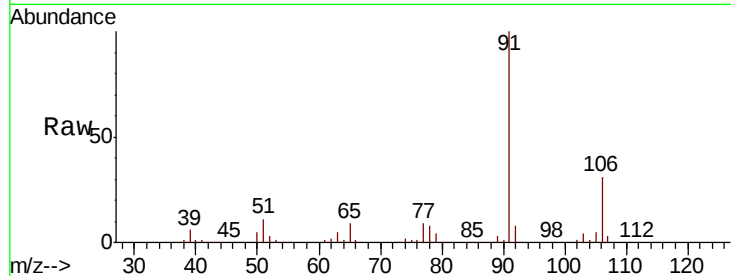
VSTD00519

Tgt Ion: 91 Resp: 345430

Ion Ratio Lower Upper

91 100

106 30.8 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU032397.D (-2522) (-)

Ion 106.15 (105.85 to 106.85): VU032397.D (-2522) (-)

9.24

250000

200000

150000

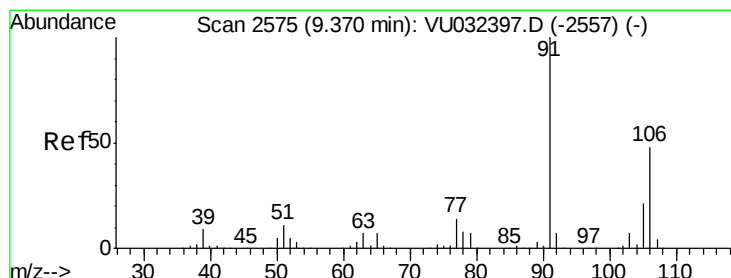
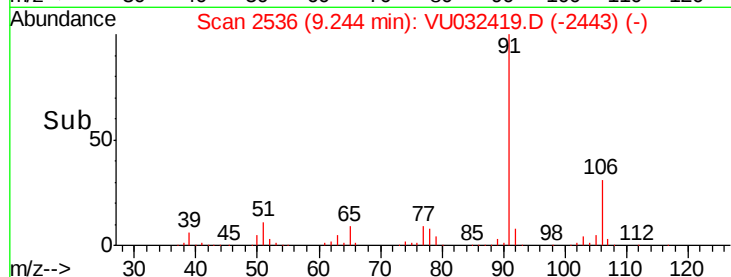
100000

50000

0

9.15 9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 5.041 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032419.D

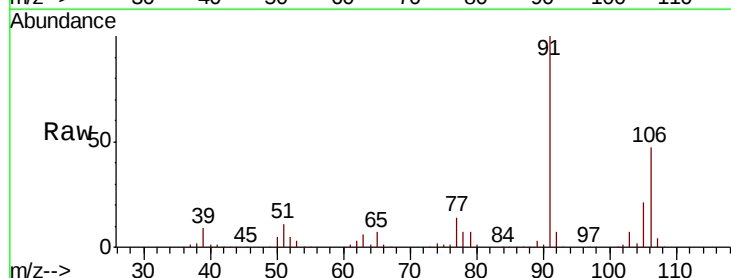
Acq: 04 Jun 2019 01:57

Tgt Ion: 106 Resp: 126981

Ion Ratio Lower Upper

106 100

91 213.5 144.8 269.0



Abundance Ion 106.15 (105.85 to 106.85): VU032397.D (-2557) (-)

Ion 91.15 (90.85 to 91.85): VU032397.D (-2557) (-)

9.37

150000

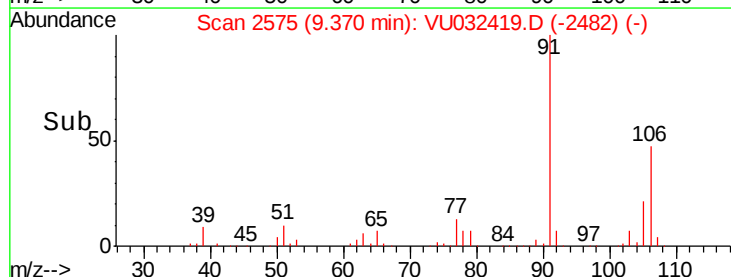
100000

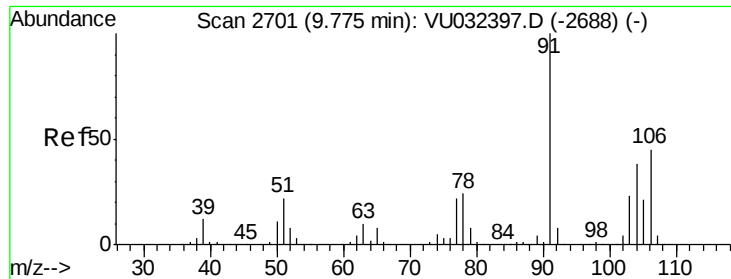
50000

0

9.30 9.35 9.40 9.45

Time-->

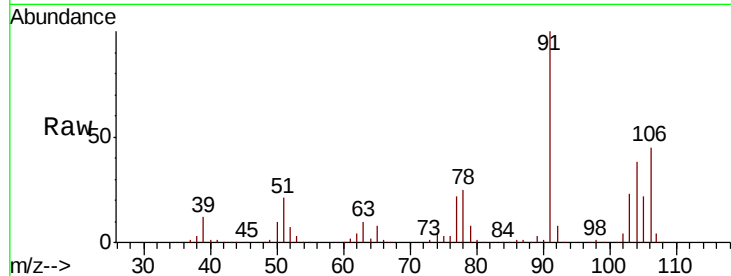




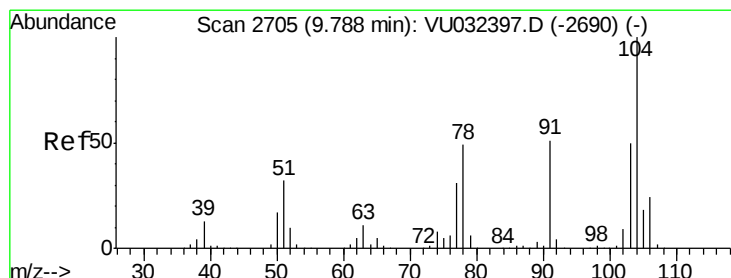
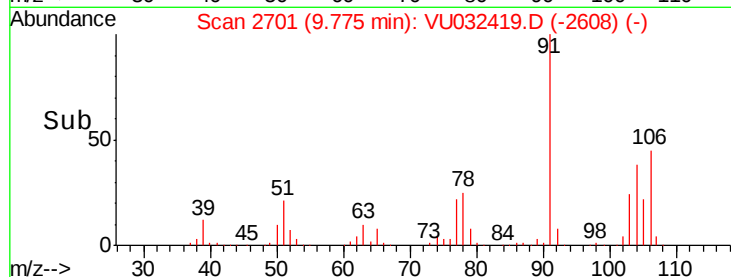
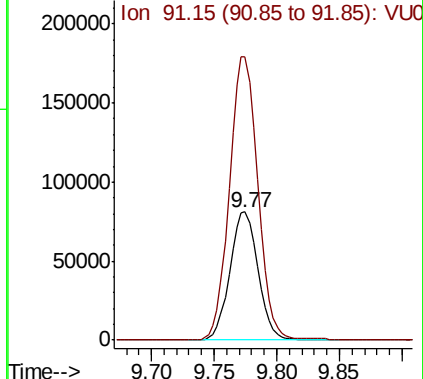
#54
o-Xylene
Concen: 5.084 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Instrument :
MSVOA_U
ClientSampleId :
VSTD00519

Tgt Ion:106 Resp: 126650
Ion Ratio Lower Upper
106 100
91 220.7 156.9 291.3

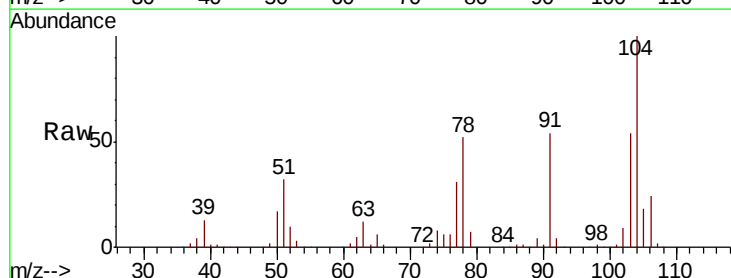


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

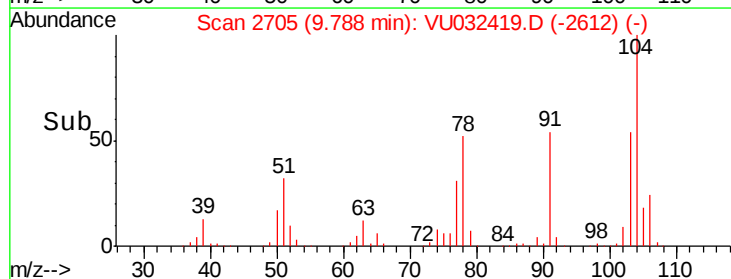
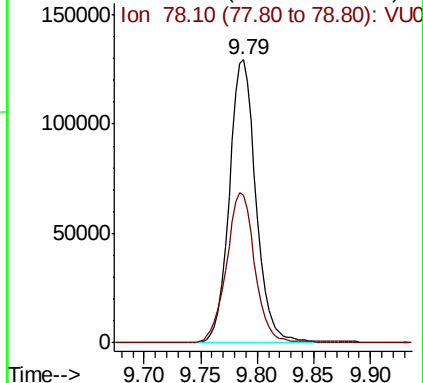


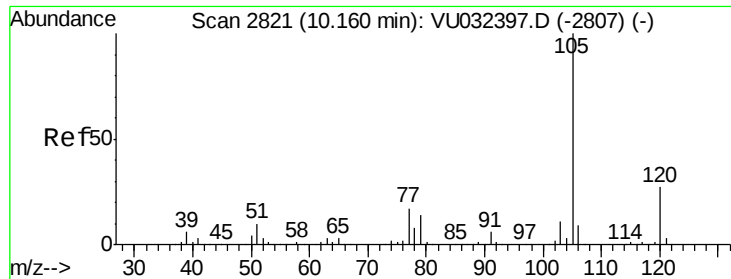
#55
Styrene
Concen: 5.069 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU032419.D
Acq: 04 Jun 2019 01:57

Tgt Ion:104 Resp: 212958
Ion Ratio Lower Upper
104 100
78 52.4 35.5 65.9



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.055 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

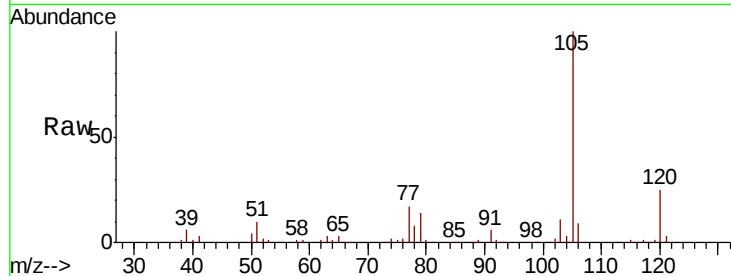
Tgt Ion: 105 Resp: 335863

Ion Ratio Lower Upper

105 100

120 25.7 20.9 31.3

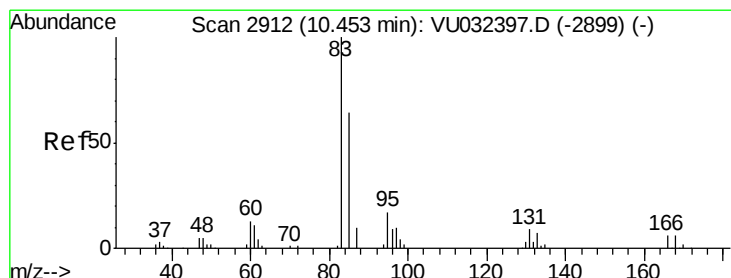
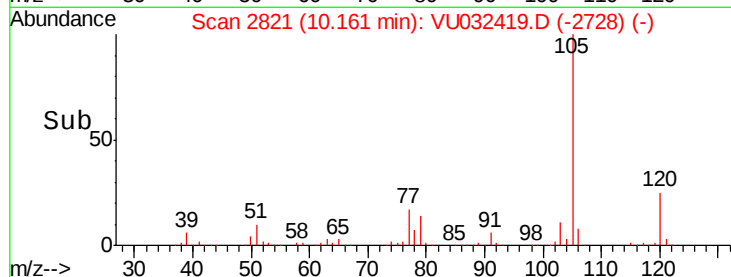
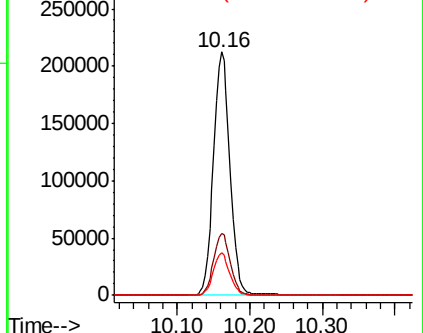
77 17.2 13.4 20.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.006 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

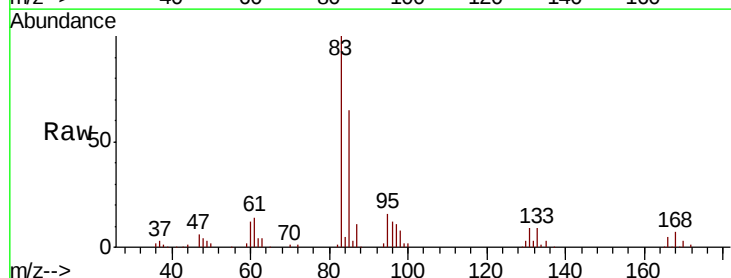
Tgt Ion: 83 Resp: 71010

Ion Ratio Lower Upper

83 100

85 65.3 46.5 86.5

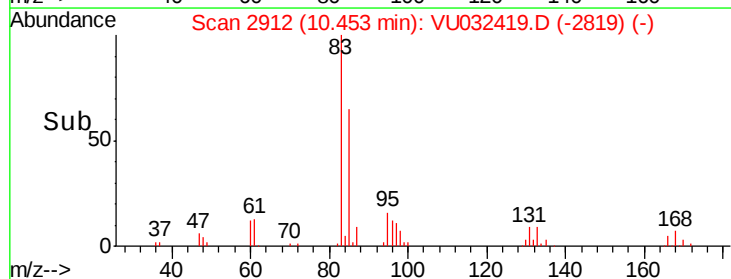
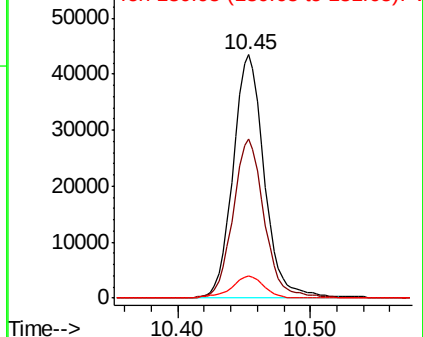
131 9.3 7.4 11.2

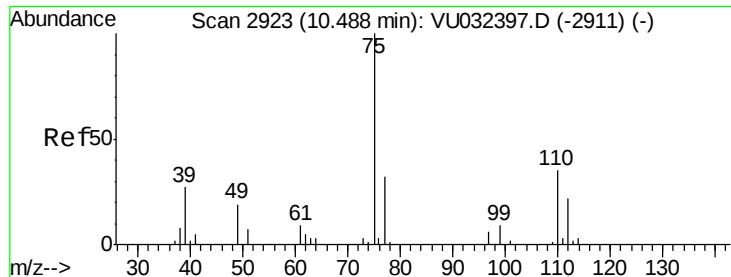


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.142 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

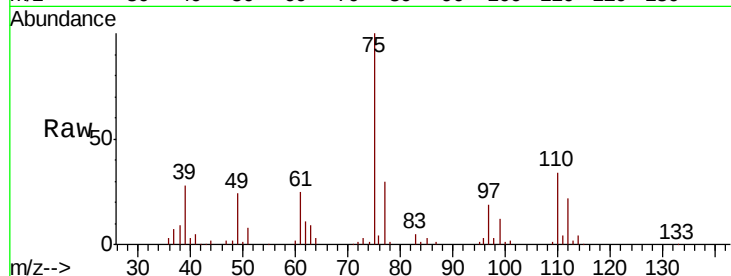
VSTD00519

Tgt Ion: 75 Resp: 50496

Ion Ratio Lower Upper

75 100

77 30.8 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU032397.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU032397.D (-2911) (-)

10.49

30000

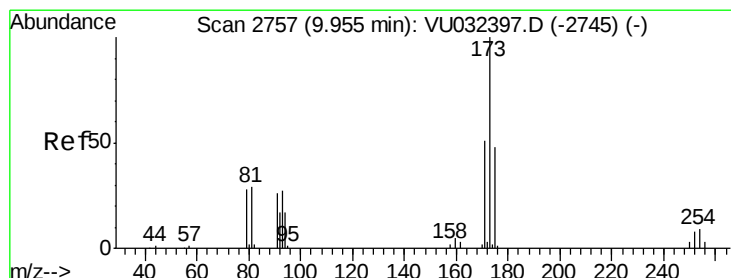
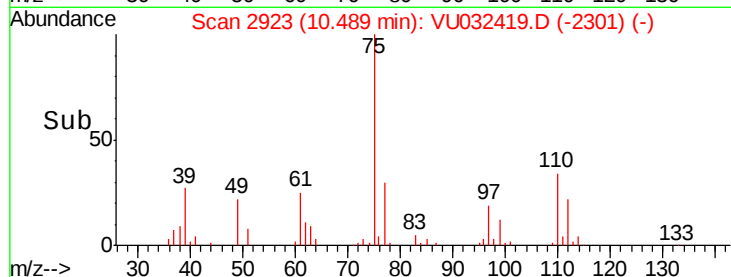
20000

10000

0

Time-->

10.40 10.45 10.50 10.55



#61

Bromoform

Concen: 4.854 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

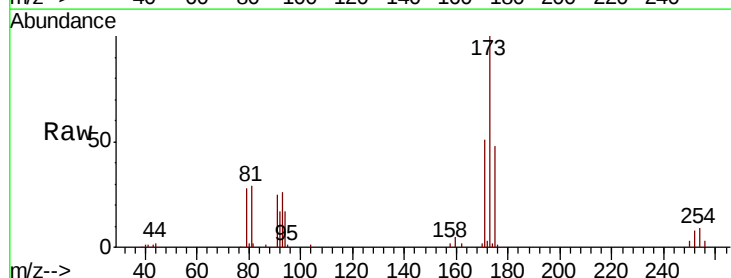
Tgt Ion: 173 Resp: 36513

Ion Ratio Lower Upper

173 100

175 48.7 38.6 58.0

254 8.6 7.4 11.0



Abundance Ion 172.90 (172.60 to 173.60): VU032397.D (-2745) (-)

Ion 174.90 (174.60 to 175.60): VU032397.D (-2745) (-)

Ion 253.75 (253.45 to 254.45): VU032397.D (-2745) (-)

9.95

30000

25000

20000

15000

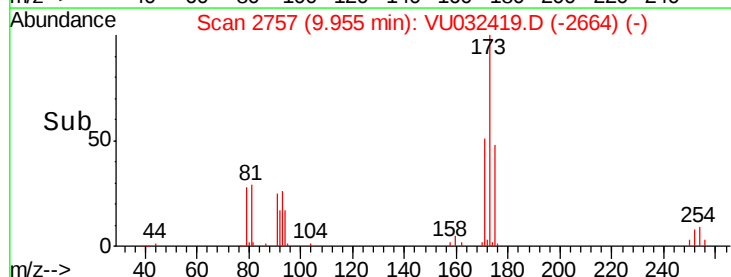
10000

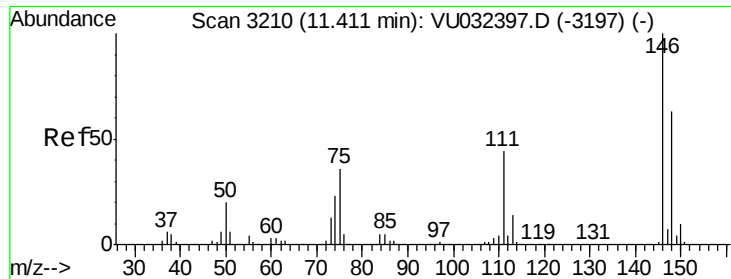
5000

0

Time-->

9.90 10.00





#62

1,3-Dichlorobenzene

Concen: 4.980 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

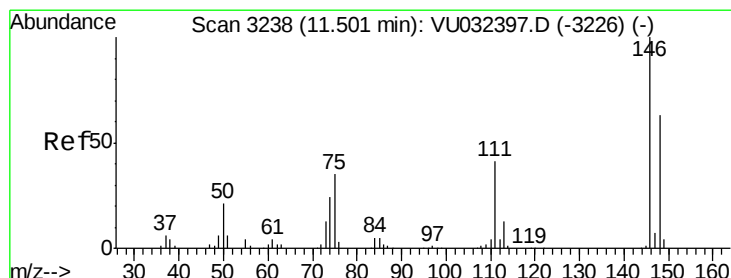
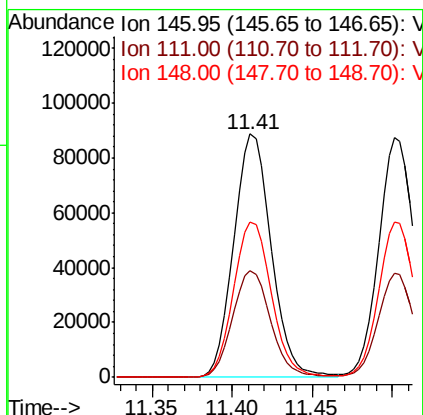
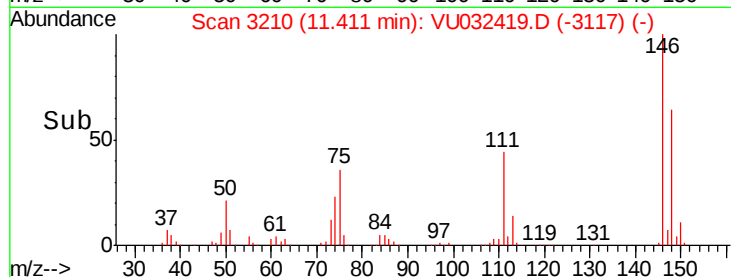
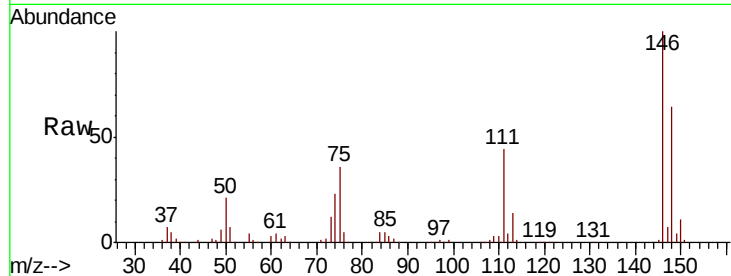
Tgt Ion:146 Resp: 141899

Ion Ratio Lower Upper

146 100

111 44.0 29.8 55.3

148 64.0 44.2 82.0



#63

1,4-Dichlorobenzene

Concen: 4.911 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

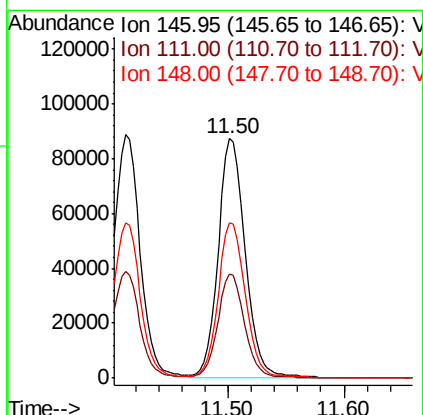
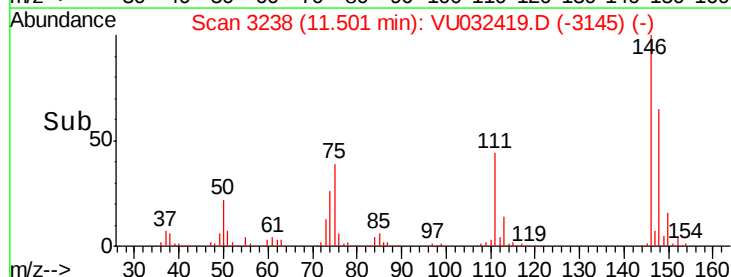
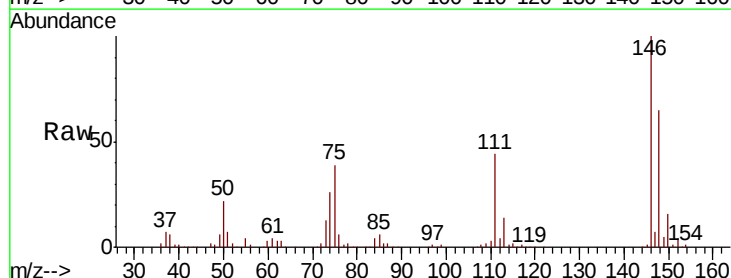
Tgt Ion:146 Resp: 140999

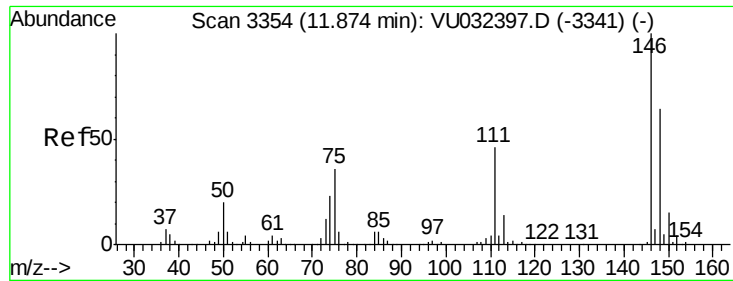
Ion Ratio Lower Upper

146 100

111 43.7 28.6 53.2

148 65.1 43.3 80.3

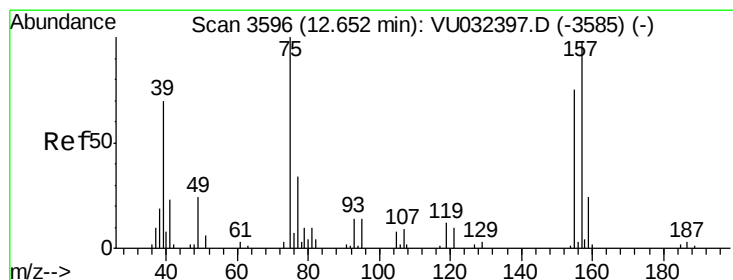
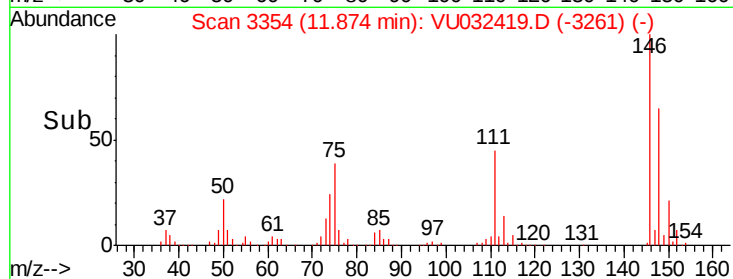
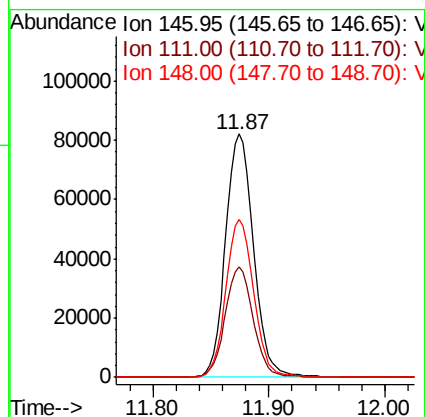
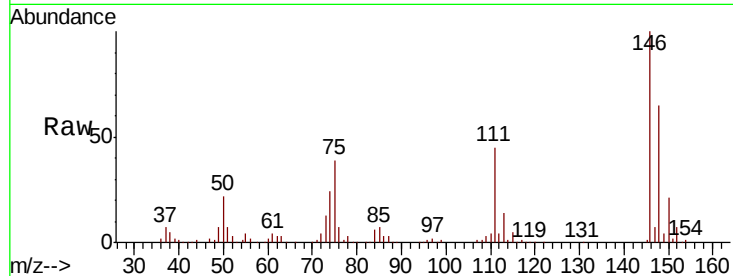




#65
 1,2-Dichlorobenzene
 Concen: 5.036 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

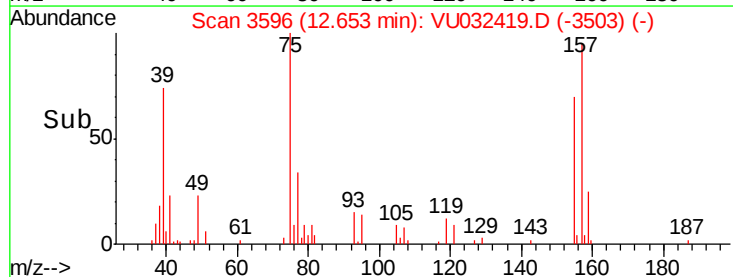
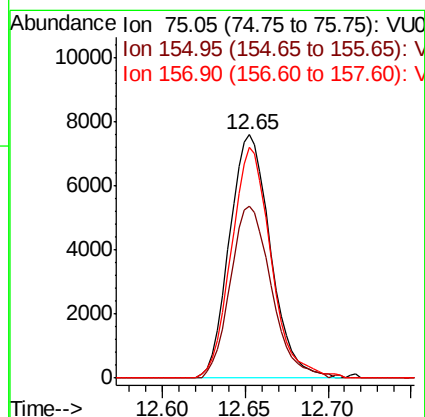
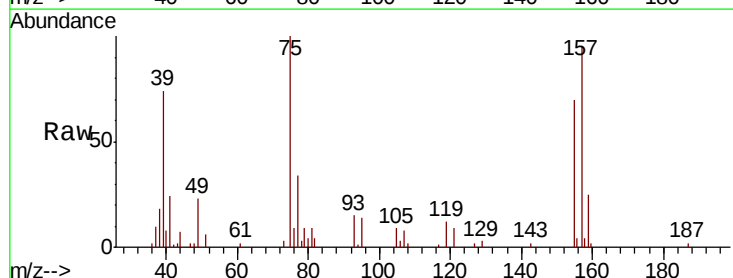
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

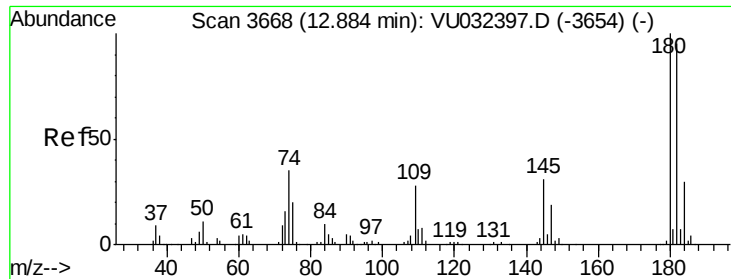
Tgt Ion: 146 Resp: 137171
 Ion Ratio Lower Upper
 146 100
 111 45.2 35.2 52.8
 148 65.0 50.3 75.5



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.050 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion: 75 Resp: 13059
 Ion Ratio Lower Upper
 75 100
 155 70.5 54.8 82.2
 157 94.6 74.7 112.1

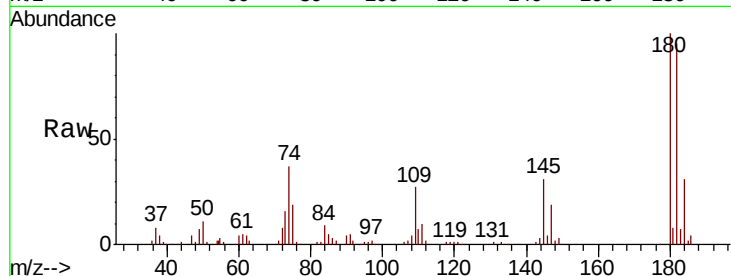




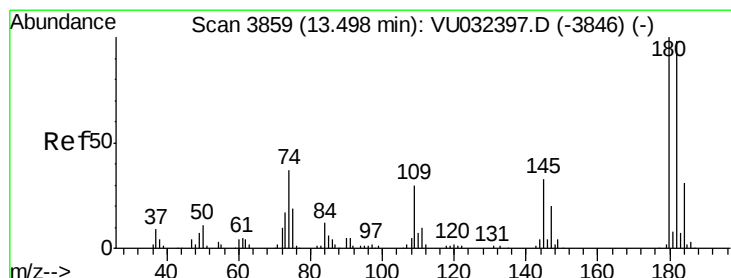
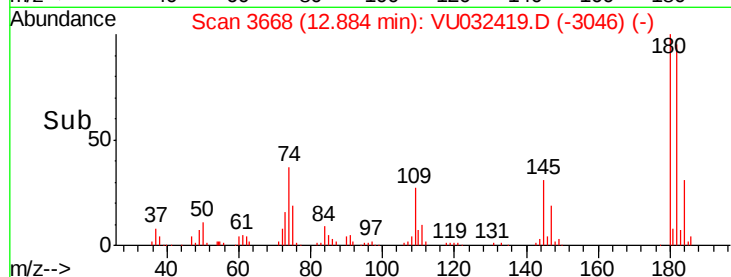
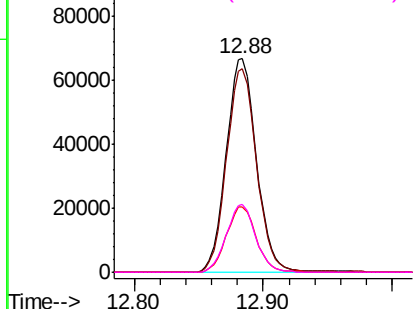
#67
 1,3,5-Trichlorobenzene
 Concen: 4.921 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00519

Tgt Ion:180 Resp: 108374
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.0 114.0
 184 30.4 24.5 36.7
 145 30.9 25.2 37.8

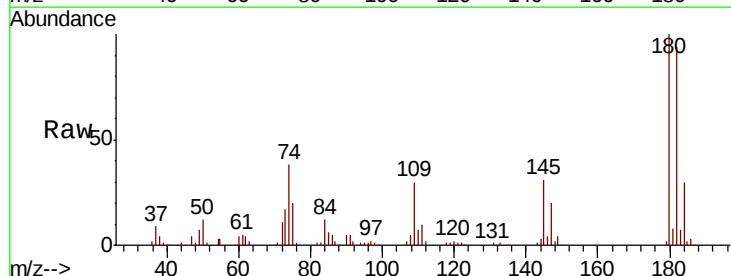


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

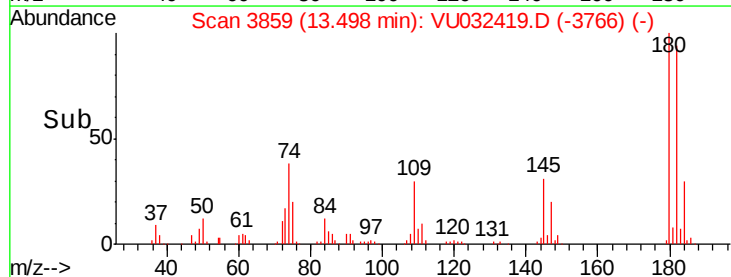
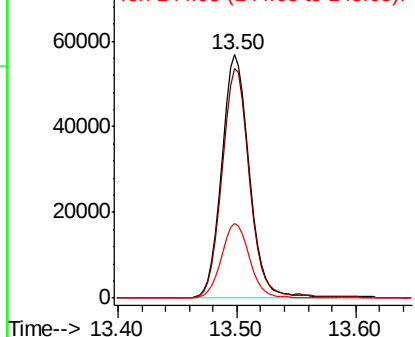


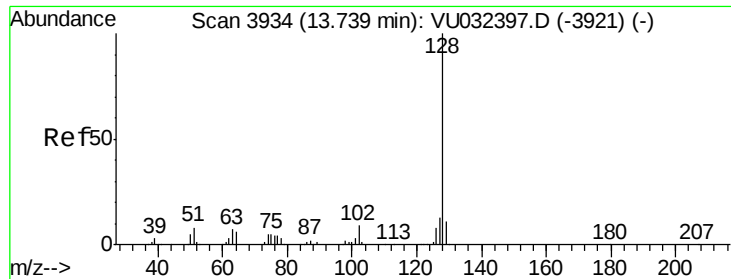
#68
 1,2,4-trichlorobenzene
 Concen: 4.897 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU032419.D
 Acq: 04 Jun 2019 01:57

Tgt Ion:180 Resp: 91682
 Ion Ratio Lower Upper
 180 100
 182 93.2 77.3 115.9
 145 31.4 25.0 37.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.986 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

Instrument :

MSVOA_U

ClientSampleId :

VSTD00519

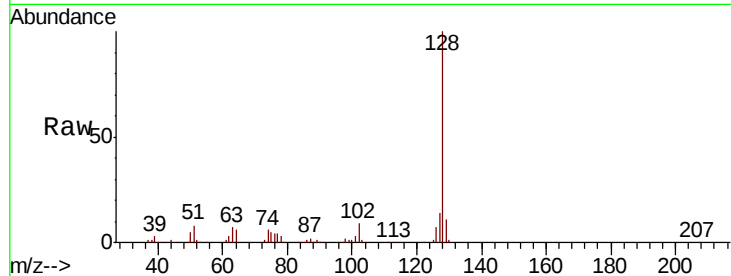
Tgt Ion:128 Resp: 183507

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

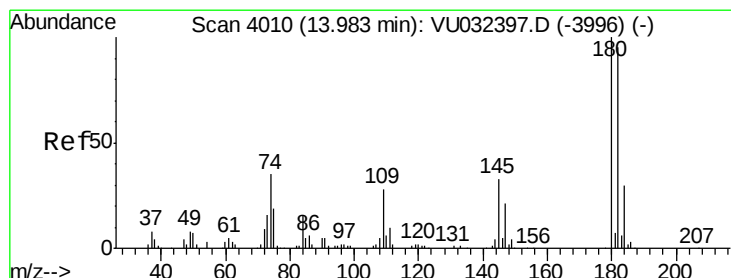
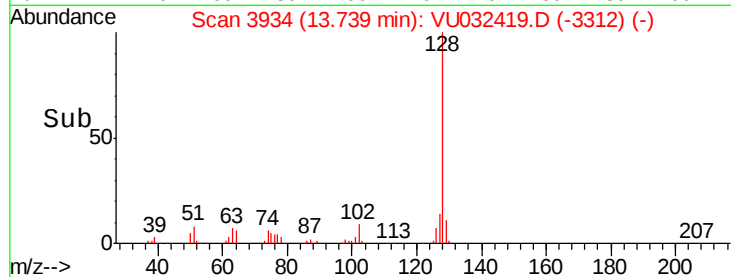
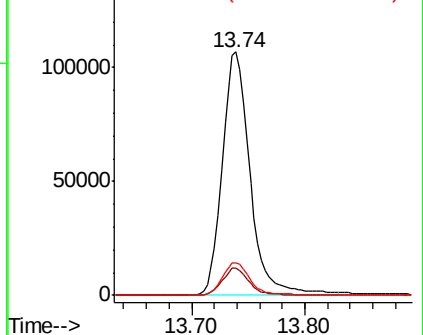
127 13.4 11.0 16.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.858 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU032419.D

Acq: 04 Jun 2019 01:57

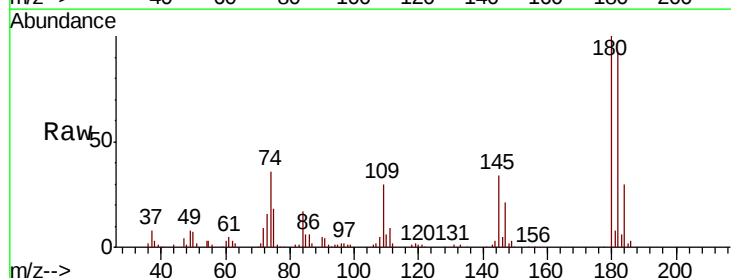
Tgt Ion:180 Resp: 86381

Ion Ratio Lower Upper

180 100

182 93.7 76.6 114.8

145 33.8 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

