

Data File : VV013415.D
Acq On : 29 Oct 2019 23:53
Operator : SY/MD
Sample : K5597-16
Misc : 25.0ML/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
GAQE5

Quant Time: Oct 30 02:57:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 30 02:50:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	404135	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	410082	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	255813	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	153431	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.58	69	132532	4.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.00%
11) 1,1-Dichloroethene-d2	2.13	63	199153	3.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.80%
20) 2-Butanone-d5	3.92	46	422673	48.34	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.68%
24) Chloroform-d	4.40	84	322219	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
26) 1,2-Dichloroethane-d4	5.08	65	155050	4.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.40%
32) Benzene-d6	5.10	84	650381	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.12	67	201296	4.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.60%
41) Toluene-d8	7.36	98	646213	4.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.40%
43) trans-1,3-Dichloropropene-	7.66	79	79268	4.84	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.80%
46) 2-Hexanone-d5	8.13	63	305452	57.75	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.50%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	138929	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	235599	4.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.80%

Target Compounds

						Qvalue
3) Chloromethane	1.23	50	12881	0.282	ug/L #	69
8) Chloroethane	1.65	64	2869	0.113	ug/L	96
13) Acetone	2.15	43	712172	166.701	ug/L	53
14) Carbon disulfide	2.32	76	55625	0.595	ug/L	97
15) Methyl Acetate	2.52	43	4221142	263.983	ug/L #	55
16) Methylene chloride	2.47	84	35611	0.795	ug/L #	1
17) Methyl tert-butyl Ether	2.80	73	117700	1.430	ug/L #	1
21) 2-Butanone	4.01	43	98555	10.589	ug/L	90
25) Chloroform	4.45	83	1201233	15.013	ug/L #	22
27) 1,2-Dichloroethane	5.15	62	159151	3.604	ug/L #	1
30) Cyclohexane	4.73	56	8310242	130.276	ug/L #	95
33) Benzene	5.15	78	16723288	109.132	ug/L	100
34) Trichloroethene	5.99	95	42976	1.022	ug/L #	20
35) Methylcyclohexane	6.18	83	5690791	90.691	ug/L	93
37) 1,2-Dichloropropane	6.18	63	54074	1.396	ug/L #	20
38) Bromodichloromethane	6.60	83	367995	7.570	ug/L #	26
40) 4-Methyl-2-pentanone	7.31	43	168168	7.709	ug/L #	1

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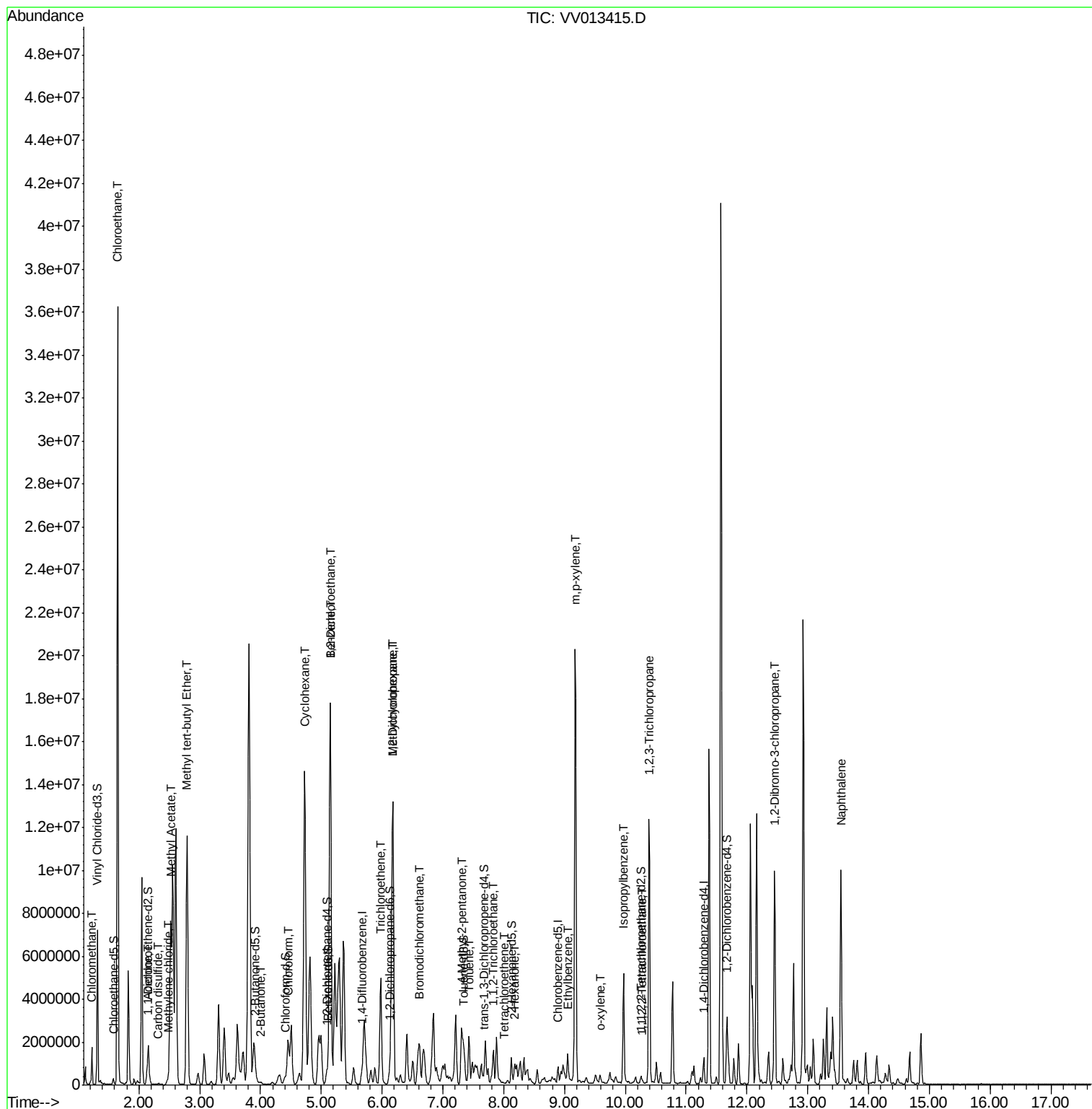
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1479626	9.260	ug/L	98
45) 1,1,2-Trichloroethane	7.83	97	578254	22.421	ug/L #	21
47) Tetrachloroethene	8.02	164	5226	0.147	ug/L	84
48) 2-Hexanone	8.19	43	43229	2.803	ug/L #	1
52) Ethylbenzene	9.05	91	875944	5.171	ug/L	100
53) m,p-xylene	9.18	106	5674738	90.694	ug/L	89
54) o-xylene	9.58	106	96158	1.589	ug/L	97
56) Isopropylbenzene	9.97	105	3219334	19.758	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	12246	0.448	ug/L #	43
59) 1,2,3-Trichloropropane	10.39	75	56805	2.548	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.46	75	36538	8.069	ug/L #	1
69) Naphthalene	13.55	128	7676585	104.877	ug/L	99

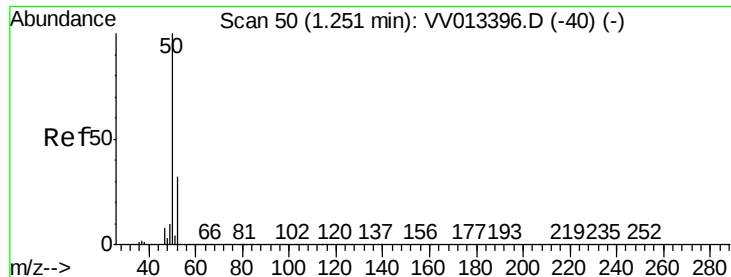
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.282 ug/L

RT: 1.23 min Scan# 42

Delta R.T. -0.03 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

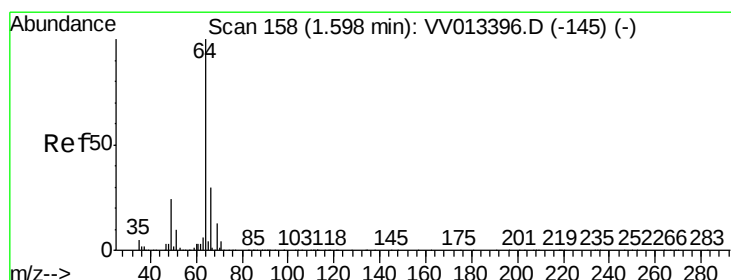
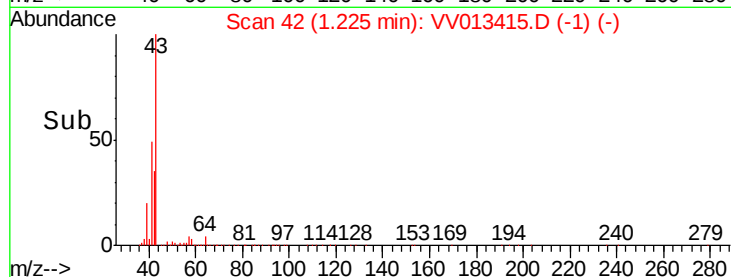
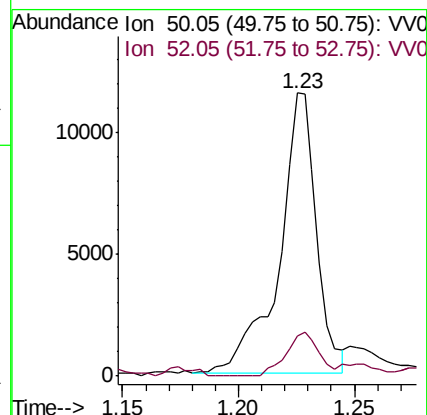
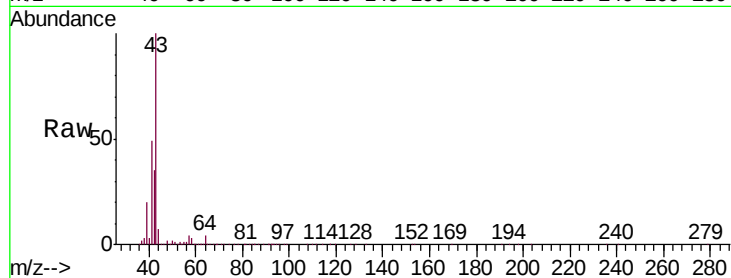
GAQE5

Tgt Ion: 50 Resp: 12881

Ion Ratio Lower Upper

50 100

52 14.0 21.9 40.7#



#8

Chloroethane

Concen: 0.113 ug/L

RT: 1.65 min Scan# 174

Delta R.T. 0.05 min

Lab File: VV013415.D

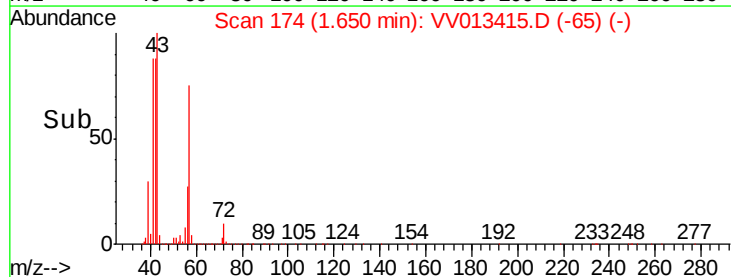
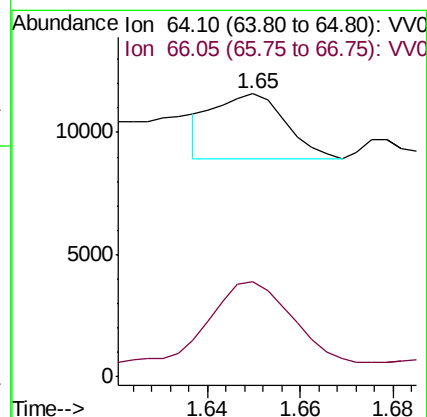
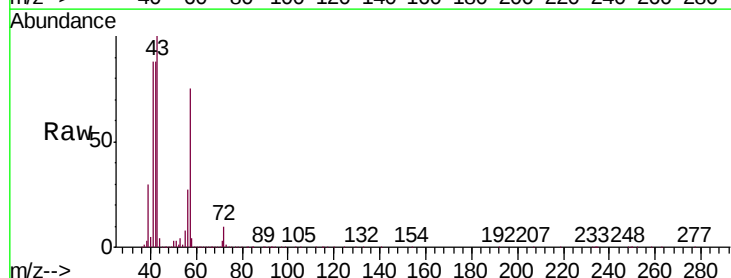
Acq: 29 Oct 2019 23:53

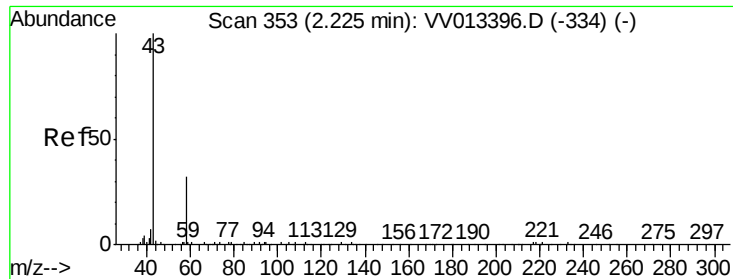
Tgt Ion: 64 Resp: 2869

Ion Ratio Lower Upper

64 100

66 33.8 22.0 41.0

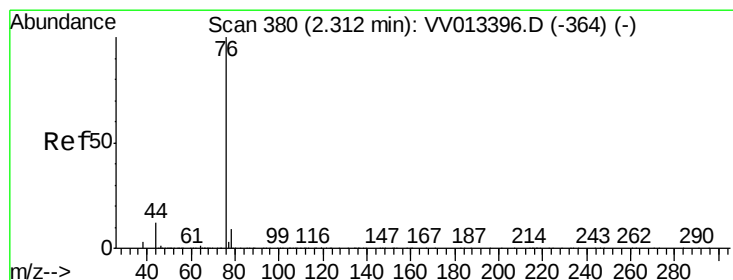
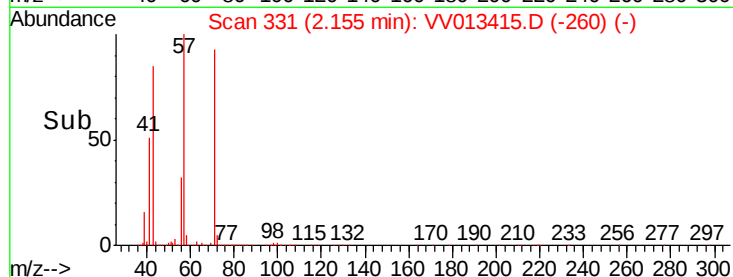
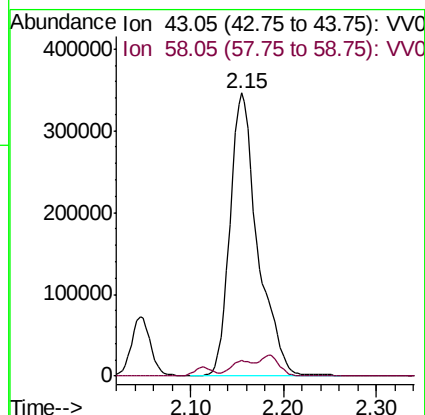
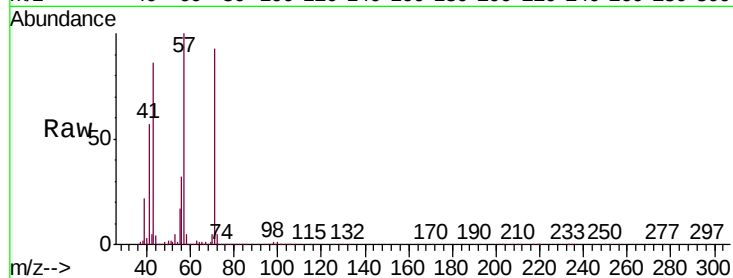




#13
Acetone
Concen: 166.701 ug/L
RT: 2.15 min Scan# 331
Delta R.T. -0.07 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

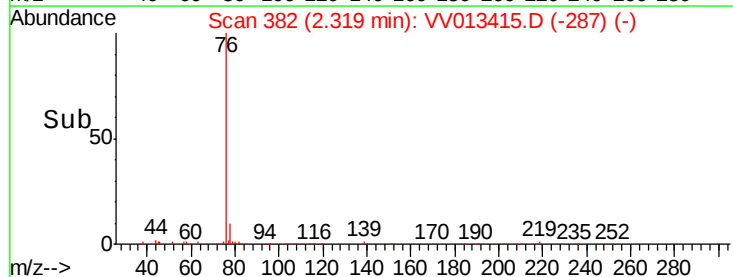
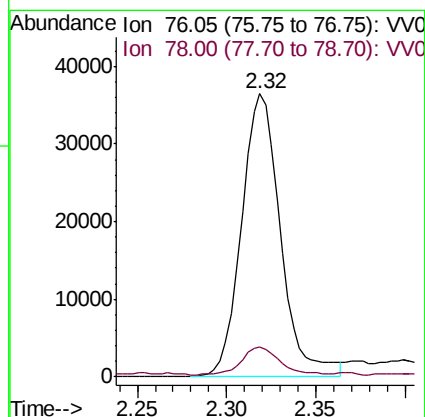
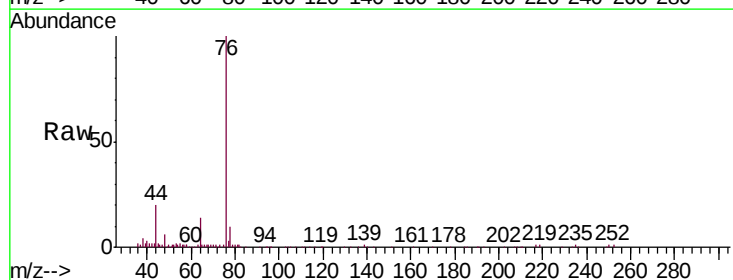
Instrument :
MSVOA_V
ClientSampleId :
GAQE5

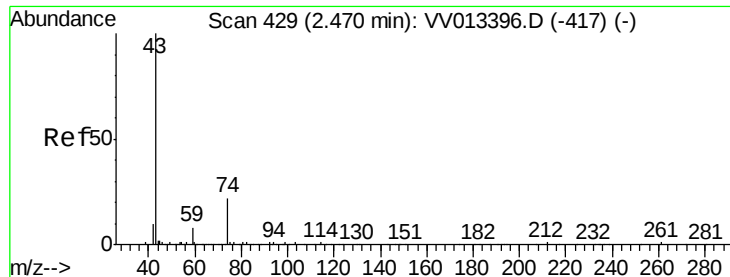
Tgt Ion: 43 Resp: 712172
Ion Ratio Lower Upper
43 100
58 4.3 0.0 59.0



#14
Carbon disulfide
Concen: 0.595 ug/L
RT: 2.32 min Scan# 382
Delta R.T. 0.01 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 76 Resp: 55625
Ion Ratio Lower Upper
76 100
78 10.5 7.5 11.3





#15

Methyl Acetate

Concen: 263.983 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.05 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

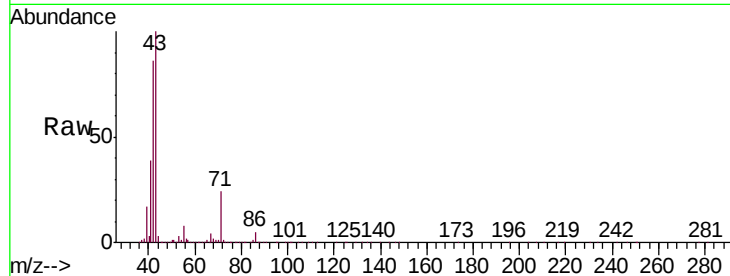
GAQE5

Tgt Ion: 43 Resp: 4221142

Ion Ratio Lower Upper

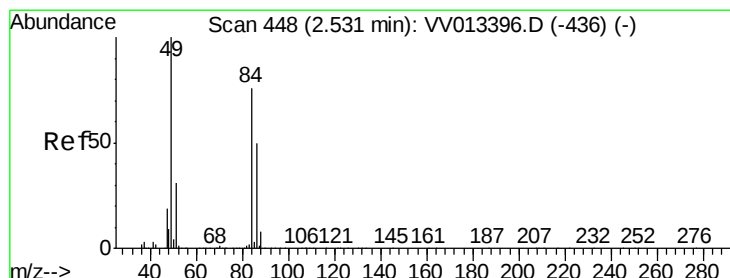
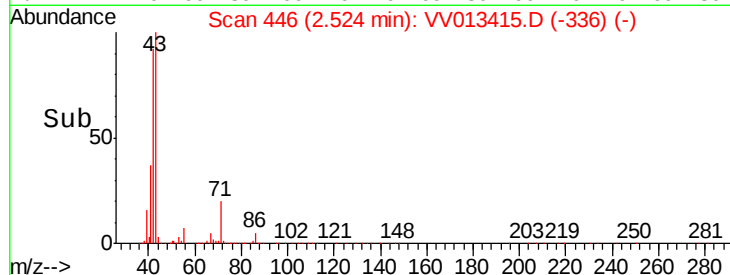
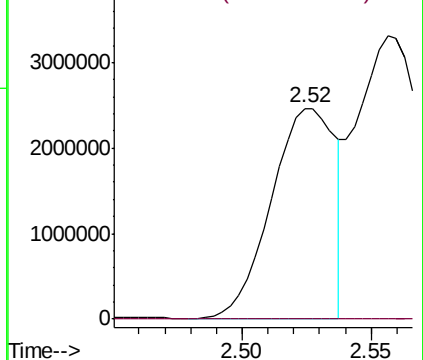
43 100

74 0.0 17.0 25.6#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 0.795 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.06 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

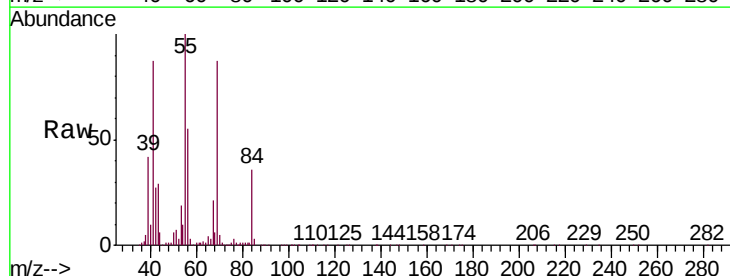
Tgt Ion: 84 Resp: 35611

Ion Ratio Lower Upper

84 100

86 0.0 43.8 81.4#

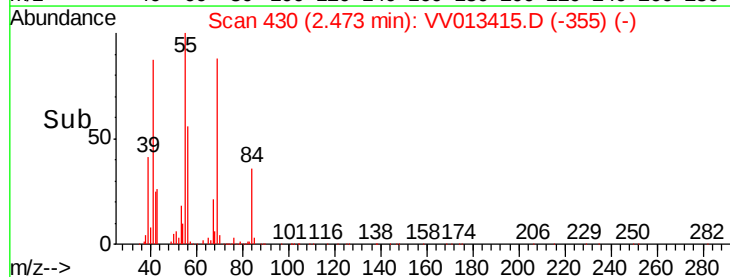
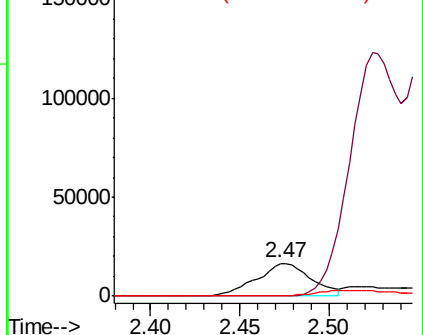
49 3.2 90.4 168.0#

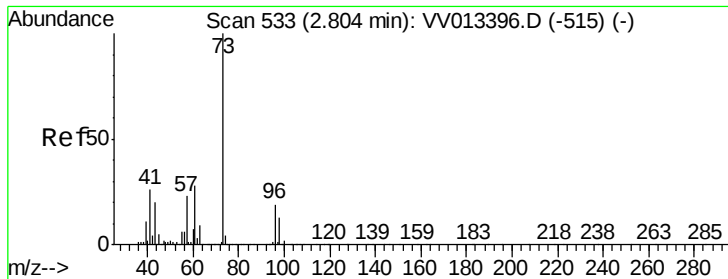


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

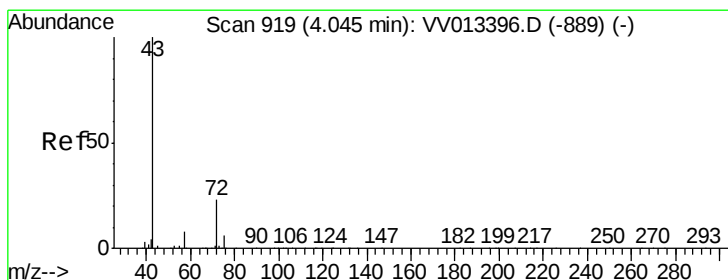
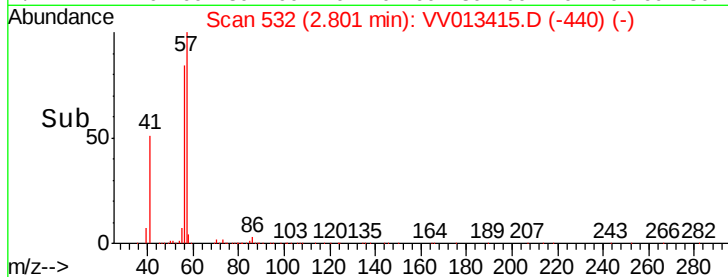
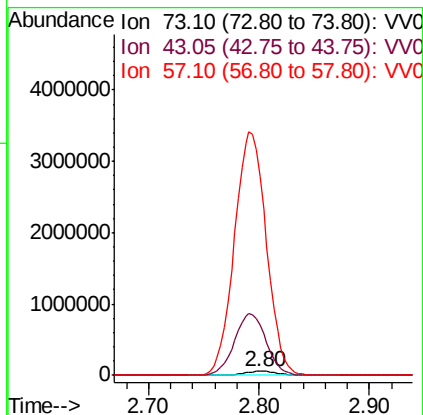
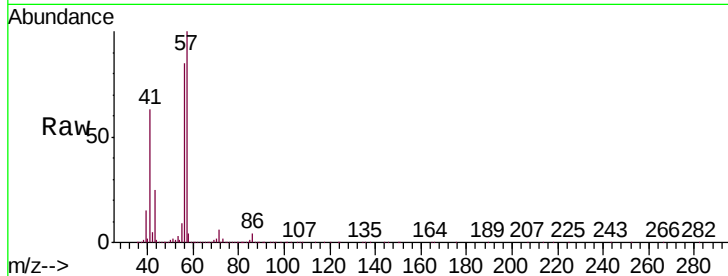




#17
Methyl tert-butyl Ether
Concen: 1.430 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

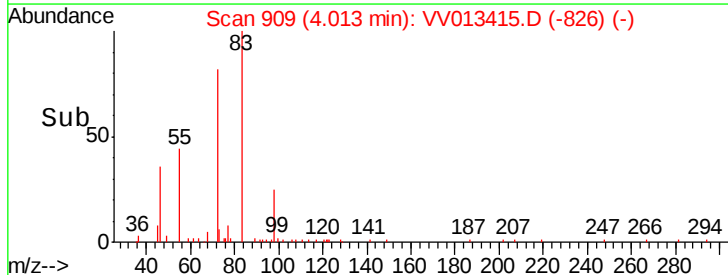
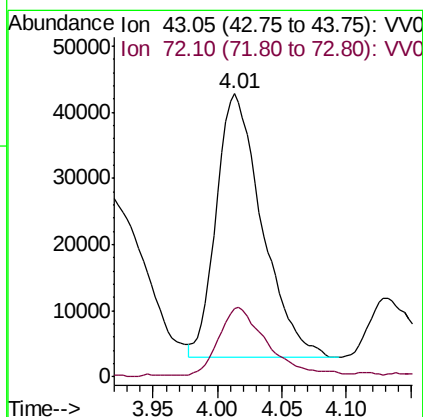
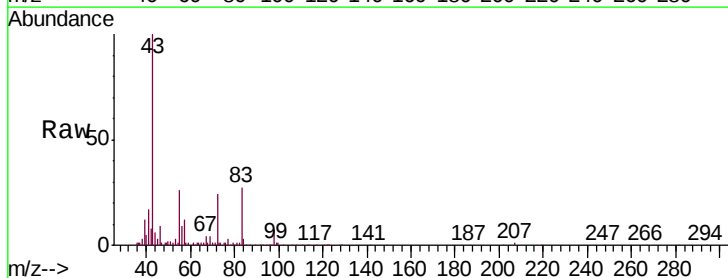
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GAQE5

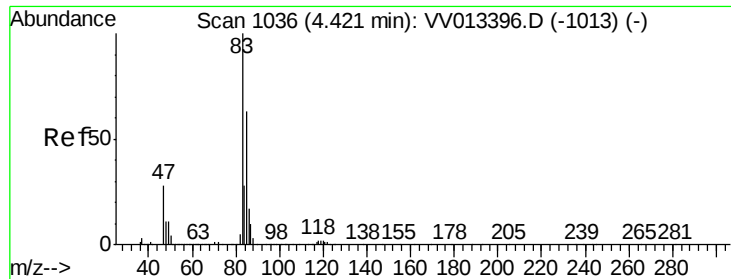
Tgt Ion: 73 Resp: 117700
Ion Ratio Lower Upper
73 100
43 1457.7 16.6 25.0#
57 5811.9 18.8 28.2#



#21
2-Butanone
Concen: 10.589 ug/L
RT: 4.01 min Scan# 909
Delta R.T. -0.03 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 43 Resp: 98555
Ion Ratio Lower Upper
43 100
72 27.4 11.3 33.9

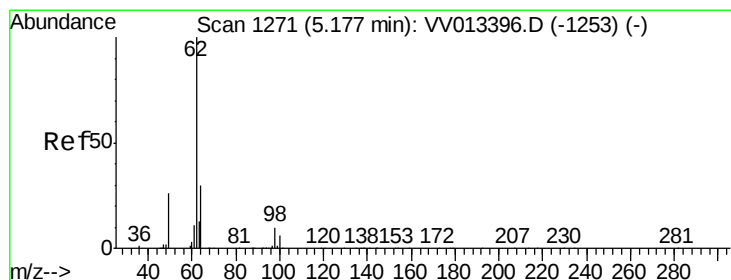
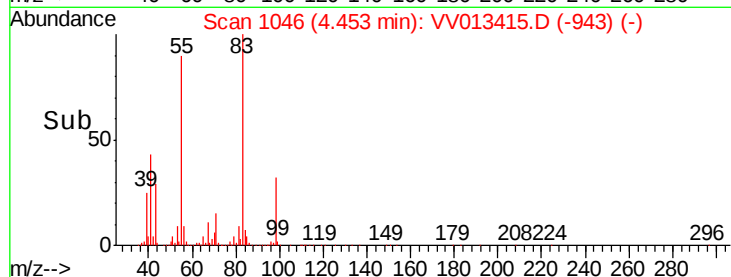
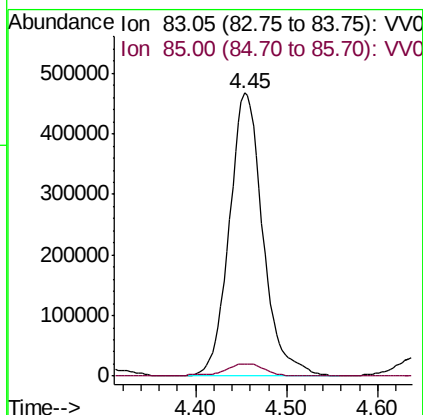
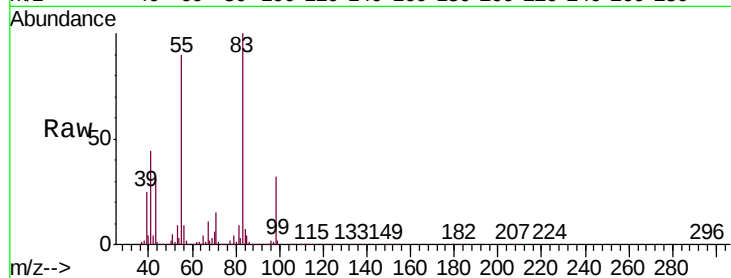




#25
Chloroform
Concen: 15.013 ug/L
RT: 4.45 min Scan# 1046
Delta R.T. 0.03 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

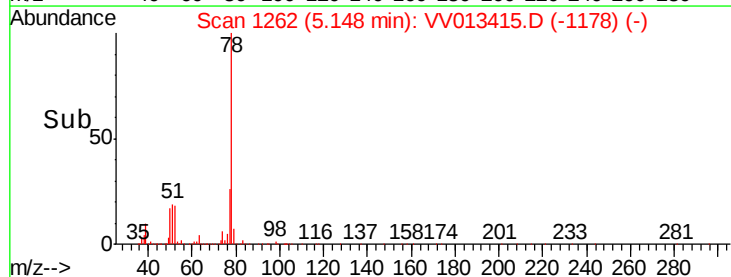
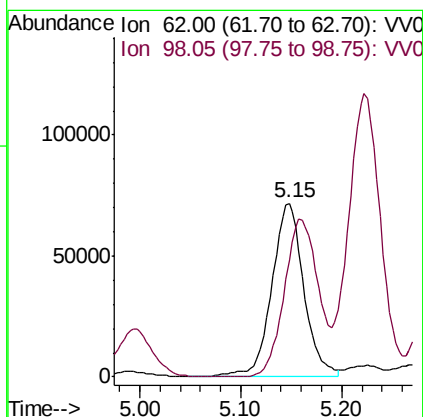
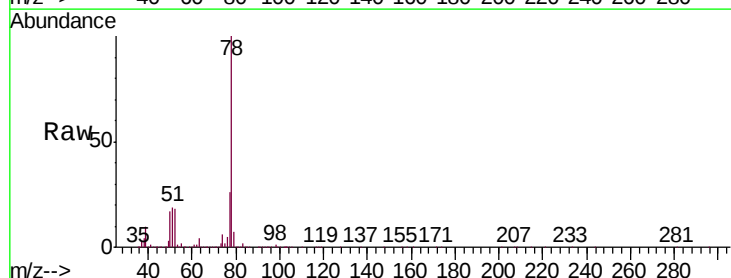
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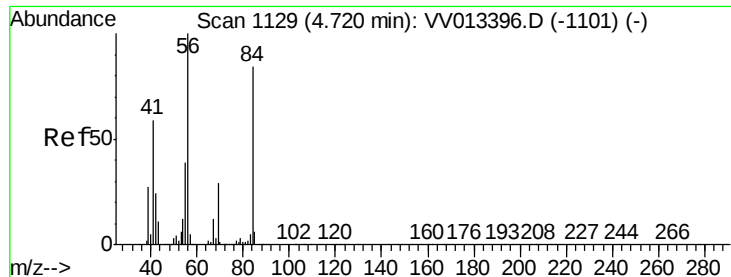
Tgt Ion: 83 Resp: 1201233
Ion Ratio Lower Upper
83 100
85 4.4 46.5 86.5#



#27
1,2-Dichloroethane
Concen: 3.604 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. -0.03 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 62 Resp: 159151
Ion Ratio Lower Upper
62 100
98 67.5 8.6 12.8#

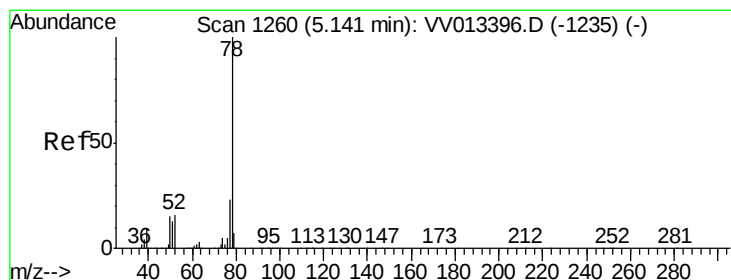
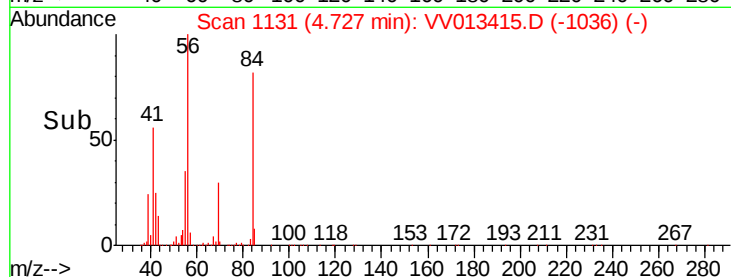
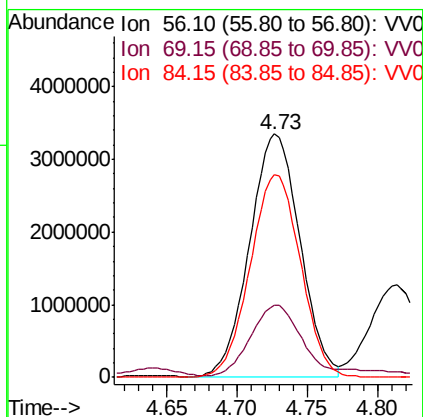
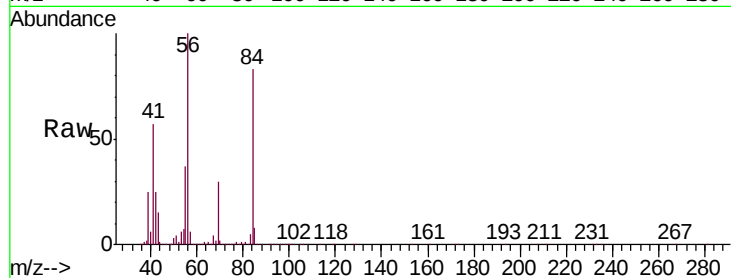




#30
Cyclohexane
Concen: 130.276 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.01 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

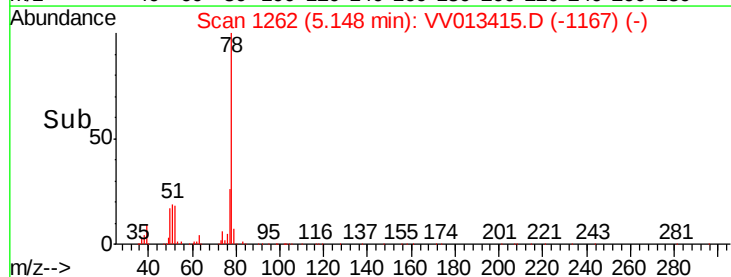
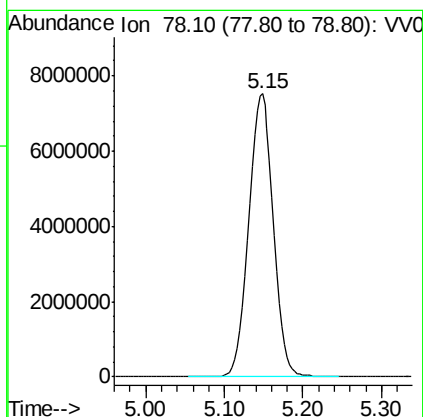
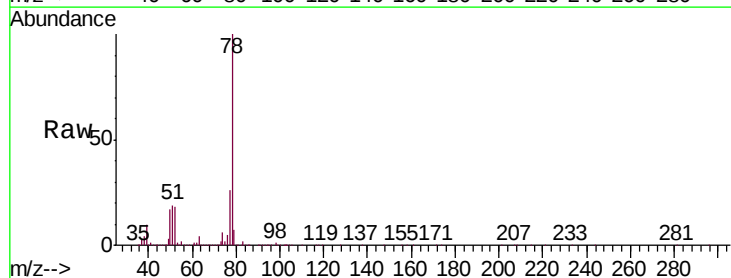
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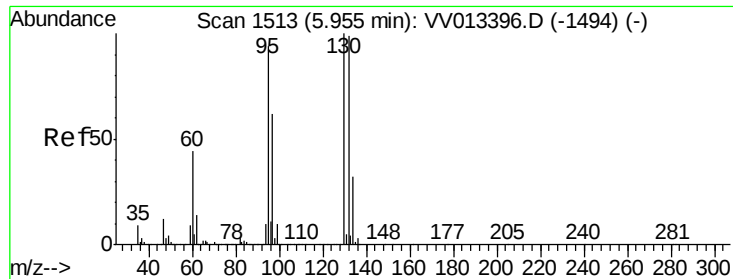
Tgt Ion: 56 Resp: 8310242
Ion Ratio Lower Upper
56 100
69 34.8 22.7 34.1#
84 83.7 65.5 98.3



#33
Benzene
Concen: 109.132 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 78 Resp:16723288





#34

Trichloroethene

Concen: 1.022 ug/L

RT: 5.99 min Scan# 1523

Delta R.T. 0.03 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

GAQE5

Tgt Ion: 95 Resp: 42976

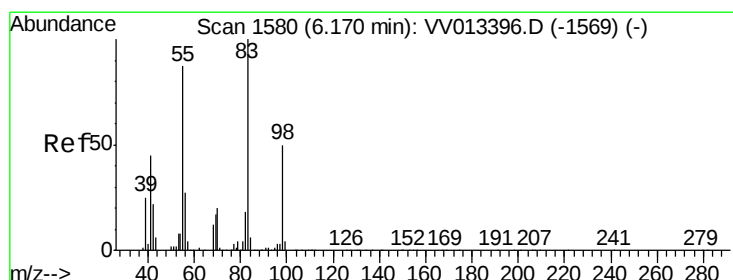
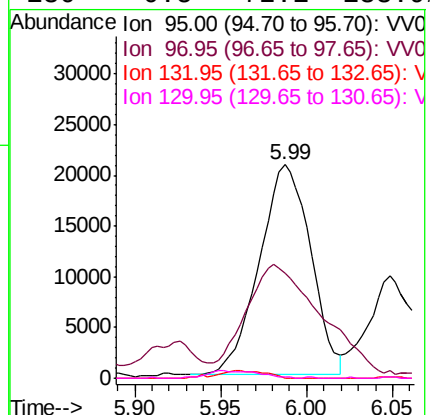
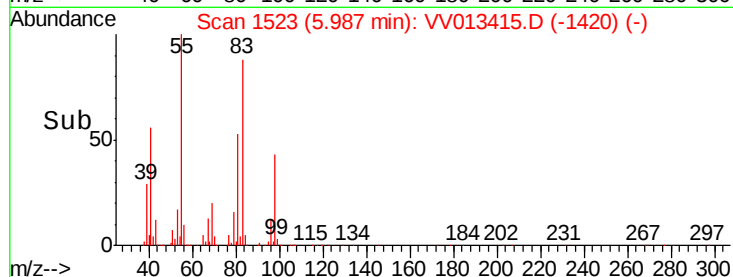
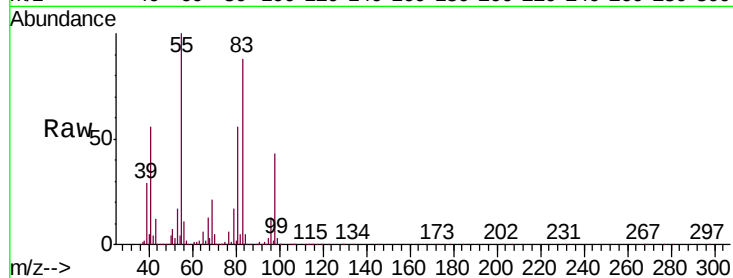
Ion Ratio Lower Upper

95 100

97 49.1 43.9 81.5

132 0.0 68.7 127.7#

130 0.5 72.1 133.9#



#35

Methylcyclohexane

Concen: 90.691 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

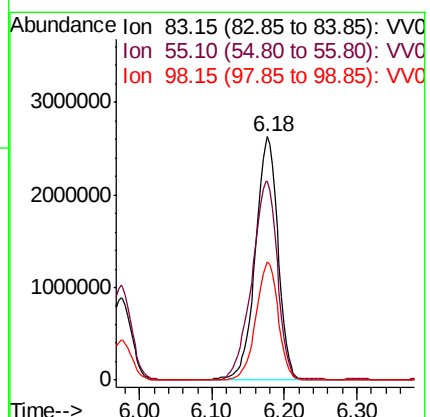
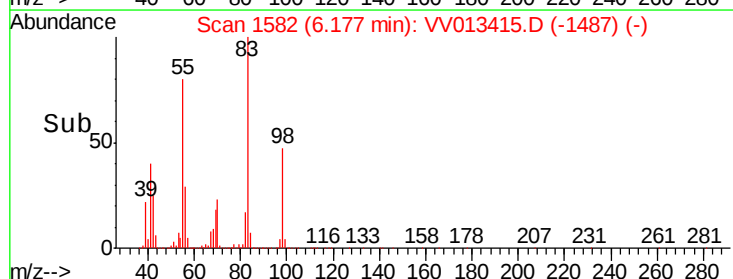
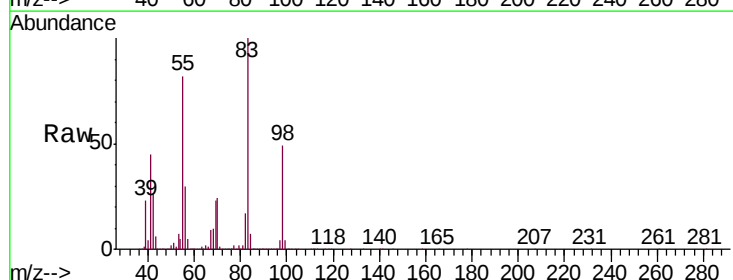
Tgt Ion: 83 Resp: 5690791

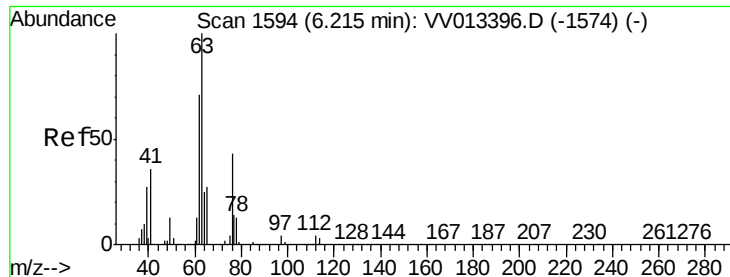
Ion Ratio Lower Upper

83 100

55 92.1 66.0 99.0

98 47.9 38.2 57.4





#37

1,2-Dichloropropane

Concen: 1.396 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.04 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampled :

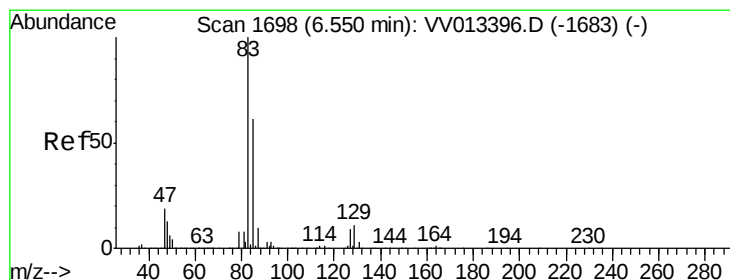
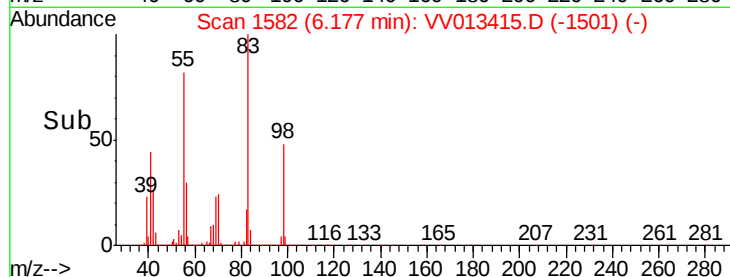
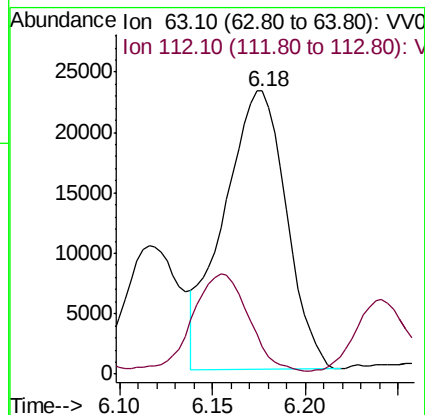
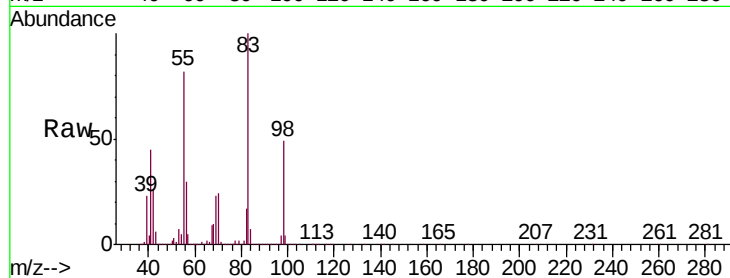
GAQE5

Tgt Ion: 63 Resp: 54074

Ion Ratio Lower Upper

63 100

112 30.8 3.6 5.4#



#38

Bromodichloromethane

Concen: 7.570 ug/L

RT: 6.60 min Scan# 1715

Delta R.T. 0.05 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

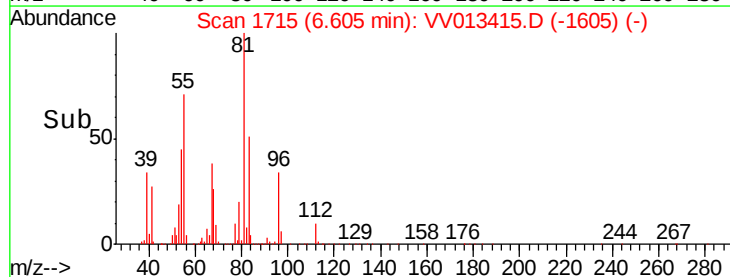
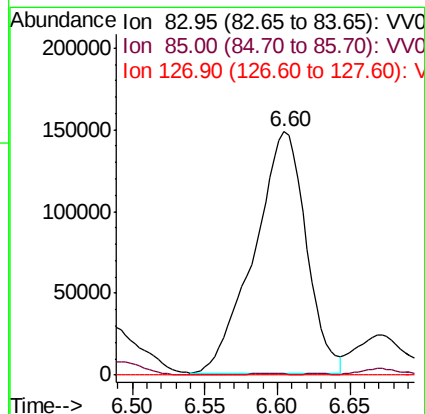
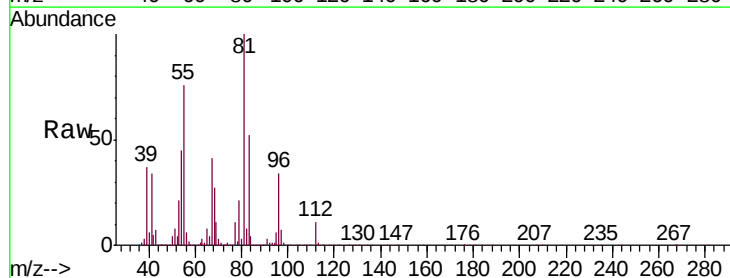
Tgt Ion: 83 Resp: 367995

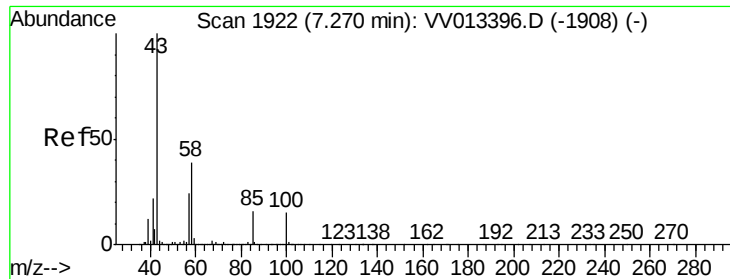
Ion Ratio Lower Upper

83 100

85 0.5 45.1 83.7#

127 0.0 7.4 11.2#

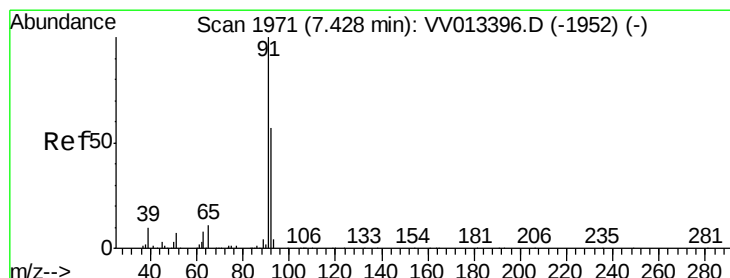
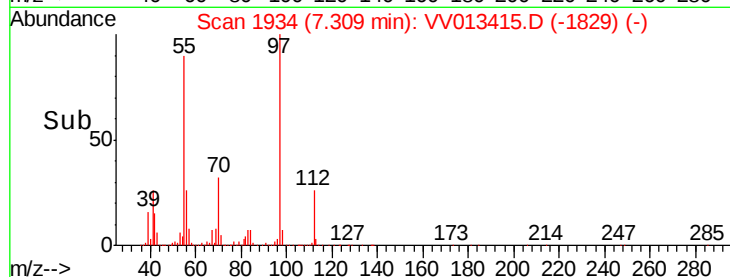
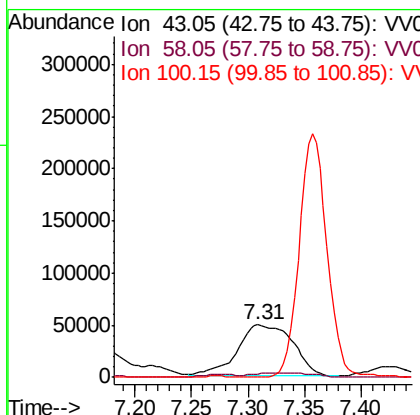
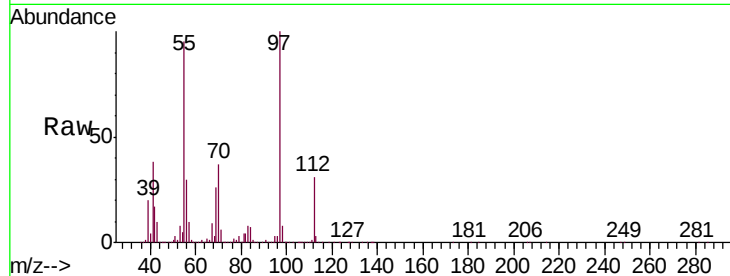




#40
4-Methyl-2-pentanone
Concen: 7.709 ug/L
RT: 7.31 min Scan# 1934
Delta R.T. 0.04 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

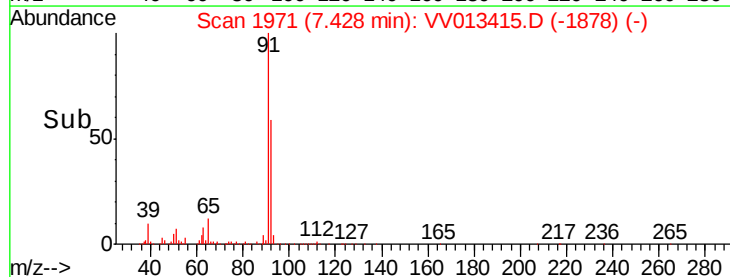
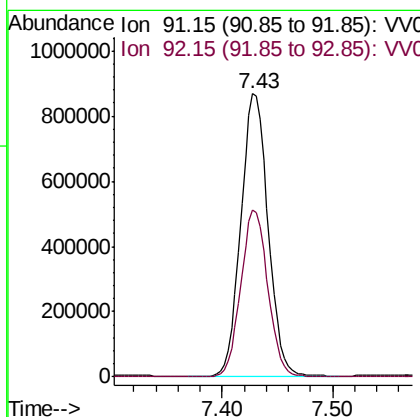
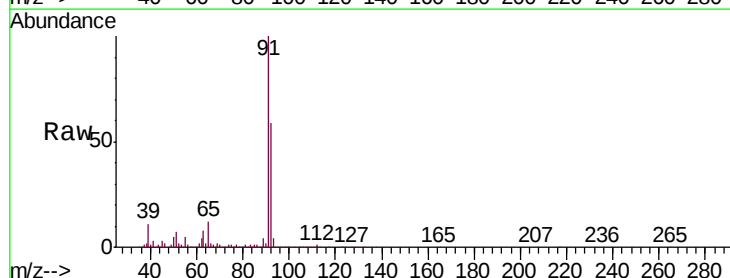
Instrument :
MSVOA_V
ClientSampleId :
GAQE5

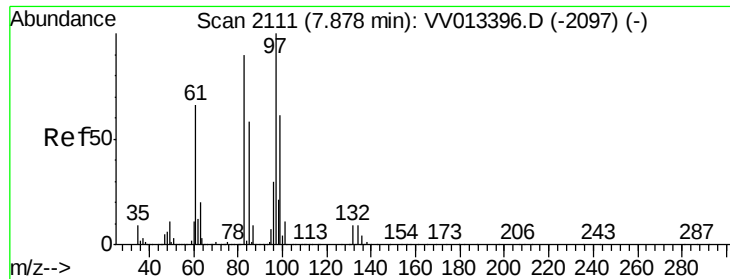
Tgt Ion: 43 Resp: 168168
Ion Ratio Lower Upper
43 100
58 8.2 29.8 44.8#
100 237.4 11.6 17.4#



#42
Toluene
Concen: 9.260 ug/L
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 91 Resp: 1479626
Ion Ratio Lower Upper
91 100
92 59.1 40.3 74.8

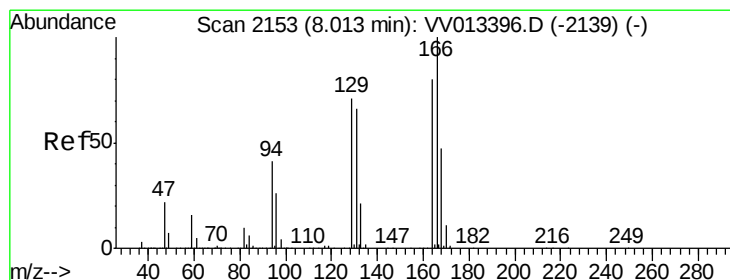
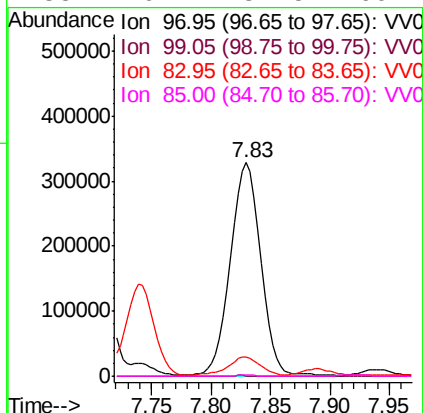
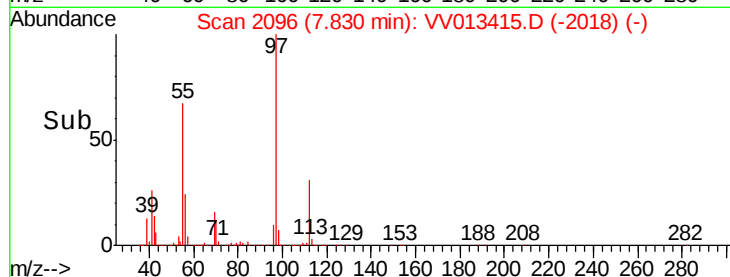
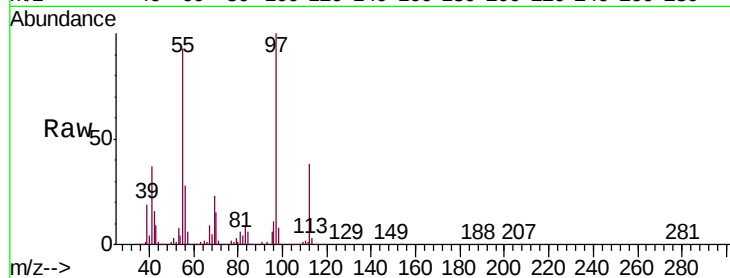




#45
 1,1,2-Trichloroethane
 Concen: 22.421 ug/L
 RT: 7.83 min Scan# 2096
 Delta R.T. -0.05 min
 Lab File: VV013415.D
 Acq: 29 Oct 2019 23:53

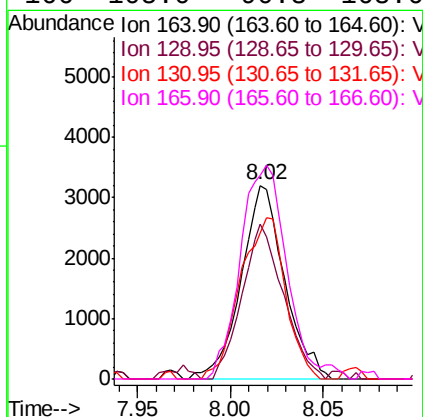
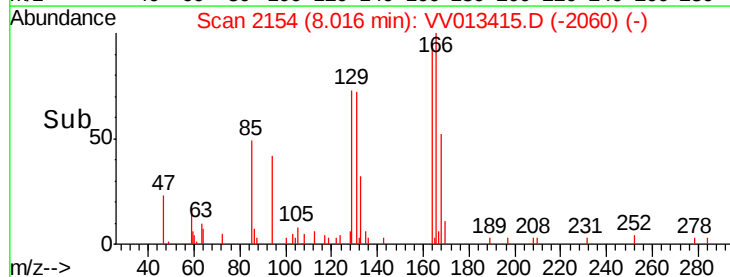
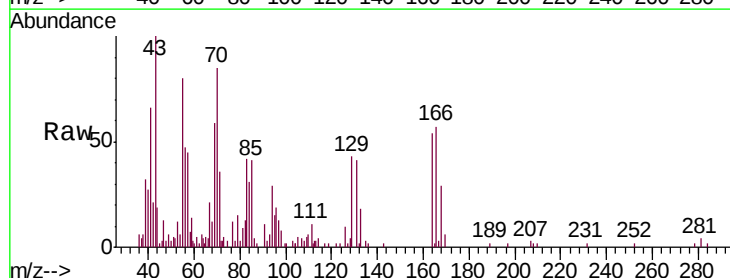
Instrument :
 MSVOA_V
 ClientSampleId :
 GAQE5

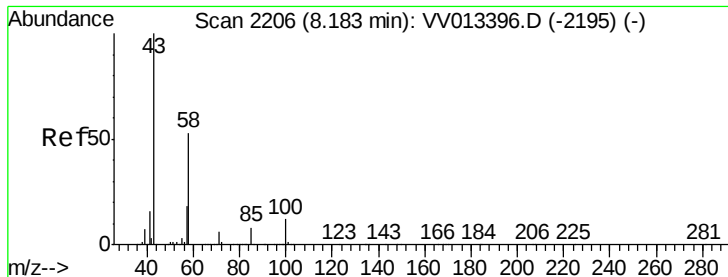
Tgt Ion:	97	Resp:	578254
Ion	Ratio	Lower	Upper
97	100		
99	0.3	41.6	77.3#
83	9.3	58.7	109.1#
85	0.4	37.5	69.7#



#47
 Tetrachloroethene
 Concen: 0.147 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013415.D
 Acq: 29 Oct 2019 23:53

Tgt Ion:	164	Resp:	5226
Ion	Ratio	Lower	Upper
164	100		
129	80.0	63.4	117.8
131	75.4	60.3	112.1
166	105.0	90.8	168.6

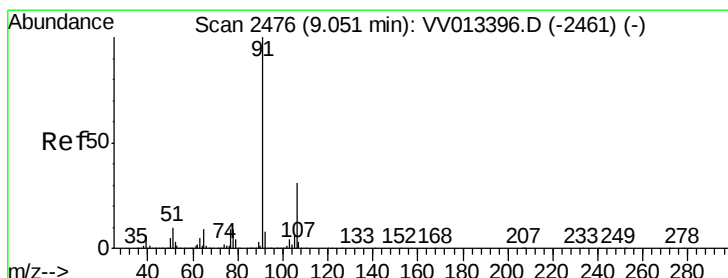
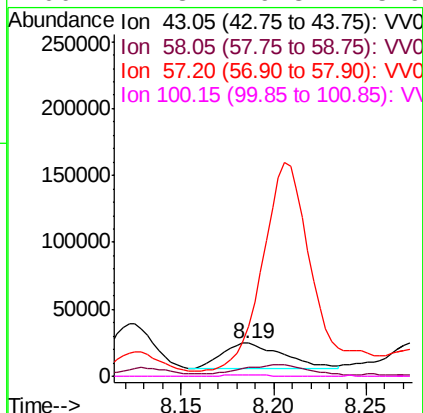
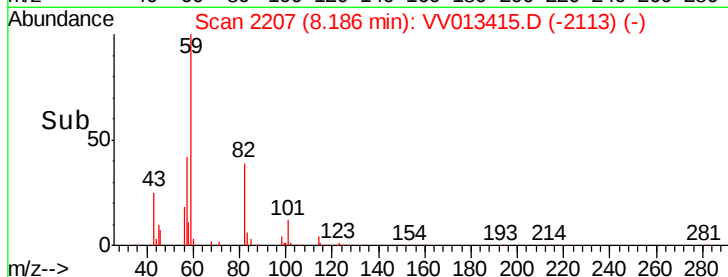
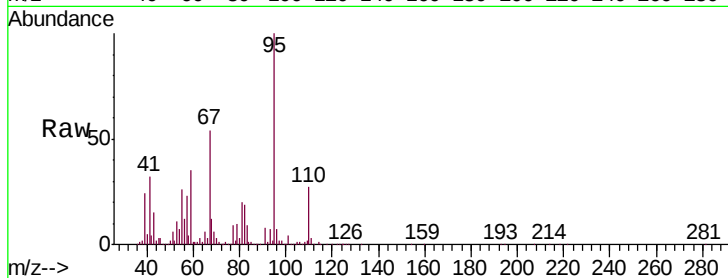




#48
2-Hexanone
Concen: 2.803 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

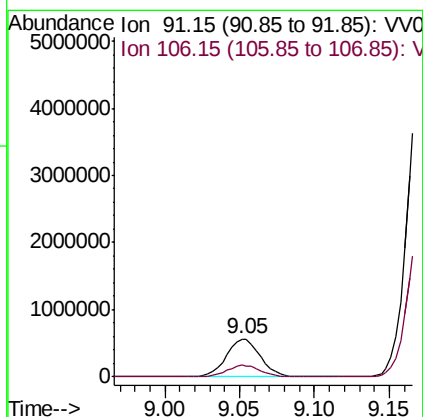
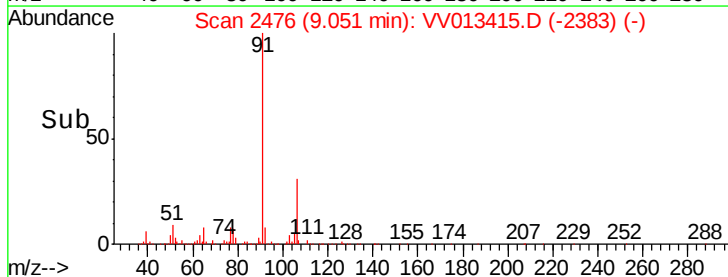
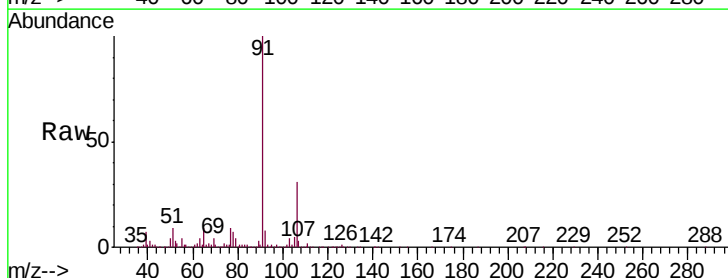
Instrument :
MSVOA_V
ClientSampleId :
GAQE5

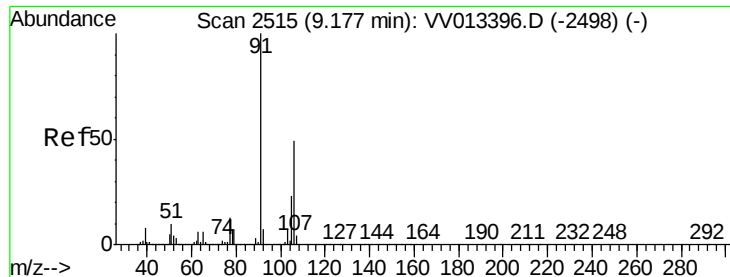
Tgt Ion: 43 Resp: 43229
Ion Ratio Lower Upper
43 100
58 44.4 43.5 65.3
57 703.7 14.3 21.5#
100 4.3 9.3 13.9#



#52
Ethylbenzene
Concen: 5.171 ug/L
RT: 9.05 min Scan# 2476
Delta R.T. 0.00 min
Lab File: VV013415.D
Acq: 29 Oct 2019 23:53

Tgt Ion: 91 Resp: 875944
Ion Ratio Lower Upper
91 100
106 30.6 21.5 39.9





#53

m,p-xylene

Concen: 90.694 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

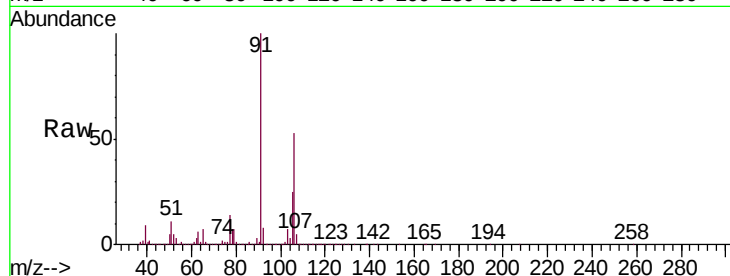
GAQE5

Tgt Ion:106 Resp: 5674738

Ion Ratio Lower Upper

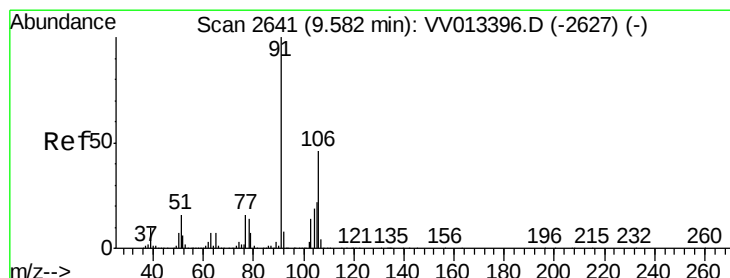
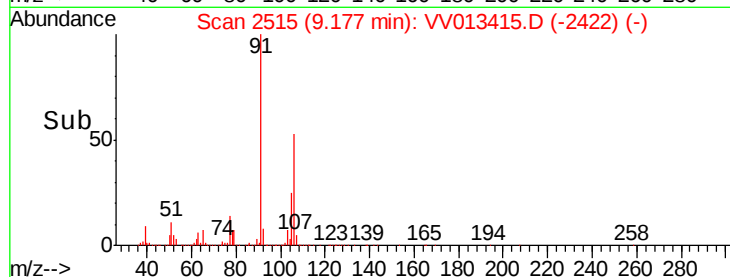
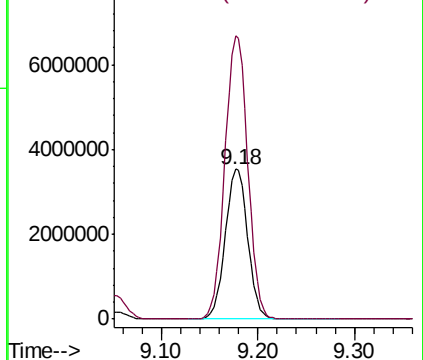
106 100

91 188.6 144.3 267.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 1.589 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013415.D

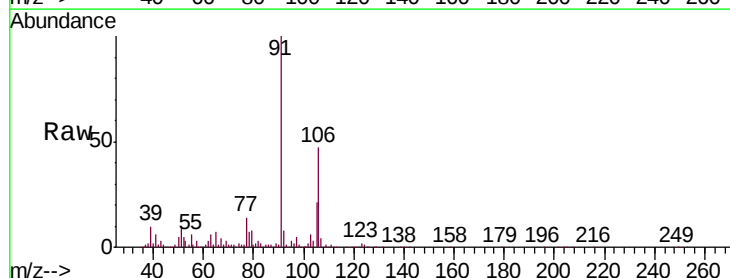
Acq: 29 Oct 2019 23:53

Tgt Ion:106 Resp: 96158

Ion Ratio Lower Upper

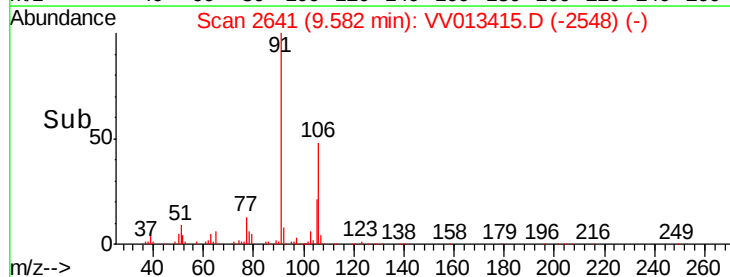
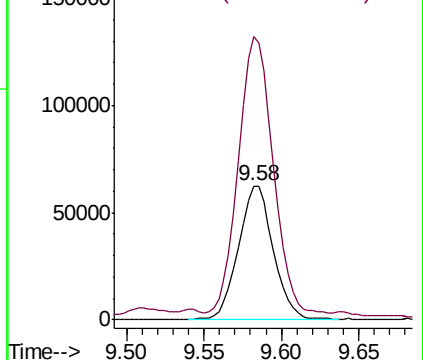
106 100

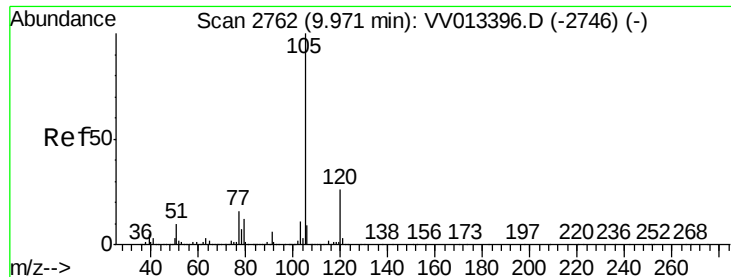
91 211.1 151.5 281.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#56

Isopropylbenzene

Concen: 19.758 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampled :

GAQE5

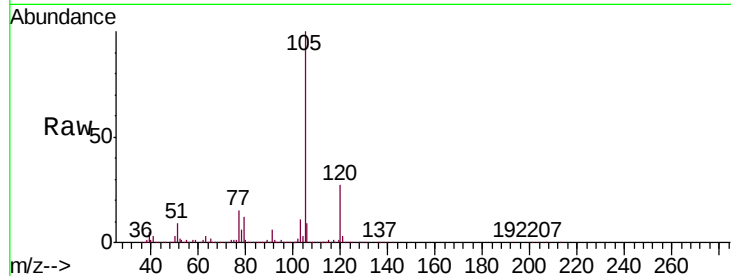
Tgt Ion:105 Resp: 3219334

Ion Ratio Lower Upper

105 100

120 26.7 21.0 31.6

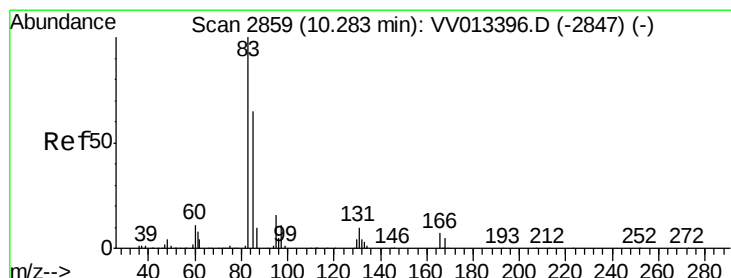
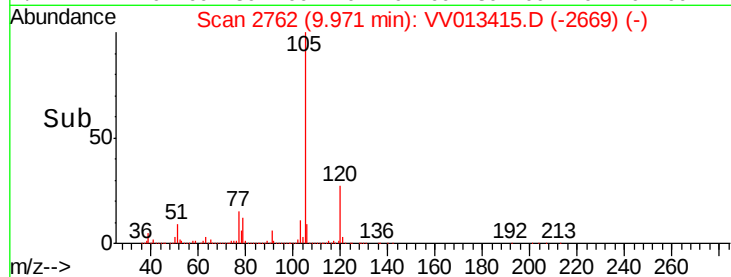
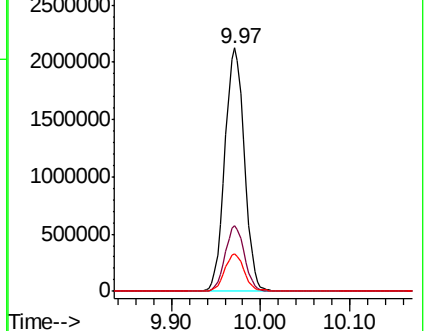
77 15.4 12.9 19.3



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: 0.448 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

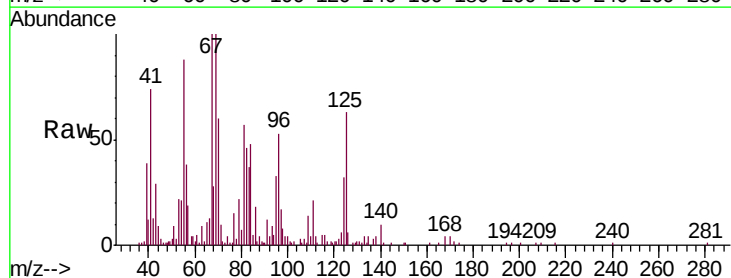
Tgt Ion: 83 Resp: 12246

Ion Ratio Lower Upper

83 100

85 14.2 44.5 82.7#

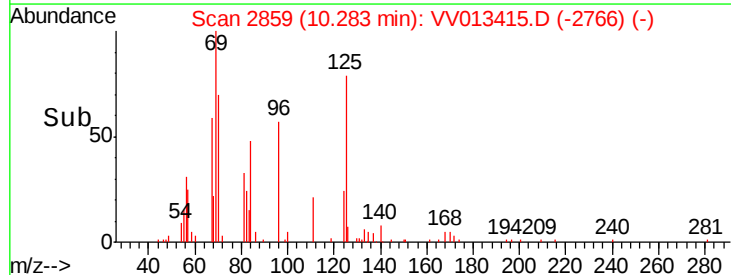
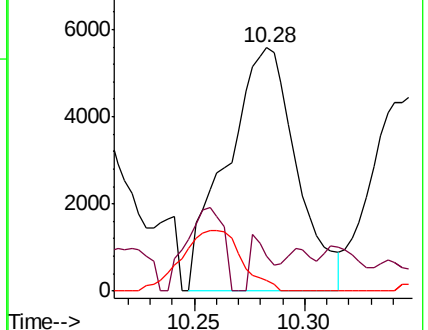
131 4.5 8.2 12.2#

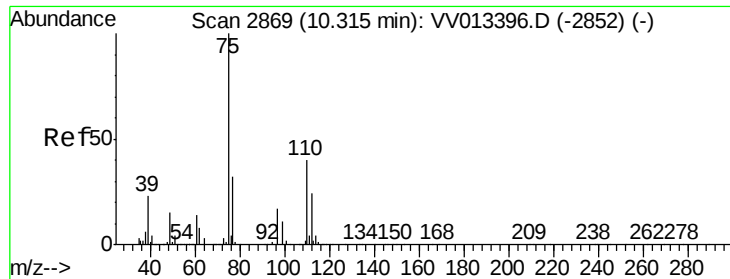


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 2.548 ug/L

RT: 10.39 min Scan# 2893

Delta R.T. 0.08 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampled :

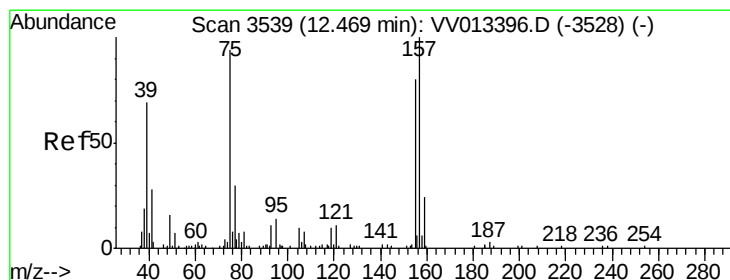
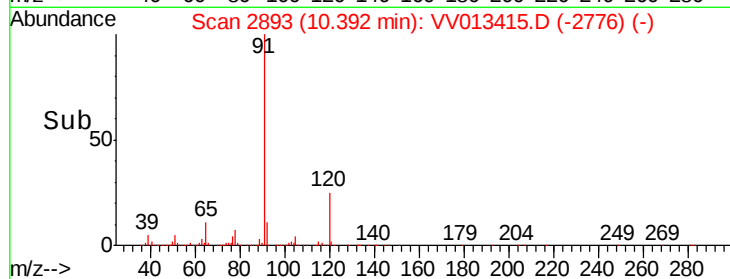
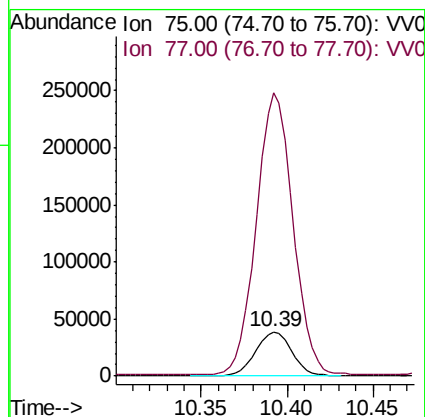
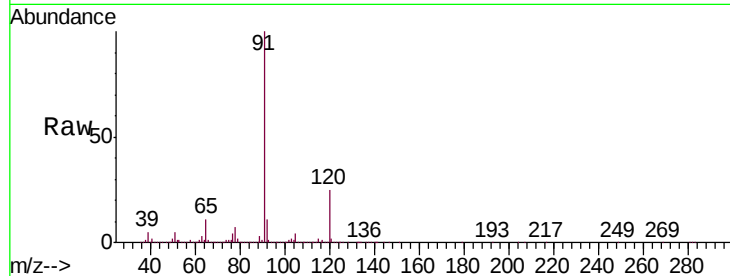
GAQE5

Tgt Ion: 75 Resp: 56805

Ion Ratio Lower Upper

75 100

77 641.4 25.7 38.5#



#66

1,2-Dibromo-3-chloropropane

Concen: 8.069 ug/L

RT: 12.46 min Scan# 3535

Delta R.T. -0.01 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

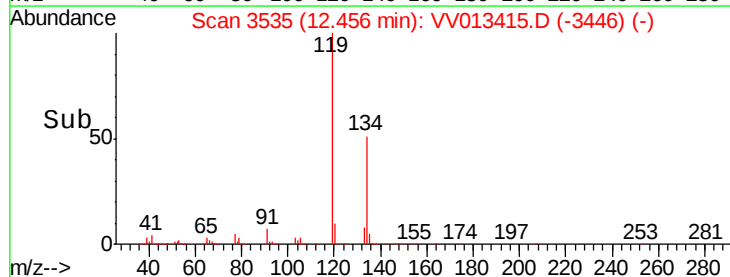
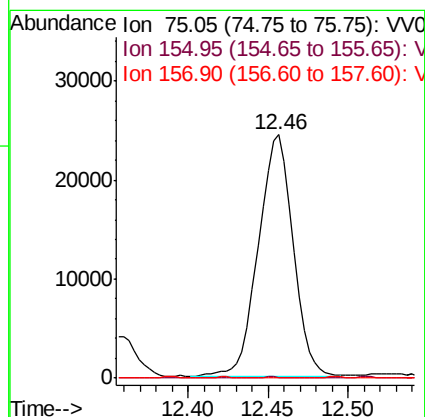
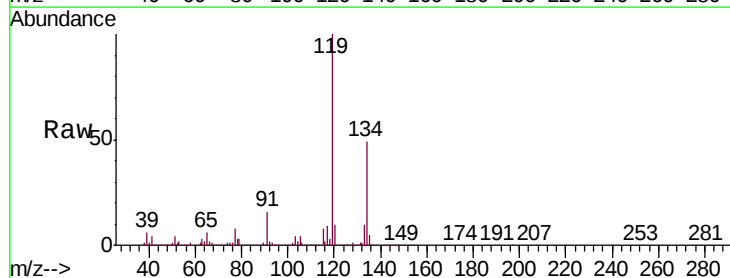
Tgt Ion: 75 Resp: 36538

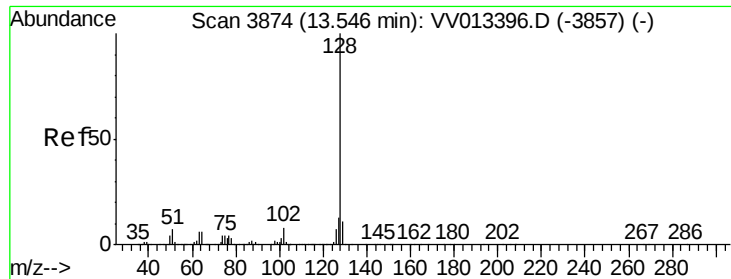
Ion Ratio Lower Upper

75 100

155 0.4 70.6 105.8#

157 0.0 85.8 128.8#





#69

Naphthalene

Concen: 104.877 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013415.D

Acq: 29 Oct 2019 23:53

Instrument :

MSVOA_V

ClientSampleId :

GAQE5

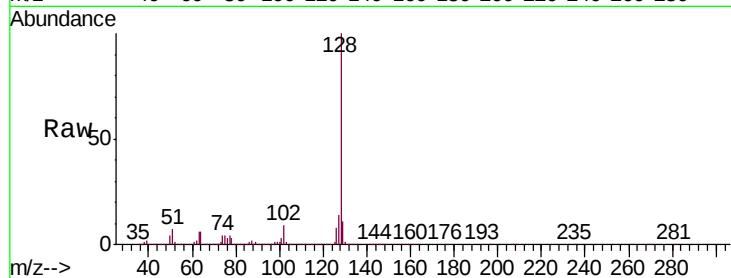
Tgt Ion:128 Resp: 7676585

Ion Ratio Lower Upper

128 100

129 11.5 8.7 13.1

127 13.5 10.6 16.0



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

